

Aqua-Air Product Catalog

AQUA-AIR
Industries, Inc.
Manufacture & Supply Commercial Diving Equipment

0 - 1000 FT " WE TAKE YOU THERE "

SHALLOW AIR
AAI 325 Compressor Package
Communications Box
Volume Tank
Diver's Helmet
Dive Control Box
Diver's Umbilical

DEEP AIR
AAI 5120 Compressor Package
54" Deck Decompression Chamber
Hot Water Unit

MIXED GAS
Helium Unscrambler
Communications Box
3-Diver Gas Control Console
Hot Water Unit
Bottle Rack
Nitrox Control Panel
Underwater Video System
Class II Open Bottom Bell
with Launch & Recovery
System (LARS)

SATURATION

Chambers

Communications

Compressors

Consoles

Gauges

Helmets

Hot Water Systems

Hydraulics

Lights

Regulators

Rentals

Suits

Umbilicals

Underwater Video



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AQUA-AIR COMPANY PROFILE

Aqua Air Industries is worldwide supplier of commercial diving equipment, complete saturation systems, sat tankage components, and ancillary equipment. We have utilized the knowledge and past experience of our personnel to design/construct state of the art diving and saturation equipment that is safe and efficient in order to meet the demands of the diving industry and to maintain the accelerated pace towards greater operational depth.

Our purpose is to provide innovative and reliable diving equipment, competitively priced.

Aqua Air Industries designs and builds over 75 products under our AAI product line and also supplies all major brands of diving equipment.

Aqua Air Industries was incorporated 34 years ago by company founder, Rodney A. Cruze. His dream was to provide innovative equipment to the diving industry. Aqua Air designed and built the first 1250 air filtration system, standardized by the U.S. Army.

Aqua Air Industries recently provided the first new-built complete saturation diving system to 1000ft fabricated in the USA in over 12 to 14 years.

Decades of experience combined with R&D and testing, have time and time again provided products and services invaluable to our customers worldwide.

Our two-acre site in Harvey, Louisiana (4 miles from the port of New Orleans) houses our Saturation Systems Division, fabrication facility, warehouse, electronics division, and diver's locker showroom.

Much of our credit goes to our valued customers for recognizing Aqua Air Industries, Inc. as their commercial and offshore supply specialist.

Aqua Air Industries, Inc. sincerely thanks diving companies, military, government agencies, the scientific community, and the commercial diver for giving us the opportunity of supplying your equipment needs.

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2 Diver Air Control Cases



AC-250 Standard Features:

- 2 Diver – 3 Input
- Brass Manifold Block – ½ Bore
- Circle Seal Check Valves Inputs
- Parker Ball Valve S.S. Handles
- S.S. Pressure Gauge – 0-400 PSI Glycerin Filled
- Regulator – Miniature –
Prevents Over-Pressurization of Pneumo Gauge
- Parker Miniature Valves – Both Gauges can be used
- Pelican Case

HSE-Extra Features

- 3 Pressure Gauges – 0-400 PSI (Incoming Pressure)
- Relief Valve – Brass – 225 PSI

Options

- Digital Gauges
- HP Regulator
- Fresh Water Gauges
- 3 Diver Outlets
- Communications
- Gauge Calibration Certificates –
1 Diver Operation

AIR DIVING COMMAND CENTER



The AAI Air Diving Command Center is a multi-component integrated unit. This compact unit keeps all required key components within the operator's reach which enables the operator to maintain control of all diving operations simultaneously. This console can be customized to the customer's needs by changing out any number of the various components. Its versatile and unique design makes it a necessity for any diving operation interested in safety and efficiency.

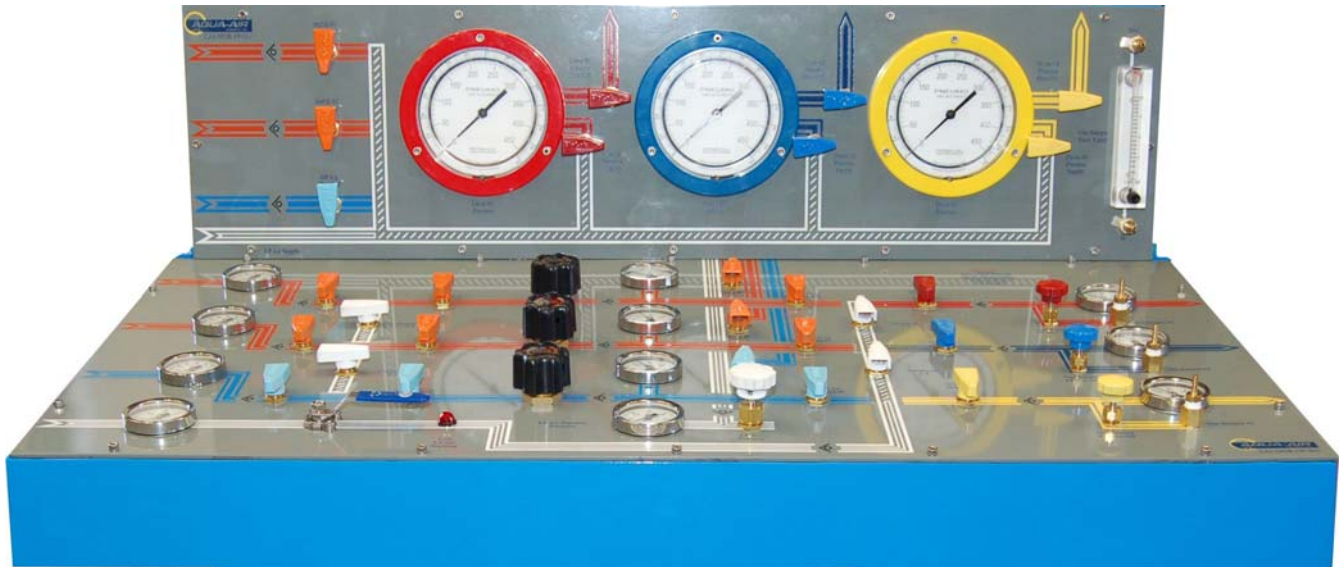
Specifications:

- Perma Cal gauges (see options)
- Amron rack mounted primary and backup radios (see options)
- 1-LP inlet
- 1-HP inlet
- 2 or 3 diver outlets
- Divers breathing mixture routed to his specific pneumo
- U/W camera controls and monitors
- DVD recorder/ player
- Battery backup w/ surge protector

Options:

- 2 or 3 air diving control panel, or 3 diver mixed gas control panel
- 2- mixed gas inlets for two separate gas mixtures
- 2 or 3 diver radios
- 3 diver radio/unscrambler
- 1 or 2 camera controls and monitors

3 Diver Gas Console Part # AAI-3D350-3DHEO



Details:

The AAI 3 Diver Gas Console was designed for simplicity of operation with the capabilities of leaving input supply valves open without back pressure mixing of different gases through the high pressure regulators by the simple turn of a cross over valve. The regulator design gives the operator the option of isolating a regulator by turn of one isolation valve.

The downstream/low pressure side of the panel is all ½" brass tubing (stainless steel tubing optional). The low pressure inlet to the divers supply also has a ½" Circle Seal Check Valve, which prevents a HEO2/HP air contamination if a cross over valve is left open by the operator by mistake. Each diver has an independent shut-off valve/line pressure gauge. The diver's output supply has a ½" check valve so Nitrox can be introduced outside of the console for decompression purposes. Gas analysis for the divers supply gauge can be monitored during the whole dive.

Features:

| Inputs | Outputs |
|------------------|-------------------|
| 1 – HEO2 Inlets | 3 Diver |
| 1 – HP Air Inlet | 3 Pneumo |
| 1 – LP Air Inlet | 3 Gas Analyzation |

Dimensions:

| | |
|---------|--|
| Width: | 48" (1.2m) |
| Depth: | 30" (.76m) |
| Height: | 20" (.5m) |
| Option: | Portable model w handles is 54" wide (1.37m) |

Amcommand I One Diver HP-LP Air Dive Station



The Amcommand I has both high and low pressure inlet supply connections and can handle two separate 4500PSIG inlet sources. The compact Tescom high flow regulator is user adjustable which allows the operator to select the divers' outlet pressure depending on the helmet or mask requirements. The full size, 6" Pneumo gauge is easy to read with dual FSW/MSW scales and has the highest accuracy rating in the industry. Individual shut off valves, check valves, relief valve and 50 micron in-line filter complete the air control system. The Amcommand I included a panel-mounted one diver radio which features both 2 and 4 wire communications capability. This 22-watt radio has an extended gel-cell rechargeable battery life, a built in universal charger, VCR compatible tape record jack and a hand held microphone. The two 6 foot HP supply whips are complete with the 'A' style yoke to fit a standard scuba bottle (CGA-850 connection, 3000PSIG max) and internally stored in the lid.

Part Numbers: 8111 - Amcommand I
8111-H – Amcommand I with Heating Element

Air Control

- High Pressure Side
 - Two high pressure supply connections with two color coded, 6 ft SCUBA yokes and whips. The whips and yokes remain attached to the lid of the unit during storage or transit.
 - Each input has a color coded shut off valve and a pressure gauge which allows the tender to change out the air bottles in the system.
 - As an added safety feature, check valves on each input provide protection against back flow of air from a full bottle to the empty in case the operator forgets to close the valve when switching bottles.
 - A high quality Tescom adjustable, non-venting regulator reduces the high pressure air to low pressure air. The regulator input is protected against contamination by a 50 micron filter and a 0-400PSIG gauge monitors the output pressure. A relief valve (factory set 285PSIG) limits over pressurization.
- Low Pressure Side
 - Input check valve permits simple switching to back-up high pressure air in the event of low pressure air failure. Back-up high pressure air supply can simply be turned on. Diver umbilical air connection is an oxygen type fitting, controlled by a quarter turn ball valve which permits unrestricted flow.



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Amcommand I One Diver HP-LP Air Dive Station Cont.

Communications

- The 2810A radio comes complete with a hand-held push-to-talk microphone which cancels top side background noise and provides clear communication to the diver.
- The communicator has individual volume controls for the diver and tender which provides for individual preferences of volume. Dynamic 22 watt 'voice power' insures clear communications even under difficult conditions.
- The radio has AC power with battery back-up power. The system can also be powered from an external 12V source or the 110/220 volt battery charger. A red LED battery condition indicator also functions for external power sources.

Pneumo System

- The Pneumo System measures the diver depth by supplying air pressure to the Pneumo hose.
- The heart of the Pneumo system is the high precision 6" depth gauge. The gauge dial has a glare free face and is clearly marked for fast, accurate readings. Accuracy is .25%, full scale. The system has a built-in snubber for reducing pulsating and shock pressure loads to the precision gauges.
- The Diver Pneumo is a valve regulating type with yellow handle and controls the air supply to the Pneumo fathometer system.

Specifications

- **Air Control Specifications**
 - HP Supply Pressure: 500-4500 PSI
 - HP Supply w/ DIN: 2 Source Select
 - HP Inlet Valve: 0-5000 PSI Accuracy +/- 1.5% of Full Scale
 - HP Gauge: Two (2) Check Valves prevent reverse inlet flow
 - HP Check Valve: Two (2) Input Yokes, with 6ft. high pressure hose whips
 - HP Yokes & Whips: 50 Micron In Line
 - HP Regulator Output: Tescom® High Pressure Regulator
 - HP Regulator Max: 0-285 PSI
 - HP Inline Filter: Cv = .06
 - LP Relief Valve: 4500 PSI
 - LP Output Fitting: O2, 9/16-18 RH oxygen (B size)
 - LP Inlet Fitting: #6 JIC
- **Communications Specifications**
 - Power: 110/220VAC 50/60Hz (automatic) with internal/external battery, 12VDC
 - Battery Life: 50 Hours (approx.)
 - Frequency Response: 300Hz – 3kHz
 - Audio Power: 22 watts per channel
- **Pneumo Specifications**
 - Pneumo Gauge: 6" Dual Scale 0-250 FSW/76 MSW
 - Pneumo Fitting: 02 (37° JIC optional)
- **Panel Specifications**
 - Panel Material: Black polyester powder coated over stainless and aluminum
 - Graphics: Red, white and blue silk-screened

Amcommand™ II High and Low Pressure Air Control System



The Amron Amcommand II is a portable, self contained, two diver complete dive system. The Amcommand II provides all of the operations necessary to monitor and control the diving operation. The system is a central control point of the supply of breathing air to the divers, monitors the divers depth, provides an audio alarm if the divers air pressure falls below a preset limit, and provides superior communications for two divers and topside personnel.

Easy set-up with high pressure sources or low pressure air which greatly extends search and rescue diving capabilities. To use the new Amcommand II with 4500PSIG inlet supply, simply change the yoke assembly with the Model SAA5300, 300 BAR DIN adapter. The communications system can be both full duplex or simplex. The optional Wireless Tender provides the tender or operator with freedom around the dive site while staying in constant communication with the divers. The case is extremely strong and durable constructed of pressure fused fiberglass that provides a convenient, compact, rugged and professional system designed for years of reliable operation.

Part Numbers: 8225-HP – Amcommand II
8225-HP-H – Amcommand II with Heating Element
8225-HP/28FDW – Amcommand II with Wireless Tender Option
8225-HP2 – Amcommand II with Dual HP Regulators

WARNING: DO NOT USE THE AMCOMMAND II FOR THE FOLLOWING:

1. Mixed gas diving operations with an oxygen level greater than 40%.
2. Oxygen or oxygen enriched breathing mixtures above 40%.

The Amcommand II is not designed or intended for these applications.

High Pressure Side

- High pressure inputs include two color coded (red and blue) SCUBA bottle yokes with six foot hose whips.
- Each input has a 0-5000PSIG gauge and shut off valve to monitor and switch from one high pressure source to the other.
- The added safety feature of check valves provide protection against back flow of air from a full tank into an empty when switching HP tanks.
- High pressure air is reduced to low pressure via a Tescom regulator with a pre-regulator in-line 50 micron filter. A 0-4000PSIG gauge monitors the output pressure. A relief valve (Factory set at 285PSIG) prevents over pressurization.

Low Pressure Side

- Input check valve permits simple switching to back-up high pressure air in the event of low pressure air failure. Back-up high pressure air supply can simply be turned on. Diver umbilical air connection is an oxygen type fitting, controlled by a quarter turn ball valve which permits unrestricted flow.



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Amcommand™ II High and Low Pressure Air Control System Cont.

Communications

- The communicator is powered by two internal rechargeable Gel-cell batteries complete with the Amron external charger and noise canceling hand-held push-to-talk microphone. The PTT mic eliminates the transfer of all topside noise to the divers and improves communications quality.
- System can also be purchased with the FDW Wireless Tender Option – provides the tender complete mobility to move around the dive site and still remain in constant contact with divers.
- Also available: Amron Walk & Talk Module – allows the tender to remotely operate unit from up to 25ft. away.

Pneumo System

- The heart of the Pneumo system is the high precision 6" depth gauge. The gauge dial has a glare free face and is clearly marked for fast, accurate readings.
- An air pressure alarm monitors air pressure supplied to the divers and activates an audio alarm alerting the operator of low pressure conditions. The pressure switch is preset at 100PSIG and can be manually adjusted to any pressure between 22.5 and 112PSIG.

Air Control Specifications

- HP Supply Pressure – Standard Unit: 3000 PSIG
- HP Supply with DIN Adapter: 4500 PSIG
- HP Inlet Valve: 2 each source select
- HP Gauge: 0-5000 PSIG \pm 1.5%
- HP Check Valve: 2
- HP Yokes & Whips: 2 each 6' blue and red
- HP Regulator Inlet: 4500 PSIG
- HP Regulator Outlet: 250 PSIG
- HP In Line Filter: 50 micron
- LP Relief Valve: set 285 PSIG
- LP Input Fitting: #6 JIC
- LP Output Fitting: O2

Communications

- Operating Voltage: 12 VDC
- Power: 2 each 12VDC Rechargeable Batteries or External Power 12 VDC
- Battery Operating Time: 60 hours (approx.)
- Frequency Response: 300Hz to 7.5 kHz
- Audio Power: 22 watts per channel

Panel Specs

- Panel Material: Black polyester powder coated over stainless and aluminum
- Graphics: Red, white blue and yellow silk-screened

Kirby Morgan Air Control System 5 (KMACS 5)



Kirby Morgan Air Control System 5 (KMACS 5) is a lightweight, portable control box for two diver use in surface supplied air diving operations. The KMACS 5 controls the diver's air supply, communications and monitors the diver's depth. It allows two divers clear push-to-talk (two wire) or round robin (four wire) communications. The KMACS 5 is also available without communications.

The air supply can be either from a low pressure compressor or high-pressure cylinders. The KMACS 5's adjustable first stage regulator reduces the high-pressure air and supplies low pressure through the umbilical to the diver's breathing system. High pressure yokes with DIN adapters permit U.S. standard scuba cylinders or DIN valve cylinders to be used. A low pressure air supply fitting allows for a L.P. compressor to be used as the primary air source.

Features:

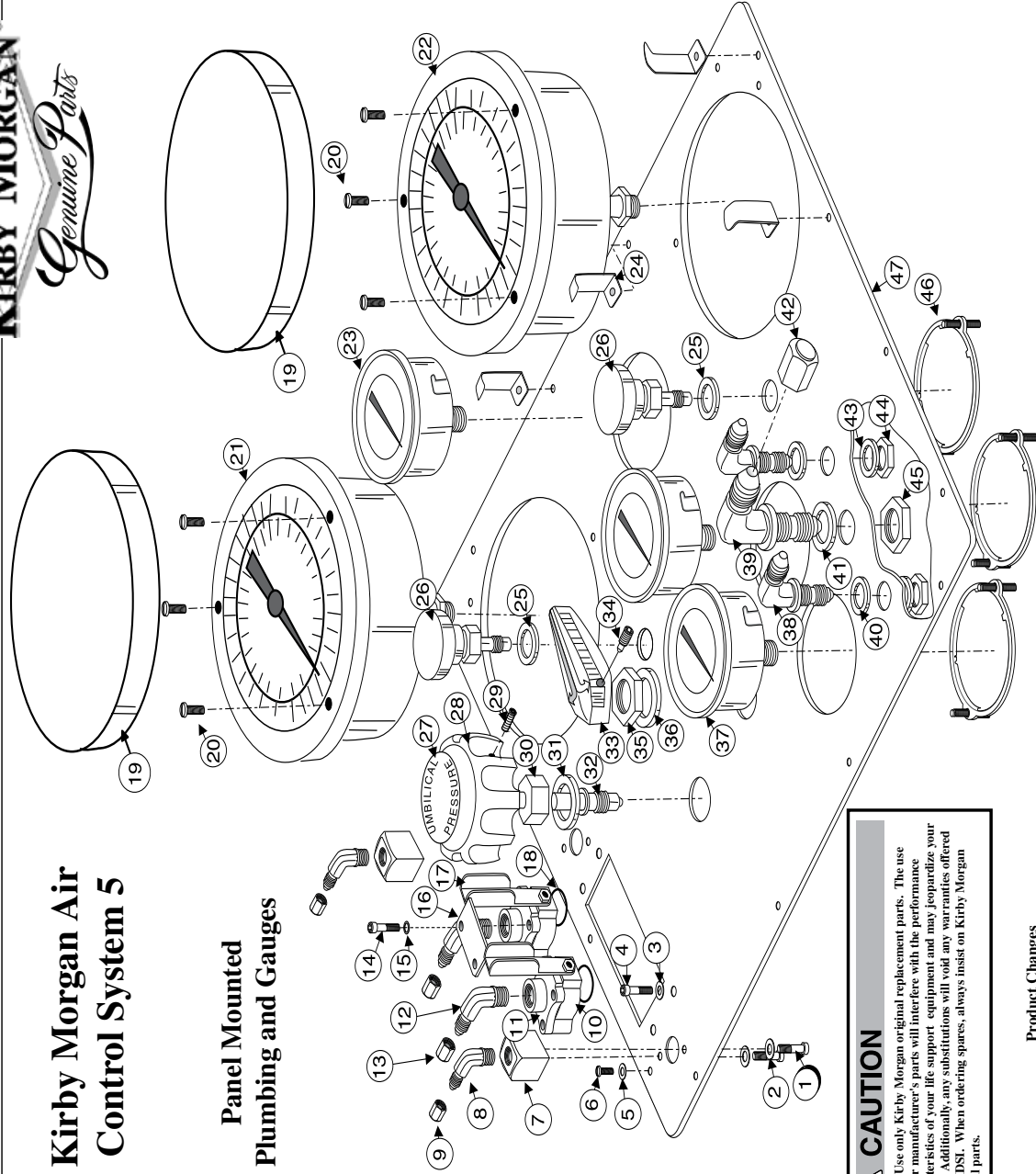
- A. The Communication Set
- B. Depth Gauge/Pneumo Systems
- C. Depth Monitoring/Pneumo Knob
- D. The Stainless Steel Air Outlets Fittings
- E. Regulator Adjustment Knob
- F. Selector Valve Handle
- G. High Pressure (HP) Supply Gauges
- H. Low Pressure Air Supply Fitting
- I. Umbilical Pressure Gauge
- J. High Pressure Air Supply Yokes



Kirby Morgan Air Control System 5

Panel Mounted Plumbing and Gauges

| Key# | Part # | Description |
|------|---------|---|
| 1 | 430-111 | Screw |
| 2 | 430-134 | Washer |
| 3 | 430-134 | Washer |
| 4 | 430-111 | Screw |
| 5 | 430-075 | Washer |
| 6 | 530-035 | Screw |
| 7 | 450-144 | Pneumo Block |
| 8 | 455-032 | SS Elbow |
| 9 | 455-007 | Cap, Pneumo |
| 10 | 455-157 | Valve Body |
| 11 | 455-145 | Valve flange |
| 12 | 455-143 | SS Elbow |
| 13 | 455-006 | Cap, Umbilical Outlet |
| 14 | 430-141 | Socket Head Screw |
| 15 | 430-134 | Washer |
| 16 | 440-210 | Handle Stop |
| 17 | 440-212 | Valve Handle |
| 18 | 425-110 | Kit, Shut Off Valve |
| 19 | 510-017 | O-Ring |
| 20 | 420-140 | Gauge Cover |
| 21 | 530-070 | Screw |
| 22 | 440-010 | Pneumo Gauge, Red |
| 23 | 440-011 | Pneumo Gauge, White |
| 24 | 440-150 | Gauge, L.P. |
| 25 | 440-115 | Hose Holder |
| 26 | 430-130 | Washer |
| 27 | 455-051 | Pneumo Valve Assembly w/ #18 from interior plumbing drawing. |
| 28 | 420-135 | Decal |
| 29 | 450-170 | Knob, Regulator Adjustment |
| 30 | 430-110 | Set Screw |
| 31 | 450-125 | Mount Nut, Regulator |
| 32 | 430-126 | Washer, Regulator Mount |
| 33 | 450-120 | Stem, Regulator Adjustment |
| 34 | 420-225 | Selector Handle |
| 35 | 430-140 | Set Screw, Selector Handle |
| 36 | 455-140 | Selector Valve Assembly w/ #37 from interior plumbing drawing. |
| 37 | 430-205 | Washer |
| 38 | 440-155 | Gauge, H.P. |
| 39 | 455-185 | H.P. Inlet Elbow |
| 40 | 455-111 | L.P. Inlet Elbow |
| 41 | 430-116 | Washer |
| 42 | 450-136 | Washer |
| 43 | 455-005 | Cap, L.P. Inlet |
| 44 | 430-115 | Washer |
| 45 | 455-190 | Nut, H.P. Inlet Mount |
| 46 | 455-152 | Nut |
| 47 | 445-020 | Gauge Bracket |
| 48 | 445-100 | Main Panel |



CAUTION

Use only Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan original parts.

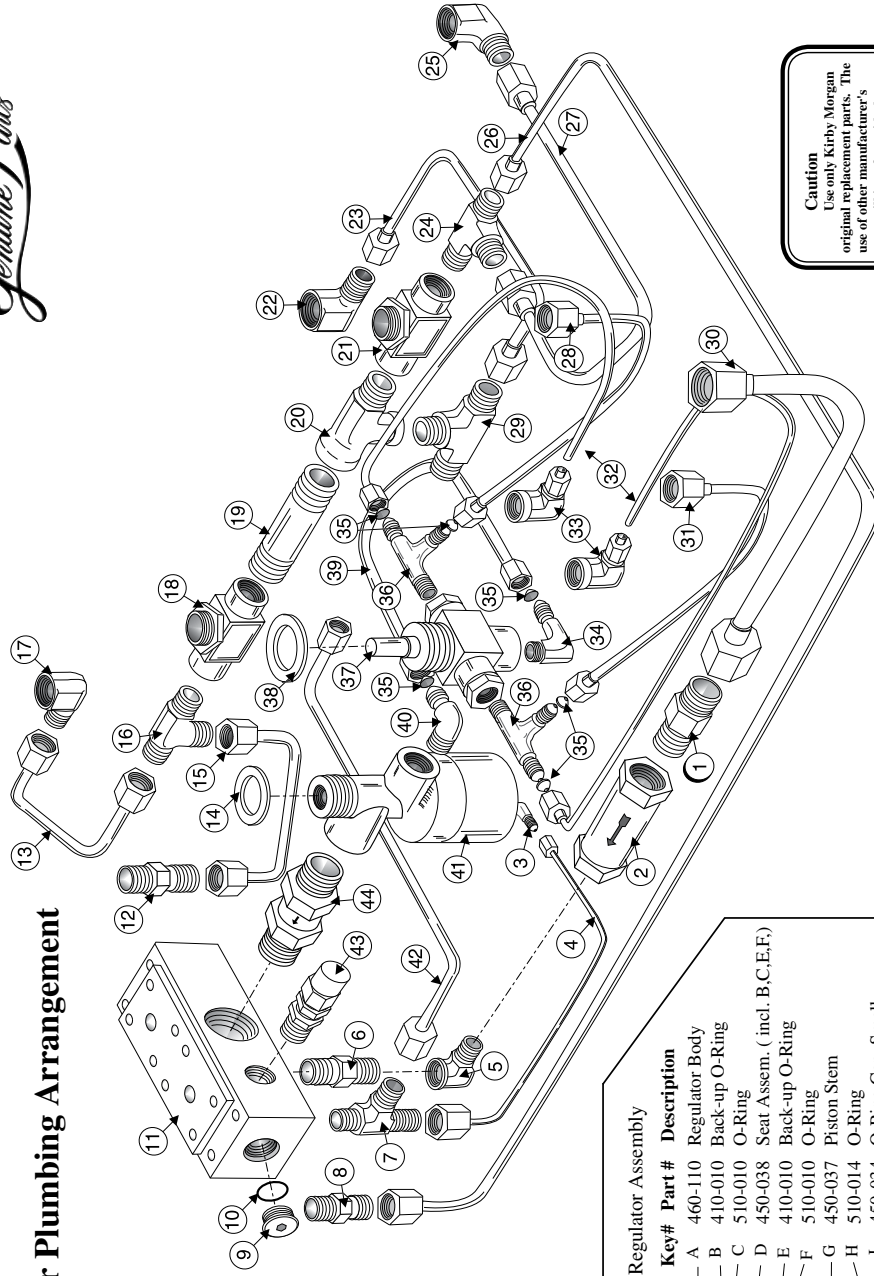
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Kirby Morgan Air Control System 5

Interior Plumbing Arrangement

| Key# | Part # | Description |
|------|---------|---------------------------|
| 1 | 455-024 | Connector, L.P. |
| 2 | 455-049 | Check Valve, L.P. |
| 3 | 455-075 | Male Elbow |
| 4 | 405-155 | Tube, Regulator Sensor |
| 5 | 455-120 | Elbow |
| 6 | 455-126 | 3/8" NPT Nipple |
| 7 | 455-180 | Male Run Tee |
| 8 | 455-149 | Straight Tube Connector |
| 9 | 350-062 | L.P. Plug |
| 10 | 510-013 | O-Ring |
| 11 | 450-142 | Manifold Block |
| 12 | 455-149 | Straight Tube Connector |
| 13 | 405-150 | Tube, Red Pneumo Gauge |
| 14 | 430-126 | Washer, Regulator Mount |
| 15 | 405-160 | Outlet Tube, Red Pneumo |
| 16 | 455-180 | Male Run Tee |
| 17 | 455-040 | Female Elbow |
| 18 | 455-051 | Pneumo Valve |
| 19 | 455-123 | 1/4" NPT Nipple |
| 20 | 455-121 | 1/4" NPT Street Tee |
| 21 | 455-051 | Pneumo Valve |
| 22 | 455-040 | Female Elbow |
| 23 | 405-107 | Tube, Umbilical Gauge |
| 24 | 455-180 | Male Run Tee |
| 25 | 455-040 | Female Elbow |
| 26 | 405-161 | Outlet Tube, White Pneumo |
| 27 | 405-102 | Tube, White Pneumo Gauge |
| 28 | 405-105 | Inlet Tube, H.P. Blue |
| 29 | 455-117 | Male Branch Tee |
| 30 | 405-110 | Tube, L.P. Supply |
| 31 | 405-105 | Inlet Tube, H.P. Orange |
| 32 | 405-170 | Tube, H.P. Gauge |
| 33 | 455-305 | Elbow Assembly, Swagelok® |
| 34 | 455-032 | Male Elbow |
| 35 | 455-135 | Conical Seal |
| 36 | 455-196 | Male Run Tee, H.P. |
| 37 | 455-140 | Selector Valve |
| 38 | 430-120 | Washer |
| 39 | 405-106 | SS Tube Assembly, H.P. |
| 40 | 455-197 | Male Elbow |
| 41 | 405-120 | Regulator Assembly |
| 42 | 405-145 | Tube, Main Pneumo Supply |
| 43 | 455-047 | Relief Valve |
| 44 | 455-130 | 1/2" Check Valve L.P. |



| Key# | Part # | Description |
|------|---------|-----------------------------|
| A | 460-110 | Regulator Body |
| B | 410-010 | Back-up O-Ring |
| C | 510-010 | O-Ring |
| D | 450-038 | Seat Assem. (incl. B,C,E,F) |
| E | 410-010 | Back-up O-Ring |
| F | 510-010 | O-Ring |
| G | 450-037 | Piston Stem |
| H | 510-014 | O-Ring |
| I | 450-034 | O-Ring Cap, Small |
| J | 510-014 | O-Ring |
| K | 510-008 | Back-up Ring, Large |
| L | 450-033 | O-Ring Cap, Large |
| M | 450-033 | O-Ring Cap, Large |
| N | 435-006 | Spring |
| O | 450-032 | Piston Head |
| P | 410-119 | O-Ring |
| Q | 410-121 | Thread Seal |
| R | 430-022 | Nylon Locknut |
| S | 450-157 | Regulator Cylinder |
| T | 455-075 | Regulator Sensor Elbow |

Caution
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Kirby Morgan Air Control System 5

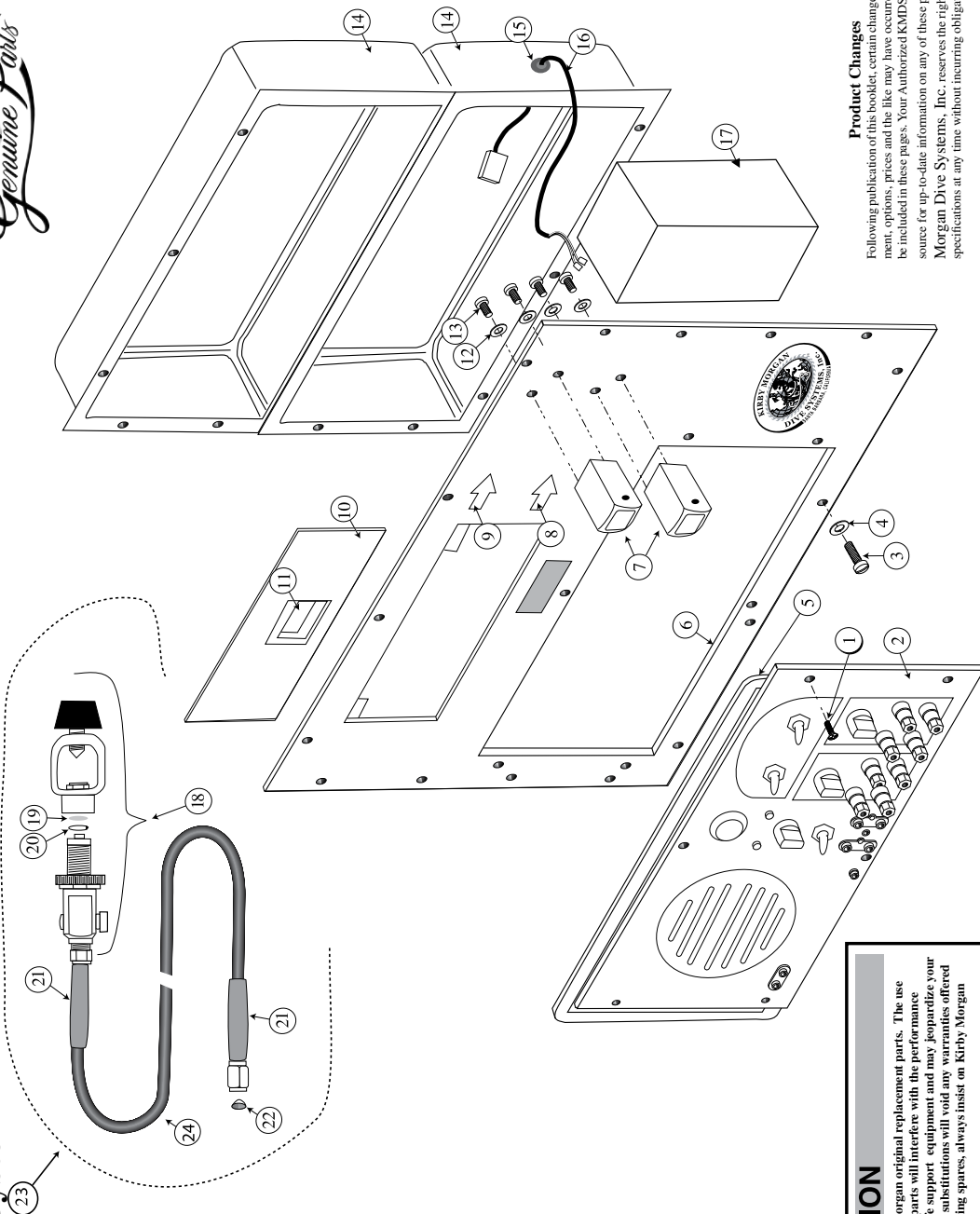
Communicator Panel

| Key# | Part # | Description |
|------|---------|---------------------------|
| 1 | 530-017 | Screw |
| 2 | 415-105 | Communicator |
| 3 | 530-035 | Screw |
| 4 | 430-075 | Washer |
| 5 | 410-003 | Gasket, Foam |
| 6 | 445-105 | Panel, Auxiliary |
| 7 | 450-106 | Yoke Retainer |
| 8 | 420-125 | Arrow, Orange |
| 9 | 420-120 | Arrow, Blue |
| 10 | 445-115 | Door, Storage Compartment |
| 11 | 420-160 | Slide Latch |
| 12 | 330-405 | Lock washer |
| 13 | 530-070 | Screw |
| 14 | 420-105 | Box, Plastic |
| 15 | 410-145 | Grommet |
| 16 | 415-110 | Cable, Battery |
| 17 | 415-056 | Battery, Gel Cell 12V |
| 18 | 455-317 | Yoke / Din Assm'y |
| 19 | 455-065 | Filter |
| 20 | 430-060 | Retainer Ring |
| 21 | 410-006 | Hose Protector, Orange |
| 22 | 410-007 | Hose Protector, Blue |
| 23 | 455-135 | Conical Seal |
| 24 | 405-175 | Yoke / Din Assem., Blue |
| 25 | 405-176 | Yoke / Din Assem., Orange |
| 26 | 455-054 | Hose |

Not Shown: 420-101 Case
405-039 Battery Charger Assembly
Mounting Plates for # 400-018 & 400-019 no comms version.
440-002 Top Plate
440-003 Backing Plate

CAUTION

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Model 8120 High Pressure Air Control System



Model 8120-HP1-5000

Has one high flow pressure reducing regulator and allows selection from one LP source and one HP source.

The system contains a high flow pressure reducing regulator, stainless steel fittings on the high-pressure side and brass fittings on the low-pressure side. The control manifold allows selection from low and high-pressure air sources. The silk-screened Pneumo panel has 1/4% of full-scale accuracy depth gauges with gauge protectors. The complete system is enclosed in a strong pressure molded fiberglass case.

Features:

- Check valves on all inputs
- High flow pressure reducing regulator
- Silk-screened Pneumo panel
- Gauge snubbers protect the gauges from pulsating pressures
- Separate gauge protectors protect the gauges from over pressurization
- Model 8120-HP1 allows selection from one LP and one HP air source
- Model 8120-HP2 allows selection from one LP and two HP air sources

| Specifications | |
|---------------------------|---|
| HP supply pressure | 5000 psi max. |
| HP inlet valve | 1 ea. with 8120-HP1-5000 1 ea. with 8120-HP2-5000 |
| HP gauge | 0-6000 psi |
| HP regulator outlet range | 0-400 psi |
| HP regulator max pressure | 5000 psi |
| LP air working pressure | 300 psi |
| LP gauges (1 each) | 0-300 psi |
| Depth Gauges – 2 ea. | Dual Scale – 0-250 F.S.W. and 0-70 M.S.W. 6" dial, 1/4% of full scale accuracy |
| Connections | |
| LP Input | #8 JIC |
| LP Outlet | #6 JIC |



Model 8120-HP2-5000

Has two high flow pressure-reducing regulators and allows selection from one LP source and two HP sources.

AAI Pneumo Cases

Specifications:

- Over Pressure Protected
- Pressure Regulator
- Shock Mounted
- 1000 psi Brass
- Water Proof Carrying Case

Options:

- Calibration Certificate – optional
- Fresh Water Gauge – FSW
- 70 Meter Gauge M.S.W.
- 100 Meter Gauge M.S.W.
- Digital Gauge – Meters or Feet



PC70



PC160



PC250

Aqua-Air Ordering Information

| | |
|--------------------------|-----------|
| AAI Pneumo Case 70..... | AAI-PC70 |
| AAI Pneumo Case 160..... | AAI-PC160 |
| AAI Pneumo Case 250..... | AAI-PC250 |

Three Diver Station



The Amron Model 8330 Portable 3-Diver Air Control and Depth Monitoring System is a portable self contained three diver high and low pressure air control and depth monitoring (Pneumo) system for surface supplied diving operations. The system is designed to provide a central control point for the supply of breathing air to three divers and monitor their depth. The system is housed in a durable pressure fused fiberglass case which provides a convenient, compact, rugged and professional system.

Depth Monitoring with Cross connect Capability. Automatic gauge protectors in addition to gauge snubbers protect against over pressurization. The Pneumo panel has the ability to cross check all depth gauges. The divers Pneumo connection is a O2 type fitting, Pneumo valves are regulating type. Pneumo gauges are 6" high precision 0.25% of full-scale accuracy, dual scale 0-250FSW/0-76 MSW with 1 foot increments.

Low Pressure Alarm Module supplies a loud audio signal to alert the operator when a diver's air pressure falls below a preset limit of 100PSIG.

The optional heating cable is 24 feet long and is wrapped around the HP input and regulator section located on backside of manifold panel. This standard plug connect 120 VAC heater is located on front panel for ease of use. As an added safety feature, a GFCI inline cord set is supplied. The lower case is insulated with closed cell foam to help protect against severe weather conditions.

Part Numbers: 8300-HP – Air Control & Depth Monitoring System for 3-Diver, 1 Regulator & 2 Low Pressure Inputs
8330 – Air Control & Depth Monitoring System for 3-Diver, 2 Regulators & 1 Low Pressure Input

Features

- Two 44-1300 Series Tescom Regulators
- Two high pressure and one low pressure air source connections
- Convenient switching between high pressure low pressure
- Low pressure audio alarm
- 50 Micron in-line stainless filter on regulator input
- Check valves on all source inputs
- Automatic gauge protectors and snubbers protect against over pressurization of precision Pneumo gauges



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Three Diver Station Cont.

Specifications

- **Air Control – High Pressure Section**
 - Inlet Connection (2): #6 JIC
 - Input Pressure Range: 500-5000PSIG
 - Inlet Valve (2): Source Select
 - Gauge: 0-6000PSIG Accuracy $\pm 1.5\%$
 - Input Filter, Inline Pre-regulator: 50 Micron
 - Tescom High Pressure Regulators: 2 ea.
 - Output Pressure Range: 0-300 PSIG
 - Max. Pressure: 5000PSIG
- **Air Control – Low Pressure Section**
 - Inlet Connection: #8 JIC
 - Check Valve: 2 ea.
 - Diver Outlet Connection: 3 each O2 fittings
 - Diver Outlet Valve: 3 each
 - Air Pressure Gauge: 3 each 0-400PSIG Accuracy $\pm 1.5\%$
 - Over-pressure Relief Valve: Set pressure 285PSIG
- **Depth Monitoring Pneumo**
 - Pneumo Gauge: 3 ea. 6" Dual Scale
 - Range Dual Scale: 0-250FSW/0-76MSW
 - Accuracy: 0.25% of Full Scale w/ 1' Divisions
 - Pneumo Valves (7): Regulating Valve KEL-F Seat
 - Outlet Connection (3): O2 fitting, brass
 - Low Pressure Alarm: Pressure Range, 22.5-125PSIG, Factory Set at 100PSIG
- **Panel Construction**
 - Panel Material: Aluminum, Stainless Steel
 - Powder Coating: Black textured semi-gloss polyester
 - Graphics: Yellow and White silkscreened
- **Case Dimensions**
 - Lid Closed: 25 in. W x 20 in. D x 20 in. H
 - Lid Open: 25 in. W x 20 in. D x 29 in. H
 - Weight: 95 lbs. (approx.)

Bailout Whips & Spares



| Letter | Part No. | Description |
|--------|-----------------|--|
| A | BW-SS-A | 42" bailout whip w/ Stainless steel quick disconnect |
| B | BW-B-A | 42" bailout whip w/ Brass quick disconnect |
| C | SLP-4MP-6FS-7" | 7" Helmet end bailout whip, 1/4" male Npt chrome plated barb fitting |
| D | SLP-4MP-3MS-35" | 35" first stage end bailout whip, 1/4" male Npt chrome plated barb fitting |
| E | 500-40 | 40" Scuba whip |
| F | C1R-5000 | First stage regulator, Satin chrome |
| G | P60-4-455 | Coupler, Female Socket Stainless steel 1/4" Npt female |
| H | B60-4-455 | Quick coupler Male Nipple, Stainless steel 1/4" Npt female |
| I | B23N | Quick Coupler, Female Socket Brass 1/4" Npt female |
| J | BH3C | Quick coupler Male Nipple, Brass 1/4" Npt female |
| K | 200-017 | First stage over-pressure relief valve |
| L | 30282-4-4-B | 1/4" I.O. Hose barb x 1/4" Npt female, Brass |
| M | 7323 | Brass Female, 1/2" O.D. Hose |
| N | MPT4-4 | 1/4" I.D. Hose barb x 1/4" Npt female, Brass |

Whirl-A-Way Zebra Mussel & Barnacle Removal Used for Underwater Cleaning



The Whirl-A-Way is designed to be used to remove heavy thick buildup of mussels, barnacles or other encrustations from steel, concrete, pilings, seawalls, bulkheads and ships.

It is furnish w/ a one piece stainless steel housing and attached stainless knockers. The standard unit comes w/ plated hardened steel cutters. It is also available w/ a heavy duty quick change assembly. Unit comes w/ a 5/8 – 11 threaded center hole (14mm available) which attaches to standard pneumatic or hydraulic powered tools. 1,000 to 2,000 RPM is suggested for underwater use.

It Works Like This...

As the tool moves across the surface, the outside knocker bars shatter barnacles and other heavy growth. The rotating hardened steel cutters follow up w/ a chipping and scraping action which removes the remaining material, leaving a clean surface. Water passing through the tool keeps the cutting wheels clean. The tool is ecologically safe since it adds no harmful chemicals to our environment.

Rotary action displace water creating a vacuum under the tool This results in the Whirl-A-Way being pressed and held against the ship or work surface. Slight pressure on either side of the tool allows the operator to guide it in any direction.

Whirl-A-Way Units and Parts

| | |
|--------|--|
| #50810 | Standard Whirl-A-Way w/ 6" Housing |
| #50811 | Replacement cutters for Standard Unit #50810 |
| #50830 | Whirl-A-Way Heavy Duty Quick Change |
| #50831 | Replacement Quick change cutters for Unit #50830 |

Class II Open Bell with Launch & Recovery System (LARS)



Features:

System design working load is 2200 lbs with additional safety factors for operational conditions.
System is mounted on 14' x 7'6" base made from wide flange steel material.
(2 Man Open Bell shown above. Also available for 1 Man Open Bell).

Components of the system are:

Control Console

Operate the Hydraulic Cylinders
Operates the Winches

U-Boom Launcher

U-boom constructed with box beam and hinged pins at base
2 – Hydraulic Cylinders
Launch Sheave
Umbilical Sheave

U-boom Reach: 4' outboard. 3' inboard

Clump weight Sheave

Capturing Device

Secondary Recovery System

Clump Weight

Personnel Rated Winches – Qty (2)

Working load 2200 lbs

½" Wire Rope

Class II Open Bottom – 1 Man Mini Bell



The Class II Open Bottom Bell Series has become a standard in commercial diving. Industry safety regulations require a bell in working depths of 220 FSW or 2 hours in water decompression.

Class II bells have been proven rugged, dependable, and affordable. Providing a safe haven with emergency breathing gases and a stable and comfortable platform for decompression increases diver safety. Providing a work platform for extra tools, shackles, nuts, bolts increases diver productivity, and other items needed at the job site, helping to reduce unproductive bottom time.

| | |
|-------------------------------|---|
| Acrylic Dome | 24" inside diameter hemisphere made from 1/2" thick acrylic |
| Dome Skirt | 10" long skirt made from 1/2" thick acrylic 24" inside diameter |
| Dome Protective Grating | 24" outside diameter expanded metal grating w/ 3/4" diameter round bar stiffener |
| Standing Head Room | 6' 5" from base plate to inside of acrylic dome |
| Drop Seals | 1 drop seat, folding and lockable both open and closed positions |
| Bottle Racks | Bottle racks for (2) 150 cu. ft. bottles (bottles not supplied) |
| Base Plate | 42" diameter 1/2" thick plate w/ expanded metal grating to minimize surging |
| Dead Weights | As required to provide a negative buoyancy of 125 lbs, welded to the base plate |
| Overall Height | 101" |
| Negative Weight in salt water | 125 lbs (approx) |
| Overall Weight | 430 lbs (approx without bottles) |
| Bell Frame Work | Frame 2" sch 40 pipe |
| Tool Basket | 6" high expanded metal grating tool basket w/ 3/4" diameter round bar stiffener |
| Paint System | Sandblast to white metal w/ 3 to 5 mills inorganic zinc primer, epoxy tiecoat, white epoxy top coat |
| Optional Equipment | (2) 240 cu. ft. high pressure air storage bottles |
| | (1) first stage regulator |
| | (1) second stage regulator |
| | (1) blown down panel for topside air supply |

Class II – 2 Man Open Bottom Bell



The Class II Open Bottom Bell Series has become a standard in commercial diving. Industry safety regulations require a bell in working depths of 220 FSW or 2 hours in water decompression.

Class II bells have been proven rugged, dependable, and affordable. Providing a safe haven with emergency breathing gases and a stable and comfortable platform for decompression increases diver safety. Providing a work platform for extra tools, shackles, nuts, bolts increases diver productivity, and other items needed at the job site, helping to reduce unproductive bottom time.

| | |
|-------------------------------|---|
| Acrylic Dome | 42" inside diameter hemisphere made from 1/2" thick acrylic |
| Dome Skirt | 12" long skirt made from 1/2" thickness aluminum 42" inside diameter |
| Dome Protective Grating | 42" outside diameter expanded metal grating w/ 3/4" diameter round bar stiffener |
| Standing Head Room | 6' 9" from base plate to inside of acrylic dome |
| Drop Seats | 2 drop seats, folding and lockable both open and closed positions |
| Bottle Racks | Bottle racks for (4) 240 cu. ft. bottles (bottles not supplied) optional |
| Base Plate | 66" diameter 1/2" thick plate w/ expanded metal grating to minimize surging |
| Dead Weights | As required to provide a negative buoyancy of 300 lbs, welded to the base plate |
| Overall Height | 104" overall |
| Negative Weight in salt water | 300 lbs (approx) |
| Overall Weight | 635 lbs (approx without bottles) |
| Bell Frame Work | Upper frame 2" sch 40 pipe w/ lower frame 4" channel |
| Tool Basket | 8" high expanded metal grating tool basket w/ 3/4" diameter round bar stiffener |
| Paint System | Sandblast to white metal w/ 3 to 5 mills inorganic zinc primer, epoxy tiecoat, white epoxy top coat |
| Optional Equipment | (4) 240 cu. ft. high pressure air storage bottles |
| | (2) first stage regulator |
| | (2) second stage regulator |
| | (1) blow down panel for topside air supply |

CLASS II OPEN BOTTOM BELL CONTROL PANEL



| SUPPLY IN | SUPPLY OUT | OTHERS |
|---------------------|---------------|-----------------|
| HeO ₂ #1 | Bell Supply | Bell Pneumo |
| HeO ₂ #2 | Bell Pressure | Bell Pressure |
| HP Air | | Bell Gas Sample |
| LP Air | | Gas Sample |

Buckleys Bathycorrometer®



The Bathycorrometer® is an advanced, hand held, diver operated unit providing a consistent way of determining the corrosion of subsea structures. The current model is based on the original Roxby unit which has been in service since 1971. It will provide the diver with a direct readout of corrosion potential at the point of application. It can also be connected to a Surface Display Unit to give topside readings (see data sheet H29). Whilst the performance of the unit has been improved by the introduction of new electronics, the original features of the Bathycorrometer® have been retained as the unit has specified use worldwide.

Bathycorrometers® are used for polarisation, corrosion and interaction surveys, in particular as part of the commissioning check or inspection of production and drilling platforms, underwater pipelines, ships hulls, jetties, piers and other marine works.

STANDARD KIT (ref: H1) comprises:

Buckleys Bathycorrometer®, battery charger, 6 x hardened stainless steel probe tips, Probe tip spanner, Silicone grease, Zinc and Magnesium test blocks and comprehensive instruction manual, all contained in fitted carrying case

TECHNICAL SPECIFICATION

- Display 0.001 to 1.999v 3½ digit LCD backlit
- Accuracy 0.05% typical, instrument calibration accuracy +/- 1mV +/- 1 count
- Battery charger: 14hr standard 110-240v AC
- Input impedance 10M Ohms
- Operating temperature range 0 to 30°C, temperature stability 100 ppm/°C
- Operating time on full charge 50hr +
- Reference electrode: Silver/Silver Chloride
- Multi-function socket
- Weight (Unit only): in air 2.5Kg, in water 0.85Kg
- Dimensions (Unit only): 10cm diam. x 27.5cm long
- Dimensions (Carrying case): 44cm x 31cm x 14cm
- Packed weight (standard kit): 8Kg
- Dimensions (packed): 48cm x 39cm x 27cm

Features:

- Accurate 3 ½ digit LCD display
- LED Backlit LCD display
- Depth of operation – up to 350 metres
- Facility for adding remote monitoring via Surface Display Unit
- Single handed and light
- Robust and inert housing
- Contact with structure by hardened stainless steel probe
- Supplied with Calibration Certificate

Accessories Available

Surface Display Unit
Calibration Kit
Calomel Reference Cells

*** Exclusive Distributor to the Americas ***

Buckley's Calibration Kit Part Number: H-28

Calibration Kit for Buckley's & Roxby Bathycorrometers



DESCRIPTION

The Calibration Kit contains all the necessary components to verify the accuracy of the readings on the Buckleys or Roxby Bathycorrometer®. There are two areas that need to be tested. The electronics are checked using the BCM Checker. If they are functioning correctly, the Silver/Silver Chloride screw-in half cell can be checked using the three Calomel reference cells in a standard salt water solution.

FEATURES

- Easy to use
- All kit parts can be replaced individually
- Comes with instructions

ADDITIONAL INFORMATION

- BCM Checker
- Silver/Silver Chloride screw in half cell
- Screw in Calomel Reference cell
- Adaptor leads for H7
- Sea water corrosion test mixture

TECHNICAL ADVISORY/ AFTER SALES SERVICE

A fast repair and re-calibration service is available to enable customers to fully maintain their Buckley's equipment.

TECHNICAL SPECIFICATIONS

BCM Checker

- Power Supply: 9 volt battery (PP3)
- Battery Type: Alkaline MN1604
- Output Voltage: 1,990 Volts
- Accuracy: $\pm 0.01\%$
- Temperature coeff: 30 ppm/°C
- Temperature range: 0-30°C
- On Indicator: Green LED
- Low battery indicator: Red LED
- Connection: 3 pin plug & probe clip

Calomel Reference Cell

- Size: 155mm long x 25mm diam.
- Electrical Connection: screw fit
- Output: -5mV @ 25°C to Silver/Silver Chloride cell
- Accuracy: $\pm 2\text{mV}$ in 3% sea water
- Temperature coeff: +0.2mV per/°C
- Temperature range: 0-30 °C
- Working life: - up to 1 year

Calomel Reference Cell



The Glass Calomel reference cell can be used to ascertain the accuracy of Silver/Silver Chloride Half Cells.

IT has been designed to be connected to a separate high impedance voltmeter (greater than 10 meg Ohm) via a one metre lead.

The electrode is housed in a high resistance glass body and comes with a salt bridge solution for topping up.

The Calomel reference electrode will give a service life of up to 2 years, if looked after. It can easily be stored.

Glass Calomel Cell (laboratory type) –
Product code: H24

FEATURES:

- Long Cable Length
- Glass body casing
- Light in weight
- Long service life
- Refillable
- Supplied with fitted 4mm plug

ANCILLARY PRODUCTS AVAILABLE:

Screw in Calomel reference cells (our ref: H7)
Sea water corrosion test mixture (our ref: H26)
Silver/Silver Chloride screw-in half cells (our ref: H6)
Zinc test blocks (our ref: H8)
Magnesium test blocks (our ref: H9)

TECHNICAL SPECIFICATION:

- Electrical Connection: 1 metre lead
- Output: -5mV @ 25°C to Silver/Silver Chloride Cell
- Accuracy: +/- 2mV in 3% sea water
- Temperature coeff: +0.2mV per °C
- Temperature range: 0 – 30 °C
- Working life: 1 to 2 years
- Salt bridge solution: Saturated KCl
- Cable length: 1m
- Size: 155mm long x 25mm diameter
- Weight (cell): 250g
- Packed weight: 0.5 Kg
- Dimensions (packed): 26cm x 14 cm x 30 cm

H50 MARINE SURVEY KIT SILVER – SILVER CHLORIDE SURVEY KIT



FEATURES

- Long cable length: 75m
- Inert body casing: PVC
- Weight of Cell: 350grams
- Long service life: up to 10 Years

TECHNICAL SPECIFICATION

Half Cell

- Size: 140mm long x 25mm diam.
- Output: -5mV @ 25°C to Calomel reference cell
- Accuracy: $\pm 10\text{mV}$ in 3% sea water.
- Temperature coeff: $+0.2\text{mV per/}^\circ\text{C}$
- Temperature range: 0 - 30 $^\circ\text{C}$
- Working life: Up to 10 years.

Multimeter

- 3 $\frac{3}{4}$ Digit Auto Ranging
- DC, AC, Voltage & Current Ranges
- DC Accuracy: $\pm 0.5\%$
- AC Accuracy: $\pm 0.8\%$
- Plus Ω & Hz ranges

TECHNICAL ADVISORY / AFTER SALES SERVICE

A fast repair and re-calibration service is available to enable customers to fully maintain their Buckleys equipment.

DESCRIPTION

The Marine Survey Kit comprises a Weighted Silver/Silver Chloride Half Cell, plastic cable spool and an accurate multimeter. All that is needed to carry out a corrosion survey of marine structures.

The half cell is housed in a PVC body with holes to allow the easy flow of water past the cell. The half cell is weighted to help keep it in position.

The cell is connected to the cable spool by 75m of CSP 55/015 cable. Two other leads are supplied to connect the spool and the structure to the accurate multimeter.

In use the multimeter is connected to the structure (+ terminal) and the cable spool (- terminal). The Half Cell is then lowered into the sea at the desired position. Turning on the multimeter to the DC voltage range will display the corrosion voltage.

ACCESSORIES AVAILABLE

- Calomel reference cells
- Glass Calomel reference cells
- Standard Salinity calibration solution
- Zinc and Magnesium test blocks

AAI 54" DOUBLE-LOCK DECOMPRESSION CHAMBER



54" Inner-lock
~ 112 cuft.

54" Outer-lock
~ 63 cuft.



Plumbed Chamber

Design Parameters

ASME/PVHO-1-2007
ADC Consensus Standards
OSHA 29 CFR-1910
USCG 46 CFR-197
National Board Registration
ABS Certified
HSE Configuration – optional
IMCA Compliant - optional

Optional Features

- Scott Standard/Overboard Exhaust Type O2 Masks
- Bunk Frame
- Non-flammable Mattress
- Caisson gauges
- Chamber Lights
- CO2 Scrubber
- Chamber Heat/Cool Package
- Medical lock with Interlock
- Chamber Heater
- Hyperbaric Fire Extinguisher
- O2/CO2 Analyzers
- Anti-Static Flooring
- Chamber Radio

Design Parameters

Approximate
5,500 lbs. (bare)
6,000 lbs. (plumbed)

For over 30 years, Aqua-Air has offered our classic design to the Commercial Diving Industry. Our chambers have become an Industry Standard Worldwide.

Sizes available: 54" – 60" – 72" And Custom Tankage

Specifications

- 54" Double Lock, ASME/PVHO-1-2007 Approved & Stamped Pressure Vessel, 135 psi
- Paint – 3 to 5 mils Inorganic Zinc – 5 mils white, water base – inside, white epoxy outside
- Hatches – two 30" I.D. O-ring Sealed Hatches
- Outer Lock, Door Ring, and Forging Ring – 316SS Clad, Double Pivot Hinges
- View Ports – Four 8" I.D. Ports
- Skid – Sturdy I-Beam Skid
- Deck Plates – All Aluminum – Removable
- Sound Powered Phones (3)
- Air Silencers – Inside and Out
- Gauges (2)
- Plumbing – All exterior, All brass, Minimum 250 psi
- Control Panel Cover – All Aluminum, corrosion and maintenance free panel cover for protection
- Penetrators – (23) Stainless Steel 1/4" to 1" NPT
- Lifting Eyes (2)
- Equalization Penetrator

Specifications

Length: 12' 4"
Width: 68" – with Control Panel Cover
Height: 72"

Avox 801238 Series Oxygen Mask



The Avox 801238 Series Oxygen Mask with over board discharge provides control for the administration of oxygen or gas mixtures without effecting the chamber environment by exhausting the exhaled gases out of the chamber. In most instances the vacuum system is the differential pressure between the inside and outside of the chamber. Breathing gas is reduced to approximately 65 psig to 125 psig above ambient pressure. The low pressure gas flows through a hose to the demand regulator. The exhalation is removed through the vacuum regulator and exhaust hose.

For a pressure differential in excess of 60 FSW, a second vacuum regulator must be installed between the hose and chamber wall. See Tescom 26-2912-282A in Regulator Section of the Amron web site. The secondary regulator will limit the pressure differential across the vacuum regulator on the mask.

The Avox 801238 Series Oxygen Mask comes complete with Demand and Exhaust Hose with Plugs and Quick Disconnects, Demand Regulator, Exhaust Regulator and optional First Stage Regulator.

Warning: The Avox Model 801238 Oxygen Mask with overboard discharge is used for surface decompression of persons in a compression chamber and is not for use underwater. The Mask may also be used in other applications where overboard discharge of the user's exhalation is desired.

Item List

| | |
|---|-----------|
| Avox 801238 Series Oxygen Mask w/ First Stage Regulator w/out Mic. Assy. | 801238-00 |
| Avox 801238 Series Oxygen Mask w/out First Stage Regulator w/out Mic. Assy. | 801238-01 |

AVOX 803600 Inhalator



The Avox Series 803600 Inhalator is designed for dry atmosphere decompression in a compression chamber and other applications where it is desirable to breathe mixtures other than ambient and is not critical if the exhaled gas is vented directly to the chamber atmosphere. This mask is used for surface decompression of persons in a recompression chamber.

Features

- Optional first stage pressure reducer maintains a constant inlet pressure to the demand regulator above chamber pressure
- Exhalation is vented directly to ambient atmosphere through a mask check valve

Item List

| | |
|--|-----------|
| w/ First Stage Regulator and Microphone Assembly | 803600-00 |
| w/ First Stage Regulator w/out Microphone Assembly | 803600-01 |
| w/out First Stage Regulator w/out Microphone Assembly | 803600-02 |
| w/out First Stage Regulator w/out Microphone w/out Hose Assembly | 803600-03 |
| w/out First Stage Regulator w/ Microphone Assembly | 803600-04 |

Avox Pressur-Vak II



The Avox Pressur-Vak II is designed to administer oxygen or gas mixtures to a diver or patient in a hyperbaric chamber environment. The demand regulator assembly provides breathing gas on demand (inhalation). The regulator is designed to operate with a constant inlet pressure of 65 to 125 psig over chamber pressure.

For chamber depths over 60 FSW, a secondary vacuum regulator must be installed (see Tescom Regulator 26-2912-282A). A hull-stop valve should be an integral part of the system as a safety device to shutdown the vacuum should a pressure loss occur. The optional pressure reducing regulator is a small reliable regulator assembly with an oxygen coupling. The vacuum regulator allows the exhaled gases to be carried to the outside of the chamber thereby eliminating oxygen buildup or contamination of the chamber environment. The vacuum of the exhaled gas is a direct function of the differential pressure of the chamber and the ambient environment.

Options

- 1st Stage Regulator
- Pressure Reducing Regulator (PR Reg)
- Microphone
- Available without a Face Seal and Harness Assembly

Warning: The Pressur-Vak II is designed for surface decompression in a recompression chamber and is not intended for underwater use. It may also be used for other applications which require overboard discharge of exhaled gas.



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Avox Pressur-Vak II Cont.

Features

- Now Available with 150 ohm dynamic microphone
- Face seal is available in FIVE sizes
- Quick disconnect face seal allows easy cleaning
- Optional full head harness for added comfort during long administration
- Exhausts exhaled gases overboard, permitting minimum ventilation of the chamber
- Demand regulator permits constant flow operation
- Optional 300 to 1800 psi first stage regulator maintains constant inlet pressure to the demand regulator.

Item List

| | |
|---|--------------|
| Med Short Seal-1 st Stage Reg-w/o Mic | 803139-00-01 |
| Med Seal-1 st Stage Reg-w/o Mic | 803139-00-02 |
| Med Long Seal-1 st Stage Reg-w/o Mic | 803139-00-03 |
| X-Long Seal-1 st Stage Reg-w/o Mic | 803139-00-04 |
| X-Short Seal-1 st Stage Reg-w/o Mic | 803139-00-05 |
| No Seal or Harness-PR Reg-w/o Mic | 803139-00-XX |
| P-Vak II Medium Short Face Seal w/o 1 st Stage Reg and Mic | 803139-01-01 |
| P-Vak II Medium Face Seal w/o 1 st Stage Reg and Mic | 803139-01-02 |
| Med Long Seal-w/o Reg-w/o Mic | 803139-01-03 |
| X-Long Seal-w/o Reg-w/o Mic | 803139-01-04 |
| X-Short Seal-w/o Reg-w/o Mic | 803139-01-05 |
| No Seal or Harness-w/o Reg-w/o Mic | 803139-01-XX |
| Med Short Seal-PR Reg-w/ Mic | 803140-00-01 |
| Med Seal-PR Reg-w/ Mic | 803140-00-02 |
| Med Long Seal-PR Reg-w/ Mic | 803140-00-03 |
| X-Long Seal-Pr Reg-w/ Mic | 803140-00-04 |
| X-Short Seal-Pr Reg-w/ Mic | 803140-00-05 |
| Med Short Seal-w/o Reg-w/ Mic | 803140-01-01 |
| Med Seal-w/o Reg-w/ Mic | 803140-01-02 |
| Med Long Seal-w/o Reg-w/ Mic | 803140-01-03 |
| X-Long Seal-w/o Reg-w/ Mic | 803140-01-04 |
| X-Small Seal-No Reg-w/ Mic | 803140-01-05 |

Low Pressure Air Manifolds



Compact, easy to use and economical air control manifold for two divers. This manifold can be incorporated as part of any diver's air supply system.

Provides for selection of two air sources. Manifold routes selected air to two divers and air supply gauge. Mounting brackets provided.

Order No. 8105

| Specifications |
|--|
| L.P. Gauge 2-1/2 in, 0-300 psi |
| Valves Low pressure air and check valve 3/8 in. brass |
| Fittings (with captive dust caps) Inlet - #8 JIC (1/2") Outlet – Oxygen |
| Other fittings are available upon request |
| Dimensions |
| H x W x D – 13" x 11.5" x 4.25" |
| Weight – 14 lbs |

A versatile manifold for multiple branching of low pressure air. Provides seven 3/8 in. NPT ports and one 1/4 in. NPT port located in the center of one long side. All interconnected via a common air passage.

Order No. – 8100-001



| Specifications |
|------------------------------|
| Pressure Rating – 300 psi |
| Air Passage I.D. – 0.562 in. |
| Mounting Holes (4) – 0.281" |
| Hole Pattern – 5 x 1.4" |

| Specifications |
|---|
| Supply Ports (2 or 4) – 1/8 in. F NPT |
| Exhaust Ports (2 or 4) – 3/8 in. F NPT |
| Supply Connections – 1/4" NPT |
| Exhaust Connections – 3/8" NPT |
| Supply Passage I.D. – 0.422 in. |
| Exhaust Passage I.D. – 0.562 in. |
| Mounting Holes (2) – 1/4-20 UNC-2B |
| Mounting holes threaded through on center line 3.5 in, center to center |

| Dimensions |
|--|
| 2 Port Manifold 2-1/2" H x 5" W x 1-1/4" D Weight 3 lbs |
| 4 Port Manifold 2-1/2" H x 7-7/8" W x 1-1/4" D Weight 6.25 lbs. |



The Chamber BIBS manifold is available in two configurations. The 8000-004 has four supply and four exhaust ports for a maximum of four Scott oxygen masks with overboard discharge. The 8000-002 has 2 supply and exhaust ports.

For requirements of more than 4 masks, the manifolds can be installed in series. The manifolds are supplied with a 1/4" and 3/8" male NPT plug. The quick disconnects shown in the photo come with the Scott mask and are not supplied with the manifold.

Order No. 2 Port Manifold
8000-002

Order No. 3 Port Manifold
8000-004

ENTERTAINMENT DOUBLE LOCK CHAMBER COMMUNICATOR



Description

The **Amcom Model 2810A-2001** is a **panel mounted chamber communication system** operating from an internal 110/220 VAC power source with an **internal 12 VDC battery back up**. The system is designed to provide voice communications between the chamber operator and occupants within the chamber.

The 2810A-2001 has the **capability of 2-wire and/or Simulcom (4-wire) communication modes**. 2-Wire and Simulcom (4-wire) modes can be used simultaneously. This enables the user to operate in a hands-free mode, using a headset and communicate between the chamber and operator without having to use the Push-To-Talk.

The Amcom I Chamber Communication System is a **full-feature hard-wire, single lock communication system**. The AMCOM I has **independent volume controls (operator and lock)**. The 2810A-2001 **can be used with a hand held microphone**, which incorporates automatic talk back speaker cut out. This feature greatly reduces the amount of background noise, and under noisy conditions can make the difference between a good or unacceptable sound and speech clarity.

The **Amcom 2820-4003 Standard Model** features **two-way communications** between the chamber operator and occupants within the chamber. **Full featured hard wire**, two lock systems which have independent volume controls for the operator and separate on/off controls for each lock. The system is supplied with a **noise cancelling hand-held microphone** for use by the operator. The microphone has **automatic talk back speaker** cutout which enhances communication quality by reducing the background noise to the chamber occupants.



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Model 2820-4003 Features:

The **Entertainment Model 2820-4003E** has an **amplifier** to provide audio from any source, such as AM, FM, CD, TV, etc. The 2820-4003E has a **separate on/off volume control** for the entertainment channel and the entertainment monaural audio is interrupted when the hand-held microphone or push-to-talk switch is activated.

Features:

- Two modes of operation: simple intercom type operation and/or duplex type operation (Simulcom)
- Available with amplifier for entertainment
- AC power with battery back-up. Automatic charging.
- External 12 VDC connection
- Noise canceling hand-held push-to-talk microphone
- Built-In Isolation Transformer
- Separate volume controls for operator and each lock

| Specifications | | |
|----------------|--------------------|---------------------|
| | 2810A-2001 | 2820-4003 |
| Height | 6.75 in (17.2 cm) | 8 in (20.3 cm) |
| Width | 10.75 in (27.3 cm) | 10.125 in (25.7 cm) |
| Depth | 7 in (17.7 cm) | 7.5 in (19.1 cm) |
| Weight | 11.5 lbs (5.1 kg) | 15 lbs (3.6 kg) |

DISCLAIMER NOTICE: Amron's communications equipment is designed to be used in air chambers where oxygen concentrations remain below 23.5%. Our communications products (including communicators, speakers, entertainment systems, and other communications accessory items) are NOT designed for oxygen service, are not intrinsically safe, and do not meet the criteria given in NFPA-99, Chapter 20 and other applicable definitions. Use of our products in high-concentration Oxygen environments may result in serious injury and/or death.

Double Lock Chamber Communication System



Features

- * Two modes operation – simple intercom type operation and/or duplex type operation (Simulcom™)
- * Available w/ amplifier for entertainment
- * AC power w/ battery back-up. Automatic charging.
- * External 12 VDC connection
- * Noise canceling hand-held push to talk microphone
- * Built-In Isolation Transformer
- * Separate volume controls for operator and each lock
- * High audio power
- * Panel mount w/ handles
- * Power and battery status indicators
- * Graphics for Chamber Operation

Standard Model

Standard Model features two-way communications between the chamber operator and occupants within the chamber. Full featured hard wire, two lock which have independent volume controls for the operator and separate on/off controls for each lock. The system is supplied w/ a noise canceling hand-held microphone for use by the operator. The microphone has automatic talk back speaker cutout which enhances communication quality by reducing background noise to the chamber occupants.

Entertainment Model

The Entertainment Model 2820-4003E has an amplifier to provide audio from any source, such as AM, FM, CD, TV, etc. The 2820-4003E has a separate on/off volume control for the entertainment channel and the entertainment monaural audio is interrupted when the hand-held microphone or push to talk switch is activated.

Specifications

| | |
|--------------------------------|---|
| Power | 115/220 AC, 50-60 Hz |
| Back-up Power | Rechargeable Gel-Cell |
| Rear Panel Connection | MS 14 Pin Male w/ mating connector |
| Entertainment Input | 2 RCA jacks for (2820-4003E only) audio input. Signal is mixed internally for a stereo input/monaural output. |
| Dimensions | |
| Height | 8" (20.3 cm) |
| Width | 10.125" (25.7 cm) |
| Depth | 7.5" (19.05 cm) |
| Weight (4003 and 4003E) | 15 lbs (6.8 kg) |

Ordering Information

| | |
|---|------------|
| Standard Model w/ microphone and manual | 2820-4003 |
| W/ Entertainment Electronics, microphone, manual | 2820-4003E |
| Spare Parts & Accessories | |
| Shop Spares Kit | 4003-SS |
| Field Spares Kit | 4003-FS |
| Rechargeable Battery | 2890-05 |
| Remote Walk & Talk (Simulcom) | 2822-28 |
| Remote Walk & Talk (PTT) | 2821-28 |
| Internal Chamber Headset | 2401-31R |
| Operator Headset | 2401-28 |
| Hand-Held Microphone | 2405-28 |

SOUND POWERED TELEPHONE

Details:

Handsets are available with or without push buttons and with coiled cordsets, straight cordsets or armored cable. Coiled (R) and straight (S) cordsets terminate in either alligator clips (C) or a phone plug (P). Armored cable (AR) models terminate in tinned wires. The handset pictured to the right is **MODEL SPT-550 RP.**



The handset push button is the equivalent to a hang-up switch. Handsets without push buttons are therefore always on and are best limited to applications involving simple pair-phone operation. Handsets with push buttons are off-line until the push button is depressed and are intended for multi-phone set-ups. The PTT handset is wired so that only the transmitter is activated by the push button. The receiver is always on. This configuration is required by certain fire codes relating to high rise buildings.

12" TOOL – LESS CLOSURE (MEDICAL LOCK)



SPECIFICATIONS:

Designed especially for 54" and 60" deck decompression chambers

Material: Hub- A.S.M.E. SA 105 carbon steel
Head- A.S.M.E. SA 516 GR 70N carbon steel
Locking bars- A.S.M.E. SB 169/171 UNS# C61400 aluminum-bronze
Gaskets- BUNA- N (O-Ring)
Spool- 12" STD. WT. A.S.M.E. SA 106 GR B carbon steel
Flange- 12" STD. WT. CL150 RF WN
Remaining structural components & hardware – carbon steel
Head and hand wheel - nickel plated @ 0.001" thick

AAI HY-LITE FOR 54 OR 60" DDCS Hyperbaric Chamber Light



Specifications:

Halogen Bulb – 20 watts
LEDs - 24 Cool White
Voltage – 24V
Hardware – 316 Stainless Steel
Housing – 6061 Blue Anodized Aluminum
Connector – 2-pin male waterproof connector
with stainless steel locking sleeve
Weight – 1.5 lbs.



The AAI HY-LITE was designed for installation within the commercial diving deck decompression (DDC) or hyperbaric chamber. It comes standard with a 2ft power cord. An optional 12ft power cord (Part # RM2-FS-12FT) is recommended for connecting the light to the power supply to give more flexibility. An optional magnetic base (Part # AAI-500-MB-A) conveniently allows the Hy-Lite to be positioned anywhere the cord can reach.

Aqua-Air Ordering Information

| | |
|---|--------------|
| AAI Hy-Lite Chamber Light Assembly with 24 LEDs..... | AAI-500-A |
| Optional Halogen Bulb – order bulb separately under this part number..... | 25111A |
| Optional Magnetic Base..... | AAI-500-MB-A |
| Optional 12 foot power cord..... | RM2-FS-12FT |

Oxygen Treatment Hood



Amron's critically-acclaimed and celebrated Oxygen Treatment Hood is the preeminent hood on the market and easily sets the standard for all others! Offering extreme versatility and ease-of-use, Amron's Oxygen Treatment Hood was designed as an efficient operation within a multi-place hyperbaric chamber. The heart of the system is the reusable neck ring with conveniently located supply and exhaust hoses with accompanying o-ring seal for the vinyl hood attachment. While the neck ring was developed to withstand multiple cycles in an autoclave, the neck seal features an integrated o-ring for easy replacement and has numbered trim rings for accurate neck sizing.

What's more, the supply and exhaust locations allow oxygen to circulate easily throughout the hood at reduced noise levels. As a soft flow of gas helps to cool the patient, the optical-quality viewing window is continuously being defogged. The optional pneumatic entertainment system allows patients to listen to monaural music or video sources in complete comfort. A patient-operated volume control and channel selector switch eliminates the need to disturb attending nurse or chamber operators. No electrical power is ever supplied directly to the hood, which ensures safe operation and peace of mind.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician or licensed practitioner. This product may contain natural rubber latex which can cause allergic reactions. Please select the Medical Grade Neoprene/Non-Latex model if you believe you may have an allergy.

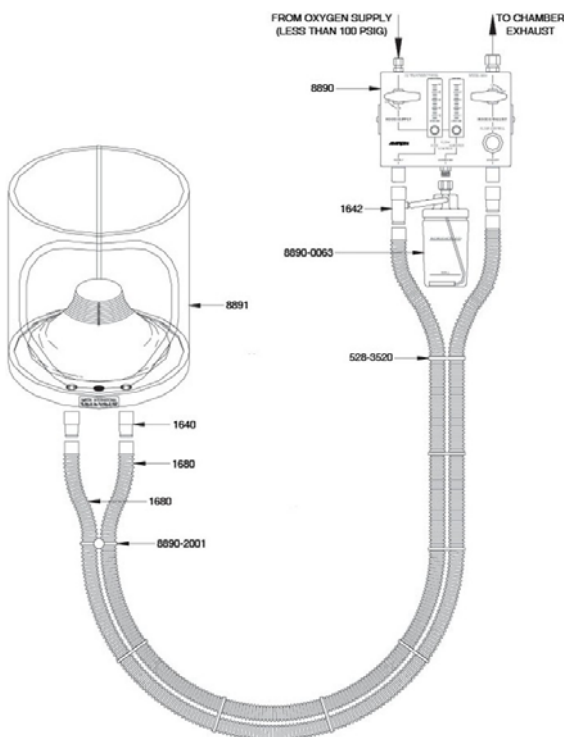
Oxygen Treatment Hood Cont.

Features

- Optimum cooling and noise reduction
- Reusable neck ring (autoclavable)
- Conveniently located hoses reduce bulk and improve comfort
- Designed for simplicity, performance, economy, ease-of-use and safe effective cleaning.
- Innovative design allows patients to recline comfortably
- Multi-purpose port for gas analysis or entertainment option
- Positive o-ring seal between hood and neck ring
- Soft vinyl hood with extra large optical quality window
- Replaceable surgical latex neck seal with sized trim lines
- Optional entertainment system with pneumatic headset

Item List

| | |
|---|----------|
| Oxygen Treatment Hood with Tubing and Humidifier | 8890-100 |
| Oxygen Treatment Hood with Latex Trimmed Neck Seal | 8891 |
| Oxygen Treatment Hood with Latex Untrimmed Neck Seal | 8892 |
| Oxygen Treatment Hood with Neoprene Untrimmed Neck Seal | 8894 |



Oxygen Treatment Panel



The Amron Hyperbaric Oxygen Treatment Panel provides easy administration and humidification of the oxygen supply to the patient within the chamber. Exhaled gas is discharged outside of the chamber, thereby controlling the O₂ and CO₂ gas levels within the chamber. The 8890 System is available with a wide selection of masks and hoods so that you can customize your system to your patients' needs. Oxygen flow rates are adjustable and easily monitored.

The Amron Oxygen Treatment Panel is small in size and is designed to be easily installed to new and existing chambers by a unique mounting system that always allows you to install the system in a vertical position regardless of unit location in your chamber.

Item List

| | |
|---|--------|
| Oxygen Treatment Panel – Single Patient | 8890 |
| Oxygen Treatment Panel – Dual Patient | 8890-2 |

The Amron Oxygen Treatment Panel can also be installed to the Amron BIBS Manifold Block (Model 8000-004) for quick change between Scott BIBS masks or treatment panel.

Specifications

- Input Pressure Range: 15 psig over chamber pressure to 100 psig
- Maximum Pressure: 100 psig
- Supply Inlet Fitting ¼ in CPI type
- Hood Supply On/Off Valve: ¼ turn ball valve
- Hood Supply Flow Meter: 5-50 lpm
- Supply Outlet Connection: 22 mm OD
- Humidifier Supply Flow Meter: .6-5 lpm
- Humidifier Outlet Connection: O₂ fitting
- Exhaust Inlet Connection: 22 mm OD
- Exhaust Flow Control Valve: Needle Valve
- Hood Exhaust On/Off Valve: ¼ turn ball valve
- Exhaust Outlet Fitting: ½ in. CPI type

Dimensions

- 8890
 - Dimensions: 9 in. L x 2 in. D x 8.5 in. H
 - Weight: 5.1 lbs
- 8890-2
 - Dimensions: 14.5 in. L x 2 in. D x 8.5 in. H
 - Weight: 10 lbs.

LUNG POWERED SCRUBBER™

Part No. LPS-1000



Bag is 6 ½" Dia. x 18" L
Weight of entire unit is 4 lbs.

The Lung Powered Scrubber™ was designed for removing carbon dioxide from a chamber atmosphere. The silicone mask and canister are stored in a nylon storage bag. This technology has been used in the commercial diving industry and military submarines for over fifty years. The Lung Powered Scrubber™ can be used without any extensive training and will protect the user for many hours on one canister. The canister has a built-in PH indicator. The chemical is white and will turn violet in color while being used. The unit is "lung powered" and requires very little maintenance & no electricity. The old canister can be changed by simply removing the hose clamp and installing a fresh canister. A Lung Powered Scrubber™ should definitely be a standard part of your chamber emergency backup system.

Canister Detail – Canister & contents are CE approved:
Part No. LPS-1000-SC

Sofnolime Carbon Dioxide Absorbant:

- 1) White to violet USP Grade
- 2) 2.5-5.0
- 3) >100 litres CO₂/Kg absorption capacity
- 4) Chemical weight - 2.5 lbs.

Carbon Based Filter Media

- 1) Soft moldable material with very high air flow
- 2) Ref MP 1005
- 3) Carbon 20%
- 4) Alumina 20%

AAI TURBO SCRUBBER

Part No. AAI-1300-A1



When using the Turbo Scrubber, the chamber atmosphere will have a constant circulation of Air-CO₂, Water Vapor, & Odor Absorption. The unit can be powered by an AC/DC power supply (not included) or by a 24 volt back up battery for up to 24 hrs of operation.

The stainless steel canister of the Turbo Scrubber can be configured with proper chemicals to maintain CO₂, water vapor, & odor levels generated within a chamber.

Features:

- Installed Weight Empty - 18 lbs.
- Installed Weight Filled with Absorbent – 25.5 lbs.
- Power Requirements - 1.5 AMPS 24V AC OR DC
- CO₂ Absorbent - (SOFNOLIME) 7.5 lbs.
- Flow Rate- 30 cfm (actual)
- Rugged Stainless Steel built-in mounting bracket
- Dimensions 15” L x 10” W x 8” H
- 6 Person capacity per Turbo Scrubber unit

The stainless steel Turbo Scrubber is powered by 110/24 volt “magnetic coupled” dual fans which move 30 cubic feet per minute through the scrubber canister. The fan motors are designed to work in high levels of oxygen without electrical sparks.

Turbo Scrubber Assy. Complete with Built-In Mountng Bracket –Order P/N ..AAI-1300-A1
Power Supply – Order P/N.....AS320-24



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Communications and Power Cable

| | |
|--|--|
| Number of strands per Conductor and Gauge (AWG) of strand | 7/26 – 18 Gauge Stranded PCW, 7 pcs 0.406mm |
| Number of Conductors | 4 |
| Twisting Type | Back twisted to prevent bleeding. Isolated conductors are to be twisted like a four side start and a 0.93mm Ø central filler is put in the middle and twisted to the lefthand side which creates a back twist every 100mm max. Conductors must not be fused. |
| Conductor Material | Standard Copper – 0.40mm |
| Outer Jacket Material | PVC Type II A |
| Nominal outside diameter | 10.10mm |
| Thickness | .80mm |
| Color | RAL2007 Hellorange |
| Braid Material | 304 Stainless Steel |
| | 0.32mm, 16 Strands |
| Tape Material | Carbon cloth 0.13mm thickness, 25.0mm width |
| Inner Jacket Material | Polyethylene |
| Thickness | 0.762mm |
| Colors | Red, Black, Green & Brown |
| Central Filler | Transparent Polyethylene 0.93mm |
| Outer Marking – Color Black | CX1066 AQUA-AIR (504) 362-8124 CE RATED #023356 |
| Length | Meter markings required |
| Standard reel | 5,000+ ft. continuous length |
| * Both ends of cable must be exposed and continuity test cert. must be included with each reel * | |
| Net Weight | |
| Reel | 800mm x 400mm |
| 5,000 ft. Cable | 171kg |
| Shipping Weight | |
| 5,000 ft. with Reel | 215kg |
| Shipping Dimensions of 5,000 ft. reel | |
| Diameter | 800mm |
| Width | 400mm |
| <u>Optimum Electrical Measurements</u> | <u>Standard Value</u> |
| Function Control | Open Short Circuit |
| DC Conductor Resistance | Max 19.7 Ohms/Km |
| Insulation Resist (500VDC) | Min 5000 M Ohms/Km |
| Part Number | CX 1066 |
| CE Rated #023356 | |

Specifications are subject to change without notice.

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Aquacom® MK2-DCI Air Intercom



Features:

- Microprocessor
- 20 Watts of Power
- Easy Battery Access
- Heavy Duty Housing
- Tender/Diver Controls
- Industrial Panel Speaker

The MK2-DCI is a compact, self-contained Two Diver Air Intercom. It is designed to allow one or two divers clear communications either in the two wire mode (push-to-talk) or four wire mode (round robin). To ensure the highest intelligibility possible over virtually any length of communication wire, the MK2-DCI has 20 watts of audio power! The heavy duty panel speaker was specifically chosen to deliver loud, clean volume when necessary.

The MK2-DCI is designed w/ a space age microprocessor. This processor manages critical system functions to guarantee high reliability. One unique function protects rechargeable batteries from being damaged due to extreme low voltage conditions. The processor also controls most of the important electrical functions yielding a smooth delivery and performance of key components.

When intelligibility is a factor, the MK2-DCI is second to none. MK2-DCI is rugged in design to withstand the harsh marine environment. MK2-DCI is the benchmark for all others!

ComBox1 Air Intercom



Features:

- Compact Design
- 20 Watts of Power
- Easy Battery Access
- Loud Front Panel Speaker

ComBox1 is an economical One Diver communication intercom. It has the same 20 watts of power as the MK2-DCI ensuring the highest intelligibility possible at a reasonable price. ComBox1 comes in a heavy duty housing designed to stand up under the worst conditions. The powerful front panel speaker provides easy listening in any environment.

ComBox1 has a unique low battery indicator. The Red LED illuminates when power is on but strobes when power reaches low voltage. The LED will stop illuminating when batteries are ready for replacement or recharging.

ComBox1 is designed to allow the tender to easily change out the batteries when necessary. Best of all, this lightweight power-house is priced right. This could be the last ComBox you will ever have to purchase.

| Specifications | MK2-DCI | ComBox1 |
|-----------------------|---|--|
| Battery Life | 20 hours continuous use | 26 hours continuous use (Alkaline) |
| Battery Type | (2) 6 volt lantern batteries (heavy duty) Optional R B 6 rechargeable battery | (2) 6 volt lantern batteries (heavy duty) Optional R B 6 rechargeable battery |
| Charging Time | 14 hours w/ optional Gel Cell batteries | 14 hours w/ optional Gel Cell batteries |
| Power Output | 20 watts | 20 watts |
| Frequency Response | 600 to 12,000 Hz | 600 to 10,000 Hz |
| Controls | Volume: Tender, diver 1, diver 2, Speaker, Cross talk, PTT, Speaker On/Off, select diver 1, diver 2 or both | Volume: Tender, diver, Speaker On/Off |
| Receptacles | Remote speaker, record out, 12 volt in, headset w/ boom mic, binding posts | Record out, divers umbilicals, headset |
| Low Battery Indicator | LED type battery meter | LED flashing |
| Speaker | Front panel speaker or optional headset | Front panel speaker or optional headset |
| Housing Dimensions | Height: 10.8" | Height: 9.75" |
| | Width: 14" | Width: 10.75" |
| | Depth: 6.85" | Depth: 7" |
| | Weight: 12.5 lbs | Weight 9 lbs. |

Amcom™ Helium Speech Unscrambler



Features

- * 2,000 feet of sea water range
- * 2 Mode Operation – Deep and Shallow
- * Noise canceling hand-held microphone
- * Treble control compensates for microphone variances
- * A/C powered w/ automatic battery back-up
- * 110/220 VAC, 50/60Hz, internally selectable
- * Includes all features of the Amcom Communicators
- * Simple switching from air to helium operation
- * Battery status indicator

The Amcom II Portable Helium Unscramblers are incorporated in the Model 2825 Deluxe Series Communicator and includes all of the same varied and unique features found on the Amcom II Deluxe Air Communicators. The system is AC powered w/ isolation transformer and selectable AC input voltage 110/220 VAC. The system comes complete w/ push to talk microphone and operations and maintenance manual.

Military 2 Diver Helium Unscrambler

The Military Version of the Amcom™ Unscrambler accommodates pre-amplified or dynamic style divers microphone. The unit features MS Connectors for the umbilical and external battery connections.

Lid Mount Helium Unscrambler

The Lid Mount Analog Unscrambler is available in two versions. The standard 2 Diver Commercial version and the 3 Diver Military version. The Lid Mount Unscrambler module can be purchased as a spare for easy replacement of the Unscrambler. The Lid Mount Unscrambler cannot be connected to a standard air radio. The unit can be converted to a standard air radio by simply unplugging the lid module. The system comes complete w/ hand held noise canceling microphone and manual.

| Specifications | |
|------------------------------|---|
| Power | 110/120 VAC, 50/60 Hz. Internally Adjustable |
| Back Up Power | 12 Volt Gel-Cel Automatic Charging |
| Power Output | 12 Watts Audio minimum |
| Frequency Response | 300 Hz to 12 kHz |
| Isolation Transformer | Split Bobbin Medical Grade |

| Controls | |
|-----------------------|---------------------------------------|
| Range | Surface to 2000 FSW (600 MSW) |
| Depth Control | Adjusts speech frequency shift |
| Treble Control | Adjust for differences in microphones |
| Air/Helium | Switch from air to helium operation |
| Dimensions | |
| Height | 9.9" (22.9 cm) |
| Width | 14.5" (36.8 cm) |
| Depth | 10.0" (25.4 cm) |
| Weight | 20 lbs (9 kg) |

| Additional Specifications Model 2825 / 24 / 26-MS | |
|--|--|
| Frequency Response to HSU | 1300 (+/- 100 Hz) to 30K (+/- 5 kHz) |
| Frequency Response to System | 550 Hz (+/- Hz) to 4.5 kHz (+/- 1 kHz) |
| Microphone Power Out, Divers | 7.5 VDC @ 7.5 mA |
| Ordering Information | |
| Standard 2 Diver Helium Unscrambler, AC Power | 2825 / 24 / 26 |
| Military 2 Diver Helium Unscrambler, AC Power | 2825 / 24 / 26-MS |
| 2 Diver Radio w/ Lid Mount Unscrambler | 2825 / 24 / 26H |
| 3 Diver Radio w/ Lid Mount Unscrambler | 2830 / 24M / 26 |

Amcom™ 1



The Amcom™ 1 is a small compact one diver radio packed w/ 12 watts audio power and many versatile features to give you many years of service. The Amcom™ 1 is available in a rechargeable version complete w/ the 2823-600C External Charger w/ Gel-Cell batteries or a non-rechargeable version w/ standard lantern type batteries.

External Battery Charger is standard w/ the Model 2810A. The unit can be left on charge indefinitely. You can operate the radio directly from the charger.

Parts and Accessories

- * Rechargeable Battery (1 required) – 2890-05
- * Lantern Battery (2 required) – 2890-01
- * Hand-Held Push to Talk Microphone – 2405-28
- * Remote Push to Talk Module w/ 25 ft. Cable – 2821-28
- * External Battery Leads – 2814
- * Field Spares Kit – 2810-FS
- * Shop Spares Kit – 2810 SS

Specifications:

| | |
|---|--------------------|
| Frequency Response | 300 Hz to 3 KHz |
| Power Output | 12 watts audio |
| Rechargeable Battery | 12V 7 amp Gel-Cell |
| Approx. Battery Life | 50 hours |
| Dry Cell Battery | 2 ea. 6 V Lantern* |
| Approx. Battery Life | 30 hours |
| * A single 12 volt battery may be used in place of two 6 volt batteries * | |
| Dimensions | |
| Height | 7.1" (28.0 cm) |
| Width | 9.0" (35.4 cm) |
| Depth | 6.55" (25.3 cm) |
| Weight Model 2810 | 10 lbs. (4.5 kg) |
| Weight Model 2810-1 | 7 lbs. (3.2 kg) |

Features

- * Over ten years of field proven reliability
- * Available in rechargeable and non-rechargeable
- * LED battery indicator
- * Enough audio power to support two divers
- * Flip-latch battery compartment w/ O-ring seal
- * Molded co-Polymer case w/ O-ring seal for protection
- * External 12 VDC power connection
- * Independent diver and tender controls
- * Headset jacks on side of case for remote operation w/ lid close
- * Black powder coated panel w/ easy to read graphics
- * Over the shoulder carrying strap
- * 2 and/or 4 operation standard

Ordering Information

| | |
|--|------------|
| Rechargeable w/ Batteries & Charger | 2810 |
| Non-Rechargeable w/ Lantern Batteries | 2810-1 |
| Rechargeable w/ Tape Record Jack | 2810/TRJ |
| Non-Rechargeable w/ Tape Record Jack | 2810-1/TRJ |

Amron 2-Diver – Amcom II Series

Ordering Information



2820 – Pictured Above

| 2-Diver Standard | |
|------------------|--------------------------------|
| 2820A | 2-Diver Standard |
| 2820A/23 | 2820 w/ rechargeable batteries |
| 2820A/24 | 2820 AC powered |

| 2-Diver Deluxe | |
|----------------|---|
| 2825A | 2-Diver Deluxe |
| 2825A/23 | 2825 w/ rechargeable batteries |
| 2825A/24 | 2825 AC powered |
| 2825A/24/28FDW | 2825 AC powered w/ Wireless Tender Option |
| 2825A/24/26 | 2825 AC powered w/ Analog Helium speech unscrambler |



2825/24 – Pictured Above

Accessories



Amron Standard Headset



Amron Standard Headset



Remote Push-to-Talk Extension



Remote Push-to-Talk Extension



External Charger (/23 option)



Remote Push-to-Talk Extension

Field Spares



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EMAIL sales@aquaairind.com

The Amcom® II Series 2820 and 2825 are the most versatile and powerful two diver communicators on the market today. The 2825 Series includes a hand-held push-to-talk microphone and separate volume controls for each diver. Both divers can be set up on Simulcom or push-to-talk, or one diver on Simulcom and the other diver on push-to-talk mode, or any combination of the two modes.

Features:

- New weatherproof panel microphone for greater voice intelligibility.
- Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.

Non-Rechargeable

Shipped with four 6-volt spring top batteries and manual.

Rechargeable (/23 option)

From an external charger. The unit can be left on charge indefinitely without damage to the batteries or communicator. The communicator can be operated directly from the charger where AC power is available. Shipped with four rechargeable spring top Gel-cell batteries, external charger and manual.

AC Power (/24 option)

With automatic battery backup power. Shipped with one 12 VDC Rechargeable slide terminal Gel-cell type battery automatically recharges while operating the unit. The voltage is automatically selectable for 110 or 220V AC, 50 or 60Hz, with built-in isolation transformer. Shipped complete with backup batteries and manual.

Tech Note

All communicators will transfer topside noise to the diver when using the radio speaker only. To eliminate background noise and achieve clear concise communications, use a push-to-talk microphone or a headset or a remote walk & talk with headset.

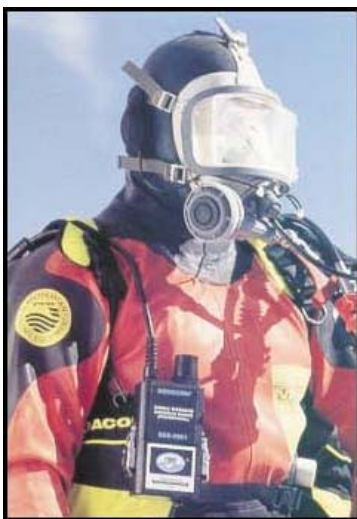
Specifications

| | |
|------------------------------|---|
| Power | 110/220VAC, 50/60Hz (automatic), or internal/external batteries 12VDC |
| Frequency Response | 300Hz to 12kHz |
| Audio Power Output | 22 watts per channel |
| Isolation Transformer | Split Bobbin Medical Grade |
| Non-rechargeable | 4 ea. 6VDC spring-top configured to 12V. Expected life: 40 hours |
| Rechargeable (/23 option) | 4 ea. 6VDC spring-top configured to 12V. Expected life: 40 hours |
| Back-up Battery (/24 option) | 1 ea. 12VDC rechargeable Gel-cell. Expected life: 20 hours |

Aquacom® SSB-2001 Single Sideband Transceiver

The Aquacom® SSB-2001 was specifically designed for Professional use. It is rugged in design to withstand the harsh marine environment. *Advanced digital signal processing*, surface mount technology and the finest components available ensure the highest in quality and intelligibility.

The SSB-2001 offers many useful features developed from experience. Just to name a few: A Voice Operated Transmitter (VOX) and Push-to-Talk (PTT) circuit that can be switched, on the fly, underwater. A unique Squelch control to help suppress marine biological or man-made noise. Hi-Use connector (1/2 hardened naval brass). Replaceable transducer. Water activation circuit. Batteries can be charged without compromising the o-ring seal. Delayed Power OFF circuit to allow surface adjustment and/or surface checks. Visual Power ON LED (acts as low battery indicator). Modular in design, repair or replacement is economical. SSB-2001 can easily be converted to a portable surface unit using the optional CDK-6 Surface Accessory Kit. Your receive and side monitoring volume are easily controlled via a conveniently located control pot. The STX-2001 Buddy Phone® surface station is an excellent option that can be used with SSB-2001.



SSB-2001 Specifications

| | |
|---------------------|---|
| Nominal Range | Calm Sea: Greater than 1000 meters Sea State 6: 200 meters |
| Transmission Type | Ultrasound using upper single sideband |
| Reference Frequency | 32.768 kHz |
| Audio Bandwidth | 300 Hz to 4000 Hz |
| Auto Gain Control | 120 dB dynamic range |
| Transducer | Piezoelectric type |
| Operating Depth | 130 feet of sea water. Max depth: 400' |
| Battery Type | 8-AA Alkaline batteries or optional Nicad battery pack |
| Connector Type | ½ hardened naval brass, gold plated pins (Hi-Use) |
| Housing | Injection molded high impact glass Filled Nylon Plastic |
| Housing Dimensions | Height: 7.60" Width: 3.55" Depth: 1.80" |

SSB-2001 & CDK-6 Surface Accessory Kit



The Aquacom® SSB-2001 can be easily converted to a portable surface station allowing surface to diver to surface communications. The CDK 6 consists of a high grade headset with boom microphone, a Hi Use connector and 55' of transducer cable.

To make the conversion you simply connect the headset with boom microphone to the SSB-2001's Hi Use connector. Step two is to disconnect the transducer from the SSB-2001. The transducer is connected onto the 55' transducer cable. The other end of the transducer cable is connected to the SSB-2001. The transducer cable will override the SSB-2001's water activation switch and the unit will power up. Lower the transducer in the water and you are in business. Additional transducer cable is available from your local dealer, if necessary.

The CDK 6 uses a custom made headset with boom microphone. The microphones boom can be positioned at virtually any angle. The microphone element is noise canceling and can easily be replaced.

The SSB-2001 gives you the option of utilizing it as a portable surface station or diver transceiver. The best of both worlds!



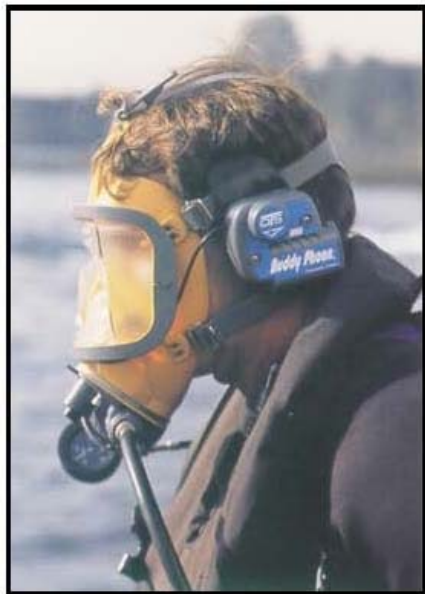
EMA-2 Ear/Mic. Assembly
(Note: MKII AGA not included)

EMA 2 Earphone/Microphone assembly is compatible with virtually all MKII Interspiro full face masks. It consists of dual earphones, earphone holders, Push to Talk control, Hi Use connector, AGA cover plate and a Hot Mic® element (operates on wireless or hard wire communications).

EMX-2 Ear/Mic. Assembly
(Note: EXO 26 not included)

The EMX 2 Earphone/Microphone assembly is compatible with the EXO 26 full face mask. It consists of dual earphones, Hi Use connector, Push to Talk control and a Hot Mic® element.

MKII Buddy Phone® - Interspiro Full-Face Mask



MKII Buddy Phone® and the Interspiro full-face mask (FFM) is a perfect combination. The Interspiro FFM is used by Military, Commercial, and Scientific professionals as well as Search & Recovery teams around the world. It is also popular with many "Technical" divers.

The high quality 2nd stage regulator was proven to be one of the best in recent U.S. navy tests. It is a demand type regulator. On demand, the air flow travels across the face lens keeping it defogged. The air flow also cools your face before it enters the comfortable oral nasal cavity. Since you have no regulator in your mouth, jaw fatigue is completely eliminated. The ability to breathe through your nose alleviates dry mouth. We offer the MKII-Buds installed in a GOLD, silicone FFM standard. However, the Buddy Phone can be purchased separately and configured for virtually any style FFM.

The oral nasal cavity is the perfect place for our specially designed, high quality, diver microphone. A port located on the front of the FFM allows microphone positioning in front of the users mouth ensuring clear communication. The Buddy Phone® transceiver mounts nicely on the side of the Interspiro FFM.

The combination of high quality communications and one of the finest full-face masks available, ensures virtually the highest intelligibility possible.

| Buddy Phone® Specifications | |
|------------------------------------|--|
| Nominal Range | 50 to 500 meters depending on sea conditions and noise levels |
| Transmission Type | Ultrasound (upper single sideband) |
| Reference Frequency | 32.768 kHz |
| Audio Bandwidth | 300 Hz to 3000 Hz |
| Auto. Gain Control | Greater than 80 dB |
| Barphone | Ceramic with dynamic depth compensation |
| Microphone | XT-100: Ceramic MKII model: Dynamic Enhanced model: Dynamic |
| Transducer | Ceramic cylinder |
| Operating Depth | 130 feet of sea water |
| Battery Type | Alkaline 9 volt "transistor" type, OT S special high energy nickel cadmium 9.6 volt rechargeable |
| Battery Life | 8 to 10 hours (10% duty cycle) |
| Weight in Air | XT-100: 13 oz. (368.55 grams) RX-100: 7 oz. (198.45 grams) MKII: 8.1 oz. (229.64 grams) |

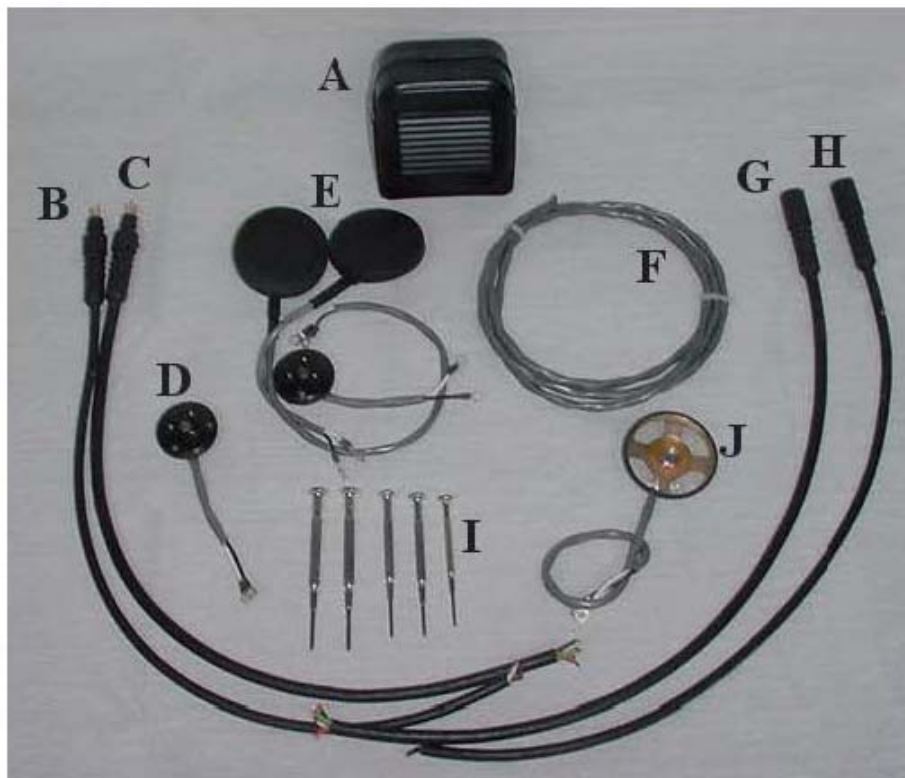
| STX-100 Buddy Phone® Surface Station | |
|---|--|
| Nominal Range | 50 to 100 meters depending on sea conditions and noise levels |
| Transmission Type | Ultrasound (upper single sideband) |
| Operating Frequency | #1 – 32.768 kHz (upper sideband) #2 – 32.768 kHz (lower sideband) #3 – 25 kHz (upper sideband) #4 – 25 kHz (lower sideband) #5 – 28.5 kHz (upper sideband) #6 – 28.5 kHz (lower sideband) |
| Audio Bandwidth | 300 Hz to 3500 Hz |
| Auto. Gain Control | Greater than 120 dB |
| Receiver Sensitivity | Greater than 100 dBv |
| Trans. Pwr./Audio out | 2 watts |
| Microphone | Dynamic 500 ohm impedance |
| Transducer | Piezoelectric type |
| Controls/Receptacles | Squelch, Volume, Record out |
| Battery Type | Eight "C" Alkaline type |
| Battery Life | 20 hours (10% duty cycle) |
| Housing Dimensions | Width: 9.00" Height: 7.85" Depth: 3.40" |
| Weight | 7 lbs (w/o batteries) |

Communications Spare Parts



| Letter | Part No. | Description |
|--------|--|---|
| A | 20-226 | 2" paper speaker |
| B | 99D668B | Shure Microphone |
| C | B82577 | M101 Microphone, Noise canceling |
| D | 151105 | Solder-less wire eyes |
| E | 20-177 20-176 20-224 20-175 | 2 ½" Mylar Ear Speaker 2" Mylar Ear Speaker 1" Mylar microphone 1 9/16" Flat Mylar speaker |
| F | 25-2550-1-0210 25-2550-1-0212 25-2550-1-0214 | Dual Banana Plug – Red Dual Banana Plug – Black Dual Banana Plug - Yellow |
| G | 515-035 | Communication post |
| H | 01-1532-1-0300 | Dual Communication post |
| I | 520-015 | Earphone protector |
| J | 510-542 | Earphone cover |
| K | RM-4 | Female Dummy Plug |
| L | RM-2 | Male Dummy Plug |
| M | FMG2MPDHP | Dummy Plug |
| N | AAI-60100 | Stainless steel locking sleeve |
| O | RM-LSF | Female locking sleeve |
| P | RM-LSM | Male locking sleeve |

Communications Spare Parts



| Letter | Part No. | Description |
|--------|--|---|
| A | DCM-3 | Chamber Speaker |
| B | RMG-2-MP RMG-3-MP | Two-pin Male W/P Connector Three-pin Male W/P Connector |
| C | RMG-4-MP | Four-pin Male W/P Conenctor |
| D | 99D668 | Shure Mic with Wire and Wire eyes |
| E | 515-030 515-005 5-5006 515-009 515-033 | Communications set for SL-17, KMB-18, KMB-28 Earphone, Right w/ cover Earphone, Left w/ cover Microphone Communications for 17K |
| F | SPW-10 | Speaker Wire |
| G | RMG-2-FS RMG-3-FS | Two-pin female W/P Connector Three-pin female W/P Connector |
| H | RMG-4-FS | Four-pin female W/P Connector |
| I | JSD-520 | 6pc Jewelers Screwdriver Set |
| J | MSPK-250 | 2 ½" Mylar ear speaker with wire and wire eyes |

ENTERTAINMENT DOUBLE LOCK CHAMBER COMMUNICATOR



Description

The **Amcom Model 2810A-2001** is a **panel mounted chamber communication system** operating from an internal 110/220 VAC power source with an **internal 12 VDC battery back up**. The system is designed to provide voice communications between the chamber operator and occupants within the chamber.

The 2810A-2001 has the **capability of 2-wire and/or Simulcom (4-wire) communication modes**. 2-Wire and Simulcom (4-wire) modes can be used simultaneously. This enables the user to operate in a hands-free mode, using a headset and communicate between the chamber and operator without having to use the Push-To-Talk.

The Amcom I Chamber Communication System is a **full-feature hard-wire, single lock communication system**. The AMCOM I has **independent volume controls (operator and lock)**. The 2810A-2001 **can be used with a hand held microphone**, which incorporates automatic talk back speaker cut out. This feature greatly reduces the amount of background noise, and under noisy conditions can make the difference between a good or unacceptable sound and speech clarity.

The **Amcom 2820-4003 Standard Model** features **two-way communications** between the chamber operator and occupants within the chamber. **Full featured hard wire**, two lock systems which have independent volume controls for the operator and separate on/off controls for each lock. The system is supplied with a **noise cancelling hand-held microphone** for use by the operator. The microphone has **automatic talk back speaker** cutout which enhances communication quality by reducing the background noise to the chamber occupants.



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Model 2820-4003 Features:

The **Entertainment Model 2820-4003E** has an **amplifier** to provide audio from any source, such as AM, FM, CD, TV, etc. The 2820-4003E has a **separate on/off volume control** for the entertainment channel and the entertainment monaural audio is interrupted when the hand-held microphone or push-to-talk switch is activated.

Features:

- Two modes of operation: simple intercom type operation and/or duplex type operation (Simulcom)
- Available with amplifier for entertainment
- AC power with battery back-up. Automatic charging.
- External 12 VDC connection
- Noise canceling hand-held push-to-talk microphone
- Built-In Isolation Transformer
- Separate volume controls for operator and each lock

| Specifications | | |
|----------------|--------------------|---------------------|
| | 2810A-2001 | 2820-4003 |
| Height | 6.75 in (17.2 cm) | 8 in (20.3 cm) |
| Width | 10.75 in (27.3 cm) | 10.125 in (25.7 cm) |
| Depth | 7 in (17.7 cm) | 7.5 in (19.1 cm) |
| Weight | 11.5 lbs (5.1 kg) | 15 lbs (3.6 kg) |

DISCLAIMER NOTICE: Amron's communications equipment is designed to be used in air chambers where oxygen concentrations remain below 23.5%. Our communications products (including communicators, speakers, entertainment systems, and other communications accessory items) are NOT designed for oxygen service, are not intrinsically safe, and do not meet the criteria given in NFPA-99, Chapter 20 and other applicable definitions. Use of our products in high-concentration Oxygen environments may result in serious injury and/or death.

Waterproof Systems for Music and Voice



**Model DCM-3
3-12" Speaker for
Voice Communications**

Completely Waterproof – Durable Construction – High Intelligibility

Waterproof Systems are designed for high quality voice communication and background music systems. In addition to durable, waterproof construction, these systems offer unequalled clarity and intelligibility.

Each system includes a waterproof speaker enclosed in an electrostatically painted steel enclosure. A gimbal bracket allows for convenient mounting on any surface in any position.

Designed for rugged environmental conditions, they can be used in a variety of applications: outdoor music, paging, surveillance, drive-thru, and two-way radio systems.

All systems are available as specified or custom designed for special applications.

Loudspeakers are manufactured in the United States.

AAI Model 5120 Compressor



Part No. AAI-5120-Kubota-D-A

The 5120 Air Compressor package features a Quincy 5120 basic two stage pressure lubricated, 200 psi low pressure compressor with a Kubota diesel engine, designed for **heavy duty service**. All Aqua-Air compressor unit feature the Quincy QRB which certifies that the unit has an **oil carry over rating of 2 parts per million**. This American-made product meets the highest standard of workmanship and performance in the industry.

UNIT FEATURES:

- S.S. H.P. Unloader Line
- Dry Type Air Intake Filters
- Oil Pressure Gauge
- 20 Gallon Fuel Tank
- Steel Frame
- Belt Guard – 6061 Al. Full Cover
- 60 Gallon Volume Tank
- 4 Diver Manifold
- 1 ½" Flex Hose S.S.
- 250 PSI Fittings
- Primary Fuel Filter
- Skid – All Steel Construction

| Quincy QRB/5120 | KUED1703MEBIAS Diesel Engine | KUED1703MEBIAS Diesel Engine |
|----------------------------------|---------------------------------|---------------------------------|
| Horsepower (H.P.) 2600 r.p.m. | 55 H.P. | 55 H.P. |
| Displacement (cm) | 2574 | 2574 |
| Bore/Stroke | 102/105 | 102/105 |
| Compression Ratio | 18:7 | 18:7 |
| Start | Air Start | Electric |

Design Specifications:

The compressor and engine are mounted on a marine treated steel skid frame with cushion shock mounted base, a drip pan, and fully covered belt guard. This unit is easily moved with a forklift or the single point lift eye.

Quincy 5120 Specifications

Cu. Ft. Displacement.....123
Cu. Ft. A.C.F.M.....88.5
Max Working. Pressure....200 psi

Approximate Dimensions:

Weight.....3800 lbs – Diesel*
Length.....96 in.
Width.....52 in.
Height.....48 in.

*ADD 50 LBS FOR ELEC START
(BATTERY INCLUDED)

*** MEETS ALL CURRENT ENVIRONMENTAL DISCHARGE STANDARDS – NOISE AND AIR ***

Aqua-Air Ordering Information:

Quincy 5120 w/ Kubota Engine.....AAI-5120-K-AS-D

Quincy QR-25® Base-Mounted Industrial Compressor Unit



Standard equipment includes air compressor, electric motor, diesel or gasoline engine, inlet air filter, enclosed belt guard, V-belt drive, and steel baseplate. Oil filter is standard on two-stage models. For optional automatic operation, specify loadless starting and pressure switch; for continuous operation or dual control, specify Quincy's variable differential intake valve unloader. RPM and CFM are for operating pressures of 100 psi on single-stage models, 175 psi on two-stage models. Twelve-volt electric start, throttle control, and charging system are standard on gas engine models.

| Model | Horse Power | Bore LP | Bore HP | Stroke | No. Cyl. | RPM | CFM Piston Disp. | †ACFM | Approx. Shipping Weight | LxWxH |
|-------|-------------------|------------|------------|--------|-------------|-------------------|-------------------------|-------------------------|-------------------------------|----------------------|
| D210* | 1 1-1/2 | 2.50 | | 2.00 | 2 | 440 691 | 5.00 7.90 | 3.30 4.80 | 185 190 | 27x16x20 |
| D310 | 2 | 3.50 | 2.00 | 2.50 | 2 | 628 | 8.70 | 6.30 | 415 | 34x22x14 |
| D325 | 3 5 11 Eng. | 4.50 | 2.50 | 3.00 | 2 | 492 796 900 | 13.60 22.00 24.80 | 10.40 17.40 18.70 | 455 510 455 | 37x26x31 41x25x29 |
| D340 | 7-1/2 | 5.25 | 3.00 | 3.50 | 2 | 786 | 34.50 | 26.00 | 770 | 40x28x36 |
| D50 | 10 18 Eng. | 6.00 | 3.25 | 3.50 | 2 | 859 900 | 49.20 51.50 | 33.40 34.50 | 980 1065 | 41x30x37 44x30x37 |
| D370 | 15 | 6.00 | 3.25 | 4.00 | 2 | 1060 | 69.40 | 49.30 | 1045 | 41x30x37 |
| D390 | 20 | 7.50 | 4.00 | 4.00 | 2 | 937 | 95.80 | 69.20 | 1320 | 48x35x41 |
| D5120 | 25 | 6.00 | 3.25 | 4.00 | V4 | 951 | 124.50 | 90.40 | 1530 | 63x34x38 |

* Single-Stage Model

† All compressor performance data is rated w/ 230 / 460, 60 Hz, 3ph, EPA high efficiency motors.

Quincy Tanked Mounted Industrial Compressors QR-25 Series



| Model No. | Horse Power | Bore L.P. (in.) | Bore H.P. (in.) | Stroke (in.) | No. Cyl. | RPM ** | CFM Piston Disp. | †ACFM ** | Std.Press. Switch Set (PSIG) | Tank Size (Gallons) | Approx. Shipping Weight (lb) | LxWxH (in.) |
|-----------|-------------|-----------------|-----------------|--------------|----------|------------|------------------|----------------|------------------------------|---------------------|------------------------------|----------------------------------|
| F210* | 1 1 ½ | 2.50 | - | 2.00 | 2 | 440 691 | 5.00 7.90 | 3.30 4.80 | 80-100 | 30 60 | 290 480 | 42x16x37 53x22x42 |
| V210 | 1 1 ½ | 2.50 | - | 2.00 | 2 | 440 691 | 5.00 7.90 | 3.30 4.80 | 80-100 | 30 | 275 | 27x18x47 |
| F310 | 2 | 3.50 | 2.00 | 2.50 | 2 | 628 | 8.70 | 6.30 | 135-175 | 60 | 560 | 53x22x48 |
| V310 | 2 | | | | | 628 | 8.70 | | | 80 | 600 | 31x24x75 |
| F325 | 3 5 | 4.50 | 2.50 | 3.00 | 2 | 459 796 | 13.60 22.00 | 10.40 17.40 | 135-175 | 60 80 120 | 710 770 975 | 53x26x51 68x26x50 73x26x56 |
| V325 | 3 5 | 4.50 | 2.50 | 3.00 | 2 | 492 796 | 13.60 22.00 | 10.40 17.40 | 135-175 | 60 80 | 675 775 | 36x26x78 36x26x78 |
| F340 | 7 ½ | 5.25 | 3.00 | 3.50 | 2 | 786 | 34.50 | 26.00 | 135-175 | 80 120 | 1095 1120 | 68x28x56 73x28x61 |
| F350 | 10 | 6.00 | 3.25 | 3.50 | 2 | 859 | 49.20 | 33.40 | 135-175 | 120 | 1225 | 73x30x62 |
| F370 | 15 | 6.00 | 3.25 | 4.00 | 2 | 1060 | 69.40 | 49.30 | 135-175 | 120 | 1285 | 73x30x62 |
| F390 | 20 | 7.50 | 4.00 | 4.00 | 2 | 877 | 95.80 | 67.00 | 135-175 | 120 200 | 1680 2010 | 73x35x66 77x35x72 |
| F5120 | 25 | 6.00 | 3.25 | 4.00 | V4 | 951 | 124.50 | 90.40 | 135-175 | 120 200 | 2140 2140 | 73x34x72 77x34x72 |

*Single-stage model

** RPM and ACFM shown at 100 PSI for single-stage models, 175 PSI for two-stage models

† All compressor performance data is rated with 230/460, 60 Hz, 3ph, EPAct high efficiency motors

Quincy QR-25 Duplex Tank-Mounted Industrial Compressor Units



All two-stage models come complete w/ Safe-Q-Lube system and spin-on oil filter. Auto start-stop mechanism includes Quincy's unique loadless starting. Standard equipment includes pressure gauge, pressure relief valve, tank drain, shut-off valve, enclosed belt guards, pressure switches, and inlet filters. Dual control is optional. Tanks conform to ASME and National Board specs, and Canadian approval w/ CRN number stamp; all units are equipped w/ electric motors of the highest quality. California 462L approval available upon request.

| Model | Horse Power 2X | Bore LP | Bore HP | Stroke | No. Cyl. | RPM | CFM Piston Disp. 2X | †ACFM 2X | Std. Press Switch Setting | Tank Size (Gallons) | Approx. Shipping Weight | LxWxH |
|--------|-------------------|------------|------------|--------|-------------|------|---------------------------|-------------|---------------------------------|---------------------------|-------------------------------|----------|
| FF210* | 1-1/2 | 2.50 | * | 2.00 | 2 | 691 | 7.90 | 4.80 | 80-100 | 60 | 590 | 52x29x43 |
| FF310 | 2 | 3.50 | 2.00 | 2.50 | 2 | 654 | 9.10 | 6.64 | 135-175 | 80 | 890 | 70x27x47 |
| FF325 | 3 | 4.50 | 2.50 | 3.00 | 2 | 492 | 13.60 | 10.40 | 135-175 | 80 | 1050 | 72x28x51 |
| | 5 | | | | | 796 | 22.00 | 17.40 | | 120 | 1280 | 77x30x56 |
| FF340 | 7-1/2 | 5.25 | 3.00 | 3.50 | 2 | 786 | 34.50 | 26.00 | 135-175 | 120 | 1675 | 78x30x61 |
| | | | | | | | | | | 200 | 2250 | 79x30x69 |
| FF350 | 10 | 6.00 | 3.25 | 3.50 | 2 | 859 | 49.20 | 33.40 | 135-175 | 120 | 2345 | 78x30x62 |
| | | | | | | | | | | 200 | 1965 | 79x30x69 |
| FF370 | 15 | 6.00 | 3.25 | 4.00 | 2 | 1060 | 69.40 | 49.30 | 135-175 | 200 | 2430 | 79x30x69 |
| FF390 | 20 | 7.50 | 4.00 | 4.00 | 2 | 937 | 95.80 | 69.20 | 135-175 | 240 | 3300 | 89x53x53 |
| FF5120 | 25 | 6.00 | 3.25 | 4.00 | V4 | 951 | 124.50 | 90.40 | 135-175 | 240 | 3750 | 90x75x72 |

† All compressor performance data is rated w/ 230/460, 60Hz, 2ph, EPAct high efficiency motors.
For climate control, refer to Quincy literature "QR-25 Pressure-Lubricated Air Compressors for Climate Control."

* Single-Stage Model

Atlas Copco LE 7 Compressor (Formerly LE 55)



This series utilizes state-of-the-art materials. The LE 7 Reciprocation Air Compressor delivers the coolest operating temperatures in the industry. This results in longer equipment life, higher quality air and lower maintenance cost.

OUTSTANDING FEATURES:

- * S/S Annular Valve Discs
- * Large Cooling Fan
- * Wear resistant Cylinders
- * Loadless Start
- * Forged Crank Shaft
- * Service Free Lubrication

| ATLAS COPCO | L100 AE-D Yanmar Diesel Engine | L100 AE-DE Yanmar Diesel Engine | GX390-QA Honda Engine | GX390-QAE Honda Gas Engine |
|------------------------------|--------------------------------------|---------------------------------------|--------------------------|----------------------------------|
| Horsepower (H.P.) | 9.1HP@3600 RPM | 9.1HP@3600 RPM | 13HP@3600 RPM | 13HP@3600 RPM |
| Displacement (cu.in.) | 24.78 cu. in. | 24.78 cu. in. | 23.7 cu. in. | 23.7 cu. in. |
| Bore | 3.39 in. | 3.39 in. | 3.39 in. | 3.39 in. |
| Stroke | 2.76 in. | 2.76 in. | 2.5 in. | 2.5 in. |
| Start | Recoil | Recoil/Electric | Recoil | Recoil/Electric |
| Fuel Tank | 1.45 gal. | 1.45 gal. | 1.85 gal. | 1.85 gal. |

Design Specifications:

The compressor and engine are supported with vibration isolators on a separate inner base and enclosed in a marine grade 6061 aluminum skid frame with a drip pan and a fully covered belt guard. This unit is easily moved with the 10" solid tires or the single point lift eye.

LE 7 Specifications:

Cu. Ft. Displacement.....48.52
Cu. Ft. A.C.F.M.....28.92
Max Wkg. Pressure.....150 psi

Approximate Dimensions:

Weight.....329(gas)/375(dsl)lbs*
Length.....44 in.
Width.....25 in.
Height.....32 in.

ADD 25 LBS FOR ELEC START
(BATTERY INCLUDED)

Unit Features:

- * S/S H.P. Unloader Line
- * Dry Type
- Air Intake Filters
- * Oil Site Compressor
- * Cushion Mounted
- Inner Base
- * Aluminum Frame – 6061
- * Belt Guard – 6061 Full Cover
- * S/S Surge Tank – ½" Outlet
- * Stainless Steel Axle

Aqua-Air Ordering Information:

Atlas Copco LE 7 w/Yanmar L100AE-D Diesel Engine.....AAI-LE7-L100AE-D-A
Atlas Copco LE 7 w/Yanmar L100AE-DE Diesel Engine.....AAI-LE7-L100AE-DE-A
Atlas Copco LE 7 w/Honda GX390-QA Gas Engine.....AAI-LE7-GX390-QA-A
Atlas Copco LE 7 w/Honda GX390-QAE Gas Engine.....AAI-LE7-GX390-QAE-A

Atlas Copco LE 5 Compressor (Formerly LE 40)



This series utilizes state-of-the-art materials. The LE 5 Reciprocating Air Compressor delivers the coolest operating temperatures in the industry. This results in longer equipment life, higher quality air and lower maintenance cost.

OUTSTANDING FEATURES:

- * S/S Annular Valve Discs
- * Large Cooling Fan
- * Wear Resistance Cylinders
- * Loadless Start
- * Forged Crank Shaft
- * Service Free Lubrication

| ATLAS COPCO | L90 AE-D Yanmar Diesel Engine | L90 AE-DE Yanmar Diesel Engine | GX340-QA Honda Engine | GX340-QAE Honda Gas Engine |
|------------------------------|-------------------------------------|--------------------------------------|--------------------------|----------------------------------|
| Horsepower (H.P.) | 9 HP@3600 RPM | 9 HP@3600 RPM | 11HP@3600 RPM | 11HP@3600 RPM |
| Displacement (cu.in.) | 23.62 cu. in. | 23.62 cu. in. | 20.6 cu. in. | 20.6 cu. in. |
| Bore | 3.31 in. | 3.31 in. | 3.2 in. | 3.2 in. |
| Stroke | 2.76 in. | 2.76 in. | 2.5 in. | 2.5 in. |
| Start | Recoil | Recoil/Electric | Recoil | Recoil/Electric |
| Fuel Tank | 1.45 gal. | 1.45 gal. | 1.85 gal. | 1.85 gal. |

Design Specifications:

The compressor and engine are supported with vibration isolators on a separate inner base and enclosed in a marine grade 6061 aluminum skid frame with a drip pan and a fully covered belt guard. This unit is easily moved with the 8" solid tires or the single point life eye.

LE 5 Specifications:

Cu. Ft. Displacement.....38.78
Cu. Ft. A.C.F.M.....18.63
Max Wkg. Pressure.....150 psi

Approximate Dimensions:

Weight.....235(gas)/273(dsl)lbs*
Length.....44 in.
Width.....25 in.
Height.....32 in.

ADD 25 LBS FOR ELEC START
(BATTERY INCLUDED)

Unit Features:

- * S/S H.P. Unloader Line
- * Dry Type
- Air Intake Filters
- * Oil Site Compressor
- * Cushion Mounted
- Inner Base
- * Aluminum Frame – 6061
- * Belt Guard – 6061 Full Cover
- * S/S Surge Tank – ½" Outlet
- * Stainless Steel Axle

Aqua-Air Ordering Information:

Atlas Copco LE 5 w/Yanmar L90AE-D Diesel Engine.....AAI-LE5-L90AE-D-A
Atlas Copco LE 5 w/Yanmar L90AE-DE Diesel Engine.....AAI-LE5-L90AE-DE-A
Atlas Copco LE 5 w/Honda GX340-QA Gas Engine.....AAI-LE5-GX340-QA-A
Atlas Copco LE 5 w/Honda GX340-QAE Gas Engine.....AAI-LE5-GX340-QAE-A

QUINCY MODEL 325 COMPRESSOR



The 325 Air Compressor Package features a Quincy 325, two stage, 2 cylinder, 200psi low pressure compressor with a choice of diesel or gas. Recoil starting is standard. All Aqua-Air compressor units feature the Quincy QRB which certifies that the unit has an oil **carry over rating of 2 parts per million**. This American-made product meets the highest standard of workmanship and performance in the industry.

| QUINCY QRB | L90EED-A Diesel Engine | L90EED-E-A Diesel Engine | GX340-QA Gasoline Engine | GX340-QAE Gasoline Engine |
|------------------------|------------------------|--------------------------|--------------------------|---------------------------|
| Horsepower (H.P.) | 9.1HP@3600RPM | 9.1HP@3600RPM | 13HP@3600RPM | 13HP@3600RPM |
| Displacement (cu. in.) | 24.78 cu. In. | 24.78 cu. in. | 23.7 cu. in. | 23.7 cu. in. |
| Bore | 3.39 in. | 3.39 in. | 3.39 in. | 3.39 in. |
| Stroke | 2.76 in. | 2.76 in. | 2.5 in. | 2.5 in. |
| Start | Recoil | Recoil/Electric | Recoil | Recoil/Electric |
| Fuel tank | 1.45 gal. | 1.45 gal. | 1.85 gal. | 1.85 gal. |

Design Specifications:

The compressor and engine are supported with vibration isolators on a separate inner base and enclosed in a marine grade 6061 aluminum skid frame with a drip pan and fully covered belt guard. This unit is easily moved with the 10" solid tires or the single point lift eye.

Quincy 325 Specifications:

Cu. Ft. Displacement...21.6 Cu. Ft.
A.C.F.M.....16.4
Max Working Pressure.....200psi

Approximate Dimensions:

Weight.....465(gas)/516(dsl) lbs.
Length.....51 in.
Width26.5 in.
Height.....36 in.
*add 25 lbs. for electric start (battery included)

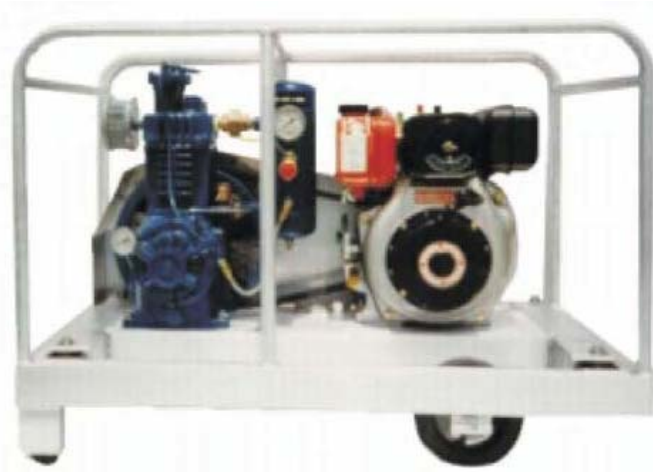
Unit Features:

- SS High Pressure Unloader Line
- Dry Type Air Intake Filters
- Oil Pressure Gauge
- Cushion Mounted Inner Base
- Aluminum Frame – 6061
- Belt Guard – 6061 Full Cover
- Stainless Steel Axle
- Stainless Steel Surge Tank

Aqua-Air Ordering Information and Pricing:

| | | |
|---------------------|---------------------------------------|---------------|
| AAI-325-L100VR-A | Yanmar Diesel Engine, Recoil Start | Call Aqua-Air |
| AAI-325-L100VE-A | Yanmar Diesel Engine, Electric Start | Call Aqua-Air |
| AAI-325-GX340-QA-A | Honda Gasoline Engine, Recoil Start | Call Aqua-Air |
| AAI-325-GX340-QAE-A | Honda Gasoline Engine, Electric Start | Call Aqua-Air |

Quincy Model 216 Compressor



The 216 Air Compressor Package features a Quincy 216, two stage, single cylinder, 100 psi low pressure compressor with a choice of diesel or gas. Recoil starting is standard. All *Aqua-Air* compressor units feature the Quincy QRB which certifies that the unit has an **oil carry over rating of 2 parts per million**. This American-made product meets the highest standard of workmanship and performance in the industry.

Quincy Model 216 Options:

| Quincy QRB | L60 AE-D Yanmar Diesel Engine | L60 AE-DE Yanmar Diesel Engine | GX240-QA Honda Gas Engine | GX240-QAE Honda Gas Engine |
|------------------------|-------------------------------------|--------------------------------------|------------------------------|----------------------------------|
| Horsepower (H.P.) | 6HP@3600 RPM | 6HP@3600RPM | 8HP@3600RPM | 8HP@3600 RPM |
| Displacement (cu. in.) | 16.66 cu. in. | 16.66 cu. in. | 14.8 cu. in. | 14.8 cu. in. |
| Bore | 2.95 in. | 2.95 in. | 2.9 in. | 2.9 in. |
| Stroke | 2.44 in. | 2.44 in. | 2.3 in. | 2.3 in. |
| Start | Recoil | Recoil/Electric | Recoil | Recoil/Electric |
| Fuel Tank | 3.5 qts. | 3.5 qts. | 1.60 gal. | 1.60 gal. |

Design Specifications:

The compressor and engine are supported with vibration isolators on a separate inner base and enclosed in a marine grade 6061 aluminum skid frame with a drip pan and fully covered belt guard. This unit is easily moved with 8" solid tires or the single point lift eye.

Quincy 216 Specifications:

Cu. Ft. Displacement.....18.5
Cu. Ft. A.C.F.M.....10.7
Max Wkg. Pressure.....100 psi

Approximate Dimensions:

Weight.....304(gas)/330(dsl) lbs.
Length.....44 in.
Width.....25 in.
Height.....31 in.

ADD 25 LBS FOR ELEC START
(BATTERY INCLUDED)

Unit Features:

- * S/S H.P. Unloader Line
- * Dry Tape Air Intake Filters
- * Oil Pressure Gauge
- * Cushion Mounted Inner Base
- * Aluminum frame – 6061
- * Belt Guard – 6061 Full Cover

Aqua-Air Ordering Information

Quincy 216 w/ Yanmar L60AE-D Diesel Engine.....AAI-216-L60AE-D-A
Quincy 216 w/ Yanmar L60AE-D Diesel Engine.....AAI-216-L60AE-DE-A
Quincy 216 w/ Honda GX240-QA Gas Engine.....AAI-216-GX240-QA-A
Quincy 216 w/ Honda GX240-QAE Gas Engine.....AAI-216-GX240-QAE-A

Specifications are subject to change without notice.

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AAI Model 1250 Filter



**NOTE: This Filter System
does not remove
carbon monoxide.**

| Specifications and Standard Features | | |
|--|---|---|
| Three Stage Filtration | | |
| 1" NPT Full Flow Ports | | |
| Hard Dia Cast Aluminum Housing and Bowls | | |
| Large Liquid Capacity Bowls | | |
| Automatic Bowl Drains with Protective Particle Screens | | |
| Overall Filtration Result | Solid and liquid removal in excess of 99.99% | |
| | Oil and water vapor removal in excess of 99.99999% | |
| | The AAI 1250 will exceed all clean air standards established by Compressed Air | |
| Filtration System Plumbing Design | Air-In | Two ½" 600 psi working pressure ¼ turn ball valves allow entrance of both compressor air and alternate emergency air. |
| | Air-Out | Two ½" 600 psi working pressure ¼ turn ball valves allow exit of filtered air for use on both Diver Station and Decompression Chamber Prefilter and Intermediate filter elements are designed for a working life of up to 6-1 |
| Fittings and Fasteners: | All fittings are 2000 lb. forged high pressure brass | |
| | All fasteners are of Stainless Steel as are valve handles and nuts | |
| Filter Packaging | In an aluminum frame of rugged construction for offshore use and ease of mobility. All filter components fit within and are protected by the frame. | |
| Element Life | Prefilter and Intermediate filter elements are designed for a working life of up to 6-12 months under reasonable operating conditions and maintenance. | |
| | Final Filtration Element is designed to provide full protection for a period of up to twelve months under reasonable operating conditions and maintenance | |
| Series Flow Rate at final filter outlet | 500 SCFM @ 250 psi | |
| Maximum Recommended Operating Conditions | 250 psi (18 KG/CM ²) | |
| | Maximum Temp. | 175°F (80°C) |
| | Minimum Temp. | 20°F (-6°C) |
| Dimensions | Length | 30" |
| | Width | Top: 8" Bottom: 12" |
| | Height | 21-1/4" |
| Tubular Carrying Handle | | |

Low Pressure Alarm Models 8206 and 8206-R



8206 Pressure Alarm Monitor

The Model 8206 is for pressure alarm applications and is suitable for maximum systems service pressures of up to 4500 psi. See chart on the following page Ranges "A through K" excluding "J" which is only available in the remote version.

Specifications

| | |
|---------------------------|--|
| 8206..... | # 4 37° JIC |
| 8206-R..... | 1/4" male NPT |
| Power..... | 9 V Alkaline Battery |
| Approx. Battery Life..... | 40 hours |
| Housing..... | Die cast aluminum, epoxy powder coated with black silk screened graphics |

Dimensions

| | |
|--------------------|--------------|
| Height..... | 7.4 in. |
| Width..... | 4.7 in. |
| Depth..... | 2.2 in. |
| Weight-8206..... | 2 lb. 8 oz. |
| Weight-8206-R..... | 2 lb. 14 oz. |

Amron is pleased to introduce two pressure alarm monitors. Typical application is for monitoring the output of a compressor or air storage bank and alert the operator of a decrease in air pressure.

The monitors are self contained modular units, which when connected to a pressure source will sound an alarm when the pressure decreases below the set point.

Both a visual and audio indication is provided. A two color L.E.D. on the front panel indicates green when the pressure is "normal" or above the set point, and changes to red when the pressure drops below the preset pressure level. At the point at which the pressure drops below the set point, an audio alarm with a pulsing tone of 2900 Hz, at a level of 90 dB (A) @ 2 ft. is also activated.



8206-R Remote Pressure Alarm Monitor

The Model 8206-R has a remote pressure sensing switch with 15 feet of cable. The 8206-R is suitable for all ranges.



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Low Pressure Alarm Cont. Models 8206 and 8206-R

Ordering Information

(C) = Range Code

Example 8206-R – D

Remote Alarm with max. inlet pressure of 1000 psi and
Range of 22.5 to 112 psi. Trip point set at 100 psi

Note = Trip points are easily field adjustable over the range

| (C) Range Code | Trip Point Ranges | | Approx. Actuation Value | Maximum Pressure (PSI) |
|----------------------|-------------------|---------|-------------------------------|------------------------------|
| | Min/psi | Max/psi | | |
| A | 2.5 | 12.8 | .5 – 2.2 | 1000 |
| B | 5 | 31 | 1.0 – 4.0 | 1000 |
| C | 8.5 | 44 | 1.5 – 6.0 | 1000 |
| D † | 22.5 | 112 | 2.5 – 13 | 1000 |
| E | 70.0 | 220 | 10 – 30 | 1000 |
| F | 110 | 440 | 20 – 60 | 1000 |
| G † | 190 | 450 | 60 – 150 | 4500* |
| H | 360 | 1450 | 70 – 250 | 4500* |
| I | 1450 | 3900 | 200 – 500 | 4500* |
| J** | 3650 | 6700 | 350 - 800 | 12000 |
| Vacuum | | | | |
| K | 1" HG | 28" HG | 1-6" HG | 30 |

* Max. Pressures to 7000 psi Remote Versions only.

** Available in Remote Version only

† Standard ranges in stock

“D” = Factory set trip point 100 psi

“G” = Factory set trip point 400 psi

Other ranges are special order and require six weeks delivery.

Capitano II and Mariner II



MII/DV-D
Diesel Engine Drive

Three stage, heavy duty portable models are available in a choice of electric motor, gasoline or diesel engine drive.

Standard Features:

- BAUER P0 Breathing Air Purification System
- Final Pressure Switch (DV-E)
- Stainless Steel Intercoolers and Aftercooler
- Inlet Filter with Flexible Intake Hose on all DV Engine Drive
- Vibration Isolators
- High Temperature Switch (DV-E and DV-G)
- Motor Starter with NEMA 12/13 Enclosure (E/DV)
- 5 Foot Fill Hose Assembly with SCUBA Yoke, Bleed Valve and Pressure Gauge

Optional Features:

- Visual CO/Moisture Monitor
- Final Pressure Switch for Gasoline Engine
- Hourmeter/Tachometer (gasoline engine drive units)
- Vibration Type Hourmeter (diesel engine drive units)
- Purification Upgrade to P31
- HONDA Gasoline Engine

*Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

**Compressor capacity referenced to standard inlet conditions.

E1 = Single Phase Electric, 230 VAC/60 Hz

E3=Three Phase Electric, 230/460 VAC/60 Hz

G= Gasoline D=Diesel

Dimensions and weights are approximate and subject to change

| MODEL | CHARGING RATE SCFM* | FAD ** | HP | RPM | DIMENSION S L – W – H | WEIGHT LBS. |
|---------------|---------------------------|-----------|-----|------|-----------------------------|----------------|
| C II/DV-E1/E3 | 6.0 | 5.0 | 5.0 | 1250 | 46 – 22 – 24 | 280 |
| C II/DV-G | 6.0 | 5.0 | 5.0 | 1250 | 46 – 22 – 24 | 237 |
| C II/DV-D | 6.0 | 5.0 | 6.0 | 1250 | 46 – 22 – 24 | 277 |
| M II/DV-E1/E3 | 8.4 | 7.0 | 7.5 | 1250 | 46 – 22 – 24 | 285 |
| M II/DV-G | 8.4 | 7.0 | 8.0 | 1250 | 46 – 22 – 24 | 260 |
| M II/DV-D | 8.4 | 7.0 | 6.0 | 1250 | 46 – 22 – 24 | 278 |

Classic II **Horizontal Design** **5-10 HP – Electric Motor Drive**

Classic II 5-10 HP Series combines compressor and air purification in a horizontal design which accommodates a 5000 or 6000 PSIG three or four stage compressor. Discharge capacities range from 5.0 SCFM Charge Rate up to 13.0 SCFM Charge Rate.



CLASSIC II – ES Series
Open Version

STANDARD FEATURES – ES – ECONOMY SERIES

- Open Frame Design
- UL® Listed Electrical Assembly
- PLC Based Controller
- NEMA 4 Electrical Enclosure
- Final Pressure Switch
- Final Stage Pressure Gauge
- Low Oil Pressure Switch
- Oil Pressure Gauge
- Purification System Pressure Gauge
- High Temperature Switch
- Hourmeter

ADD TO ABOVE STANDARD FEATURES – LS – LUXURY SERIES

- Automatic Condensate Drain System with Float Switch in Condensate Drain Reservoir
- Upgrades to P43 with SECURUS Purification System Monitor
- Aesthetically Pleasing Cabinet Enclosure with Complete Gauge Panel including Pressure Gauges



CLASSIC II – LS SERIES
Enclosed Version



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Classic II

Horizontal Design

5-10 HP – Electric Motor Drive

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM* | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H | WEIGHT LBS. |
|-------------------------|------------------------|---------------------------|-----------|-----|------|------------------------|-------------------------|----------------|
| 5000 PSI SERVICE | | | | | | | | |
| CII-E1 | 3 | 6.0 | 5.0 | 5 | 1250 | P0 | 53 – 35 – 33 | 690 |
| CII-E3 | 3 | 6.0 | 5.0 | 5 | 1250 | P0 | 53 – 35 – 33 | 690 |
| MII-E1 | 3 | 8.4 | 7.0 | 7.5 | 1250 | P31 | 53 – 35 – 33 | 705 |
| MII-E3 | 3 | 8.4 | 7.0 | 7.5 | 1250 | P31 | 53 – 35 – 33 | 705 |
| 6000 PSI SERVICE | | | | | | | | |
| H5-E1 | 3 | 5.0 | 4.0 | 5 | 1050 | P41 | 53 – 35 – 33 | 710 |
| H5-E3 | 3 | 5.0 | 4.0 | 5 | 1050 | P41 | 53 – 35 – 33 | 710 |
| H10-E1 | 4 | 9.7 | 8.1 | 7.5 | 1180 | P41 | 53 – 35 – 33 | 745 |
| H10-E3 | 4 | 9.7 | 8.1 | 7.5 | 1180 | P41 | 53 – 35 – 33 | 745 |
| H13-E1 | 4 | 13.0 | 10.8 | 10 | 1420 | P41 | 53 – 35 – 33 | 750 |
| H13-E3 | 4 | 13.0 | 10.8 | 10 | 1420 | P41 | 53 – 35 – 33 | 750 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

E3 = Three Phase Electric, 230/460 VAC/60 Hz

Other voltages available on request.

Dimensions and weights are approximate and are subject to change

Classic II

Horizontal Design

15-20 HP – Electric Motor Drive

If your need is for greater air requirements, **Classic II** 15-20 HP Series combines compressor and air purification in a horizontal design which accommodates a 5000 or 6000 PSIG four or five stage compressor. Discharge capacities range from 19.2 SCFM Charge Rate up to 26.4 SCFM Charge Rate.



CLASSIC II – ES Series
Open Version



Classic II – LS Series
Enclosed Version

Standard Features – ES – Economy Series

- Open Frame Design
- P42 Purification System
- Automatic Condensate Drain System with Float Switch in Condensate Drain Reservoir
- UL® Listed Electrical Assembly
- PLC Based Controller
- NEMA 4 Electrical Enclosure
- Final Pressure Switch
- Final Stage Pressure Gauge
- Low Oil Pressure Switch
- Oil Pressure Gauge
- Purification System Pressure Gauge
- High Temperature Switch
- Inlet Filter Maintenance Indicator
- Hourmeter

Add to Above Standard Features – LS – Luxury Series

- SECURUS® Electronic Moisture Monitoring
- Aesthetically Pleasing Cabinet Enclosure with Complete Gauge Panel including Interstage Pressure Gauges

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM* | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H INCHES | WEIGHT LBS. |
|-------------------------|------------------|---------------------|--------|------|------|---------------------|-----------------------------|-------------|
| 5000 PSI SERVICE | | | | | | | | |
| K20-E3 | 4 | 21.0 | 17.5 | 15.0 | 1300 | P42 | 58 – 35 – 38 | 975 |
| K26-E3 | 4 | 26.4 | 22.0 | 20.0 | 1350 | P42 | 58 – 35 – 38 | 1055 |
| 6000 PSI SERVICE | | | | | | | | |
| H19-E3 | 5 | 19.2 | 16.0 | 15.0 | 1050 | P42 | 58 – 35 – 38 | 1065 |
| H25-E3 | 5 | 25.2 | 21.0 | 20.0 | 1300 | P42 | 58 – 35 – 38 | 1075 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

E3 = Three Phase Electric, 230/460 VAC/60 Hz.

Other voltages available on request

Dimensions and weights are approximate and are subject to change.

Junior II

Junior II lightweight portables, complete with air purification system and fill hose, are safe, reliable three stage compressors designed for serious sport divers.

Available in single phase 115/230 VAC and three phase 230/460 VAC electric motor, gasoline or diesel engine drive. Capacities range from 2.9 to 4.3 SCFM charging rate.



JR II-EY
*Electric Motor Drive
Yachting Package*

Supplied with Heavy Duty Stainless Steel Base, Stainless Steel Inner Frame, Magnetic Starter, Power-On Light, High Temperature Switch, Final Pressure Switch, Hourmeter, On/Off Switch, Automatic Condensate Drain and NEMA 4X Enclosure



JR II-E3
Electric Motor Drive



JR II-G
*SUBARU Gasoline
Engine Drive*



JR II-D
Diesel Engine Drive

Standard Features:

- BAUER P0 Breathing Air Purification System
- Belt Guard Designed to Meet OSHA Guidelines
- Inlet Filter
- Vibration Isolators
- High Temperature Switch (*JR II-G*)
- 5 Foot Fill Hose Assembly with SCUBA Yoke, Bleed Valve and Pressure Gauge

Optional Features:

- Visual CO/Moisture Monitor Indicator
- Final Pressure Switch for Gasoline Engine
- Hourmeter/Tachometer (*gasoline engine drive*)
- HONDA Gasoline Engine

| Model | Charging Rate SCFM* | FAD ** | HP | RPM | Dimensions. L – W – H | Weight. Lbs. |
|---------------|------------------------|-----------|-----|------|--------------------------|-----------------|
| JR II-E1/115 | 2.9 | 2.5 | 2.0 | 1500 | 26 – 14 – 17 | 92 |
| JR II-E1 | 3.9 | 3.2 | 3.0 | 2100 | 26 – 14 – 17 | 89 |
| JR II-E3 | 3.9 | 3.2 | 3.0 | 2100 | 26 – 14 – 17 | 111 |
| JR II-G | 4.3 | 3.6 | 5.0 | 2300 | 30 – 14 – 17 | 92 |
| JR II-D | 4.3 | 3.6 | 4.0 | 2300 | 42 – 19 – 19 | 165 |
| JR II-E1Y/115 | 2.9 | 2.5 | 2.0 | 1500 | 32 – 18 – 23 | 130 |
| JR II-E1Y | 3.9 | 3.2 | 3.0 | 2100 | 32 – 18 – 23 | 130 |
| JR II-E3Y | 3.9 | 3.2 | 3.0 | 2100 | 32 – 18 – 23 | 130 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG

** Compressor capacity referenced to standard inlet conditions.

E1/115 = Single Phase Electric, 115 VAC/60 Hz

E1 = Single Phase Electric, 230 VAC/60 Hz

E3 = Three Phase, Electric, 230/460 VAC/60 Hz

Y = Yachting Package G = Gasoline

*Dimensions and
weights are
approximate and are
subject to change*

Note: JR II is designed for Filling an Individual SCUBA or SCBA.
It is neither designed nor intended for filling cascade storage
systems of any kind.

Specifications are subject to change without notice.

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Maxi Verticus Enclosed Design 5000/6000 – Four and Five Stage

If your need is for greater air requirements, **Maxi Verticus** provides capacity ranges from 19.0 to 42.0 SCFM charging rate with discharge pressures up to 6000 PSIG. The vertical cabinet design combines compressor, Securus® Electronic Moisture Monitoring System in a sound attenuated vertical enclosure designed for diminishing operating sound level to less than **79 dBA**.

Standard Features – 5000/6000 PSIG

- Bauer PLC Based Controller with Touchpad Controller and Integrated Knowledge Interface
- Bauer Breathing Air Purification System
- Securus® Electronic Moisture Monitoring
- Automatic Condensate Drain System with Non-Corrosive Condensate Reservoir and Integrated Float Switch. Automatic “Full” Indication and Compressor Shutdown
- High Temperature and Low Oil Pressure Switch with Fault Light
- UL® Listed Electrical Assembly with NEMA 4 Enclosure
- Pressure Switch for Automatic Start/Stop Control
- Vertically Hinged Front Operations Panel
- E-Stop Button
- Vertical Hinged and Lift-Off Side Maintenance Access Doors
- Inlet Filter Maintenance Indicator



MVT26-E3
Electric Motor Drive

Optional Features – Factory Installed

- CO Monitor with Remote Display
- Audible Alarms for Safety Shutdowns
- Other Options Available upon Request

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM* | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H INCHES | WEIGHT LBS. |
|-------------------------|------------------|---------------------|--------|------|------|---------------------|-----------------------------|-------------|
| 5000 PSI SERVICE | | | | | | | | |
| MVT720-E3 | 4 | 21.0 | 17.5 | 15.0 | 1300 | P5 SECURUS | 34 – 52 – 66 | 1050 |
| MVT26-E3 | 4 | 26.4 | 22.0 | 20.0 | 1350 | P5 SECURUS | 34 – 52 – 66 | 1150 |
| MVT42-E3† | 4 | 42.0 | 35.0 | 30.0 | 1300 | P10 SECURUS | 44 – 52 – 72 | 1500 |
| 6000 PSI SERVICE | | | | | | | | |
| MVT19H-E3 | 5 | 19.2 | 16.0 | 15.0 | 1050 | P5 SECURUS | 34 – 52 – 66 | 1125 |
| MVT25H-E3 | 5 | 25.2 | 21.0 | 20.0 | 1300 | P5 SECURUS | 34 – 52 – 66 | 1200 |
| MVT35H-E3† | 4 | 35.9 | 29.8 | 30.0 | 1200 | P10 SECURUS | 44 – 52 – 72 | 1530 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG. E3 = Three Phase Electric, 230/460 VAC/60 Hz

** Compressor capacity referenced to standard inlet conditions. Other voltages available on request

† 30 HP units are in a cabinet other than depicted.

Dimensions and weights are approximate and are subject to change.

Mini Verticus Enclosed Design 5000/6000 PSIG – Three and Four Stage



mVT13H-E3
Electric Motor Drive

Mini Verticus combines compressor, air purification and Securus® Electronic Moisture Monitoring System in a space saving, sound attenuated vertical design to diminish operating sound level to approximately **70 dBA**. Capacities range from 5.0 to 13.0 SCFM charging rate with discharge pressures up to 6000 PSIG.

Standard Features – 5000/6000 PSIG

- Through 10 HP, Electric Motor Drive
- Bauer PLC Based Controller with Touch Pad Control (TPC) Four-Line Text Display
- Bauer Breathing Air Purification System with Securus® Electronic Moisture Monitoring
- Automatic Condensate Drain System with Non-Corrosive Condensate Reservoir and Integrated Float Switch. Automatic “Full” Indication and Compression Shutdown
- High Temperature and Low Oil Pressure Switch
- Instrument Panel with Final Pressure and Oil Pressure Gauges
- UL® Listed Electrical Assembly with NEMA 4 Enclosure
- Pressure Switch for Automatic Start/Stop Control
- E-Stop Button

Optional Features – Factory Installed

- CO Monitor
- Audible Alarms for Safety Shutdowns
- Locally Mounted Compressor Interstage PSI Gauges

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H INCHES | WEIGHT LBS. |
|-------------------------|------------------|--------------------|--------|------|------|---------------------|-----------------------------|-------------|
| 5000 PSI SERVICE | | | | | | | | |
| mVT6-E1/E3 | 3 | 6.0 | 5.0 | 5.0 | 1250 | P2 SECURUS | 29 – 49 – 58 | 880 |
| mVT8-E1/E3 | 3 | 8.4 | 7.0 | 7.5 | 1250 | P2 SECURUS | 29 – 49 – 58 | 890 |
| 6000 PSI SERVICE | | | | | | | | |
| mVT5H-E1/E3 | 3 | 5.0 | 4.0 | 5.0 | 1050 | P2 SECURUS | 29 – 49 – 58 | 880 |
| mVT10H-E1/E3 | 4 | 9.7 | 8.1 | 7.5 | 1180 | P2 SECURUS | 29 – 49 – 58 | 900 |
| mVT13H-E1/E3 | 4 | 13.0 | 10.8 | 10.0 | 1420 | P2 SECURUS | 29 – 49 – 58 | 950 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

E1 = Single Phase Electric, 230 VAC/60 Hz E3 = Three Phase Electric, 230/460 VAC/60 Hz

Other voltages available on request.

Dimensions and weights are approximate and are subject to change.

Oceanus



Oceanus-G
*Shown with Optional
HONDA Gasoline Engine Drive*

Standard Features:

- Bauer P0 Breathing Air Purification System
- Belt Guard Designed to Meet OSHA Guidelines
- Sturdy, Long Lasting Low Pressure Oil Pump
- Large Oil Pump Allows Shipboard Inclination of 30° (20° gas drive)
- Capable of Filling/Maintaining up to a Two Cylinder 5000 PSI DOT Storage System
- High Temperature Switch (OCEANUS-G)
- Corrosion-Resistant Coolers
- Inlet Filter
- Vibration Isolators
- 5 Foot Fill Hose Assembly with SCUBA Yoke, Bleed Valve and Pressure Gauge
- Stainless Steel Frame

Optional Features:

- Visual CO/Moisture Monitor
- Final Pressure Switch for Gasoline Engine
- Hourmeter/Tachometer (*gasoline drive units*)
- Available with Automatic Condensate Drain (ACD) and Final Air Pressure Switch Shutdown

| MODEL | CHARGING RATE SCFM* | FAD ** | HP | RPM | DIMENSIONS L – W – H | WEIGHT LBS. |
|-------------|---------------------------|-----------|-----|------|-------------------------|----------------|
| OCEANUS-E1 | 4.9 | 4.1 | 5.0 | 2150 | 26 – 17 – 17 | 111 |
| OCEANUS-E3 | 4.9 | 4.1 | 5.0 | 2150 | 26 – 17 – 17 | 120 |
| OCEANUS-G | 4.9 | 4.1 | 5.0 | 2150 | 30 – 14 – 17 | 96 |
| OCEANUS-E1Y | 4.9 | 4.1 | 5.0 | 2150 | 32 – 18 – 23 | 130 |
| OCEANUS-E3Y | 4.9 | 4.1 | 5.0 | 2150 | 32 – 18 – 23 | 135 |

Engine Driven 5000/6000 PSIG – Open Horizontal

The **Horizontal Engine Drive Compressor** for recharging SCBA or SCUBA cylinders combines compressor, purification system, and engine driven in frame designs specific to the requirements of the engine drive/compressor block assembly.



H25-D
Diesel Engine Drive



H10-D
Diesel Engine Drive

STANDARD FEATURES – THREE STAGE

- High Temperature Shutdown Switch (*gas drive*)
- BAUER Breathing Air Purification System
- Air Cooled Diesel
- PLC Control and Centrifugal Clutch (*when you opt for electric start package*)

ADD TO ABOVE

- High Temperature Switch (*diesel drive*)
- Final Air Pressure Switch
- Gauge Panel including hourmeter
- Electric Start Package with Speed Control Solenoid
- MITSUBISHI Water Cooled Engine
- PLC with NEMA 4 Enclosure
- Electric Clutch, Oil Switch and Hourmeter
- Automatic Condensate Drain (*standard K26/K42/K60*)

ALL OF THE ABOVE... PLUS

- SECURUS® Electronic Moisture Monitoring
- Automatic Condensate Drain (*all models*)



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Engine Driven 5000/6000 PSIG – Open Horizontal

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM* | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L-W-H INCHES | WEIGHT LBS. |
|---|------------------------|---------------------------|-----------|------|------|------------------------|-------------------------------|----------------|
| THREE STAGE – 5000 PSI SERVICE | | | | | | | | |
| CII-G | 3 | 6.0 | 5.0 | 5.0 | 1250 | P0 | 60 – 28 – 34 | 700 |
| CII-D | 3 | 6.0 | 5.0 | 6.0 | 1250 | P0 | 60 – 28 – 34 | 700 |
| MII-G | 3 | 8.4 | 7.0 | 8.0 | 1250 | P31 | 60 – 28 – 34 | 725 |
| MII-D | 3 | 8.4 | 7.0 | 10.0 | 1250 | P31 | 60 – 28 – 34 | 725 |
| FOUR STAGE – 5000 PSI SERVICE | | | | | | | | |
| K20-G | 4 | 21.0 | 17.5 | 20.0 | 1300 | P4 | 63 – 49 – 46 | 1500 |
| K20-D | 4 | 21.0 | 17.5 | 27.0 | 1300 | P4 | 63 – 49 – 46 | 1500 |
| K26-D | 4 | 26.4 | 22.0 | 27.0 | 1350 | P5 | 63 – 49 – 46 | 1500 |
| K42-D | 4 | 42.0 | 35.0 | 44.0 | 1300 | P10 | 63 – 49 – 46 | 3200 |
| K60-D | 4 | 60.0 | 50.0 | 60.0 | 1350 | P12 SECURUS | 112 – 52 – 53 | 3750 |
| THREE / FOUR / FIVE STAGE – 6000 PSI SERVICE | | | | | | | | |
| H5-G | 3 | 5.0 | 4.0 | 5.0 | 1050 | P31 SECURUS | 60 – 28 – 34 | 700 |
| H5-D | 3 | 5.0 | 4.0 | 6.0 | 1050 | P31 SECURUS | 60 – 28 – 34 | 700 |
| H10-G | 4 | 9.7 | 8.1 | 11.0 | 1180 | P31 SECURUS | 60 – 28 – 34 | 750 |
| H10-D | 4 | 9.7 | 8.1 | 10.0 | 1180 | P31 SECURUS | 60 – 28 – 34 | 750 |
| H13-G | 4 | 13.0 | 10.8 | 13.0 | 1420 | P31 SECURUS | 60 – 28 – 34 | 750 |
| H13-D | 4 | 13.0 | 10.8 | 18.0 | 1420 | P2 SECURUS | 63 – 49 – 46 | 1300 |
| H19-D | 5 | 19.2 | 16.0 | 27.0 | 1050 | P5 SECURUS | 63 – 49 – 46 | 1500 |
| H25-D | 5 | 25.2 | 21.0 | 27.0 | 1300 | P5 SECURUS | 63 – 49 – 46 | 1500 |
| H35-D | 4 | 35.9 | 29.8 | 44.0 | 1200 | P10 SECURUS | 95 – 52 – 49 | 3200 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

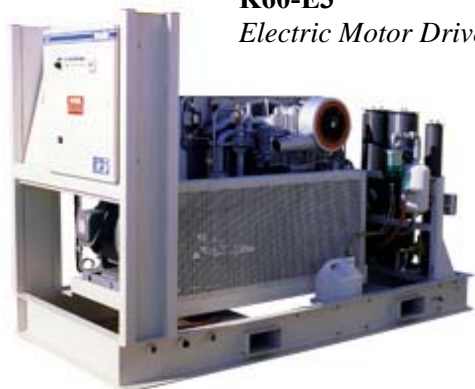
G = Gasoline Engine D = Diesel Engine Alternate drives available

Dimensions and weights are approximate and are subject to change.

Open Horizontal 5000/6000 PSIG – Electric Motor Drive

These compressors set the standard for larger capacity air requirements. All models are available in electric motor drive above 20 HP. Capacities range from 27.5 to 145.0 SCFM charging rate with discharge pressures up to 6000 PSIG.

K60-E3
Electric Motor Drive



STANDARD FEATURES – 5000 PSIG

- BAUER Breathing Air Purification System
- Electric Motor
- Magnetic Motor Starter with Overload Protection and Manual Reset
- Gauge Panel
- Compressor High Temperature Shutdown and Panel Mounted Fault Light
- Panel Mounted Power-On Light
- Automatic Condensate Drain System with Reservoir
- Belt Guard Designed to Meet OSHA Specifications
- UL® Listed Electrical Assembly

6000 PSI STANDARD FEATURES INDENTICAL TO 5000 PSI EXCEPT:

- SECURUS® Electronic Moisture Monitoring
(*standard all models*)

OPTIONAL FEATURES – 5000/6000 PSI

- CO Monitor
- High-Low Fill Assembly
- Dual Pressure Switch
- Other Optional Features Available on Request

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM* | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H INCHES | WEIGHT LBS. |
|-------------------------|------------------------|---------------------------|-----------|-------|------|------------------------|-----------------------------------|----------------|
| 5000 PSI SERVICE | | | | | | | | |
| K36-E3 | 4 | 36.0 | 30.0 | 25.0 | 1000 | P10 | 80 – 32 – 48 | 1100 |
| K42-E3 | 4 | 42.0 | 35.0 | 30.0 | 1300 | P10 | 80 – 32 – 48 | 1200 |
| K60-E3 | 4 | 60.0 | 50.0 | 40.0 | 1350 | P12 SECURUS | 92 – 44 – 60 | 2800 |
| K80-E3 | 4 | 80.4 | 67.0 | 60.0 | 1225 | P14 SECURUS | 114 – 82 – 66 | 4000 |
| K145-E3 | 4 | 145.0 | 121.0 | 100.0 | 1125 | P14 SECURUS | 114 – 82 – 66 | 5000 |
| 6000 PSI SERVICE | | | | | | | | |
| H27-E3 | 4 | 27.5 | 23.0 | 25.0 | 1000 | P10 SECURUS | 80 – 32 – 48 | 1100 |
| H35-E3 | 4 | 35.9 | 29.8 | 30.0 | 1200 | P10 SECURUS | 80 – 32 – 48 | 1200 |
| H80-E3 | 5 | 80.4 | 67.0 | 60.0 | 1180 | P14 SECURUS | 114 – 56 – 66 | 4000 |
| H96-E3 | 5 | 96.0 | 80.0 | 75.0 | 1100 | P14 SECURUS | 114 – 56 – 66 | 4500 |
| H132-E3 | 5 | 132.0 | 110.0 | 100.0 | 1500 | P14 SECURUS | 114 – 56 – 66 | 5000 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

E3 = Three Phase Electric, 230/460 VAC/60 Hz

Other voltages available on request

Dimensions and weights are approximate and are subject to change.

Open Vertical Design 5000/6000 PSIG – Electric Motor Drive



MII V-E1
Electric Motor Drive

Our line of open vertical packages combines compressor and air purification in a budget conscious space saving open vertical design. Capacities ranges from 5.0 to 60.0 SCFM charging rate with discharge pressures up to 6000 PSIG.

Standard Features:

- Bauer Breathing Air Purification System
- Final and Oil Pressure Gauges, E-Stop Button, High Temperature/Low Oil Pressure Switch
- Beltguard Designed to Meet OSHA Guidelines
- Final Pressure Switch
- Bauer PLC Based Controller with Touch Pad Control (TPC), Four-Line Text Display
- UL® Listed Electrical Assembly with NEMA 4 Enclosure and Hourmeter

Optional Features:

- Automatic Condensate Drain (*standard on 6000 PSI units*)
- Purification System Upgrades
- Securus® Electronic Moisture Monitoring (*standard on 6000 PSI units*)
- Locally Mounted Interstage Pressure Gauges
- CO Monitor
- Air Storage and Containment Fill Stations Allows for Customization to Meet Specific Requirements

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM* | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H INCHES | WEIGHT LBS. |
|-------------------------|------------------|---------------------|--------|------|------|---------------------|-----------------------------|-------------|
| 5000 PSI SERVICE | | | | | | | | |
| CII V-E1/E3 | 3 | 6.0 | 5.0 | 5.0 | 1250 | P0 | 44 – 29 – 56 | 610 |
| MI I V-E1/E3 | 3 | 8.4 | 7.0 | 7.5 | 1250 | P31 | 44 – 29 – 56 | 626 |
| K36V-E3† | 4 | 36.0 | 30.0 | 25.0 | 1000 | P10 | 42 – 64 – 72 | 1100 |
| K42V-E3† | 4 | 42.0 | 35.0 | 30.0 | 1300 | P10 | 42 – 64 – 72 | 1200 |
| K60V-E3† | 4 | 60.0 | 50.0 | 40.0 | 1350 | P12 SECURUS | 42 – 83 – 72 | 2800 |
| 6000 PSI Service | | | | | | | | |
| H5V-E1/E3 | 3 | 5.0 | 4.0 | 5.0 | 1050 | P2 SECURUS | 44 – 29 – 56 | 630 |
| H27V-E3† | 4 | 27.5 | 23.0 | 25.0 | 1000 | P10 SECURUS | 42 – 64 – 72 | 1100 |
| H35V-E3† | 4 | 35.9 | 29.8 | 30.0 | 1200 | P10 SECURUS | 42 – 64 – 72 | 1300 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

† 25 HP, or larger, units are in a cabinet other than depicted.

E1 = Single Phase Electric, 230 VAC/60 Hz. E3 = Three Phase Electric, 230/460 VAC/60 Hz

Other voltages available on request.

Dimensions and weights are approximate and are subject to change.

Vertecon High Pressure Breathing Air System

If your need is for greater air requirements, **Vertecon** provides capacity ranges from 9.7 to 26.4 SCFM charging rate with discharge pressures up to 6000 PSIG. The vertical cabinet design combines compressor and air purification in a space saving open vertical design.

STANDARD FEATURES – 5000/6000 PSI

- Bauer Breathing Air Purification System
- Automatic Condensate Drain System (*15 and 20 HP units*)
- High Temperature/Low Oil Pressure Switches with Panel Mounted Light
- Bauer PLC Based Controller
- UL® Listed Electrical Assembly with NEMA 4 Enclosure
- E-Stop button
- Hourmeter

OPTIONAL FEATURES

- Purification Upgrade
- CO Monitor
- Securus® Electronic Moisture Monitoring
- Automatic Condensate Drain (ACD) (*7.5 and 10 HP units*)
- Interstage Pressure Gauges (*locally mounted*)
- Other Features Available on Request



H25VTC-E3
Electric Motor Drive

| MODEL | NUMBER OF STAGES | CHARGING RATE SCFM | FAD ** | HP | RPM | PURIFICATION SYSTEM | DIMENSIONS L – W – H INCHES | WEIGHT LBS. |
|-------------------------|------------------------|--------------------------|-----------|------|------|------------------------|-----------------------------------|----------------|
| 5000 PSI SERVICE | | | | | | | | |
| K20VTC-E3 | 4 | 21.0 | 17.5 | 15.0 | 1300 | P5 | 45 – 31 – 56 | 925 |
| K26VTC-E3 | 4 | 26.4 | 22.0 | 20.0 | 1350 | P5 | 45 – 31 – 56 | 1025 |
| 6000 PSI SERVICE | | | | | | | | |
| H10VTC-E3 | 4 | 9.7 | 8.1 | 7.5 | 1180 | P2 | 45 – 31 – 56 | 720 |
| H13VTC-E3 | 4 | 13.0 | 10.8 | 10.0 | 1420 | P2 | 45 – 31 – 56 | 720 |
| H19VTC-E3 | 5 | 19.2 | 16.0 | 15.0 | 1050 | P5 | 45 – 31 – 56 | 1000 |
| H25VTC-E3 | 5 | 25.2 | 21.0 | 20.0 | 1300 | P5 | 45 – 31 – 56 | 1075 |

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

** Compressor capacity referenced to standard inlet conditions.

E3 = Three Phase Electric, 230/460 VAC/60 Hz

Other voltages available on request.

Dimensions and weights are approximate and are subject to change.

Fill Panels

CONVERTIBLE FILL PANELS



BFP-2 Basic Fill Panel

*Shown with Two Fill Whips and
SCUBA Connectors*

BFP – Basic Fill Panel designed for **conversion to a cascade panel**. Suitable for wall mounting or for attachment to DOT or ASME storage cylinders. Includes an adjustable regulator, inlet/outlet gauges, relief valve, fill control valves and inlet port for storage refill. (Available with two or four fill whips).

BFP/CSCD – the designation for **Cascade Fill** includes a shut-off valve and gauge for up to four banks of storage. This feature can be factory installed or easily added later by the user.

BRIEFCASE FILL PANELS

Available in high and low pressure versions supplied in lockable carrying case.

HIGH PRESSURE BRIEFCASE FILL *21.5”L – 9”W – 15”H*

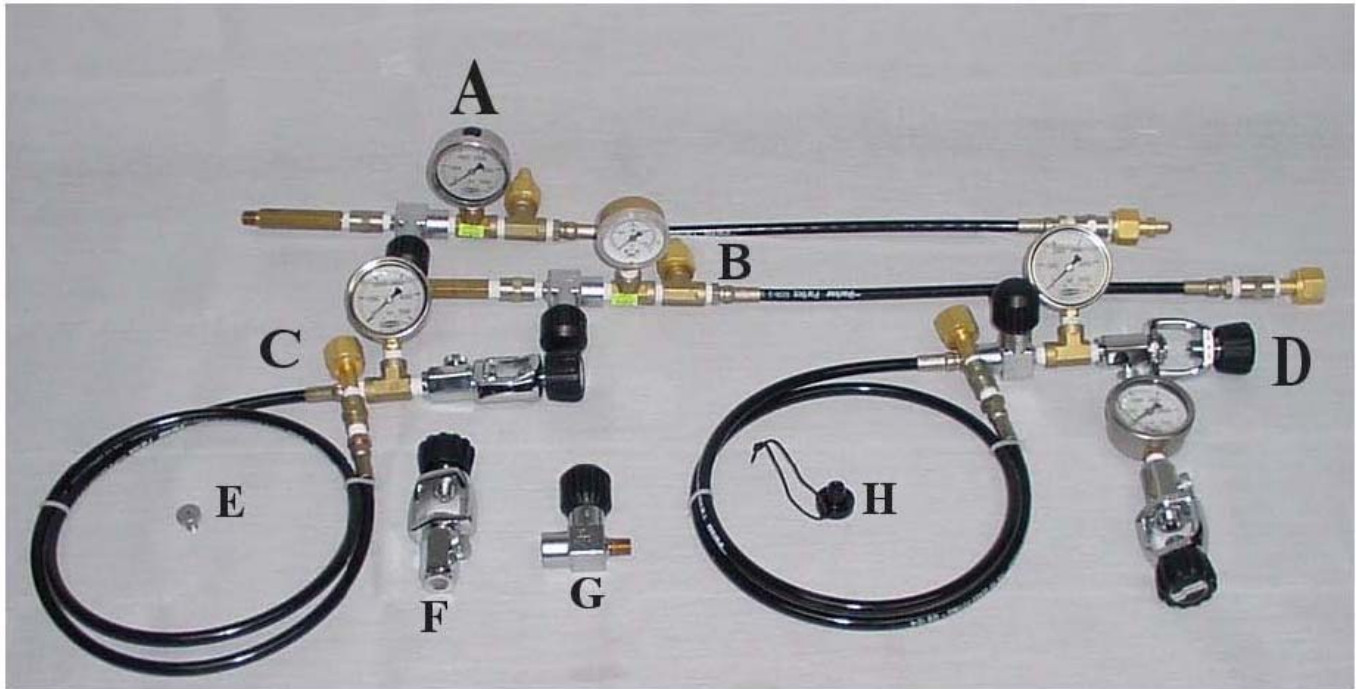


WALL MOUNT FILL CONTROL PANEL

BF450-FCP Four bank fill control panel for dual function cascade control. Panel includes adjustable regulator, air inlet and outlet gauges, fill control valves, bank valves and gauges, and an air direction valve allowing single point air management.

BF450-FCP *18”L – 12”W – 38”H*

Fill Whips, HP, and Parts



| Letter | Part No. | Description |
|--------|----------|---|
| A | TBM-346 | Twin Bottle Manifold Air, CGA-346 |
| B | TBM-540 | Twin Bottle Manifold Oxygen, CGA-540 |
| C | FW-6000 | 6' Fill Whip, Yoke and Bleed Screw, Gauge & CGA-346 Air Cylinder Connector |
| D | FWV-6000 | 6' Fill Whip w/ Valve, Yoke and Bleeder Screw, Gauge & CGA-346 Air Cylinder Connector |
| E | BS-5000 | Bleeder Screw for Scuba Yoke |
| F | YB-5000 | Yoke & Bleeder Screw |
| G | YVA-3010 | Line Valve, 1/4" NPT Female IN x 1/4" NPT Male Out, 6000 PSI |
| H | DC-280 | First Stage Dust Cap |
| I | TG5000 | Tank Pressure Gauge, 0-5000 PSI & Yoke & Bleeder Screw |

Air Purification

BAUER Air Purification Systems purify high pressure air to a quality that meets or exceeds the requirements of CGA Pamphlet G-7, Compressed Air for Human Respiration ANSI/CGA G-7.1, Commodity Specification for Air, Grade E, and all other recognized standards for breathing air.

UP TO 6000 PSI SERVICE

| PURIFICATION SYSTEM | AIR PROCESSING CAPABILITY+ |
|---------------------|----------------------------|
| P0++ | 3,200 cu. ft. |
| P2 | 40,000 cu. ft. |
| P2 SECURUS | 67,000 cu. ft. |
| P5 | 90,000 cu. ft. |
| P5 SECURUS | 150,000 cu. ft. |
| P10 | 140,000 cu. ft. |
| P10 SECURUS | 230,000 cu. ft. |
| P12 SECURUS* | 420,000 cu. ft. |
| P14 SECURUS | 650,000 cu. ft. |
| P31++ | 11,760 cu. ft. |
| P41 | 28,700 cu. ft. |
| P41S | 47,000 cu. ft. |
| P42 | 64,000 cu. ft. |
| P42S | 107,000 cu. ft. |
| P43 | 100,000 cu. ft. |
| P43S | 164,000 cu. ft. |

P5

*Air Purification
Panel Shown*



* P12 and P14 only available with SECURUS.

+ Air Processing Capability based on standard inlet conditions, 68°F., a Pressure of 14.70 psi and a relative humidity of 36% (0.0750 density).

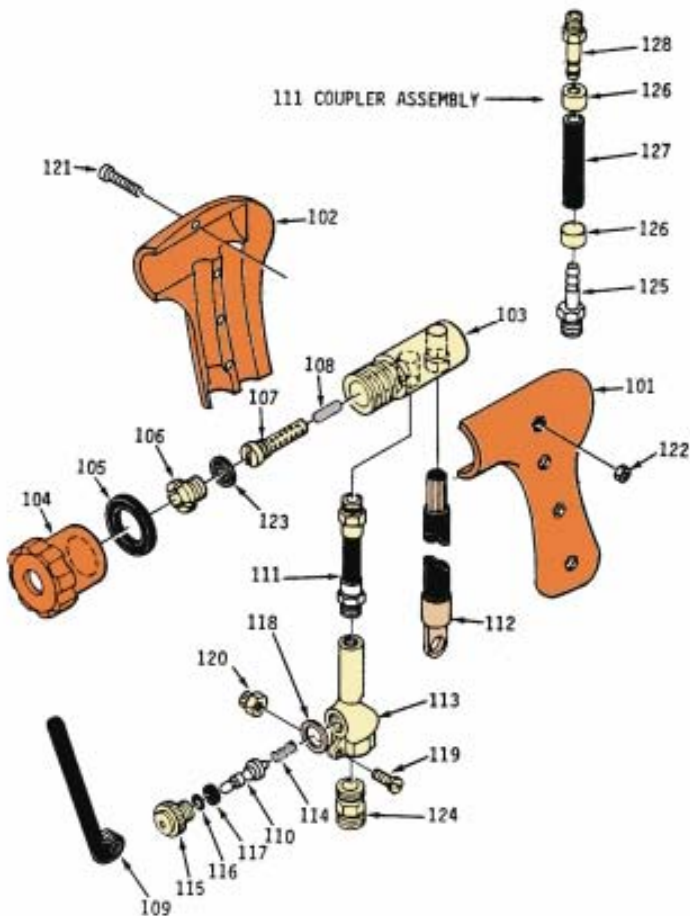
++ 5000 PSI Maximum Pressure, Triplex Design Is not incorporated on a panel.

SECURUS II – Purification Moisture Monitoring for Pure Breathing Air



SECURUS II ensures 100% utilization of the air processing cartridges because the moisture sensor is embedded directly in the molecular sieve. The SECURUS cartridge, with its moisture sensor, is the last cartridge in the air processing system. **SECURUS II** is powered from the PLC Control System and provides for automatic warning and shutdown when the SECURUS cartridge becomes saturated. The **SECURUS II** can be mounted locally to the SECURUS cartridge chamber or to the compressor's control panel. **SECURUS II** is available for working pressures from 2000-6000 PSIG and flow rates to 125 SCFM.

Broco® BR-22 Underwater Oxygen – Arc Cutting Torch, Assembly



| Part No. | Qty. | Description |
|----------|------|------------------------------------|
| 101 | 1 | Grip, handle (left size) |
| 102 | 1 | Grip, handle (right side) |
| 103 | 1 | Head, torch |
| 104 | 1 | Nut, collet |
| 105 | 1 | Washer, compression neoprene |
| 106 | 1 | Collet |
| 107 | 1 | Flash arrestor |
| 108 | 1 | Screen, monel |
| 109 | 1 | Lever, control valve |
| 110 | 1 | Valve stem, Delrin |
| 111 | 1 | Assembly, coupler |
| 112 | 1 | Cable assembly |
| 113 | 1 | Control valve |
| 114 | 1 | Spring, valve stem |
| 115 | 1 | Nut, control valve |
| 116 | 1 | O ring, valve stem |
| 117 | 1 | Washer, neoprene valve stem |
| 118 | 1 | Gasket, copper |
| 119 | 1 | Screw, brass valve lever |
| 120 | 1 | Nut, brass valve lever lock |
| 121 | 4 | Screw, nylon handle |
| 122 | 4 | Nut, nylon handle |
| 123 | 1 | Washer, neoprene collet |
| 124 | 1 | Adapter, oxygen hose |
| 125 | 1 | Connector, Delrin (1/8" Pipe) hose |
| 126 | 2 | Ferrules, KK |
| 127 | 1 | Hose, O ₂ |
| 128 | 1 | Connector, brass (1/4" Pipe) hose |



Underwater Cutting Equipment



Oxylance manufactures underwater cutting electrodes in both an Exothermic design, the Aqua EXO (top photo), and our Tubular Steel Aqualance. The Aqua EXO will burn without power after it is ignited. The Aqualance is an Oxy Arc rod that requires 300 amps of electricity to maintain the arc. All of our rods have a proprietary plating process that prevents the exterior of the rod from corrosion. We use a continuous heat shrink process for insulation that will not un-wrap or become brittle in cold water. Our rods can be used in other manufacturer's holders; however, the collet may have to be enlarged slightly due to our plating process. We have collets for other holders to match our rod diameters.

Underwater Cutting Equipment Cont.

| Part # | Description |
|------------|-----------------------------------|
| 37BAQUAEXO | 3/8" x 18" Exothermic Cutting Rod |

AQUA EXO Underwater Cutting Rods



3/8" Exothermic Underwater Cutting Rods

- * **Easy to Use** – Improves diver's skill with minimum training. Reduce training cost by practicing above water
- * **Standard Size** – 3/8" x 18"
- * **Corrosion Resistant** – Proprietary Plating Process reduces the number of rusty corroded rods you throw away resulting in less waste, reducing job cost.
- * **Packaging** – Each plastic box contains 45 rods.
- * **Versatile** – One consumable can be used both above and below water. Reduces having multiple cutting systems on the job.

Aqua EXO™ Underwater Exothermic Cutting Rods



CAUTION

Only qualified divers, trained for underwater burning should operate underwater burning equipment. Please read the following references as well as your companies safety policy.

- 1.) Consensus Standard for Commercial Diving Operations, Association of Diving Contractors, Houston, Texas
- 2.) 46 CFR 197.200, U.S. Coast Guard Commercial Diving Regulations
- 3.) 29 CFR 1910 Sub-part "T", OSHA Diving Regulations
- 4.) S0300-BB-MAN-010 U.S. Navy Underwater Cutting and Welding Manual
- 5.) NAVSHIPS 0994-001-9010, U.S. Navy Diving Manual
- 6.) ANSI Z49, 1 Safety in Welding and Cutting

WARNING

All Oxy lance burning products are cleaned for Oxygen service and packaged to prevent contamination from oils and grease. Avoid storing burning rods where they could become contaminated. Clean contaminated rods and burning equipment prior to use.

RECOMMENDED SAFETY INSTRUCTIONS FOR YOUR COMPANY

- 1.) All equipment should be inspected and in good condition prior to operation.
- 2.) Never allow oil, grease, or flammable substances to come in contact with cutting equipment.
- 3.) The operator should understand all safety precautions concerning the use of oxygen.
- 4.) Electrical shock can cause death or injury. Insure equipment is properly installed and operated.
- 5.) Never let the diver/burner become part of the electrical circuit.

CAUTION

UNDERWATER BURNING PRODUCES A COMBIANTION OF UN-BURNED OXYGEN AND HYDROGEN GAS. WHEN TRAPPED IN A CONFINED AREA THIS WILL PRODUCE EXPLOSIONS.



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WARNING

Never burn where there is a pressure differential situation either blowing out or sucking in prior to burning on any structure or pipeline. You must insure that there are no hydro carbons present that can cause an explosion.

Recommended burning on oil platforms and pipelines

It is recommended that when there is doubt of the contents behind the area of the burn, you **MUST** drill an inspection hole prior to Oxy-Arc burning. **DO NOT BURN ON PIPELINES WITHOUT CONFIRMING THAT THE LINE CONTAINS NOTHING FLAMMABLE AND THAT THE LINE IS FLOODED WITH WATER.**

When burning on members or jacket legs **ALWAYS** drill a hole and allow the pressure to equalize prior to burning. **YOUR FINGERS OR HAND CAN BE SUCKED IN THE HOLE, RESULTING IN SERIOUS INJURY OR DEATH. USE CAUTION WHEN DRILLING THE HOLE.**

BURNING BELOW THE MUDLINE

When burning below the mudline it is best to jet and airlift or pump the mud from behind the cut to prevent Oxygen and Hydrogen from being trapped in the mud. **OXYGEN AND HYDROGEN TRAPPED IN THE MUD CAN RESULT IN AN EXPLOSION.** If the mud cannot be removed it is best to leave it packed tight and use the same cutting techniques as for concrete filled piles.

CONCRETE FILLED PILES

VERTICAL CUTS: The tip of the rod should be pointed slightly up and then drag the rod downward. This will prevent O₂ and hydrogen from being forced into pockets in the concrete ahead of the cut.

CIRCUMFERENTIAL CUTS: **NEVER** cut in a straight line around the pile. Make an angle or miter cut starting at a high point and progressing in a downward direction (1 to 2 inches down per foot of circumference). Cut one half of the pile in this manner and stop. Go back to the starting point and cut the other half of the pile in the same downward manner. **ALWAYS** point the rod tip away from the diver and drag the rod towards the diver (away from the kerf). Using the above techniques will allow gas bubbles to escape in a natural upward direction, and the drag method will prevent gas bubbles from being forced into void areas.

SHIPS AND BARGES

Extreme caution should be used for burning projects on ships and barges. We can only cover the obvious in this safety data sheet. Before undertaking major projects, a study of the ship should be performed by experts in the salvage business and all divers should be made aware of all hazards that may be encountered. The following is a list of hazards that will always be present:

Fuel Tanks and Cargo Holds

Never burn into an area that contains fuel. Never burn into cargo holds that contain flammable or explosive materials.

Hulls, Double Bottoms, and Double Patches

Be aware, there are many areas in ship hulls where Oxygen and Hydrogen can become trapped. Insure these areas are properly vented. Again on vertical cuts, work from the top down. Insure that all void areas are flooded prior to burning



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OPERATING INSTRUCTIONS

Equipment required:

- 1.) Underwater Burning Torch.
- 2.) High pressure, high volume Oxygen regulator, and sufficient Oxygen supply
- 3.) Knife switch, either single or double pole
- 4.) Ground lead with a ground clamp that will insure solid contact. (Preferably a screw type or welded on ground plate.)
- 5.) Direct Current Welding machine that is capable of 250 amps or a 12 volt auto battery. (See the manual on your machine for duty cycle rating). **A.C. WELDING MACHINES ARE NOT RECOMMENDED FOR UNDERWATER USE.**

SETTING UP EQUIPMENT

- 1.) Place Oxygen supply in a location which will prevent damage to the Oxy-Arc supply hoses. Insure all regulators, supply hoses, torches, and electrodes are free of oil and grease or other materials that are flammable. Insure all cylinders are properly secured (ready for Sea).
- 2.) Adjust regulator for the depth and thickness of material to be cut. (See recommended O₂ pressure table).
- 3.) Check entire burning system for O₂ leaks using leak check.
- 4.) For single pole knife switch; Run jumper lead from the NEGATIVE terminal of the welding machine (or negative post of battery to the knife switch. ****See Caution (NOTE: POLARITY IS NOT CRITICAL WHEN CUTTING WITH THE POWER OFF).**
- 5.) The knife switch should be located on the dive station so that it can be operated by the person operating the divers radio.
- 6.) Attach ground lead to POSITIVE terminal of welding machine (or positive terminal of battery). Check machine polarity selector switch to ensure it is set for STRAIGHT POLARITY. (If there is no switch just remember the word **PIG...Positive Is Ground**). (NOTE: POLARITY IS NOT CRITICAL WHEN CUTTING WITH THE POWER OFF).
- 7.) A polarity test can be performed by taking a bucket (plastic is recommend) and filling it with water. With a burning rod in the holder, submerge ground and burning rod in the water. Maintaining a separation of 2 inches, call for knife switch hot. If the polarity is correct a stream of hydrogen bubbles will rise from the tip of the burning rod.

****CAUTION**

Most knife switches and welding lead lugs are made of copper. Insure that these are clean and free of corrosion. Where the welding lead lug attaches to the knife switch or the welding machine, put the lug in direct contact with the base of the terminal. If spacers are required to help tighten the lug, put them on top. Steel spacers between two copper plates can create arcing, and resistance causing problems with current flow to the cutting rod.



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UNDERWATER BURNING WITH EXOTHERMIC CUTTING RODS

- 1.) The diver should attach the ground to the work as near as possible to the cut. The ground should be situated so the diver WILL NOT be in a position between the ground and the area where he will be burning.
- 2.) When the diver is in the position and ready to begin cutting he will direct the topside crew to MAKE IT HOT. After electrode is burning the diver can choose to cut with the knife switch hot or cold. IF cutting with power on use STRAIGHT PRIORITY.
- 3.) When cutting without power exothermic rods will consume slower, however, cutting speed may be reduced.
- 4.) For increased production, it is recommended that the surface be free of heavy oxidation, barnacles, or any other material that will reduce or prevent proper electrical conduction.

WARNING: Never leave the knife switch hot when not actually burning. Bubbles that form in the torch head and the burning rod are hydrogen and can explode. Prior to making the knife switch hot, purge the torch and rod with oxygen to insure that no hydrogen is present. Leaving the knife switch cold will also reduce corrosion damage to the torch.

BATTERY CAUTION

When igniting electrodes with a battery make the knife switch cold after electrode is ignited. Battery will discharge rapidly if power is left on.

OXYGEN PRESSURE AND AMPERAGE SETTINGS

| Material Thickness | Oxygen Pressure | Amperage |
|--------------------|-----------------|------------|
| 1/8" to 3/8" | 40 to 50 PSI | 150 to 250 |
| 1/2" to 3/4" | 50 to 70 PSI | 150 to 250 |
| 1" to 1 1/2" | 70 to 90 PSI | 150 to 250 |
| 1 3/4" and over | 90 to 110 PSI | 150 to 250 |

To insure adequate O₂ flow we recommend 3/8" I.D. hose for the entire length of your Oxy Arc.

AMPERAGE/VOLTAGE VERSUS CABLE LENGTH

The amperage and open circuit voltage settings on the welding machine will depend on the length of the Oxy-Arc system, and the size of the welding lead in the system.

When selecting the welding lead to be used for the Oxy-Arc system, you must measure the total length of the Oxy-Arc, the jumper lead from the machine to the knife switch, and the ground lead. This is the total length of the electrical circuit.

EXAMPLE: A 350 foot Oxy-Arc, with a 50 foot jumper from the machine to the knife switch, and a 200 foot ground, has a total circuit length of 600 feet. In this case using 3/0 (000) cable, to maintain 300 amps at the electrode, the welding machine settings would need to be increased by 28 amps, and the open circuit voltage by 14 volts. The amperage drop would be 28 amps (2 amps per 50 feet of cable) and 14 volts (2 volts per 50 feet of cable) and 14 volts (2 volts per 100 feet) at 300 amps for 600 feet.

(REFERENCE AMPERAGE CHART)



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A common practice, that creates problems for the diver, is to have an Oxy-Arc with 3/0 (000) welding lead, and then use 2/0 (00) for the jumper, and the ground. Another bad practice is to use old damaged welding lead for the ground lead because, "IT'S JUST A GROUND". Every piece of cable in the circuit needs to be the same size, and should be good quality cable, free of damage. All splices must be tight and water proof. The number of splices should be kept to a minimum.

The knife switch has to be well maintained. This includes removing all corrosion from the contact surfaces (blade), and from the base where the lead lugs attach. Do not use steel washers between the lugs on the lead and the knife switch. If spacers are required, put them on top of the cable lug.

ANY DEFECT IN THE ELECTRICAL CIRCUIT IS A POTENTIAL FOR AN INCREASE IN RESISTANCE, SHORT CIRCUITING, AND LOSS OF AMPERAGE TO THE ELECTRODE. DEFECTS CAN RESULT IN INJURY AND/OR POOR PERFORMANCE.

AMPERAGE/VOLTAGE LOSS CHART

To maintain 300 amps at the electrode, increase the machine amperage by the following amounts for the combined length of the burning circuit indicated.

OXYGEN PRESSURE AND AMPERAGE SETTINGS

| Lead, Jumper, & Ground | 100 Feet | 150 Feet | 200 Feet | 300 Feet | 400 Feet |
|------------------------|-----------|-----------|-----------------------------------|-----------------|-----------|
| 1/0 (0) Cable | + 10 AMPS | + 14 AMPS | Not Recommended for These Lengths | | |
| 2/0 (00) Cable | + 2 AMPS | + 4 AMPS | + 8 AMPS | Not Recommended | |
| 3/0 (000) Cable | + 0 AMPS | + 0 AMPS | + 4 AMPS | + 12 AMPS | + 20 AMPS |

For lengths beyond 400 feet add 4 amps per 100 feet of cable. If problems are encountered at long lengths increase cable size to 4/0 (0000) cable, or double the cable (2 leads, 2 grounds, and 2 jumpers or 2/0 (00) or 3/0 (000) cable). These amp settings are figured on cable in like new condition with a minimum of splice connections. Older cable may have more resistance.

Problem Areas and Locating Them

When problems occur with the power to the torch, look for these defects.

Holes in the insulation. If they are in the water, or have been in the water, holes in the welding lead will bleed a red oxide color that will look like paint on the lead.

Run your hand along the lead. Hot spots in the insulation indicate a break or partial break in the lead. The heat is the result of resistance, or arcing between broken wires.

While the knife switch is hot, look for arcing them from the lead to the deck. This is a common problem that happens when old welding lead gets used for jumper leads. If you have Amp or Volt meters on the machine, and the Volt meter is reading zero, and the Amp meter is reading high or pegged, the hot lead is short circuited (grounded out).



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Inspect all splices to insure they are tight and waterproof.

Check connections at the machine and the knife switch.

Check the entire length of the jumper lead and the Oxy-Arc to insure that neither is grounded out.

| Trouble Shooting Guide | | |
|-------------------------------|-----------------------|--|
| Problem | Cause | Solution |
| Weak Arc | Welder Idling | Increase RPM's to the correct setting for welding burning |
| | Battery Low | Charge Battery |
| | Lead/Ground Loose | Clean lugs and re-tighten connections |
| | Knife Switch | Clean lugs and knife switch, re-tighten connections |
| | Improper Ground | Inspect ground, make sure it is on clean metal and it is tight |
| | Loose/Broken Splices | Inspect and repair any damaged splices |
| | Broken Lead/Ground | Inspect lead/ground and repair as required |
| Difficult to Start | Low Oxygen Pressure | Increase oxygen pressure or change cylinder |
| Rod Burning | Machine Setting Low | Increase amp/volt settings to compensate for circuit length |
| | Damaged Lead | Inspect leads to insure they are not damaged and are water tight |
| | Loose Ground | Insure that the ground is tight and on clean metal |
| Electrode Burns too Fast | Amperage Set too High | Adjust welding machine to proper amperage setting |
| | Polarity Reversed | Insure that the system is set for straight polarity |
| | High Oxygen Pressure | Adjust pressure for the proper thickness and depth |
| Electrode Welds, Not Burns | Low Oxygen Pressure | Check Oxygen supply to insure there is adequate Oxygen Check torch for obstructions in the hose and the electrode Insure that the pressure setting is corrected for the material/depth |
| Electrical Shock | Damaged Lead/Ground | Inspect all leads for holes, cuts, or abrasions and repair |
| | Position of Ground | Insure that the diver is not between the work and the ground |
| | Improper Polarity | Insure that the system is set for straight polarity |

Aqualance™ Underwater Cutting Rods



Easy to Use

Improves diver's skill with minimum training. Reduce training cost by practicing above water.

Standard Size

5/16" x 16" (8mm x 406mm)

Corrosion Resistant

Proprietary Plating Process reduces the number of rusty corroded rods you throw away resulting in less waste, reducing job cost.

Packaging

Each plastic box contains 50 rods (5 heat sealed poly packs with 10 rods per pack).

Versatile

One consumable can be used both above and below water. Reduces having multiple cutting systems on the job.

Technical Services

We offer consulting services for all of our products and we will make special order rods for individual projects.

Typical Performance Data for 5/16" Tubular Steel Electrode

| Steel Thickness | Travel Distance | Amperage | O ₂ Pressure |
|-----------------|-----------------|------------|-------------------------|
| 1/2" (12mm) | 26" (650mm) | 300 | 40 to 60 PSI |
| 5/8" (16mm) | 24.25" (620mm) | 300 | 40 to 60 PSI |
| 3/4" (20mm) | 23.24" (590mm) | 300 | 60 to 70 PSI |
| 1 1/2" (37mm) | 14.5" (375mm) | 300 | 70 to 80 PSI |
| 2" (50mm) | 11.25" (288mm) | 300 to 400 | 80 to 90 PSI |

These results were accomplished by first properly cleaning the steel. Just as above water, heavily corroded or barnacle encrusted steel does not burn as readily as clean steel. Burning was performed using the drag method. The travel distance was with one electrode. (O₂ pressure is the pressure over bottom pressure.)

Sea-Jet® Cutting Electrodes

Part No. 42-066-006 (Red)
Diameter: 3/8" (9.5 mm) **Length:** 18" (458 mm)



Patented underwater exothermic Sea Jet cutting electrodes will burn ferrous and melt non-ferrous materials such as concrete, rock, barnacles and other sea growth. The Sea-Jet electrode can be used like other oxygen-arc cutting electrodes. A DC constant current welding power supply on straight polarity (electrode negative), ground the workpiece and by touching the workpiece an electric arc ignites the electrode. Once ignited the electrode will continue to burn by the means of the exothermic reaction between the steel components of the electrode and the oxygen flowing through the electrode. **Remember, Sea-Jet electrodes will burn as long as the oxygen is flowing through the electrode.** For igniting the electrode only, a 12 VDC battery may be used. This presents an added safety margin against the possibility of electrical shock.

Sea-Weld® Welding Electrode

Part No. see chart below (Yellow)
Diameters: 1/8" (3.2 mm), 5/32 (4.0 mm),
3/16" (4.8mm)
Length: 14" (355.6 mm)



Arcair's improved Sea-Weld electrode is the answer to the need for structural fabrication and repairs requiring underwater wet welding. This all position, flux coated SMAW electrode has been developed to provide the following features:

- Welds with excellent bead contour
- Fillet welds are flat with good base metal wetting, which helps keep undercut to a minimum.
- Easy slag removal which keeps chipping and grinding to a minimum, allowing faster welding time while providing welds with a lower risk of slag inclusions.
- The Sea-Weld electrode has produced welds which pass bend and X-ray requirements as defined by the AWS D3.6 specification for underwater welding.

Sea-Weld® Welding Electrode Chart

| ELECTRODE SIZE | | PART NUMBER | CURRENT AMPERES | BURN OFF TIME (SEC) 12" (305 MM) |
|-------------------|-----|----------------|--------------------|--|
| INCH | MM | | | |
| 1/8 | 3.2 | 42-024-002 | 150-180 | 40-46 |
| 5/32 | 4.0 | 42-984-004 | 170-210 | 44-56 |
| 3/16 | 4.8 | 42-034-007 | 190-230 | 59-66 |



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Sea-Cut® I Cutting Electrodes

Part No. 42-059-007 (Blue)

Diameter: Outside 5/16" (8 mm) Bore Hole .113" (3 mm)

Length: 14" (355.6 mm)



Sea Cut I electrodes are a tubular steel design used for oxygen-arc cutting. These electrodes are coated with a waterproof insulating material. They are **not flux coated**.

Arcwater® Gouging Electrodes

Part No. 42-059-006 (White)

Diameter: 5/16" (7.9 mm) **Length:** 9" (228.6 mm)



These copper coated carbon/graphite electrodes are especially made for the Arcwater process. Waterproofed with a white coating, Arcwater electrodes require 350 to 450 amperes for proper operation.

Tuff-Cote® Cutting Electrodes

Part No. 42-059-008 (White)

Diameter: Outside 5/16" (8 mm) Bore Hole .113" (3 mm)

Length: 14" (355.6 mm)

Tuff-Cote tubular steel oxygen-arc cutting electrodes are first coated with an arc stabilizing flux coating, then waterproofed, protecting the flux from moisture absorption and providing electrical insulation.



Burning Torch Assembly



600 ft. Burning Lead shown with Broco cutting torch, BR22

| | |
|------------------|--|
| ASSEMBLY: | Consists of PVC-K1156-3/8" Hose, 2/0 Welding Cable Married Every 6" with 6 Wraps of 2" Duct Tape |
| HOSE: | <i>Tube</i> – Black PVC compound <ul style="list-style-type: none"> • <i>Reinforcement</i> – High tensile strength yarn • <i>Cover</i> - PVC |
| CABLE: | 2/0 Flexible Welding Cable |
| TAPE: | 2" Wide Laminated Polyethelene Cloth 45PSI Tensile Strength 50 Oz. PSI Adhesion, 14 Mil Thickness |
| TORCH: | AAI-CRAFTSWELD, ARCAIR, BROCO |

AAI Craftsweld WB2 Underwater Welding Stinger



AAI Craftsweld Underwater Welding Stinger is fully insulated and specifically designed for underwater use. The Head and Handle are made w/ laminated phenolic w/ a large, tapered opening in the Head to permit “blind” feeding of new electrode, without fumbling. A slight turn of the Head secures the electrode against the interior copper Contact Stud on the end of the brass Core. The Contact Stud has a hex head for easy replacement w/ standard tools. Head unscrews completely for access to Contact Stud. The Cable is sweated into the Core to provide full and efficient flow of the electrical current.

Model WB-2 Welding Stinger comes complete w/ 5’ of flexible #2 stranded copper welding cable w/ abrasion, tear, and oil-resistant jacket. The lighter #2 cable allows precise manipulation for better welding without sacrificing good current flow. Cable terminates in standard copper Lug (sweated).

Specifications

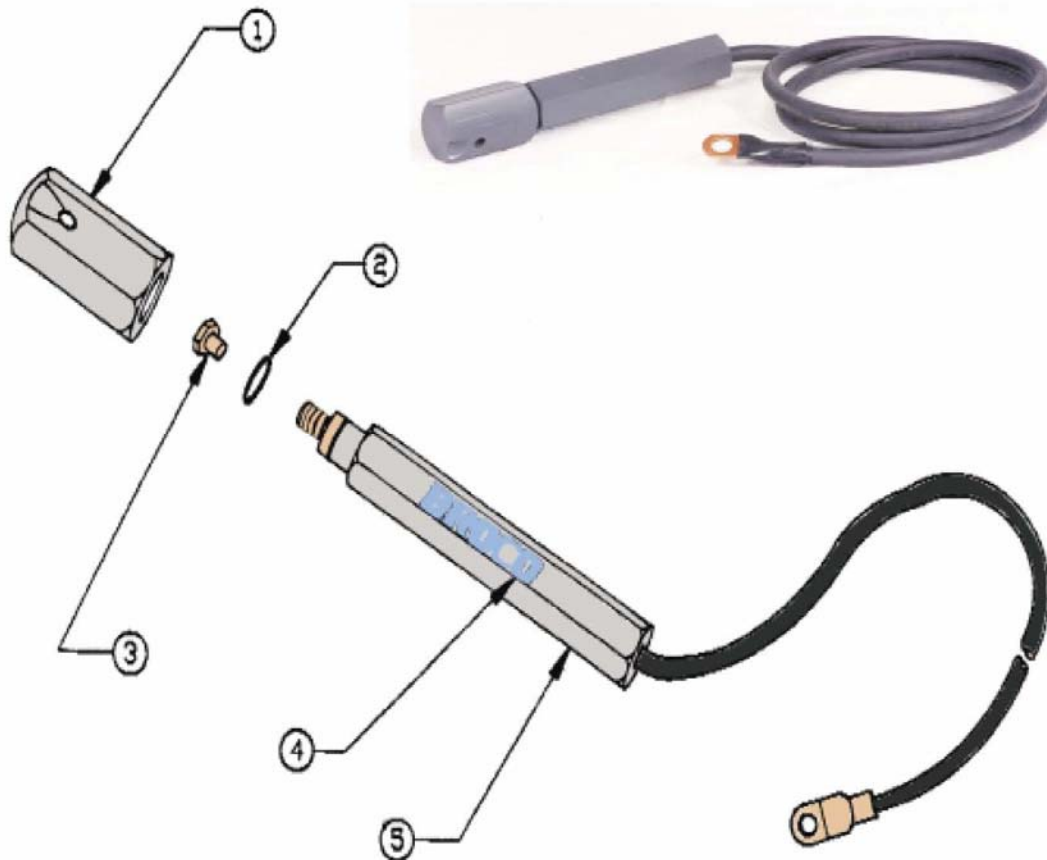
7” Long

10 ounces (2 lbs including cable and lug)



| Item | Part No. | Description |
|------|-------------|--------------------------------------|
| 1 | WB2-H | Head |
| 2 | WB2-SSSCREW | Bearing Screw – SS |
| 3 | WB2-CS | Contact Stud – Terillium 7/16 X 9/16 |
| 4 | WB2-B | Core |
| 5 | WB2-C | Handle |
| 6 | WB2-CASS | Cable Assembly – 8’, Size #1 |
| 7 | WB2-L | Lug |

Broco® BR-21 Wet Welding Stinger



| Item | Part No. | Description |
|--|----------|--------------------------------------|
| 1 | 210 | Cap Assembly, BR-21 |
| 2 | 241 | O-Ring, Buna, Size 116 |
| 3 | 2105 | Screw, Cap, 1/4" – 20 x 3/8", Copper |
| 4 | BB-II | Label, Broco, Blue |
| 5 | 211* | Handle & Cable Assembly |
| * Note * : This sub-assembly contains one each PN2105 cap screw. | | |

Surweld™ Underwater Welding Rods



Easy to Use

Welds similar to topside rods. Divers can learn to weld above water and transition to wet welding with minimal training.

Qualification

Meets or exceeds the requirements for ANSI/AWS D3.6 all positions Fillet and Groove welds. Surweld electrodes have qualified welds to both ANSI/AWS D3.6 and Class O welds. Our stainless steel electrodes have been tested for nuclear repairs and passed 2t bends and radiographs for ASME.

Depth

Fillet weld qualifications all positions to .360' (110 meters) ANSI/AWS D3.6 Class B weld. (The deepest wet weld repair ever qualified for and completed was performed with Surweld #1 mild steel electrode... 360fsw, Offshore New Zealand).

Packaging

Each *plastic* box contains 120 electrodes (6 heat sealed poly packs containing 20 electrodes per pack).

US Navy Approved

Wet welds produced with Surweld Ni are the only nickel electrode approved by the US Navy for higher carbon steel ship hull repairs. Repairs have been successfully completed on US Navy ships using the Surweld Ni.

Surweld Electrode Type and Size

| <u>Oxylance Number</u> | <u>Type</u> | <u>Size</u> |
|------------------------|-----------------|------------------------|
| Surweld #1 | Mild Steel | 3/32", 1/8", and 5/32" |
| Surweld #33 | Stainless Steel | 3/32" and 1/8" |
| Surweld Ni | Nickel | 3/32" |

Welding Accessories



“C” Type Ground Clamps

| Stock Number | Model Number | Amperage Capacity | Type Cable Connection | Throat Opening | Throat Depth |
|--------------|--------------|-------------------|-----------------------|----------------|--------------|
| 9210-1150 | GC-600-50 | 500 | ½” Cap Screw | 2 ½ | 1 5/8 |
| 9210-1202 | GC-600-TMP | 600 | TWECO Male Plug | 2 ½ | 1 3/8 |
| 9210-1201 | GC-600-DBP | 600 | Double Ball-Point | 2 ½ | 1 3/8 |

“C” Type Clamp Parts

| Stock No. | Part No. | Description |
|-----------|----------|--|
| 9920-2100 | CS-6 | Cap Screw – ½” x ¾” NC |
| 9920-2101 | FW-6 | Flat Washer – ½” |
| 9920-2102 | GCM-2-4 | Fitting-No. 2 Male Plug (threaded ½” NC) |

| Stock No. | Part No. | Description |
|-----------|-----------|--|
| 9920-2103 | GCS-40 | Fitting-Double Ball-Point (threaded ½” NC) |
| 9940-2124 | 24R-MBP | Cover |
| 9920-2612 | GC-600-12 | Pressure Tightening Screw w/ Bar |



| Stock Number | Model Number | Welding Cable Size | AMP Rating | Size of Stud Hole | I.D. Solder Socket | STD Pkg. |
|------------------|--------------|--------------------|------------|-------------------|--------------------|----------|
| 9520-1104 | T-62 | 6 thru 2 | 150 | 17/32” | .461” | 50 |
| 9520-1105 | T-120 | 1 thru 2/20 | 225 | 17/32” | .559” | 50 |
| 9520-1107 | T-3040 | 3/0 & 4/0 | 250 | 17/32” | .660” | 25 |
| 9520-1109 | T-40HD | 4/0 Heavy-Duty | 325 | 21/32” | .776” | 25 |
| Power Cable Lugs | | | | | | |
| 9520-1100 | T-1214 | 12 thru 14 | 35 | 13/64” | .186” | 200 |
| 9520-1101 | T-810 | 8 thru 10 | 50 | 13/64” | .238” | 200 |
| 9520-1102 | T-68 | 6 thru 8 | 70 | 21/64” | .289” | 125 |
| 9520-1103 | T-46 | 4 thru 6 | 90 | 21/64” | .347” | 100 |

Welding Cable



Flexible from -50°F to 150°F. Enhanced oil, fire, acid, fuel, roll-over and abrasion resistant. Double layer insulation with yellow safety liner. Manufactured to ISO 9002 quality standards.

Suggested Maximum Copper Welding Cable Size

Sequential foot marking quicker and more accurate measuring

- No more guessing the remaining quantity
- Easy and accurate stocktakes-control at a glance
- No more wasted cable
- Reduced pilferage

Superior flexibility from -30°F to 150°F

- 30 Gauge wires with dual layer insulation

Double Layer Insulation

- Second color acts as a safety signal indicating any damage to the insulation layer
- Improved electrical characteristics
- Enhanced oil and fuel resistance
- Superior abrasion resistance, hence a longer lifespan
- Both layers are fire-retardant
- Acid resistant

Manufactured to ISO 9002 quality standards

- Accurate concentricity ensures consistent performance and safety
- Consistent product, the same quality first time-every time



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EMAIL sales@aquaairind.com

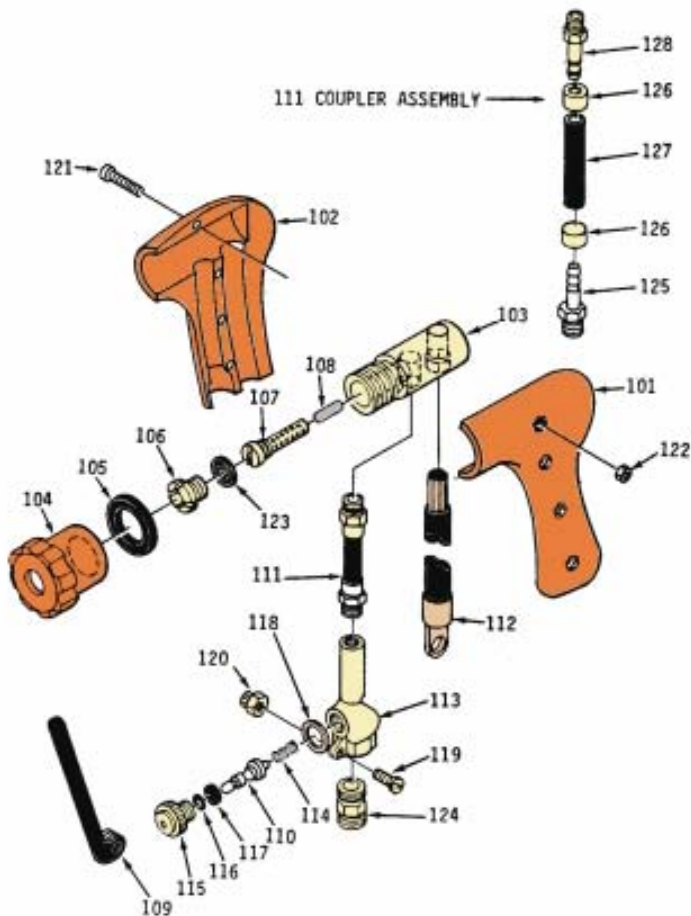
Welding Cable Cont.

Suggested Maximum Copper Welding Cable Size

| Welding Current | Length of cable circuit in feet – Total of both electrode and ground cables | | | | | | | | | | | | |
|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|
| | 60' | 100' | 125' | 150' | 175' | 200' | 225' | 250' | 274' | 300' | 350' | 400' | 500' |
| 100 amp | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1/0 | 1/0 | 2/0 |
| 150 amp | 2 | 2 | 2 | 2 | 1 | 1 | 1/0 | 1/0 | 2/0 | 2/0 | 4/0 | 4/0 | 4/0 |
| 200 amp | 2 | 2 | 2 | 1 | 1/0 | 1/0 | 2/0 | 2/0 | 4/0 | 4/0 | 4/0 | 4/0 | |
| 250 amp | 2 | 2 | 1 | 1/0 | 2/0 | 2/0 | 4/0 | 4/0 | | | | | |
| 300 amp | 1 | 1 | 1/0 | 2/0 | 4/0 | 4/0 | 4/0 | | | | | | |
| 400 amp | 1/0 | 1/0 | 2/0 | 4/0 | 4/0 | | | | | | | | |
| 500 amp | 2/0 | 2/0 | 4/0 | 4/0 | | | | | | | | | |
| 600 amp | 4/0 | 4/0 | 4/0 | 4/0 | | | | | | | | | |
| 800 amp | 4/0 | 4/0 | | | | | | | | | | | |

| Conductors | | Mia. O.A. Diam. In. | Approx. Net Wt. Lbs. Per 1000 Ft. | Current Carrying Cap. Amps. | Voltage Drop Per 1000 Ft. at 60°C Volts |
|-----------------------|------------------------------------|------------------------------|--|--------------------------------------|--|
| Size AWG or MCM | Nominal No. of #34 AWG Wires | | | | |
| 8 | 420 | 0.39 | 121 | 50 | 3.71 |
| 6 | 665 | 0.40 | 148 | 75 | 3.58 |
| 4 | 1064 | 0.50 | 231 | 100 | 3.18 |
| 3 | 1330 | 0.50 | 257 | 150 | 3.70 |
| 2 | 1672 | 0.56 | 322 | 200 | 3.92 |
| 1 | 2109 | 0.63 | 406 | 250 | 3.88 |
| 1/0 | 2660 | 0.68 | 491 | 300 | 3.72 |
| 2/0 | 3325 | 0.75 | 603 | 375 | 3.68 |
| 3/0 | 4256 | 0.82 | 751 | 450 | 3.51 |
| 4/0 | 5320 | 0.90 | 919 | 550 | 3.41 |

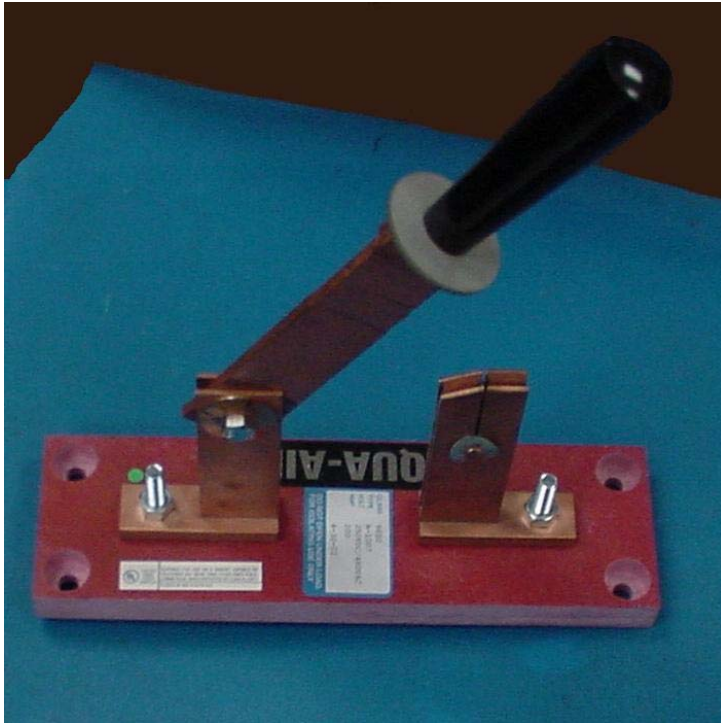
Broco® BR-22 Underwater Oxygen – Arc Cutting Torch, Assembly



| Part No. | Qty. | Description |
|----------|------|------------------------------------|
| 101 | 1 | Grip, handle (left size) |
| 102 | 1 | Grip, handle (right side) |
| 103 | 1 | Head, torch |
| 104 | 1 | Nut, collet |
| 105 | 1 | Washer, compression neoprene |
| 106 | 1 | Collet |
| 107 | 1 | Flash arrestor |
| 108 | 1 | Screen, monel |
| 109 | 1 | Lever, control valve |
| 110 | 1 | Valve stem, Delrin |
| 111 | 1 | Assembly, coupler |
| 112 | 1 | Cable assembly |
| 113 | 1 | Control valve |
| 114 | 1 | Spring, valve stem |
| 115 | 1 | Nut, control valve |
| 116 | 1 | O ring, valve stem |
| 117 | 1 | Washer, neoprene valve stem |
| 118 | 1 | Gasket, copper |
| 119 | 1 | Screw, brass valve lever |
| 120 | 1 | Nut, brass valve lever lock |
| 121 | 4 | Screw, nylon handle |
| 122 | 4 | Nut, nylon handle |
| 123 | 1 | Washer, neoprene collet |
| 124 | 1 | Adapter, oxygen hose |
| 125 | 1 | Connector, Delrin (1/8" Pipe) hose |
| 126 | 2 | Ferrules, KK |
| 127 | 1 | Hose, O ₂ |
| 128 | 1 | Connector, brass (1/4" Pipe) hose |



Knife Switch



| | | | |
|---------------|-------------------|---------------|-------------------|
| Class | 9850 | Class | 9850 |
| Type A | 1007 | Type A | 1009 |
| Volt | 250 DC/ 480 AC | Volt | 250 DC/ 480 AC |
| Amp | 200 | Amp | 400 |

Aqua-Air Ordering Information:

Knife Switches 400 Amp.....A-1009
Knife Switches 200 Amp.....A-1007

Arcair® Sea-Pak® 400-A Power System

| | | |
|---|----------------------------|-----------------------------|
| Part No. 73-101-024 Complete Package | | |
| Part No. 73-102-025 Basic Unit | | |
| Height: 65" (165 cm) | Width: 53" (135 cm) | Length: 72" (183 cm) |

The Sea Pak 400-A Power System is a rugged, compact underwater cutting and welding power system complete with all the equipment and gear necessary for the welder/diver. Sea-Pak eliminates time spent gathering and handling individual components.

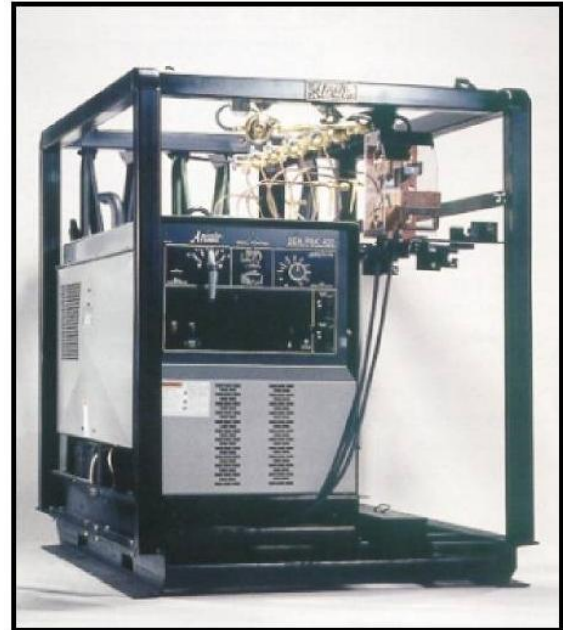
The Power supply is a 400 ampere DC constant current machine, 100% duty cycle at 40 arc volts. A 3 KVA 120 volt, single phase, AC 50/60 Hertz auxiliary power outlet is provided. The diesel driven machine has a fuel capacity of 23 gallons (87 liters).

Arcair Sea-Pak has a five station oxygen manifold and space for five 277 cu. ft. (7.8 cm³) capacity high pressure oxygen cylinders. It is equipped with individual shut-off valves to each cylinder, and includes a two stage, high pressure, high flow regulator. Removable safety bars in front of each oxygen cylinder prevent tipping during shipment or rough weather. The frame is a rugged 3" (7.6 cm) heavy wall square tube design welded into a single unit for maximum strength to handle stress from crane or forklift transportation as well as aboard ships.

The complete Sea-Pak Power System package is designed for maximum safety. The 2 pole, single-throw knife switch together with all electrical fittings ensure against electrical faults. The Plexiglas enclosure of the knife switch meets all OSHA requirements. The power supply is designed so that polarity cannot be changed except by changing cable leads. Arcair's Sea Torch® Combination Torch and Sea-Stinger® II Welding Electrode Holder completes the package which is designed for maximum safety, ruggedness and operator comfort.

Sea-Pak Power System Accessories

400 Amp, 2 pole, single throw knife switch
Cable: 200 ft. 2/0 cable with lugs
Cable: 200 ft. 2/0 cable with Cam-Lok and lugs
Oxygen Hose: 200 ft. 1/4" I.D. hose with fittings



Sea-Pak Power System Basic Includes

- * Heavy wall all-welded frame
- * Five cylinder rack with individual clamps for positive holding and easy replacement.
- * Arcair Sea-Torch Combination Torch
- * 5-Station heavy-duty manifold with individual valves and pigtails
- * Power Source – 400 ampere rated at 40 volts, 100% duty cycle constant current DC output. Auxiliary power outlet 3 KVA 120 volt single phase, AC 50/60 Hz (Diesel Driven)
- * Heavy duty tool box

Part No. 73-102-028
Part No. 73-102-016
Part No. 73-102-017
Part No. 73-102-020

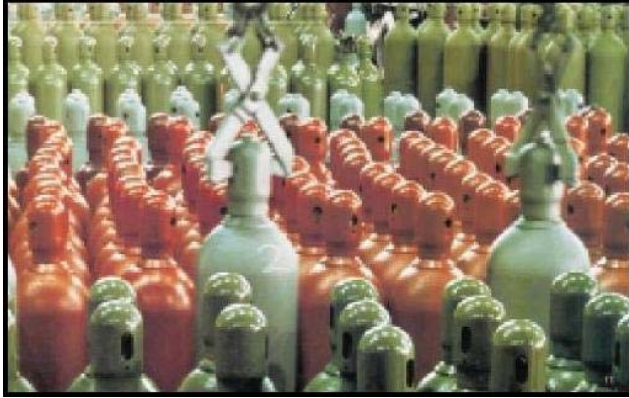
Oxylance High Flow Regulator



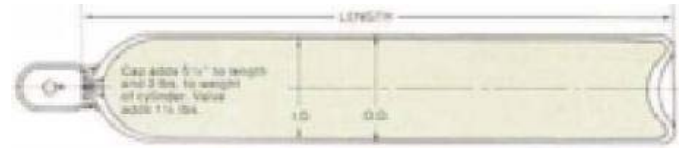
The Oxylance REG-5-250 regulator was designed specifically for ½” hose and high flow requirements. This single stage regulator has a ½” NPT port on the output side so it can be used with ½” or ¾” hose without the flow restriction of a standard regulator with ¼” NPT output. From a high pressure cylinder this regulator will flow in excess of 10,000 scfh. From a high pressure (350 psi) liquid system with external vaporizer this regulator will flow in excess of 7,500 cfh. We do not recommend this regulator for use with a 235 psi liquid Dewar.

| Part # | Description |
|--|--|
| 250 PSI OUT | 250 PSI High Volume (10,000 cfh) ½” NPT Outlet Port |
| REG-5-250 | 250 psi Regulator NPT female outlet port (no outlet fitting) |
| REG-5-250 B | 250 psi Regulator with CGA “B” fitting for 3/8” hose |
| REG-5-250 C | 250 psi Regulator with CGA “C” fitting for 1/2” hose |
| REG-5-250 D | 250 psi Regulator with CGA “D” fitting for 3/4” hose |
| Regulators for Underwater Cutting | |
| 500 PSI OUT | 500 PSI High Volume (10,000 cfh) 1/2” npt Outlet Port |
| REG-5-500 | 500 psi Regulator with ½” npt female outlet port (no outlet fitting) |
| REG-5-500 B | 500 psi Regulator with CGA “B” fitting for high pressure 3/8” hose |
| REG-5-500 C | 500 psi Regulator with CGA “C” fitting for high pressure 1/2” hose |

High Pressure Gas Cylinders



Cylinders are manufactured to permit 10% overfilling in compliance w/ DOT regulations and are so marked (+) when specified by customer.



| Medical | | | | | | | | | | | | |
|-----------------------|---------|--------------------|---------|--------|------|-----------------------------------|----------|------|-----------------|------|----------------|------|
| NWSA Item Code Number | Type | Nominal Dimensions | | | | Nominal Weight Incl. Collar (Lbs) | Capacity | | | | Pressure (psi) | |
| | | ID | OD | Lgth. | Wall | | Gallons | | Water (cu. in.) | | Work | Test |
| 31622 | D Spun* | 3-15/16 | 4.220 | 16-3/4 | .115 | 9 | 250 | 95 | 171 | 180 | 2015 | 3360 |
| 32522 | E Spun* | 3-15/16 | 4.220 | 25-3/4 | .115 | 12-1/2 | 420 | 165 | 283 | 303 | 2015 | 3360 |
| 11022 | M | 6-5/8 | 7 | 43 | .190 | 62-1/2 | 2000 | 800 | 1320 | 1355 | 2015 | 3360 |
| 05122 | G | 8-1/2 | 8-1/2 | 51 | .205 | 96 | 3200 | 1400 | 2340 | 2400 | 2015 | 3360 |
| 22022 | H | 8-61/64 | 8-61/64 | 51 | .215 | 109 | | 1650 | 2640 | 2710 | 2015 | 3360 |

| Ultra High-Pressure | | | | | | | | | | |
|-----------------------|---------|--|--------------------|---------|--------|------|----------------------------------|---------------------|----------------|-------|
| NWSA Item Code Number | DOT 3AA | Approx. Nitrogen Capacity @70° (cu. ft.) | Nominal Dimensions | | | | Nominal Weight Incl Collar (lbs) | Min. Water Capacity | Pressure (PSI) | |
| | | | ID | OD | Length | Wall | | | Work | Test |
| 35023 | 3500 | 336 | 8-1/2 | 9-1/4 | 51 | .375 | 188 | 2640 | 3500 | 5840 |
| 36023 | 3600 | 345 | 8-1/2 | 9-1/4 | 51 | .375 | 188 | 2640 | 3500 | 6000 |
| 60023 | 6000 | 480 | 8-1/2 | 9-51/64 | 51 | .645 | 300 | 2579 | 6000 | 10000 |

| Industrial | | | | | | | | | | |
|-----------------------|--------------------------------------|--------------------|------------|--------|------|-----------------------------------|----------------|------|----------------|------|
| NWSA Item Code Number | Approx. Oxygen Cap. @ 70°F (cu. ft.) | Nominal Dimensions | | | | Nominal Weight Incl. (Collar lbs) | Water Capacity | | Pressure (psi) | |
| | | ID | OD | Length | Wall | | Min | Max | Work | Test |
| 02020 | 20 Spun* | 4-7/8 | 5.188 | 14-1/4 | .140 | 12-1/4 | 218 | 225 | 2015 | 3360 |
| 04020 | 40 Spun* | 6 | 6.3135-3/4 | 21 | .160 | 24 | 480 | 500 | 2015 | 3360 |
| 05520 | 55 Spun* | 5-1/2 | 5-3/4 | 32 | .156 | 30 | 660 | 696 | 2015 | 3360 |
| 08220 | 80 | 6-5/8 | 7 | 32-1/2 | .190 | 53 | 960 | 1010 | 2015 | 3360 |
| 09020 | 90 | 6-5/8 | 7-3/64 | 33-1/4 | .205 | 57 | 980 | 1030 | 2215 | 3700 |
| 11020 | 110 | 6-5/8 | 7 | 43 | .190 | 63 | 1320 | 1355 | 2015 | 3360 |
| 12520 | 125 | 6-5/8 | 7-3/64 | 43 | .205 | 69 | 1320 | 1355 | 2265 | 3775 |
| 15020 | 150 | 7 | 7-13/32 | 46-1/8 | .185 | 75 | 1630 | 1690 | 2015+ | 3360 |
| 16020 | 160 | 7 | 7-13/32 | 49 | .172 | 79 | 1740 | 1810 | 2015+ | 3360 |
| 22020 | 220 | 8-1/2 | 8-61/64 | 51 | .215 | 109 | 2640 | 2710 | 2015 | 3360 |
| 25020 | 250 | 8-1/2 | 9 | 51 | .240 | 120 | 2640 | 2710 | 2265 | 3775 |
| 30020 | 300 | 8-3/4 | 9-1/4 | 55 | .270 | 141 | 2990 | 3060 | 2400 | 4000 |
| 40020 | 400 | 10 | 10-5/8 | 56 | .310 | 191 | 3985 | 4066 | 2400 | 4000 |

*Furnished without collar and cap

NOTE – D & E Types furnished w/ 1/2-14 NGT internal thread, unless otherwise specified

All other cylinders furnished w/ 3/4-14 NGT internal thread, unless otherwise specified

Cylinder Cradle Assemblies

With many thousands in use throughout the United States, cylinder assemblies are a proven, field tested, task rated design for applications requiring high volume gas usage. These units provide the orderly grouping and manifold of single large cylinders. The cradling of cylinders makes a neat, compact, safe maneuverable gas supply that can be easily exchanged for re-charging. Designed to carry standard 244-330 cubic foot cylinders, these cradle assemblies are constructed of formed 7 gauge steel and are supplied with $\frac{3}{4}$ " diameter threaded tie down rods, heavy-duty hex nuts, drain out holes and have a 2000 lb maximum load capacity. Features a positive placement top that secures each cylinder at the collar, a double-welded $\frac{3}{4}$ " diameter bar formed with the new hard coat, gray enamel pain process. NOTE: When ordering any of the cylinder cradles below, the size and type of the cylinders to be mounted must be specified.

CB6-4



Height: 74" Depth: 28-3/4"
Width: 24" Weight: 136 lbs.

The CB6-4 is the most versatile six cylinder cradle on the market today. NO other equipment is needed to roll this unit on and off trucks, loading docks, etc. Designed to handle six 244 cubic foot cylinders and is equipped with two 6" x 2.00" double race, steel, swivel casters and two 6" x 2.00" steel, rigid casters with grease fittings.

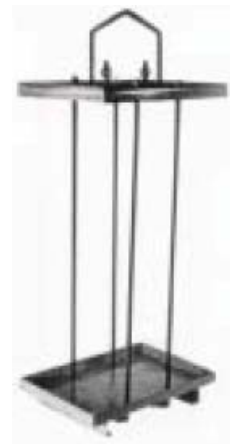
CB6-2



Height: 74" Depth: 28-3/4"
Width: 19-1/2" Weight: 129 lbs.

The CB6-2 carries six 244 cubic foot cylinders or six 330 cubic foot cylinders and is equipped with two 6" x 2.00" steel, rigid casters with grease fittings for use with a separate lever action third wheel assembly. **The lift and pull pin dimension must be specified as 5th wheel assemblies vary in size**

CB-6



Height: 66" Depth: 28-3/4"
Width: 19-1/2" Weight: 121 lbs.

The CB-6 will handle six 244 cubic foot cylinders or six 330 cubic foot cylinders and is designed for shipping or stationary use. This unit has no casters; can be lifted with a forklift.

CB12-4



Height: 74" Depth: 38-1/2"
Width: 28-3/4" Weight: 196 lbs.

The CB12-4 carries twelve 244 cubic foot cylinders and is equipped with two 6" x 2.00" double race, steel, swivel casters and two 6" x 2.00" steel, rigid casters with grease fittings.



Manifold Systems

CM-6



The **CM-6** is a six cylinder manifold for use with cylinder cradles CB6-4, CB6-2, and CB-6.

Length: 26"
Width: 10 lbs.

CM-12



The **CM-12** is a twelve cylinder manifold for use with cylinder cradles CB12-4.

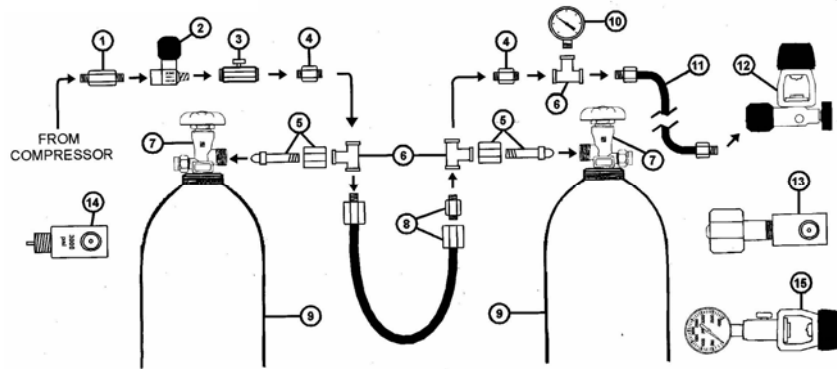
Length: 38"
Width: 15 lbs.

NOTE: When ordering cylinder manifolds, specify the type of gas to be used, i.e. (CGA FITTINGS)



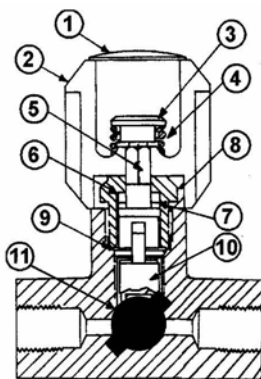
***Replaceable copper and flex pigtails are available upon request**

Cascade Equipment

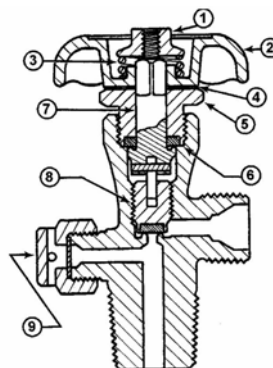


| Item | Part Number | Description |
|------|-------------|---|
| 1 | CV-4M | ¼ x ¼ Male Reverse Flow Check Valve, 3000 psi Rating |
| | CV-MMSS | Same As Above In Stainless Steel, 6000 psi Rating |
| | CV-FFSS | ¼ F x ¼ F Stainless Reverse Flow Check Valve, 6000 psi |
| 2 | YVA-3010 | Line Valve, 6000 psi Rating |
| | YVA-3010A | Panel Mount Line Valve, 6000 psi Rating |
| | LV0 | Line Valve, 6000 psi – ¼ F Inlet x ¼ F Outlet |
| | LV1 | Line Valve, 6000 psi – ¼ F Inlet x ¼ M Outlet |
| | LV2 | Panel Mount Line Valve 6000 psi – ¼ F Inlet x ¼ M Outlet |
| | LV3 | Line Valve, 6000 psi – ¼ F Inlet x ¼ F Outlet with Bleeder |
| 3 | BBVF-1/4 | ¼ x ¼ Female In Line Bleeder, 5000 psi Rating |
| 4 | BF-4HP | ¼ x ¼ Female Connector, 3000 psi Rating |
| | BF-4SS | ¼ x ¼ Female Connector, Stainless Steel, 6000 psi Rating |
| | B-4HP | ¼ x ¼ Male Connector, 3000 psi Rating |
| | B-4SS | ¼ x ¼ Male, Stainless Steel, 6000 psi Rating |
| | BA-4HP | ¼ Male x ¼ Female Connector, 3000 psi Rating |
| 5 | 14-2 | Air Nut, 3000 psi Rating |
| | 14-3 | Air Nipple, 3000 psi Rating |
| | 62 | Oxygen Nut, 3000 psi Rating |
| | 66 | Oxygen Nipple, 3000 psi Rating |
| | 347-2 | CGA-347 Nut, Brass, 5000 psi Rating |
| | 347-3 | CGA-347 Nipple, Brass, 5000 psi Rating |
| | CH-ADAPTOR | ¼" M (NPT) to ¼" M (JIC 37° Flare), 5000 psi Rating; for CH-5 or CH-xx Filler Hoses |
| 6 | T-346 | CGA-346 Air Tee, 3000 psi Rating |
| | T-62 | CGA-540 Oxygen Tee, 3000 psi Rating |
| | BFT-4HP | ¼" x ¼" x ¼" Female Tee, Brass, 3000 psi Rating |
| | T347 | ¼" x ¼" x ¼" Female Air Tee, Steel (Not Stainless), 5000 psi Rating |
| | BFT-4SS | ¼" x ¼" x ¼" Female Tee, Stainless Steel, 6000 psi Rating |
| *7 | BI34661-35 | ¾" Air Valve, CGA-346, 3000 psi Rating |
| | TV34761-65 | ¾" Air Valve, CGA-347, 5000 psi Rating |
| | BI54061-35 | ¾" Oxygen Valve, CGA-540, 3000 psi Rating |
| 8 | P-1340 | Air Pigtail, CGA-346, 3000 psi Rating |
| | P-63 | Oxygen Pigtail, CGA-346, 3000 psi Rating |
| | PT-347 | 5000 psi Flexible Pigtail, CGA-347, ¼" Fittings, 24" in Length with Male Adaptor |
| 9 | HP-4500 | 4500 psi Storage Cylinder with CGA-347 Valve |
| 10 | 490031 | 6000 psi Steel Gauge |
| | GB-4303 | Gauge Boot |
| 11 | CH-5' | 5' 5000 psi Filler Hose with Fittings, ¼" Male NPT Fittings, Includes CH-ADAPTOR |
| | CH-xx | Filler Hose with Fittings, Custom Length Over Five Feet |
| 12 | YFBLD-2 | Filler with Shut Off and Bleeder, ¼" 3000 psi Rating |
| | YBLD-1 | Filler Yoke and Bleeder Only, 3000 psi Rating |
| 13 | SYA-3030 | Scuba to Scuba Adaptor, 2250 psi Rating |
| 14 | SYA-5301 | Scuba to DIN Charging Adaptor, 300 Bar |
| 15 | G-YBLD | Scuba Tank Checker Assembly (for DIN Tank Checker Order SA-4404) |

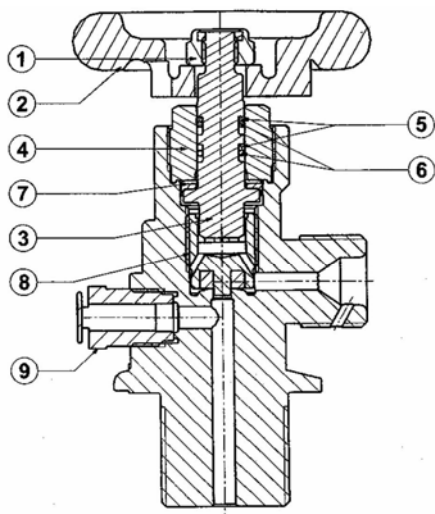
Cascade Equipment Cont.



| Part # | Description |
|--------|--|
| 1 | LV-CAP Handwheel Cap |
| 2 | LV-KNOB Handwheel for Line Valve |
| 3 | LV-NUT Handwheel Nut |
| 4 | LV-SPRING Handwheel Spring |
| 5 | LV-STEM Stem for LV Series Valves |
| 6 | LV-PACK1 Thick Teflon Packing |
| 7 | LV-PACK2 Thin Teflon Packing |
| 8 | LV-BONNET Bonnet for LV Series Valves |
| 9 | LV-WASHER Bonnet Washer |
| 10 | LV-PLUG Plug and Seat Assembly |
| 11 | LV-BLEED Bleeder Assembly for LV3 |
| 12 | LV-PIN (Not Shown) Roll Pin to Retain LV-BLEED |



| Part # | Description |
|--------|--------------------------------|
| 1 | 47-1003 Handwheel Nut |
| 2 | 1401 Handwheel |
| 3 | 45-1012 Spring |
| 4 | 1413 Handwheel Washer |
| 5 | 1250-2 Bonnet |
| 6 | 1250-6 Packing |
| 7 | 1250-30 Upper Stem Assembly |
| 8 | 1250-40 Plug and Seat Assembly |
| 9 | See Safety Assemblies |



| Part # | Description |
|--------|--------------------------|
| 1 | 495033-0 Handwheel Nut |
| 2 | 85075-0 Handwheel |
| 3 | * Upper Stem |
| 4 | * Bonnet |
| 5 | * Back Up Ring |
| 6 | * Oring |
| 7 | * Washer |
| 8 | * Plug and Seat Assembly |
| 9 | See Safety Assemblies |

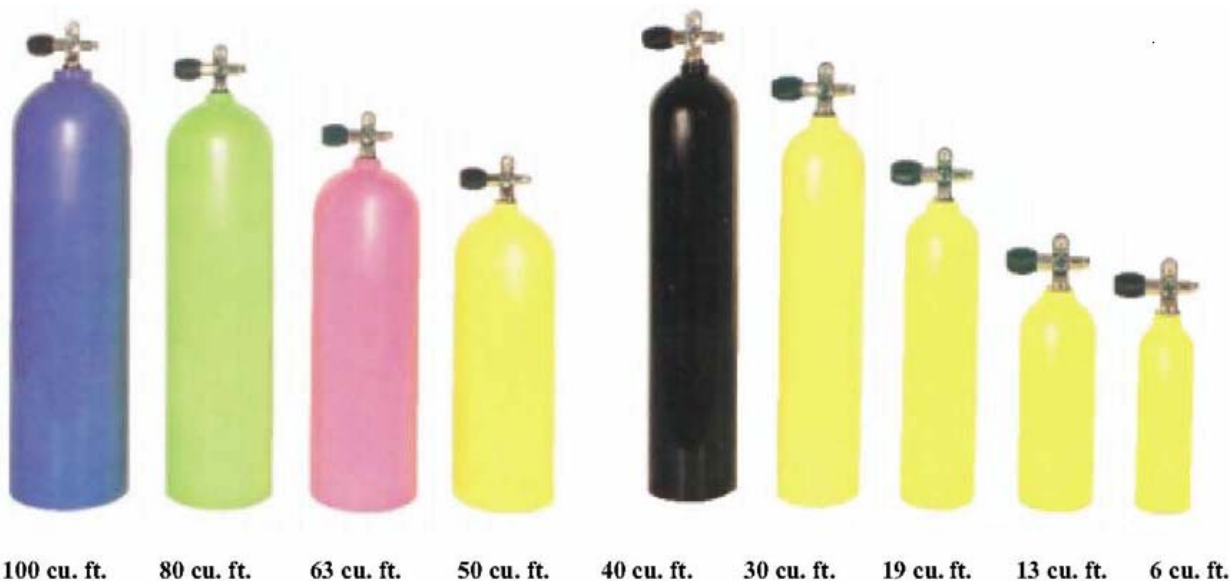
* Sub assembly; call for part number as sub assemblies differ on valves w/ different CGA's

* Item numbers vary from CGA to CGA

Filling & Storage Equipment



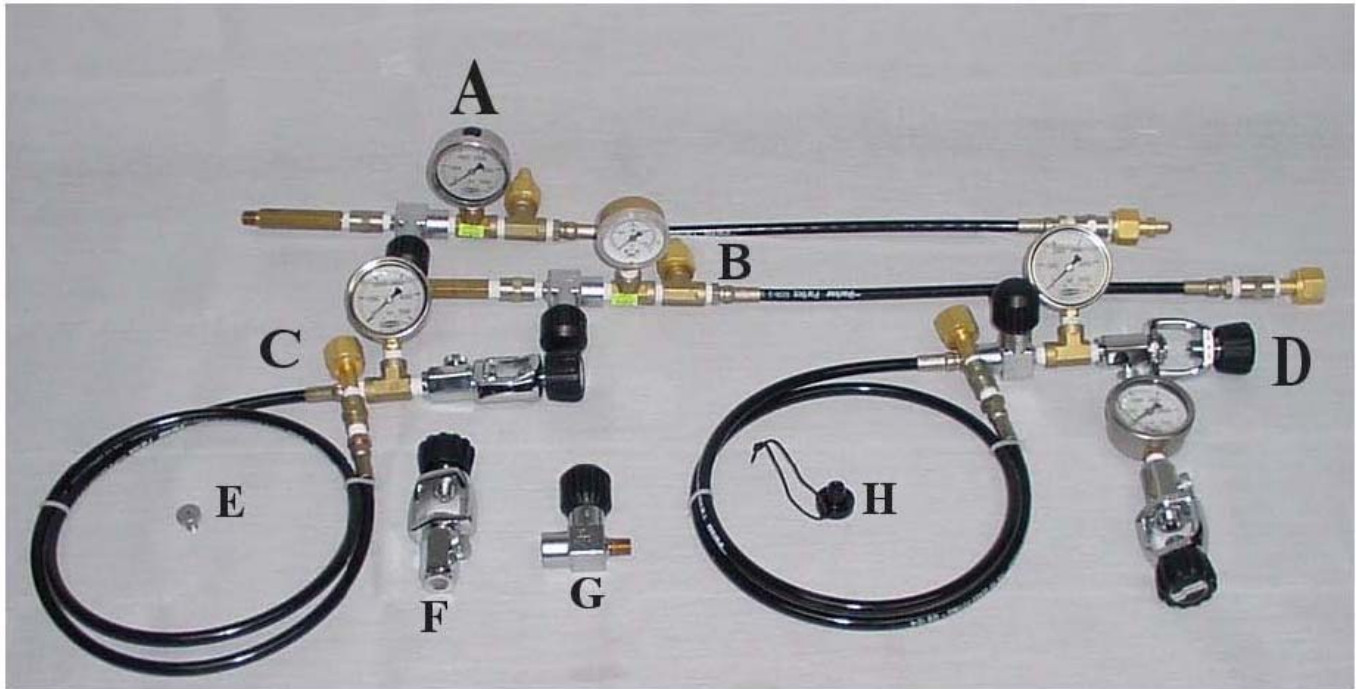
Filling & Storage Equipment Cont.



| Part # | Service Pressure PSI | Capacity (Cu. Ft.) | Outside Diameter (in.) | Length (in.) | Weight (lbs.) | Buoyancy Empty (lbs.) |
|---------|----------------------|--------------------|------------------------|--------------|---------------|-----------------------|
| AC6YL | 3000 | 6.0 | 3.20 | 11.2 | 2.6 | 0.0 |
| AC13YL | 3000 | 13.3 | 4.40 | 12.9 | 5.8 | -0.6 |
| AC19YL | 3000 | 19.0 | 4.38 | 17.1 | 7.5 | +0.2 |
| AC30YL | 3000 | 30.0 | 4.40 | 21.8 | 11.8 | +1.0 |
| AC40BK | 3000 | 40.0 | 5.25 | 24.8 | 15.3 | +2.1 |
| AC50YL | 3000 | 48.5 | 6.90 | 19.0 | 21.2 | +1.2 |
| AC63XX | 3000 | 63.0 | 7.25 | 21.8 | 26.9 | +2.3 |
| AC80XX | 3000 | 77.7 | 7.25 | 26.0 | 31.7 | +3.9 |
| AC100XX | 3300 | 100.0 | 8.00 | 26.2 | 40.8 | +3.5 |



Fill Whips, HP, and Parts



| Letter | Part No. | Description |
|--------|----------|---|
| A | TBM-346 | Twin Bottle Manifold Air, CGA-346 |
| B | TBM-540 | Twin Bottle Manifold Oxygen, CGA-540 |
| C | FW-6000 | 6' Fill Whip, Yoke and Bleed Screw, Gauge & CGA-346 Air Cylinder Connector |
| D | FWV-6000 | 6' Fill Whip w/ Valve, Yoke and Bleeder Screw, Gauge & CGA-346 Air Cylinder Connector |
| E | BS-5000 | Bleeder Screw for Scuba Yoke |
| F | YB-5000 | Yoke & Bleeder Screw |
| G | YVA-3010 | Line Valve, 1/4" NPT Female IN x 1/4" NPT Male Out, 6000 PSI |
| H | DC-280 | First Stage Dust Cap |
| I | TG5000 | Tank Pressure Gauge, 0-5000 PSI & Yoke & Bleeder Screw |

Line Valves



| Part # | Description |
|--------|---|
| LV0 | Line Valve 1/4" F x 1/4" F 6000 psi Brass |



| Part # | Description |
|--------|---|
| LV1 | Line Valve 1/4" F x 1/4" M 6000 PSI Brass |



| Part # | Description |
|--------|--|
| LV2 | Panel mount line valve 1/4" F x 1/4" M 6000 psi Brass |



| Part # | Description |
|--------|---|
| LV3 | Line valve w/ bleeder 1/4" F x 1/4" F 6000 psi Brass |

- * All LV series valves are rated at 6000 psi *
- * All LV series valves use the same valve chamber repair parts *
- * All LV series valves have oxygen compatible parts *
- * All LV series valves are chrome plated *
- * Custom inlet and outlets are available *

Bleeders



| Part # | Description |
|-------------|---|
| BBVF-1/4 | Brass inline bleeder 1/4 x 1/4 Female |
| BBVF_BLEEDI | Bleed Screw |



| Part # | Description |
|-------------|---|
| SBVMF-1/4 | Stainless steel 1/4" F x 1/4" M bleeder |
| SBVF-BLEEDI | Stainless steel Bleeder screw |
| SBVF-SEAT | Nylon seat |



| Part # | Description |
|------------|--|
| SBVF-1/4 | Stainless Steel 1/4" x 1/4" Female Bleeder |
| SCVF-BLEED | Stainless steel Bleed screw |
| SBVF-SEAT | Nylon seat |



| Part # | Description |
|------------|---|
| SBVM-1/4 | Stainless steel Drain bleed 1/4" Male |
| SBVF-BLEED | Stainless steel Bleed screw |
| SBVF-SEAT | Nylon seat |

Cylinder Valves



| Part # | Description |
|--------------|--|
| DF1165195-24 | Dual 1/4" outlet cylinder valve for 3/4"-1424 OS cyl., NGT |

| Part # | Description |
|---------------|---|
| TVA3465148GSP | CGA346 x 3/4-14 NPSM w/ gauge port. This valve fits standard scuba tanks. Use as auxiliary air source |



| Part # | Description |
|------------|---|
| DF11661-95 | 3/4-14 NGT inlet, 2-1/4" outlets for 6000 psi cylinders |

| Part # | Description |
|--------|-----------------------------------|
| YV2300 | 2250 psi SCBA valve for air packs |
| YV4501 | 4500 psi SCBA valve for air packs |



| Part # | Description |
|------------|---|
| BI34641-XX | Air 0-3000 psi, CGA346, 1/2" NGT inlet |
| BI34661-XX | Air 0-3000 psi, CGA346, 3/4" NGT inlet |
| BI34681-XX | Air 0-3000 psi, CGA346, 1" NGT inlet |
| BI34761-XX | Air 3001-5000 psi, CGA347, 3/4" NGT inlet |
| BI54041-XX | Oxygen, CGA540, 1/2" NGT inlet |
| BI54061-XX | Oxygen, CGA540, 3/4" NGT inlet |
| BI54081-XX | Oxygen CGA540, 1" NGT inlet |
| BI68061-XX | Inert 3001-5500 psi, CGA680, 3/4" NGT inlet |
| BI70261-XX | Air 5501-7500 psi, CGA702, 3/4" NGT inlet |

How to Order Oversize Valves (-4 or -7 THDS Available)

Oversize valves add "-4" or "-7" to the end of the part #

Ex. BI54061-XX-7 (CGA540 Outlet, 3/4" -7 O/S Inlet)

Check Valves

Torch Model, B-Size (9/16" – 18)



Mounts easily on torch, is readily seen and can be removed for periodic testing. Flows adequate to cut 12" steel plate or handle heating tips (1200 SCFH at 50 PSI). Preferred for stopping reverse flow nearest point of origin.

CGA-022 Oxygen RH, B-Size Male to B-Size Female Nut – CV-7R
CGA-023 Fuel Gas LH, B-Size Male to B-Size Female Nut – CV-8L

Cylinder Pressure Testing Gauges 2" Brass



CGA-540 Oxygen, 3000 PSI – G-544



CGA-540 Oxygen, w/ Hand-Tight Nut, 3000 PSI – G-544H
CGA-540 Oxygen, w/ Hand-Tight, 4000 PSI – G-544AH

Check Valves Cont. Manifold Tubing Copper, Brass & Stainless Steel



| Material | OD & Wall | Length | Style | Part No. |
|--------------------|---------------|--------|----------|----------|
| Copper, Annealed | 5/16" x .065" | 27" | 2 Loop | CT-63 |
| | 5/16" x .065" | 27" | 1 loop | CT-64 |
| | 5/16" x .065" | 38" | 1 Loop | CT-65 |
| | 5/16" x .065" | 48" | 1 Loop | CT-66 |
| | 1/4" x .065" | 50 ft | Coil | CT-40 |
| | 5/16" x .065" | 50 ft | Coil | CT-50 |
| | 3/8" x .065" | 50 ft | Coil | CT-60 |
| Brass | 5/16" x .065" | 38" | Straight | BT-65 |
| | 3/8" x .065 | 38" | Straight | BT-66 |
| Type 304 St. Steel | 1/4" x .049" | 27" | Straight | SS-64 |
| | 1/4" x .049" | 38" | Straight | SS-65 |
| | 1/4" x .049" | 48" | Straight | SS-66 |
| | 1/4" x .049" | 60" | Straight | SS-67 |

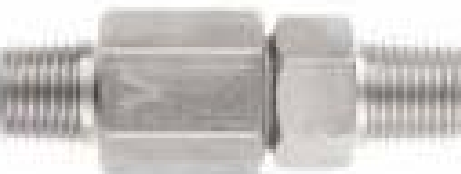
Check Valves



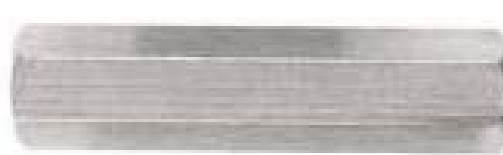
| Part # | Description |
|----------|---|
| CVF-4MSS | Stainless check valve 6000 psi 1/4" F x 1/4" M |
| CVM-4FSS | Stainless check valve 6000 psi 1/4" M x 1/4" F |



| Part # | Description |
|------------|---|
| FILTER-MxF | Stainless micron filter 6000 psi 1/4" x 1/4" F |



| Part # | Description |
|---------|---|
| CV4-MSS | Stainless check valve 6000 psi 1/4" M x 1/4" M |



| Part # | Description |
|------------|---|
| FILTER-FxF | Stainless micron filter 6000 psi 1/4" F x 1/4" F |

6000 PSI Check Valves Models 594 & 684

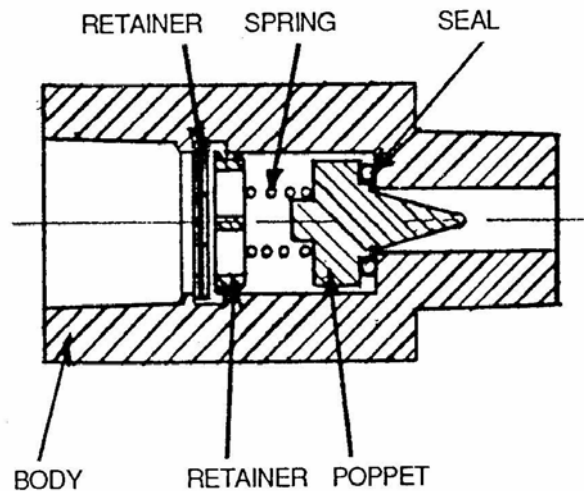
General Information

Two sizes of check valves are offered. The model 594 is a 1/4" pipe thread size. The model 684 is 1/2" pipe size for larger flows.

Check valves permit flow only in one direction in a gas or liquid line thus eliminating the possibility of back flow. The simple, reliable design uses a standard O-Ring seal. This type of seal insures bubble tight sealing even with slight differential pressures in the reverse direction. In the event the seal is damaged, it can be easily changed. The valves will take 6000 PSI reverse pressure differential without damage. With flow in the forward direction the valves open easily since a light spring can be used with an O-ring seal. They handle the full range of rated flows without chatter or noise common to some check valves.

Technical Specifications

| | |
|--|--------------------------------------|
| * Maximum pressure | 6000 PSI (40 MPa) |
| * Maximum differential pressure across valve | 6000 PSI |
| * Opening pressure | 5 to 10 PSI |
| * Flow coefficient | |
| model 594 | Cv = 0.16 (5/32" orifice) |
| model 684 | Cv = 0.55 (9/32" orifice) |
| * Fluids | gases or liquids |
| * Ports | |
| model 594 | inlet 1/4" M NPT; outlet, 1/4" F NPT |
| model 684 | inlet 1/2" M NPT; outlet, 1/2" F NPT |
| * Size | |
| model 594 | 7/8" hex by 2" long |
| model 684 | 1-3/8" hex by 2.5" long |
| * Materials | |
| | body – anodized aluminum |
| | internals – brass |
| | seal – Viton |
| | spring – stainless steel |



Typical Applications

- * Used between compressors and separators to prevent leak down via compressor valves and rings and to permit easy unloading of the compressor
- * Filling station control and logic
- * Numerous other control and logic functions in gas and liquid lines
- * Control in cascade filling systems

6000 PSI Bleed Valve Model 712

General Information

The model 712 bleed valve is designed to vent high pressure from charging lines, filters, separators, and other volumes where pressure must be relieved to disconnect lines, tanks, etc. It uses an exclusive seal design with a captured Teflon™ seal. Unlike other bleed valves it can be open and shut many thousands of times even in relatively dirty systems without loss of sealing ability. Light finger pressure is all that's required to affect a complete seal at pressures at 6000 PSI. Over torquing the valve will damage the seal.

Flow through the valve can be in either direction. It can also be used at the end of a line or on a vessel by capping one of its fittings. In this way it can serve as a drain valve at the bottom of a separator vessel as well as a bleed valve.

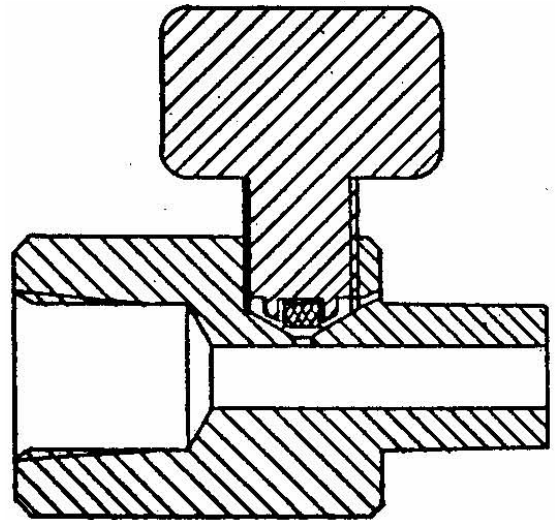


Technical Specifications

- * Pressure rating 6000 PSI
- * Fittings 1/4" male & 1/4" female pipe thread
- * Materials
 - Body anodized aluminum
 - Seal Teflon
- * Size 7/8" hex body x 1.6" lg
- * Vent hole size 1/16" diameter

Typical Applications

- * Bleed valves on charging lines
- * Bleed valves on lines at air fill stations
- * Bleed valves on filters to permit filter changing
- * Drain valves on separators
- * Pressure bleed to permit disconnecting O-Ring sealed fittings



Filler Valves



| Part # | Description |
|--------|-----------------------------------|
| YBLD-Y | 1/4" Female scuba yoke w/ bleeder |



| Part # | Description |
|--------|-----------------------------|
| G-YBLD | Scuba tank pressure checker |



| Part # | Description |
|----------|---|
| SYA-3030 | Scuba to SCBA to fill 2216 CBA from scuba fill yoke |

Not Pictured Separately

| | |
|----------|-------------------------------------|
| 9-3030-Y | Brass scuba block x 1/4" F 3000 PSI |
|----------|-------------------------------------|



| Part # | Description |
|----------|---|
| SYA-4040 | SCBA to scuba to fill scuba tanks from low pressure SCBA filler |



| Part # | Description |
|---------|---|
| SCBA-LP | For filling SCBA air packs for firefighters. Assembly consists of handtight CGA346, line valve w/ bleeder, and 5' fill whip |
| SCBA-HP | Similar to above but uses CGA347 to fill 4500 psi air packs |



| Part # | Description |
|---------|---|
| YFBLD-2 | Scuba yoke filler w/ shut off and bleeder 1/4" FMPT |

6000 PSI Unloader Valves Models 880 & 907

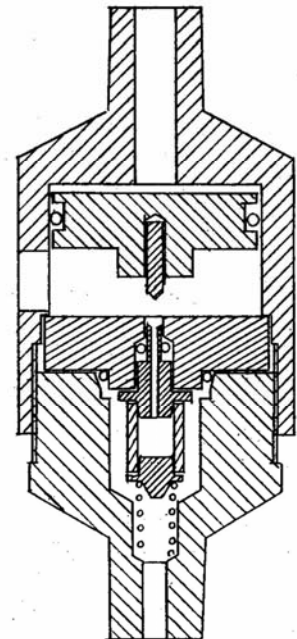
General Information

Both the model 880 and 907 unloader valves use a low control pressure to shut off a high pressure line such as a compressor discharge. The control pressure could be low pressure shop air, air or gas from a compressor interstage line, or pressure generated by a compressor oil pump to mention a few possibilities. The primary use of these valves is to relieve pressure in compressor interstage and discharge piping when it is shut down so it can be restarted without a load. When control pressure to the valve is released, the valve opens. The model 880 is more sensitive than the 907 requiring only 15 PSI control pressure to close a 6000 PSI line. The model 907 requires 70 PSI.

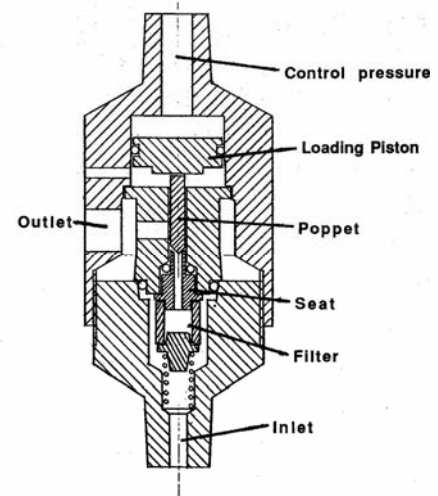
The model 880 has a maximum control pressure rating of 500 PSI and care must be taken not to exceed this pressure at the control end of the valve. The model 907 will take control pressures as high as 5000 PSI without damage. The model 880 vents directly to its surroundings via a drilled side port. The model 907 vent can be piped away via the 1/8" pipe thread side port. Both valves have internal filtration and over pressure protected soft seals to ensure long term, bubble tight, reliable operation.



Model 880



Model 907





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Harvey, LA 70058 USA
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www.aquaairind.com
EMAIL sales@aquaairind.com

6000 PSI Unloader Valves Models 880 & 907 cont.

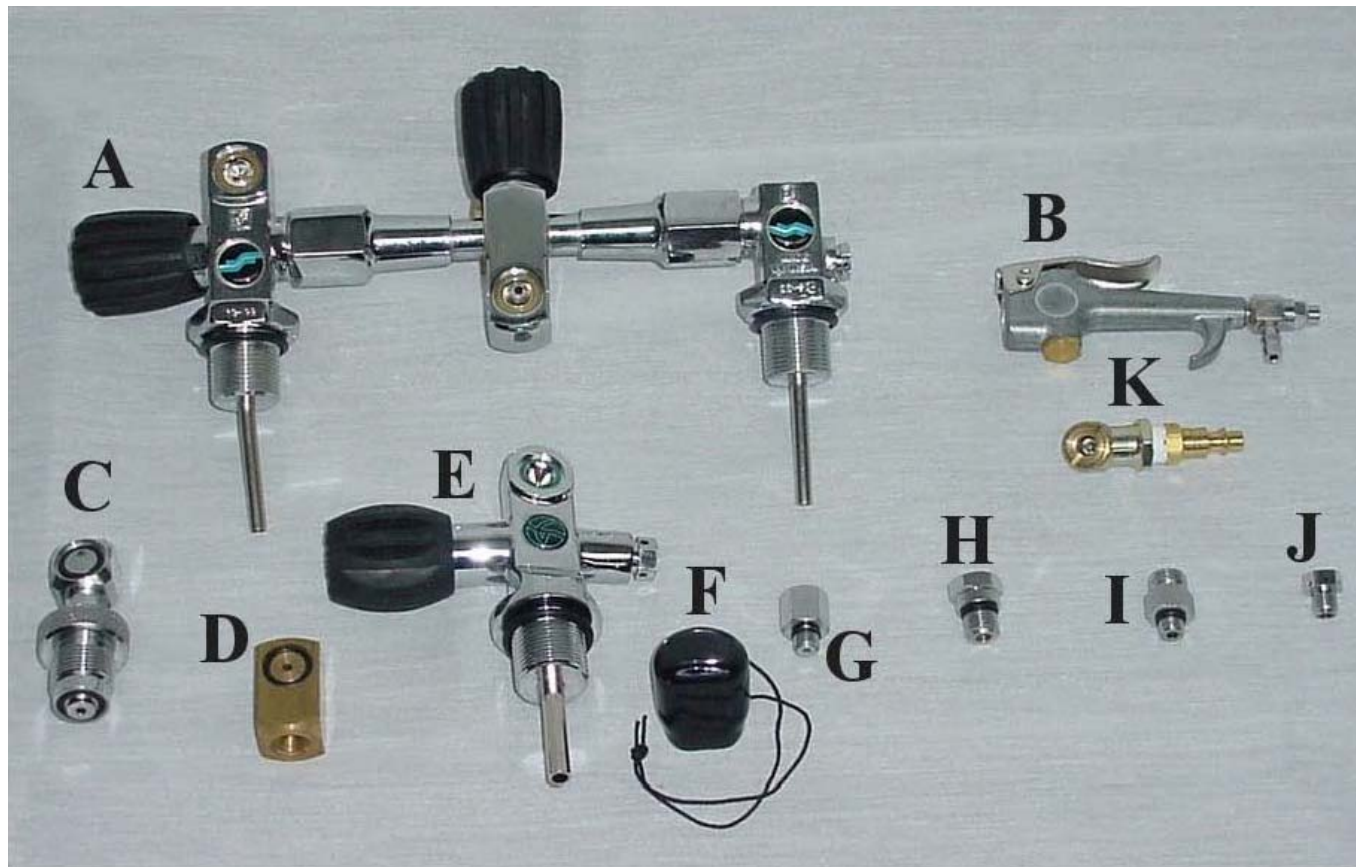
Specifications

| | | |
|----------------------------|----------------------------|---|
| * Maximum rated pressure | | 6000 PSI (40 MPa) |
| * Maximum control pressure | | |
| model 890 | | 500 PSI |
| model 907 | | 5000 PSI |
| * Minimum control pressure | | |
| model 890 | | 15 PSI at 6000 PSI inlet 10 PSI at 4000 PSI 5 PSI at 2000 PSI |
| model 907 | | 70 PSI at 6000 PSI 50 PSI at 4000 PSI 25 PSI at 2000 PSI |
| * Flow capacity | | |
| model 890 | | Cv=.03 (.036" orifice) |
| model 907 | | Cv=.06 (.06" orifice) |
| * Inlet filtration | | 20 micron |
| * Materials | body internals seals | anodized aluminum brass, stainless steel KEL-F, nylon, Viton |
| * Ports | | |
| Inlet | | 1/4" male NPT |
| Control | | 1/4" male NPT |
| Outlet | | |
| | model 880 | ambient direct |
| | model 907 | 1/8" female NPT |
| * Size | | 1.5" dia. x 3.5" long |

Typical Applications

- * Unload high pressure compressor interstage and discharge lines upon shut down
- * Automatic condensation drains for compressor separators
- * Control of high pressure lines using low pressure air and inexpensive low pressure solenoids
- * Numerous other control and logic functions
- * Process industry control of liquids and gases
- * Air tank fill stations

Adaptors



| Letter | Part No. | Description |
|--------|--------------|---|
| A | SVB4000KDE48 | Sherwood Double tank manifold, with Dual outlet |
| B | AA03 | Blow Down Valve |
| C | SAA5301 | DIN Fill adapter |
| D | 9-3030-1 | Scuba block x 1/4" NPT Female |
| E | KA-30 | K-Valve, Standard 3/4" O-Ring Seal |
| F | 56180 | Valve Protectors, Scuba |
| G | 57270 | Adapter, Male 3/8" to Female 7/16" |
| H | 57290 | Adapter, Male 1/2" to Female 3/8" |
| I | #230 | First stage Male threads w/ O-ring x O2 Male, Nickel Plated |
| J | VP26-30 | 3000 psi Burst Disk Safety Ring |
| K | AA-01 | Inflator Quick couple nipple w/ tire inflator |
| | | <u>Not Pictured</u> |
| * | AA02 | Air Blower |

High Pressure Flow Limiters Fuse Model 443 & Restrictor Model 796

General Information

Both the model 443 flow fuse and restrictor model 796 serve as a safety device that prevents high flow rates in the event high pressure lines break or become disconnected.

With the flow fuse, normal flow rates pass unrestricted. When flow substantially exceeds the normal rate an active element in the fuse closes. A slight leakage in the shut position permits equalizing at charging lines and automatic reopening of the fuse in the event an excessive surge shuts the valve.

The model 796 flow restrictor uses a small orifice but no active element to limit flow. Its advantages are: simplicity, and the insurance that the flow will not be shut off due to unusual surges. Its disadvantages are: some restriction in normal flow, and some continuing flow in the event at line breakage. In some cases the flow restriction can be an advantage. For example it will slow fill times of small tanks preventing "hot" fills. In the event of line breakage some noise and line whip could still occur. However flow rate and whip will be reduced to about 1/10 (10%) that of an unrestricted line.

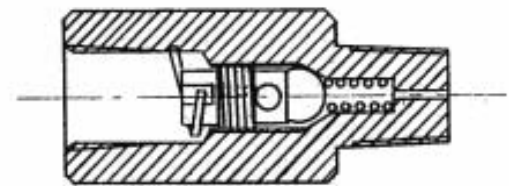
Technical Specifications

Model 443 Flow Fuse

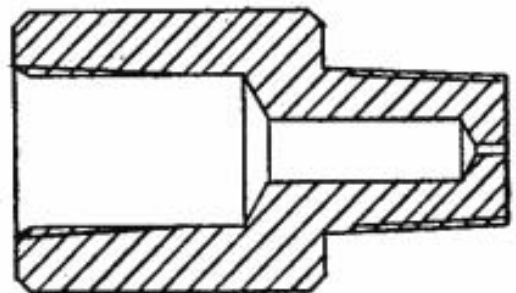
- * Maximum rated pressure 6000 PSI (40 MPa)
- * Nominal flow rate to shut 80 SCFM at 5000 PSI
55 SCFM at 2500 PSI
(can be adjusted)
- * Size 7/8" hex by 2.1" long
- * Ports 1/4" female NPT in
1/4" male NPT out

Model 795 Restrictor

- * Maximum rated pressure 6000 PSI (40 MPa)
- * Nominal orifice size .040" diameter
(other sizes available)
- * Maximum flow (with 5000 PSI across restrictor) 90 SCFM
- * Time to fill 50 ft., 2250 PSI tank with 2250 PSI upstream at
restrictor about 3 minutes
- * Size 7/8" hex by 1.5" long
- * Ports one 1/4" male NPT
One 1/4" female NPT



MODEL 443 FUSE



MODEL 796 RESTRICTOR

Typical Applications

- * High pressure air station filling hoses
- * Hydraulic lift lines
- * Other hydraulic or gas flexible lines
- * Flow limiters for tank filling
- * Flow limiters for pneumatic operators

6000 PSI Pressure Relief Valve Model 504

General

The model 504 is an economical, small, high pressure relief valve having excellent set pressure control over a large pressure range to 6000 PSI. It stays bubble tight to within a few PSI of set pressure and reseats bubble tight even after many vent cycles. Safety wire holes are provided for optional locking at set pressure adjustment.

Specifications

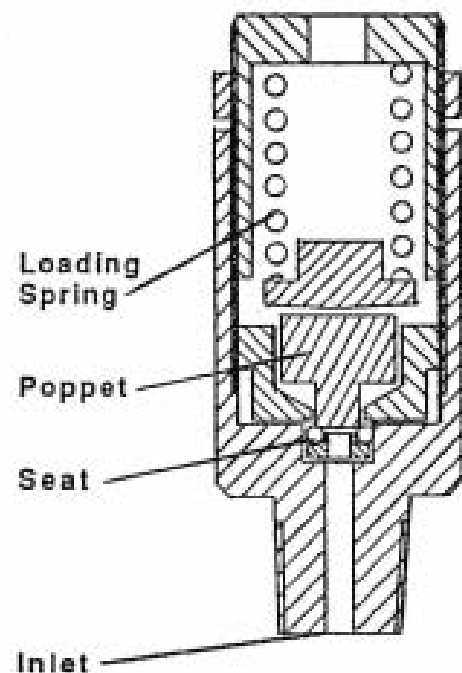
| | |
|----------------------|---|
| * Set pressure | adj. 300 to 6000 PSI |
| * Leakage | bubble tight |
| * Max. flow (air) | 100 SCFM at 1300 PSI 50 SCFM at 1500 PSI |
| * Equivalent orifice | .078 inch dia. |
| * Fluids | gas or liquid |
| * Inlet | 1/4" male NPT |
| * Outlet | side vent |
| * Size | 7/8" hex by 2.1" long |
| * Temperature | 40°F to 160°F |
| * Materials | bronze, anodized aluminum & Viton |

Features

- * Soft seal provides excellent sealing and resealing
- * Unique design eliminates seal damage or extrusion
- * Easy in field maintenance
- * Zero seal hysteresis design assures excellent repeatability without lubricant

Typical Applications

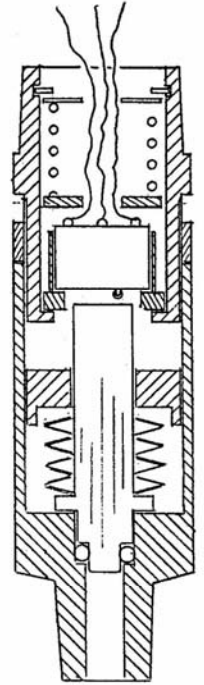
- * Discharge and interstage reliefs on small high pressure compressors
- * Reliefs on charging lines, regulators, and manifolds
- * Hydraulic system and accumulator reliefs
- * Many other safety relief valve applications



6000 PSI Pressure Switch Model 853

General Information

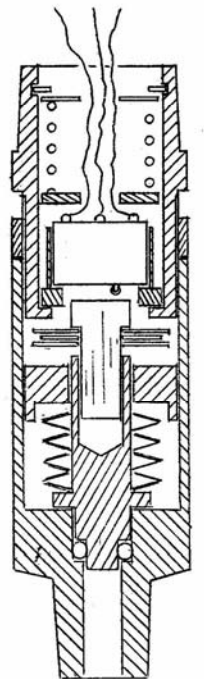
The model 853 is a 0 to 6000 PSI adjustable pressure switch designed for either pneumatic or liquid service. The model 853-1 is the same as the 853 except it employs a temperature compensating element. It's primary purpose is to permit filling natural gas cylinders on a cold day without the danger of the cylinders becoming over pressurized if moved to a warm area. Consequently the set pressure of the 853-1 decreases with temperature.



853 Cross Sectional View



853 Mounted to Standard Electrical Box





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www.aquaairind.com
EMAIL sales@aquaairind.com

6000 PSI Pressure Switch Model 853 cont.

Specifications

| | |
|-------------------------------|---|
| * Maximum pressure | 6000 PSI (40 MPa) |
| * Electrical rating | 5 amps, 250 VAC, UL & CSA listed |
| * Switch | SPDT (NO & NC) |
| * Operating temperature range | -50°F to 160°F |
| * Pressure connection | ¼" male NPT |
| * Electrical end connection | ½" male NPT |
| * Size | 7/8" hex by 3.1" long |
| * Materials | body internals anodized aluminum brass, stainless, Viton Seals |
| * Temperature compensation | model 853 model 853-1 none 9 PSI / F (0.11 MPa/K) |

Features

The 853 pressure switch is a simple, compact unit that offers exceptional accuracy. It is trouble free and required no routine maintenance. The temperature compensated version (model 853-1) can be supplied with different temperature sensitivities on special order. As normally supplied, the 853-1 approximates the pressure variation with temperature of compressed natural gas. The purpose being to prevent overfilling of cylinders in a cold environment.

Typical Applications

- * Compressor shut off control
- * Process industry control
- * Gas or hydraulic over-pressure shut off
- * Test panel shut off and control
- * Filling compressed natural gas (CNG) cylinders for mobile equipment.

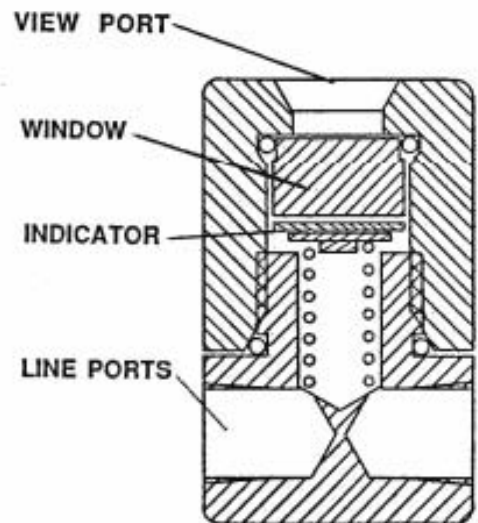
5000 PSI Air Line Moisture Indicator Model 585

General Information

The visual indicator allows an operator to see a moisture indicated card in the high pressure line. The cards are seen through a high strength plastic window. The moisture card is divided into sections which progressively change color from blue to pink as moisture increases. Alternately other visual color changing indicators including a carbon monoxide indicator are available. Moisture indication tells when to change chemical drying cartridges. Normally cartridges should be changed when the indicator shows 40 to 60% relative humidity downstream at the dryer. Under high pressure, 60% relative humidity is still very dry air. For example, 3000 PSI air with a relative humidity at 60% has a dew point at 48°F.

The indicator cards are easily removed and changed from the front of the unit. No access to the back of the unit or disconnecting at lines is required. No tools are required. Pressure must be released before opening.

Indicator card, Part No. 592-5, shows relative humidity of 20, 40 and 60%. Indicator, Part No. 592-6, shows both relative humidity and dangerous levels of carbon monoxide in the air stream. However, the carbon monoxide indicator responds slowly over a period of several minutes so only provides an adequate warning for slowly changing conditions. Consequently, it should be considered only a back up to faster responding electric instruments if sudden carbon monoxide builds up can occur. Consult factory for further details.



Technical Specification

- * Maximum pressure rating 5000 PSI
- * Inlet & outlet ports 1/4" female NPT
- * Size 1 1/2" dia. X 2 1/4" with 1/2" dia. Viewport
- * Humidity indicator shows when humidity exceeds 20, 40 and 60%
- * Carbon monoxide indicator shows when CO exceeds about 100 PPM

Typical Applications

- * Humidity indicators in high pressure air lines
- * Dryer/filter unit change indicators
- * High pressure compressors
- * High or low pressure air stations
- * High or low pressure process industry lines and systems
- * Instrument and high purity air lines

Manifold Hex Blocks, Brass & Stainless Steel



MB-6

Brass, 2" Block, to 3000 PSI – Six ¼" NPT Female Side Outlets – **MB-6**

Brass, 2" Block, to 3000 PSI – Seven Side/Top ¼" NPT Female Outlets – **MB-7**

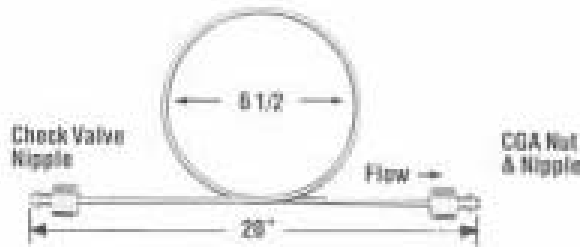


MB-7SS

Stainless Steel, 2" Block, to 6000 PSI – Six ¼" NPT Female Side Outlets – **MB-6SS**

Stainless Steel, 2" Block, to 6000 PSI – Seven Side/Top ¼" NPT Female Outlets – **MB-7SS**

Stainless Steel Rigid Pigtails w/ Stainless Steel Connections



¼" x .049" Wall Stainless Steel Tube

20" Finished Length Overall

Type 316 SS CGA Fittings with or without Check Valves

500 PSI (3400 kPa)

3000 PSI (20700 kPa)

6000 PSI (42300 kPa)

CGA-346 Air, RH Female, 3000 PSI – **PS-346**

CGA-540 Oxygen, FH Female, 3000 PSI – **PS-540**

PS-540CV w/ Check Valve

Regulator Inlet Nuts & Nipples, Specification Guide

NOTE: Specify Nut & Nipple desired by using appropriate part number. Part numbers vary to allow easier ordering of specific nut and nipple types.

- * Brass Nut & Nipple
- * Stainless Steel Nut & Nipple
- * Nut & Nipple w/ Check Valve
- * Nut & Nipple Recessed for Tubing
- * Hand-Tight Nut & Nipple



Check Valve Nipples

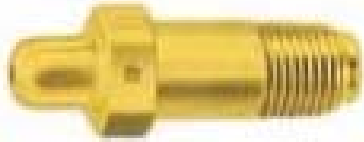
Nipples w/ integral check valves are designed for additional safety in Manifold systems and other equipment. Build into Pigtaills, Tee Connections and Manifold Blocks to resist back-flow of gas from lines, equipment and cylinders. Check Valves are factory installed into nipple and 100% tested. Note: these are reverse flow Check Valves only and are not to be used as Flash Arrestors. Refer to Table of Contents for Flash Arrestor Listings.

Regulator Nuts & Nipples, Brass & Stainless Steel

Medical Breathing Mixtures



284



283

Industrial Mixtures of Oxygen



29-2



29-3

| Service | Part | Description (in) | Part No. |
|---------|--------|----------------------------|----------|
| CGA-280 | Nut | Brass, .750-14 NGO, RH Fem | 284 |
| | Nipple | Brass, 1/4" NPT, 2" Long | 283 |

| Service | Part | Description (in) | Part No. |
|---------|--------|-----------------------|----------|
| CGA-296 | Nut | Brass, .803" – 14 UNS | 29-2 |
| | Nipple | | 29-3 |
| | Nipple | | 29-3CV |
| | Nipple | | 29-4 |

Regulator Inlet Nuts & Nipples Cont.

Air



347-2



347-3



SS-347-2



SS-347-3

| Service | Part | Description (in) | Part No. |
|---------|--------|---------------------------------------|-------------|
| CGA-347 | Nut | Brass, .830" – 14 NGO, RH Fem | 347-2 |
| | Nipple | Brass, 1/4" NPT, 3" Long | 347-3 |
| | Nut | Hand-Tight, RH Female | 6347-2 |
| | Nipple | Hand-Tight, 1/4" NPT, 3" Long | 6347-3 |
| | Nut | St. Steel, .830"-14 NGO, RH Fem | SS-347-2 |
| | Nipple | St. Steel, 1/4" NPT, 3" Long | SS-347-3 |
| | Nut | H-Tight, St. Steel, RH Fem | SS-6347-2 |
| | Nipple | H-Tight, St. Steel, 1/4" NPT, 3" Long | SS-6347-3 |
| | Screw | Retaining Screw | SS-6347-3-2 |
| | O-Ring | Replacement | 6347-3-3 |

Regulator Nuts & Nipples, Brass & Stainless Steel

Medical Mixtures



Oxygen



| Service | Part | Description (in) | Part No. |
|---------|--------|---|----------|
| CGA-500 | Nut | Brass, .880" -14 NGO, RH Male | 500-2 |
| | Nipple | Brass, 1/4" NPT, 2-1/2" Long | 15-8 |
| | Nipple | Brass, 1/4" NPT, 2-1/2" Long w/ Check Valve | 15-8CV |
| | Nipple | Brass, 1/4" NPT, 3" Long | 15-3 |
| | Nipple | Brass, 1/4" NPT, 3-1/2" Long | 15-4 |
| | Nipple | Brass, 1/4" NPT, 4-1/2" Long | 15-11 |
| | Nipple | Brass, 1/2"-27, 3" Long | 15-9 |
| | Nipple | Brass, 9/16"-25, 3" Long | 15-6 |
| | Nipple | Brass, 9/16"-25, 3-1/2" Long | 15-7 |
| | Nipple | Recessed for 1/4" OD Tube | 15-8M1 |
| | Nipple | Recessed for 5/16" OD Tube | 15-8M2 |
| | Nipple | Recessed for 3/8 OD Tube | 15-8M3 |



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Regulator Inlet Nuts & Nipples Cont.

| Service | Part | Description (in) | Part No. |
|---------|--------|---|----------|
| CGA-540 | Nut | Brass, .908" – 14 NGO, RH Female | 62 |
| | Nipple | Brass, 1/4" NPT, 2" Long w/ Check Valve | 63-CV |
| | Nipple | Brass, 1/4" NPT, 2-1/16" Long | 63 |
| | Nipple | Brass, 1/4" NPT, 2-1/2" Long | 66 |
| | Nipple | Brass, 1/4" NPT, 3" Long | 69 |
| | Nipple | Brass, 1/2"-27, 2-1/2 Long | 67 |
| | Nipple | Brass, 9/16"-25, 2-1/6" Long | 64 |
| | Nipple | Brass, 9/16"-25, 2-1/2" Long | 65 |
| | Nipple | Brass, 9/16"-27, 2-1/2" Long | 68 |
| | Nipple | Recessed for 1/4" OD Tube | 63-M1 |
| | Nipple | Recessed for 5/16" OD Tube | 63-M2 |
| | Nipple | Recessed for 3/8" OD Tube | 63-M3 |
| | Nut | Hand-Tight, Brass, RH Female | 662 |
| | Nut | Hand-Tight, Plastic Grip, RH Fem | 662P |
| | Nipple | Hand-Tight, 1/4" NPT, 2-1/2" Long | 663 |
| | Nipple | Hand-Tight, Recessed for 1/4" Tube | 663-M1 |
| | Nipple | Hand-Tight, Recessed for 5/16" Tube | 663-M2 |
| | Tip | Soft Tip Replacement | 663-KPT |
| | Nut | St. Steel, .908" – 14 NGO, RH Female | SS-62 |
| | Nipple | St. Steel, 1/4" NPT, 2-1/2 Long | SS-63 |
| | Nipple | St. Steel, 1/4" NPT, 2-1/2" Long w/ Check Valve | SS-63CV |
| | Nipple | Recessed for 1/4" Tube 1-5/32" Long | SS-63M1 |

Regulator Inlet Nuts & Nipples Cont.

Nitrogen & Helium
Pressures to 3000 PSI (20700 kPa)



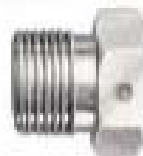
92



15-3



15-8M1



SS-92



SS-15-3

| Service | Part | Description (in) | Part No. |
|---------|--------|---|-----------|
| CG-580 | Nut | Brass, .960-14 NGO, RH Male | 92 |
| | Nipple | Brass, 1/4" NPT, 3" Long | 15-3 |
| | Nipple | Brass, 1/4" NPT, 3-1/2" Long | 15-4 |
| | Nipple | Brass, 1/4" NPT, 2-1/2" Long | 15-8 |
| | Nipple | Brass, 1/4" NPT, 2-1/2" Long w/ Check Valve | 15-8CV |
| | Nipple | Brass, 1/4" NPT, 4-1/2" Long | 15-11 |
| | Nipple | Brass, 1/2"-27, 3" Long | 15-9 |
| | Nipple | Brass, 1/2"-27, 4" Long | 15-5 |
| | Nipple | Brass, 9/16"-25, 3" Long | 15-6 |
| | Nipple | Brass, 9/16"-25, 3-1/2" Long | 15-7 |
| | Nipple | Brass, 9/16"-27, 3" Long | 15-10 |
| | Nipple | Recessed for 1/4" OD Tube | 15-8M1 |
| | Nipple | Recessed for 5/16" OD Tube | 15-8M2 |
| | Nipple | Recessed for 3/8" OD Tube | 15-8M3 |
| | Nut | Hand-Tight, Brass, RH Male | 692 |
| | Nut | Hand-Tight, Plastic Grip, RH Male | 692P |
| | Nipple | Hand-Tight, 1/4" NPT, 3-1/2" Long w/ O-Ring | 615-3 |
| | Nipple | Hand-Tight, 1/4" NPT, 3" Long w/ Soft Tip | 615-3T |
| | Nipple | Hand-Tight, Recessed for 1/4" Tube w/ O-Ring | 615-8M1 |
| | Nipple | Hand-Tight, Recessed for 1/4" Tube w/ Soft Tip | 615-8M1T |
| | Nipple | Hand-Tight, Recessed for 5/16" Tube w/ Soft Tip | 615-8M2T |
| | O-ring | Replacement | 615-0 |
| | Tip | Soft Tip Replacement | 615-PT |
| | Nit | St. Steel, .960"-14 NGO, RH Male | SS-92 |
| | Nipple | St. Steel, 1/4" NPT, 3" Long | SS-15-3 |
| | Nipple | St. Steel, 1/4" NPT, 3" w/ Check Valve | SS-15-3CV |
| | Nipple | Recessed for 1/4" OD Tube | SS-15-8M1 |

S.C.B.A. Fill Adapters Models 708 & 835

General Information

The model 708 S.C.B.A. (self contained breathing apparatus) fill adapter is designed to fill only 4500 PSI S.C.B.A. cylinders. If accidentally attached to the more common 2215 PSI cylinder a unique internal vent mechanism opens and prevents the cylinder from filling. Thus the danger of an inexperienced operator attaching a low pressure cylinder to a higher pressure line is eliminated. Many fire station, and other facilities using S.C.B.A. systems have both the lower pressure (2215 PSI) and higher pressure (4500 PSI) cylinders. Here filling lines with proper relief valves and pressure regulation are provided for both the higher and lower pressure cylinders. Unfortunately both types of cylinders have the same thread connection. Before the introduction of the 708 fill adapter by Aqua Environment standard fill adapters on the higher pressure line could be attached to the lower pressure cylinders resulting in overfills, ruptured burst discs, or worse.

The model 835 fill adapter is a straight adapter without the relief feature. It can be used to fill either the 4500 or 2215 PSI cylinders thus is normally used only on the lower pressure fill line.

In facilities where both high and lower pressure fill lines are provided the 708 and 835 adapters can provide a matched set. The 708 is silver anodized and the 835 is gold anodized and slightly shorter. Both adapters use a unique O-ring sealed tip. Light finger tightening assures a complete bubble tight seal to the cylinder valve even when the valve seating area has been somewhat scratched or dented.

Technical Specifications

- * Pressure rating 6000 PSI (40 PMA)
- * Inlet 1/4" male NPT
- * Materials anodized aluminum, Buna N seals
- * Fits standard CGA valves
- * Model 708 seals on 4500 Psi cylinder valves but vents on lower pressure cylinders
- * Model 835 seals on either type of cylinder

Typical Applications

- * Cylinder charging stations
- * Mobile and stationary fire fighting facilities
- * Connection to, filling, and to transferring from CGA cylinders

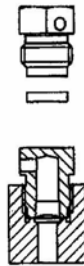


Model 708

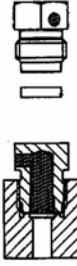


Model 835

Safety Assemblies



CG-1
Burst Disc



CG-4
Burst Disc
165° Fuse Metal



CG-5
Burst Disc
212° Fuse Metal

| | Cylinder Service Pressure (psi) | Nominal Burst Pressure (psi) | Brass Plug | Nickel Plated | Nickel Burst Discs | 316L SS Burst Discs |
|---|---------------------------------|------------------------------|------------|---------------|--------------------|---------------------|
| CG-1 Burst Disc | 4800 | 3000 | 610N-28 | 611N-28 | 700N-28 | 710S-28 |
| | 2015 | 3360 | 610N-32 | 611N-32 | 700N-32 | 710S-32 |
| | 2265 | 3775 | 610N-35 | 611N-35 | 700N-35 | 710S-35 |
| | 2400 | 4000 | 610N-38 | 611N-38 | 700N-38 | 710S-38 |
| | 2950 | 4917 | 610N-47 | 611N-47 | 700N-47 | 710S-47 |
| | 3000 | 5000 | 610N-48 | 611N-48 | 700N-48 | 710S-48 |
| CG-4 Burst Disc / 165° Fuse Metal | 1800 | 3000 | 640N-28 | 641N-28 | 700N-28 | 710S-28 |
| | 2015 | 3360 | 640N-32 | 641N-32 | 700N-32 | 710S-32 |
| | 2265 | 3775 | 640N-35 | 641N-35 | 700N-35 | 710S-35 |
| | 2400 | 4000 | 640N-38 | 641N-38 | 700N-38 | 710S-38 |
| | 2950 | 4917 | 640N-47 | 641N-47 | 700N-47 | 710S-47 |
| | 3000 | 5000 | 640N-48 | 641N-48 | 700N-48 | 710S-48 |
| CG-5 Burst Disc / 212° Fuse Metal | 1800 | 3000 | 650N-28 | 651N-28 | 700N-28 | 710S-28 |
| | 2015 | 3360 | 650N-32 | 651N-32 | 700N-32 | 710S-32 |
| | 2265 | 3775 | 650N-35 | 651N-35 | 700N-35 | 710S-35 |
| | 2400 | 4000 | 650N-38 | 651N-38 | 700N-38 | 710S-38 |
| | 2950 | 4917 | 650N-47 | 651N-47 | 700N-47 | 710S-47 |
| | 3000 | 5000 | 650N-48 | 651N-48 | 700N-48 | 710S-48 |

Safety Assemblies

| Cylinder Service Pressure for DOT 3A, 3AA, 3AL | XX-Suffix for Cylinder Valves | Rupture Disc Burst Range PSIG At 160° | | Safety Cap Stamping | Safety Cap Assembly Replacement No. | | |
|--|-------------------------------|---------------------------------------|----------|---------------------|-------------------------------------|------------------------|------------------------|
| | | Minimum | Maximum* | | CG-1 Unbacked | CG-4 165° F Fuse Metal | CG-5 212° F Fuse Metal |
| 1800 | -28 | 2700 | 3000 | 3000 | 650-19F-9-28 | 650-19SM9-28 | 650-19SB9-28 |
| 2015 | -32 | 3025 | 3360 | 3360 | 650-19F-9-32 | 650-19SM9-32 | 650-19SB9-32 |
| 2265 | -35 | 3400 | 3775 | 3775 | 650-19F-9-35 | 650-19SM9-35 | 650-19SB9-35 |
| 2400 | -38 | 3600 | 4000 | 4000 | 650-19F-9-38 | 650-19SM9-38 | 650-19SB9-38 |
| 2950 | -47 | 4425 | 4917 | 4917 | 650-19F-9-47 | 650-19SM9-47 | 650-19SB9-47 |
| 3000 | -48 | 4500 | 5000 | 5000 | 650-19F-9-48 | 650-19SM9-48 | 650-19SB9-48 |
| 3500 / 3600 | -55 | 5250 | 5833 | 5833 | 650-19F-9-55 | 650-19SM9-55 | 650-19SB9-55 |
| 4500 | -65 | 6075 | 6750** | 6750 | 650-19F-9-65 | 650-19SM9-65 | 650-19SB9-65 |
| 5000 | -78 | 7500 | 8333 | 8333 | 650-19F-9-78 | 650-19SM9-78 | 650-19SB9-78 |
| 6000 | -95 | 9000 | 10,000 | 10,000 | 650-19F-9-95 | 650-19SM9-95 | 650-19SB9-95 |

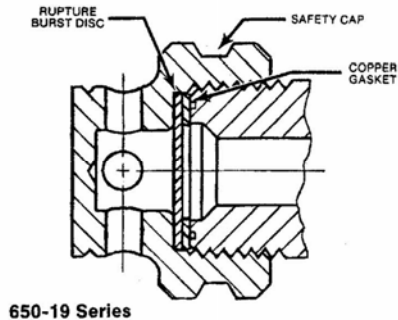
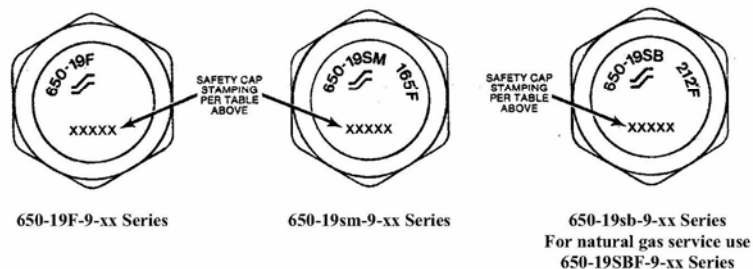
-xx suffix = TV5461-xx for 2015 psi service becomes TV5461-32

* Calculated at 5/3 times service pressure unless otherwise noted

** Calculated at 1.5 times service pressure

To order TV or DV series valves w/ fuse metal backed safety assemblies change the "1" in valve part number to a "4" for 165° or a "5" for 212° F
Example: TV5461-32 = TV5464-32 or TV5465-32

Pressure Relief Device Stamping



Typical Safety Relief Device



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Stainless Steel Flexible Pigtails*, Brass Connections

Economical Two-Piece Design

100% Tested – Oxygen Cleaned – Individually Poly Bagged
Pressure to 3000 PSI (20700 kPa)



| Description | | Part No. |
|---------------------------------|--|----------|
| 1/4" NPT Female End Connections | | |
| 12" Length | | PF2-4-12 |
| 18" Length | | PF2-4-18 |
| 24" Length | | PF2-4-24 |
| 36" Length | | PF2-4-36 |
| 48" Length | | PF2-4-48 |

Stainless Steel Flexible Pigtails, Brass Connections

For Heavy-Duty Applications To Resist Flexing and Kinking. When ordering, specify hose length: either 18", 24" 36", 48". Special Lengths available. All models date-stamped to monitor length of service

**Brass End Connections,
Stamped for Gas
Identification**

Type 304 SS Braid

**Galvanized Carbon
Steel Optional Spring
Guard, Factory Installed**



**Coil Grooves Secure
Optional Spring Guard**

**Optional 360°
Swivel Adaptor
Resists Kinking**

**Teflon®
Hose Core**



**3" Minimum
Bend Radius**

| Service | Description | Part No. |
|---------|--|----------|
| - | 1/4" NPT Fem x 1/4" NPT Fem, to 3000 PSI | PF-4 |
| | W/ Spring Guard : Add B to end or Part No. | - |
| CGA-346 | Air, RH Female, to 3000 PSI | PF-346 |
| | W/ Spring Guard : Add B to end of Part No. | - |
| | W/ Check Valve, Inlet Side | PF-346CV |
| | W/ Hand-Tight Nut, One End | PF-346HT |
| CGA-347 | Air, RH Female, to 5500 PSI | PF-347 |
| | W/ Spring Guard : Add B to end of Part No. | - |
| | w/ Check Valve, Inlet Side | PF-347CV |
| | W/ Hand-Tight Nut, One End | PF-347HT |

Stainless Steel Flexible Pigtails, Stainless Steel Connections

100% Tested – Oxygen Cleaned – Complete Pigtail Accessories
Pressures to 3000 PSI (20700 kPa) – 6000 PSI (41300 kPa)



| Service | Description | Part No. |
|---------|--|----------|
| CGA-346 | Air, RH Female, to 3000 PSI | PF-346SS |
| CGA-347 | High Pressure Air, RH Fem, to 5500 PSI | PF-347SS |
| CGA-540 | Oxygen, RH Female, to 3000 PSI | PF-540SS |
| CGA-580 | Nitrogen, RH Male, to 3000 PSI | PF-580SS |

When ordering, add choice of standard hose length to Part No., -18", -24", -36", -48". Special lengths available. Note that lengths given do not include connections.

AAI MODEL 20FT DELUXE DIVE CONTROL VAN PART # AAI-DCV-2000

Standard Features:



Front View

- All Steel Construction
- Ceramic Coated Roof
- Fully Insulated - 3/4" Plywood w/ Fiberglass Wall Cover
- Stainless Steel Hardware
- Certified Lifting Slings & Shackles
- External Access Ladder
- Waterproof Door - Aluminum
- Large Viewing Window – 3/8" Tempered Glass, Tinted
- Recessed Panel – Gas Inputs/Electrical
- Formica Counter Tops
- 2 Drawer Steel File Cabinet
- 125 Amp Breaker Panel – 16 Breaker Capacity
- 50' Power Cable – AWG-6-4 SEOW – 600Volts
- 400 Amp Enclosed Knife Switch
- 9400 BTU Air Conditioner – Mini Split – 115 Volts with Remote Control
- Day Light / Night Light Interior Lighting System
- 2 Outside Flood Lights w/ Photoelectric Eye
- 2 – 600' Hose Racks on Work Area Doors

Weight & Dimensions:

Weight.....9,300 lbs.
Control Room..... 204" L x 88" W x 90 1/2" H
Hose Storage..... 94" H x 13 1/2" W x 91 1/2" H
Container with A/C Installed..258" L x 96" W x 113" H
Container Foot Print..... 240" L x 96" W x 113" H
Rear Door Opening..... 90" H Right 46" W, Left 45" W
Front Window Viewing Area..... 45" W x 39" H
Side Door.....26" W x 80" H



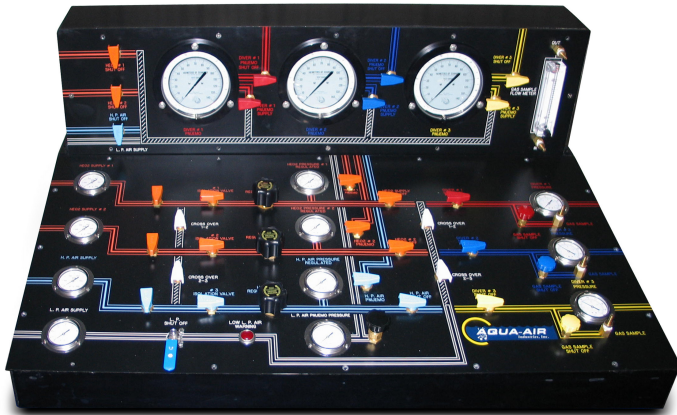
Back View

2 – 600' Hose Racks on Work Area Doors

AAI 20 FT. MODEL DIVE CONTROL VAN

Optional Features:

- 3 Diver Gas Console, Part # AAI-3D350HEO2-A
- 3 Diver Helium Unscrambler, Part # 2830/24
- Unscrambler/Amplifier Bracket, Part # AAI-UAB
- Paging Amplifier, Part # 95-702
- 2 Speakers for Paging Amp, Part # 20-311
- Outland TV System w/ 500' cable, Part # UWS-7010-500
- TV/VHS Recorder-Monitor, Part # MV13P3
- TV/VHS Wall Bracket, Part # AAI-TVVHSWB
- Nitrox Control Panel
- Fully Insulated – Solid Panel Component Meets Fire Protection Requirements Defined by ASTM-E-84



**3 Diver Gas Console
Part # AAI-3D350HEO2-A**

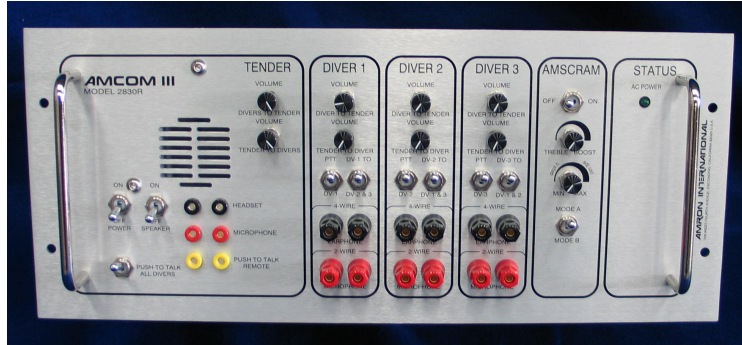


Nitrox Panel



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FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

AAI 20 FT. MODEL DIVE CONTROL VAN MORE OPTIONAL FEATURES



**3 Diver Helium Unscrambler
Part # 2830/24**



**Outland TV System w/ 500' cable
Part # UWS-7010-500**



**TV/VHS Recorder-Monitor
Part # MV13P3**

**TV/VHS Wall Bracket
Part # AAI-TVVHSWB**

AAI 10 FT. MODEL DIVE CONTROL VAN PART # AAI-DCV-1000



FRONT VIEW

Standard Features:

- All Steel Construction
- Fully Insulated Wall Cover
- Stainless Steel Hardware
- Large Viewing Window – 3/8" Tempered Glass,
Recessed Panel – Gas Inputs/Electrical
- Formica Counter Tops
- Office Chair
- 2 Florescent Lights
- Removable Penetrator Panel
- Marine Grade Door
- Mini Split A/C



BACK VIEW

Weight& Dimensions:

Weight.....4,650 lbs.
Control Room.....93" L x 88" W x 90 ½" H
Container Foot Print.....126" L x 96" W x 113" H
Rear Door Opening 90" H Right 46" W, Left 45" W
Front Window Viewing Area.....45" W x 39" H

SCBA - Air-Pak 50i

Cutting Edge Protection for Firefighting Applications



Features:

- Time-tested record of reliable performance and rugged dependability
- Tactile feel end-of-service indicator
- Includes Scott's workhorse E-Z Flo® Regulator
- Unique pressure reducer acts as two reducers in one, allowing a constant supply of air if one happens to get clogged
- Available in 2216, 3000, and 4500 PSI operating pressures
- Cylinder duration available in 30, 45, and 60 minutes
- Top-Down Convertibility™ with AV-2000® and AV-3000™ face piece
- AV-2000 and AV-3000 allows for interface with Scott's full range of communication devices
- A lightweight, ergonomically designed harness system
- Places bulk of weight on hips instead of the shoulders
- Harness incorporates quick release take-up with parachute style hardware
- Freedom of movement, reduced fatigue
- Advanced safety features
- Best warranty in the industry – full 8 years, plus a full 15 years on the pressure reducer assembly
- Lowest overall ownership cost

Water Fire Extinguisher



Specifications

- Water Capacity: 2.50 gal. (9.5 liters)
- Maximum Pressure: 200 psi (13.7 bar)
- Dimensions: 7.0" DIA x 30H (18 cm x 76 cm)
- Empty Weight: 6.50 lbs. (2.95 kg)

The **Model 240 Water Fire Extinguisher** is a modified Class 2-A extinguisher and is tested to ANSI/UL711 and 626 standards and is designed for the pressures and confines of a hyperbaric chamber. The Model 240 has been fully tested and approved for use in all U.S. Navy standard double lock chambers.

In actual operation the Model 240 is filled with potable water and then pressurized to 165 PSIG. The unit comes complete with a fill valve, pressure gauge and a pressure relief valve factory set at 173 PSIG to prevent over pressurization. The Model 240 can be used in a chamber pressurized to a maximum depth of 225 FSW. If the unit is activated at the maximum depth, and held until the water is exhausted, the pressure inside the extinguisher will equal the chamber pressure. With the chamber and extinguisher at equilibrium, the fire extinguisher cannot implode or crush.

Diver's Accessories

U.S. Navy Diver's Knife



This is a handsome and traditional piece of equipment manufactured to rigid Navy specifications and cherished by Navy and commercial divers throughout the world. It has a 7" stainless steel blade with a clear maple handle. The knife screws into the top half inch of a polished brass sheath using ACME threads which not only hold it securely in the sheath but also permits it to be easily and quickly removed. One of the blade edges is machined with teeth so that it can be used as a saw.

The other is a conventional and highly sharpenable knife edge. The strap for attachment to the diver's belt is of top-grain leather. It is as much sought after by collectors for its design and appearance as it is by divers for use underwater.



Manifold – Part No. 29078

Permits air to be distributed to two or three divers from a single supply source. Each outlet has a shut-off valve and is equipped with an "S" reducer permitting connection to a female submarine thread. Inlet has a female submarine thread, if desired, it is also usable to deliver air from two or three sources to a single diver or other destination. Constructed entirely of brass.

Approximate Dimensions: 10-1/2" long, 12" wide, 3" high
Weight: 9 lbs.



Cuff Expanders Part No. 21182

These can be inserted by the tender into the end of the diver's dress cuff and pulled apart to stretch the cuff opening thus assisting the diver in getting his hand through the cuff. Made of polished cast brass with a wood handle.

Weight: 2 lb. per pair

Cuff Rings Wrench Part No. 29045A

This is a special wrench for tightening the screw which secures the cuff clamp to the cuff ring.



Diver's Dress Cuff – Part No. 26017

These permit the diver to make a waterproof seal between his diving dress and his gloves or mitts. Made of polished brass.

Weight: Approx. 2 1/2 lbs.

Cuff Rings and Clamps

These permit the diver to make a waterproof seal between his diving dress and his gloves or mitts. Made of polished brass.

Weight: Approx. 2 1/2 lbs.
per pair



Cuff – Part No. 26017

This is used to make a seal between the diver's glove and cuff.

Weight: Approx. 2 1/2 lbs. per pair

Diver's Specialty Items

All of these specialty items feature the U.S. Navy Diving Helmet, Mark V, Model 1, Reproduced with scrupulous accuracy in bas relief.

Helmet Jewelry

Jewelry consists of a tie tack, a lapel pin, tie bar and a key holder. All are available either rhodium plated, in sterling silver, or gold filled



Tie Tack

| | |
|---------|---------|
| Rhodium | 60210-T |
| Silver | 60215-T |
| Gold | 60218-T |

Lapel Pin

| | |
|---------|---------|
| Rhodium | 6010-P |
| Silver | 60215-P |
| Gold | 60218-P |

Charm

| | |
|---------|-------|
| Rhodium | 60212 |
| Silver | 60217 |
| Gold | 60220 |

Tie Bar

| | |
|---------|-------|
| Rhodium | 60211 |
| Silver | 60216 |
| Gold | 60219 |

Key Fob

Part No. 60214

A standard chrome-plated brass key holder featuring a rhodium-plated helmet on chrome-plated brass disk.

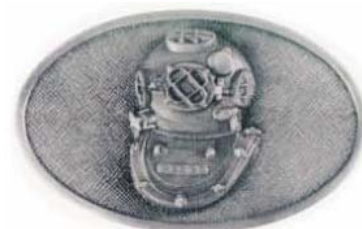


Zippo Lighter Part No. 60221

* This is a standard Zippo featuring a rhodium-plated helmet. Available in either brushed chrome, polished chrome or brass



Solid Bronze – Part No. 60230-B

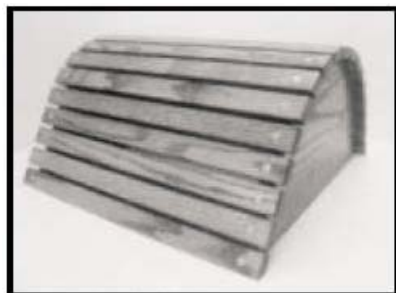


Belt Buckle

Helmet and buckle consist of a single casting and is available either in brass finish or fine pewter.

Part No. Brass finish 60230
Pewter 60230-P

Diver's Specialty Items Cont.



Oak Helmet Stand Part No. 60290

Solid Oak stand with Brass screws is specifically made to fit each type of breastplate.



Brass Door Knocker Part No. 60287

Solid Brass replica of diving helmet.
Size is 6" tall by 4 1/2" wide



DESCO Denim Shirt Part No. 60293

Blue denim long sleeve shirt with a Mark V logo embroidered in 3 colors over the left pocket



Diver Down Part No. 60295

AAI TEE SHIRT

Tees are heavyweight cotton with short sleeves. Stock color is ash gray with the logo in dark blue.



Mark V Part No. 60294



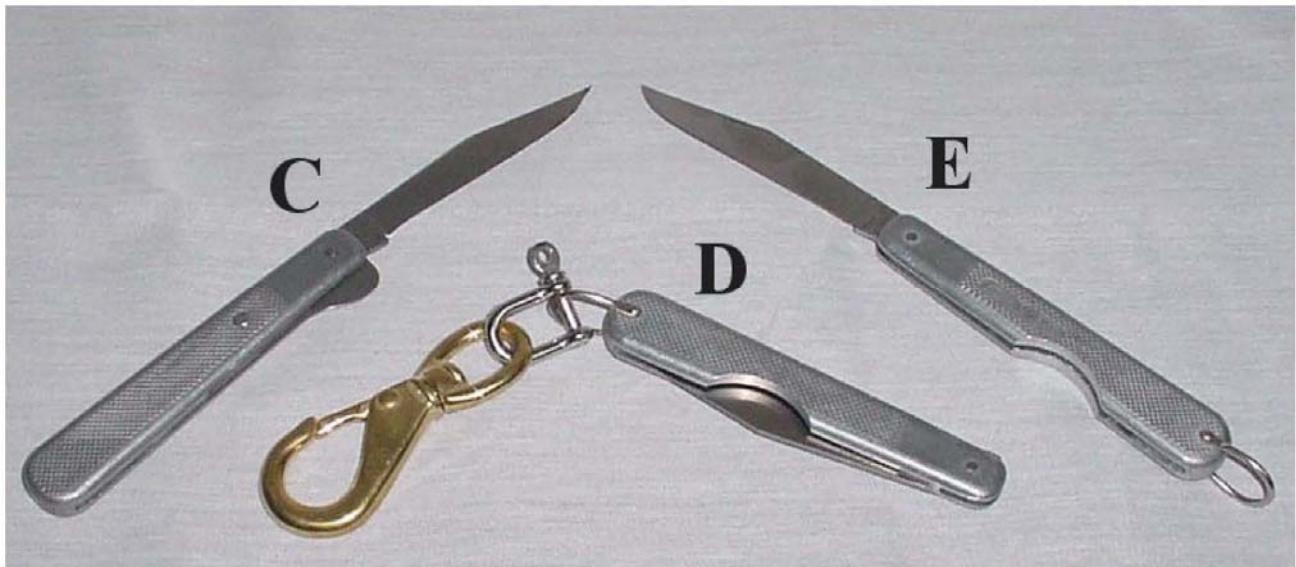
Descos Baseball Cap Part No. 60277

One size fits all Dark Blue cap with DESCO embroidered on the front and the MARK V logo in 3 colors on the left side.

Not Pictured:

| Part No. | Description |
|----------|---------------------------------------|
| 60222 | Knit Hat (Red or Blue) MK V Logo |
| 60224 | Leather Patch w/ Logo |
| 60226 | Money Clip w/ Logo |
| 60230 | Brass Navy Belt Buckle w/ Logo & Belt |
| 60278 | Leather Wallet |
| 60282 | Key Chain, 3-D Diver |
| 60283 | Key Chain, 3-D Mark V (Pewter) |
| 60284 | Key Chain, 3-D Mark V (Brass Finish) |
| 60285 | Mark V Paperweight |
| 60286 | Seascape Paperweight |
| 60288 | Brass Plaque, Navy Divers |
| 60296 | Mark V Embroidered Cloth Patch |

Flags & Knives



| Letter | Part No. | Description |
|--------|-----------|---|
| A | DF-121-23 | Standard Diver Down Flag, 2' x 3' Diver Down Flag, 3' x 5' |
| B | DF-121-35 | Alpha Diver Down Flag, 2' x 3' Alpha Diver Down Flag, 3' x 5' |
| C | Q1307 | Big Chief Easy open w/ serrated locking blade |
| D | R45EO | Rigged Big Chief, #2 Brass Swivel Clip, Stainless steel shackle, 4" Blade |
| E | 45EO | Big Chief Easy open 4" Blade |

Knives



- | | |
|---|---|
| <p>180 DROP POINT MINI DIVE KNIFE 3" drop point tip – 304SS Sharp cutting blade, serrated edge and line cutter Locking plastic sheath attaches to BCD Plastic storage case included Black, Blue, Clear, Lime, Pink</p> | <p>188 BLUNT TIP DIVE KNIFE – 402SS (w/ BUTT CAP) 4-1/2" blade with serrated edge and line cutter Black, Blue, Lime, Pink</p> |
| <p>181 BLUNT TIP MINI DIVE KNIFE Blunt tip blade – 304SS Black, Blue, Clear, Lime Pink</p> | <p>189 DROP-POINT TIP DIVE KNIFE (w/ BUTT CAP) 4-1/4" blade with serrated edge and line cutter Secure locking sheath with easy release button 420 Stainless Steel Black, Blue, Lime Pink</p> |
| <p>182 DROP-POINT DIVE KNIFE – 304SS (w/ BUTT CAP) 4-1/4" blade with serrated edge and line cutter Secure sheath with two finger release mechanism Black, Blue, Lime, Pink</p> | <p>190 BLUNT TIP DIVE KNIFE (w/ BUTT CAP) Black, Blue, Lime, Pink</p> |
| <p>183 BLUNT TIP DIVE KNIFE – 420 SS (w/ BUTT CAP) 4-1/4" blade with serrated edge and line cutter Black, Blue, Lime, Pink</p> | <p>197 DROP POINT TIP DIVE KNIFE 4-1/4" blade with serrated edge and line cutter Secure locking sheath with easy release button 420 Stainless steel Black, Blue, Lime, Pink</p> |
| <p>187 DROP-POINT DIVE KNIFE – 304SS (w/ BUTT CAP) 5" blade with serrated edge and line cutter Secure sheath with two finger release mechanism Black, Blue, Lime, Pink</p> | <p>198 BLUNT TIP DIVE KNIFE Black, Blue, Lime, Pink</p> |

Mark V Helmet Clock



Aqua-Air Ordering Information

7-1/2" Model Helmet w/ Quartz Clock

Weight – 3 lbs (approx).....AAI-7124-C

Standard Divers Reproduction Helmet



This range of superbly detailed ornamental diving helmets, made from solid brass and copper recalls the days when diver struggled on the ocean bed in equipment heavier than themselves. All three helmets can be easily illuminated to make striking maritime lamps.

7121 US Mark V Helmet

is a full-size reproduction which suggests the claustrophobia divers must have felt underwater. It is so complete that detailed examination is necessary to detect it is not original. Hatches open, valves operate and screws adjust.

Dome Diameter – 12-1/2" (318 mm)
Weight – 37 lb. (16.8 kg)

7122 Shaped Wooden Stand

to support the helmet and display it to its best advantage.
Height of Mark V Helmet on stand – 20-1/2" (521 mm)

7123 10" Model Helmet

These have been given the same attention to detail as the Mark V
Height – 10-1/2" (267 mm)
Weight – 7-lb 11-oz (3.5 kg)

7124 7" Model Helmet

Minature version of Mark V but with not so much detail
Weight – 2 lb (907 gr)

Aqua-Air Ordering Information

7121 US Mark V Helmet.....AAI-DHKH-S-0001
7122 Shaped Wooden Stand.....AAI-DHKH-S-0002
7123 10" Model Helmet.....AAI-DHKH-S-0003
7124 7" Model Helmet.....AAI-DHKH-S-0004



Draeger Tubes and Accuro® Pump



What is the Draeger-Tube® System?

Draeger-Tubes® are glass vials filled w/ a chemical reagent that reacts to a specific chemical or family of chemicals. A calibrated 100 ml sample of air is drawn through the tube w/ the Draeger accuro® bellows pump. If the targeted chemical(s) is present the reagent in the tube changes color and the length of the color change typically indicates the measured concentration. The Draeger-Tube® System is the world's most popular form of gas detection.

Accurate

Not all detector tubes are created equal! Draeger-Tubes® w/ the accuro pump deliver the most accurate results. Many Draeger tubes offer a +/- 10% standard deviation on the results. This is a result of the 60+ years of manufacturing colorimetric tubes and the consistent volume delivered by the bellows pump design. Quality assurance is accomplished by individually calibrating each batch of Draeger-Tubes®. Then every batch is tested at regular intervals, throughout the two-year shelf life, to guarantee accuracy over the entire life of the tubes.

Easy to Read

See the difference for yourself! The wider diameter of the Draeger-Tubes® makes it easier to read. Well-spaced graduation marks enable distinct and decisive measurement results. Color changes to the reagents are well defined over the entire length of the stain. Many tubes offer a dual calibrated scale so that you can interpret the results without using multiplication factors.

Fast

One stroke tubes are not always faster! Though many Draeger-Tubes® require more than one stroke, they often provide measurement results in less time. Not only do you get the benefit of a quicker analysis; the larger sample volume provides better statistical accuracy.

Flexible

Draeger-Tubes® simply deliver more! More gases and more measuring ranges than any other manufacturer. Draeger offers over 200 tubes for accurately measuring over 500 different gases. You can measure ambient air for health and safety levels, optional equipment allows you to measure stack gases, motor vehicle exhaust components, pressurized gas line samples, compressed air contaminants, and solvents in water samples. Other specialized tubes measure over a period of hours or a complete work shift to indicate daily exposure levels.

Specific

Reagents used in Draeger-Tubes® are chosen to provide not only the most accurate, but also most specific results possible. Our use of prelayers on many tubes (like benzene) remove other potential interfering gases (e.g. Aromatic hydrocarbons) so you measure only the targeted chemical, getting only the results you want. This design enables you to measure specific gases in a complex ambient background found in the measurement area.

Maintenance Free

Draeger has made gas detection easy. Unlike a piston pump, the accuro pump requires no lubrication. The accuro® is constructed of non-metallic, corrosion resistant materials. It can't be bent by rough treatment and it withstands harsh chemical environments. Draeger-Tubes® are pre-calibrated for two years. The only requisite on Draeger-Tubes® is that they are stored out of direct sunlight and at a temperature of less than 25°C (77°F). Any temperature-controlled office meets these conditions.



Simultaneous Test Set
Test Set I (inorganic) – 8101735
Test Set II (inorganic) – 8101736
Test Set III (organic) - 8101770





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Draeger Tubes and Accuro® Pump Cont.

| Description | Measuring Range | Part No | Description | Measuring Range | Part No |
|---|--|-----------|-------------------------------------|---|-----------|
| Acetaldehyde 100/a | 100-1000 ppm | 67-26-665 | Chlorine 0.3/b | 0.3-10 ppm | 67-28-411 |
| Acetic Acid 5/a | 5-80 ppm | 67-22-101 | Chlorine 50/a | 50-500 ppm | CH-20701 |
| Acetone 100/b | 100-12000 ppm | CH-22901 | Chlorobenzene 5/a (5) | 5-200 ppm | 67-28-761 |
| Acid Test | Qualitative | 81-01-121 | Chloroform 2/a (5) | 2-10 ppm | 67-28-861 |
| Acrylonitrile 0.5/a (5) | 0.5-20 ppm | 67-28-591 | Chloroformates 0.2/b | 0.2-10 ppm | 67-18-601 |
| Air Current Tube Kit | | 4054388S | Chloroprene 5/a | 5-60 ppm | 67-18-901 |
| Air Current Tubes | | CH-25301 | Chromic Acid 0.1/a (9) | 0.1-0.5 mg/m ³ | 67-28-681 |
| Alcohol 25/a | 50-4000 ppm Isopropanal 25-5000 ppm Methanol | 81-01-631 | Cyanide 2/a | 2-15 mg/m ³ | 67-28-791 |
| Alcohol 100/a | 100-3000 ppm | CH-29701 | Cyanogen Chloride 0.25/a | 0.25-5 ppm | CH-19801 |
| Amine Test | Qualitative | 81-01-061 | Cyclohexane 100/a | 100-1500 ppm | 67-25-201 |
| Ammonia 0.25/a | 0.25-3 ppm | 81-01-711 | Cyclohexylamine 2/a | 2-30 ppm | 67-28-931 |
| Ammonia 2/a | 2-30 ppm | 67-33-231 | Diethyl Ether 100/a | 100-4000 ppm | 67-30-501 |
| Ammonia 5/b | 2.5-100 ppm | 81-01-941 | Dimethyl Formamide 10/b | 10-40 ppm | 67-18-501 |
| Ammonia 5/a | 5-700 ppm | CH-20501 | Dimethyl Sulfate 0.005/c (9) | 0.005-0.05 ppm | 67-18-701 |
| Ammonia 0.5%/a | 0.05-10 Vol. % | CH-31901 | Dimethyl Sulfide 1/a (5) | 1-15 ppm | 67-28-451 |
| Aniline 0.5/a | 0.5-10 ppm | 67-33-171 | Epichlorohydrin 5/b | 5-50 ppm | 67-28-111 |
| Aniline 5/a | 1-20 ppm | CH-20401 | Ethyl Acetate 200/a | 200-3000 ppm | CH-20201 |
| Arsenic Trioxide 0.2/a | 0.2 mg / m ³ | 67-28-951 | Ethyl Benzene 30/a | 30-600 ppm | 67-28-381 |
| Arsine 0.05/a | 0.05-60 ppm | CH-25001 | Ethylene 0.1/a (5) | 0.2-5 ppm | 81-01-331 |
| Benzene 0.5/a | 0.5-10 ppm | 67-28-561 | Ethylene 50/a | 50-2500 ppm | 67-28-051 |
| Benzene 0.5/c (5) specific | 0.5-10 ppm | 81-01-841 | Ethylene Glycol 10 (5) | 10-180 mg/m ³ | 81-01-351 |
| Benzene 2/a (5) | 2-60 ppm | 81-01-231 | Ethylene Oxide 1/a (5) | 1-15 ppm | 67-28-961 |
| Benzene 5/b | 5-50 ppm | 67-28-071 | Ethylene Oxide 25/a | 25-500 ppm | 67-28-241 |
| Benzene 15/a | 15-420 ppm | 81-01-741 | Ethyl Glycol Acetate 50/a | 50-700 ppm | 67-26-801 |
| Carbon Dioxide 100/a | 100-3000 ppm | 81-01-811 | Fluorine 0.1/a | 0.1-2 ppm | 81-01-491 |
| Carbon Dioxide 0.1%/a | 0.1-6 Vol. % | CH-23501 | Formaldehyde 0.2/a | 0.2-5 ppm | 67-33-081 |
| Carbon Dioxide 0.5%/a | 0.5-10 Vol. % | CH31401 | Formaldehyde Activation tube | Extend to 0.04 ppm | 81-01-141 |
| Carbon Dioxide 1%/a | 1-20 Vol. % | CH-25101 | Formaldehyde 2/a | 2-40 ppm | 81-01-751 |
| Carbon Dioxide 5%/a | 5-60 Vol. % | CH-20301 | Formic Acid 1/a | 1-15 ppm | 67-22-701 |
| Carbon Disulfide 3/a | 3-95 ppm | 81-01-891 | Halogenated Hydrocarbons 100/a | 100-2800 ppm | 81-01-601 |
| Carbon Disulfide 30/a | 32-3200 ppm | CH-23201 | Hexane 100/a | 50-3000 ppm | 67-28-391 |
| Carbon Monoxide 2/a | 2-300 ppm | 67-33-051 | Hydrazine 0.2/a | 0.2-10 ppm | 67-33-121 |
| Carbon Monoxide 5/c | 5-700 ppm | CH-25601 | Hydrazine 0.25/a | 0.1-10 ppm | CH-31801 |
| Carbon Monoxide 8/a | 8-150 ppm | CH-19701 | Hydrocarbons 0.1%/b | 0.1-1.3 Vol. % | CH-26101 |
| Carbon Monoxide 10/b | 10-3000 ppm | CH-20601 | Hydrocarbons 2 | 3-23 mg/l | CH25401 |
| Carbon Monoxide 0.3%/b | 0.3-7 Vol. % | CH-29901 | Hydrochloric Acid 1/a | 1-10 ppm | CH-29501 |
| Carbon Monoxide 200/a + Carbon Dioxide 2%/a | 200-2500 ppm CO 2-12 Vol. % CO ₂ | 67-18-301 | Hydrochloric Acid 50/a | 50-5000 ppm | 67-28-181 |
| Carbon Pretubes | | CH-24101 | Hydrochloric Acid / Nitric Acid 1/a | 1-10 ppm (HCL) 1-15 ppm (HNO ₃) | 81-01-681 |
| Carbon Tetrachloride 0.2/b | 0.2-70 ppm | 81-01-791 | Hydrocyanic Acid 2/a | 2-150 ppm | CH-25701 |
| Carbon Tetrachloride 1/a (5) | 1-15 ppm | 81-01-021 | Hydrogen 0.2%/a | 0.2-2 Vol. % | 81-01-511 |
| Carbon Tetrachloride 5/c | 5-50 ppm | CH-27401 | Hydrogen Fluoride 1.5/b | 1.5-15 ppm | CH-30301 |
| Chlorine 0.2/a | 0.2-30 ppm | CH-24301 | Hydrogen Peroxide 0.1/a | 0.1-3 ppm | 81-01-041 |



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Draeger Tubes and Accuro® Pump Cont.

| Description | Measuring Range | Part No | Description | Measuring Range | Part No |
|--|--|-----------|--|-------------------------|-----------|
| Hydrogen Sulfide 0.2/a | 0.2-5 ppm | 81-01-461 | Perchloroethylene 50/A | 50-10000 ppm | 81-01-851 |
| Hydrogend Sulfide 0.2/b | -2-6 ppm | 81-01-991 | Petroleum Hydrocarbons 10/a | 10-300 ppm (n-Octane) | 81-01-691 |
| Hydrogen Sulfide 0.5/a | 0.5-15 ppm | 67-28-041 | Petroleum Hydrocarbons 100/a | 100-2500 ppm (n-Octane) | 67-30-201 |
| Hydrogen Sulfide 1/d | 1-200 ppm | 81-01-831 | Phenol 1/b | 1-20 ppm | 81-01-641 |
| Hydrogen Sulfide 2/a | 2-200 ppm | 67-28-821 | Phosgene 0.02/a | 0.01-1 ppm | 81-01-521 |
| Hydrogen Sulfide 2/b | 1-60 ppm | 81-01-961 | Phosgene 0.25/c | 0.25-15 ppm | CH-28301 |
| Hydrogen Sulfide 5/b | 5-600 ppm | CH-29801 | Phosphine 0.01/a | 0.01-1 ppm | 81-01-611 |
| Hydrogen Sulfide 100/a | 100-2000 ppm | CH-29101 | Phosphine 0.1/a | 0.1-4 ppm | CH-31101 |
| Hydrogen Sulfide 0.2%/A | 0.2-7 Vol. % | CH-28101 | Phosphine 1/a | 1-100 ppm | 81-01-801 |
| Hydrogen Sulfide 2%/a | 2-40 Vol. % | 81-01-211 | Phosphine 25/a | 25-10000 ppm | 81-01-621 |
| Hydrogen Sulfide + Sulfur Dioxide 0.2%/A | 0.02-7 Vol. % | CH-28201 | Phosphine 50/a | 15-1000 ppm | CH-21201 |
| Mercaptan 0.5/a | 0.5-5 ppm | 67-28-981 | Phosphoric Acid Esters 0.05/a (Dimethyldichlorovinylphosphate) | 0.05 ppm | 67-28-461 |
| Mercaptan 20/a | 20-100 ppm | 81-01-871 | Polytest | Qualitative | CH-28401 |
| Mercury Vapor 0.1/b | 0.05-2 mg/m³ | CH-23101 | Pyridine 5/A | 5 ppm | 67-28-651 |
| Methyl Acrylate 5/a | 5-200 ppm | 67-28-161 | Styrene 10/a | 10-200 ppm | 67-23-301 |
| Methyl Bromide 0.5/a | 0.5-30 ppm | 81-01-671 | Styrene 10/b | 10-250 ppm | 67-33-141 |
| Methyl Bromide 5/b | 5-50 ppm | CH-27301 | Styrene 50/a | 50-400 ppm | CH-27601 |
| Methylene Chloride 100/a | 100-2000 ppm | 67-24-601 | Sulfur Dioxide 0.1/a | 0.1-3 ppm | 67-27-101 |
| Natural Gas Test (Methane) (5) | Qualitative | CH-20001 | Sulfur Dioxide 0.5/a | 0.5-25 ppm | 67-28-491 |
| Nickel 0.25/A | 0.25-1.0 mg/m³ | 67-28-871 | Sulfur Dioxide 1/a | 1-25 ppm | CH-31701 |
| Nickel Tetracarbonyl 0.1/a (9) | 0.1-1 ppm | CH-19501 | Sulfur Dioxide 20/a | 20-2000 ppm | CH-24201 |
| Nitric Acid 1/a | 1-50 ppm | 67-28-311 | Sulfur Dioxide 50/b | 50-8000 ppm | 81-01-531 |
| Nitrogen Dioxide 0.5/c | 0.5-25 ppm | CH-30001 | Sulfuric Acid 1/a (9) | 1-5 mg/m³ | 67-28-781 |
| Nitrogen Dioxide 2/c | 2-100 ppm | 67-19-101 | Tetrahydrothiophene 1/b (5) | 1-10 ppm | 81-01-341 |
| Nitroglycol 0.25/a | 0.25 ppm | 67-18-201 | Thioether | 1 mg/m³ | CH-25803 |
| Nitrous Fumes 0.5/a | 0.5-10 ppm | CH-29401 | Toluene 5/b | 5-300 ppm | 81-01-661 |
| Nitrous Fumes 2/a | 2-100 ppm | CH-31001 | Toluene 50a | 50-400 ppm | 81-01-701 |
| Nitrous Fumes 20/a | 20-500 ppm | 67-24-001 | Toluene 100/a | 100-1800 ppm | 81-01-731 |
| Nitrous Fumes 50/a | 50-2000 ppm | 81-01-921 | Toluene Diisocyanate 0.02/A (9) | 0.02-0.2 ppm | 67-24-501 |
| Nitrous Fumes 100/c | 100-5000 ppm | CH-27701 | o-Toluidine 1/a | 1-30 ppm | 67-28-991 |
| Oil Mist 1/a | 1-10 mg/m³ | 67-33-031 | Trichloroethane 50/d (5) | 50-600 ppm | CH-21101 |
| Olefins 0.05%/a | 0.06-3.2 Vol. % Propylene 0.04-2.4 Vol. % Butylene | CH-31201 | Trichloroethylene 2/a | 2-250 ppm | 67-28-541 |
| Organic Arsenic Compounds and Arsine | 3 mg org. Ars./m³ | CH-26303 | Trichloroethylene 10/a | 50-2000 ppm | CH-24401 |
| Organic Basic Nitrogen Compounds | 1 mg/m³ | CH-25903 | Triethylamine 5/a | 5-60 ppm | 67-18-401 |
| Oxygen 5%/B (8) | 5-23 Vol. % | 67-28-081 | Vinyl Chloride 0.5/b | 0.5-30 ppm | 81-01-721 |
| Ozone 0.05/b | 0.05-1.4 ppm | 67-33-181 | Vinyl Chloride 100/a | 100-3000 ppm | CH-19601 |
| Ozone 10/a | 10-300 ppm | CH-21001 | Water Vapor 0.1/a | 0.05-1 mg/L | 81-01-321 |
| Pentane 100/a | 100-1500 ppm | 67-24-701 | Water Vapor 1/a | 0.5-18 mg/L | 81-01-081 |
| Perchloroethylene 0.1/a | 0.1-4 ppm | 81-01-551 | Water Vapor 1/b | 1-40 mg/L | 81-01-781 |
| Perchloroethylene 2/a | 2-300 ppm | 81-01-501 | Water Vapor 3/a | 3-60 lbs/mmcf | 81-03-031 |
| Perchloroethylene 10/b | 10-500 ppm | CH-30701 | Water Vapor 50/a | 50-1000 lbs/mmcf | 81-03-021 |
| | | | Xylene 10/a | 10-400 ppm | 67-33-161 |

Equipment Cases

Small Cases



| | | | |
|---------------------------|--|--------------|---------------|
| 1120 Guard Box | Length | Width | Height |
| Outside Dimensions | 8-1/4" | 6-1/2" | 3-5/8" |
| Inside Dimensions | 7-3/8" | 4-7/8" | 3-1/8" |
| Colors | Black, Blue, Orange, Yellow, Lime, Green, and Hot Pink | | |
| Shipping Weight | 1 lb. 2 oz. | | |

| | | | |
|---------------------------|---|--------------|---------------|
| 1150 | Length | Width | Height |
| Outside Dimensions | 9-1/4" | 7-3/4" | 4-1/2" |
| Inside Dimensions | 8-1/2" | 6" | 3-3/4" |
| Features | Fold Down Handle | | |
| Colors | Black, Blue, Orange, Silver, Yellow, Hot Pink, and Lime Green | | |
| Shipping Weight | 2-1/2 lbs | | |



| | | | |
|---------------------------|-----------------------------------|--------------|---------------|
| 1200 | Length | Width | Height |
| Outside Dimensions | 10-3/4" | 9-3/4" | 5" |
| Inside Dimensions | 9-1/2" | 7-1/2" | 4-1/2" |
| Features | Fold Down Handle | | |
| Colors | Black, Silver, Yellow, and Orange | | |
| Shipping Weight | 3 lbs. | | |

| | | | |
|---------------------------|-----------------------------------|--------------|---------------|
| 1300 | Length | Width | Height |
| Outside Dimensions | 10-3/4" | 9-3/4" | 7" |
| Inside Dimensions | 9-1/2" | 7-1/2" | 6-1/2" |
| Features | Fold Down Handle | | |
| Colors | Black, Silver, Yellow, and Orange | | |
| Shipping Weight | 3 1/2 lbs. | | |



| | | | |
|---------------------------|--|--------------|---------------|
| 1400 | Length | Width | Height |
| Outside Dimensions | 13" | 12" | 6" |
| Inside Dimensions | 12-1/4" | 9-1/4" | 5-1/4" |
| Features | Fold Down Handle and Integral Personalized Nameplate | | |
| Colors | Black, Silver, and Orange | | |
| Shipping Weight | 5-1/2 lbs | | |

| | | | |
|---------------------------|--|--------------|---------------|
| 1450 | Length | Width | Height |
| Outside Dimensions | 16" | 13" | 7" |
| Inside Dimensions | 15" | 10-1/2" | 6" |
| Features | Fold Down Handle and Integral Personalized Nameplate | | |
| Color | Black, Silver, and Orange | | |
| Shipping Weight | 7-1/2 lbs | | |



Equipment Cases Medium Cases



| | | | |
|----------------------------------|--|--------------|---------------|
| 1470 Laptop Computer Case | Length | Width | Height |
| Outside Dimensions | 16-3/4" | 13-3/4" | 4-3/8" |
| Inside Dimensions | 16" | 10-3/4" | 4" |
| Features | Fold Down Handle and Integral Personalized Nameplate | | |
| Colors | Black | | |

| | | | |
|---------------------------|---------------------------------|--------------|---------------|
| 1500 | Length | Width | Height |
| Outside Dimensions | 18-1/2" | 15-1/4" | 6-7/8" |
| Inside Dimensions | 17" | 11-3/4" | 6" |
| Features | Integral Personalized Nameplate | | |
| Colors | Black, Silver, and Orange | | |
| Shipping Weight | 8-1/2 lbs | | |



| | | | |
|---------------------------|--|--------------|---------------|
| 1520 | Length | Width | Height |
| Outside Dimensions | 19-1/4" | 15-1/2" | 7-1/2" |
| Inside Dimensions | 18" | 12-7/8" | 6-3/4" |
| Features | Fold Down Handle, Large Latches, and Integral Personalized Nameplate | | |
| Colors | Black, Silver, and Orange | | |
| Shipping Weight | 10-1/2 lbs | | |

1526 Case & Bag



| | | | |
|------------------------|---------------|--------------|---------------|
| 1527 Travel Bag | Length | Width | Height |
| Dimensions | 17-1/2" | 12-1/2" | 6-1/4" |
| Colors | Black | | |
| Shipping Weight | 5 lbs | | |

Equipment Cases

Large Cases



| | | | |
|---------------------------|--|--------------|---------------|
| 1550 | Length | Width | Height |
| Outside Dimensions | 20-1/2" | 16-3/4" | 8-1/2" |
| Inside Dimensions | 19" | 14" | 7-3/4" |
| Features | Fold Down Handle, Pick N Pluck Foam or Padded Dividers, and Personalized Nameplate | | |
| Colors | Black, Silver, and Orange | | |
| Shipping Weight | 14 lbs. | | |

| | | | |
|---------------------------|--|--------------|---------------|
| 1600 | Length | Width | Height |
| Outside Dimensions | 23-1/4" | 20-3/4" | 9" |
| Inside Dimensions | 22" | 17" | 8" |
| Features | Pick N Pluck Foam or Padded Dividers, and Personalized Nameplate | | |
| Colors | Black, Silver, and Orange | | |
| Shipping Weight | 17 lbs. | | |



| | | | |
|---------------------------|---|--------------|---------------|
| 1620 | Length | Width | Height |
| Outside Dimensions | 24-5/8" | 19-5/8" | 14" |
| Inside Dimensions | 22-1/4" | 17-1/8" | 12-5/8" |
| Features | Fold Down Handle, 2" Hard Rubber Transport Wheels, Large Latches, and Integral Personalized Nameplate | | |
| Colors | Black | | |
| Shipping Weight | 15.16 lbs. | | |

| | | | |
|---------------------------|--|--------------|---------------|
| 1650 | Length | Width | Height |
| Outside Dimensions | 31-1/2" | 20-3/4" | 11-1/2" |
| Inside Dimensions | 29" | 18" | 10-1/2" |
| Features | Wheels Included, Fold Down Handles, Pick N Pluck Foam or Padded Dividers, Personalized Nameplate | | |
| Colors | Black | | |
| Shipping Weight | 25 lbs. | | |

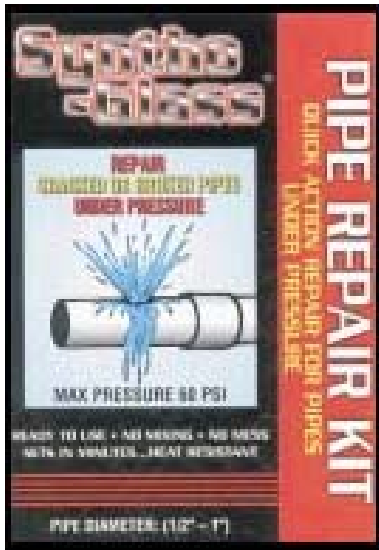


| | | | |
|---------------------------|---|--------------|---------------|
| 1700 | Length | Width | Height |
| Outside Dimensions | 37" | 17-1/2" | 6" |
| Inside Dimensions | 36" | 13-1/2" | 5" |
| Features | Wheels Included, Fold Down Handles, Regular Foam Only | | |
| Colors | Black | | |
| Shipping Weight | 20 lbs. | | |

| | | | |
|---------------------------|---|--------------|---------------|
| 1750 | Length | Width | Height |
| Outside Dimensions | 52" | 17-1/2" | 6" |
| Inside Dimensions | 50-3/4" | 13-1/2" | 5" |
| Features | Wheels Included, Fold Down Handles, and Regular Foam Only | | |
| Colors | Black | | |
| Shipping Weight | 29 lbs. | | |



Syntho-Glass® Under Pressure Pipe Repair Kit



Syntho-Glass® is the latest development and technological advancement in the use of composites for remedial repairs to defects and anomalies in pipelines. De-pressurizing and shutdowns are very costly and are not the most desirable method of repairing pipelines. Pipelines that are in jeopardy of a catastrophic failure due to wall thickness erosion, from external and/or internal corrosion, are especially suited for external pipeline reinforcement and containment, using fiberglass cloth/resin composite, such as Syntho-Glass®.

Syntho-Glass® is a patented, fiberglass cloth impregnated w/ a resin that is activated by salt or fresh water. Packaged in a hermetically sealed foil pouch, it is ready to use and does not require any measuring or mixing. This fiberglass cloth tape can be applied underwater, in humid or dry conditions, including tropical climates. The initial cure (setting) time of Syntho-Glass® is 30-60 minutes w/ a complete cure in less than 24 hours @ 70 F < (21 C). This innovative fiberglass cloth/resin composite, once cured, is resistant to petroleum

products, has very good chemical resistance and resists both high and low temperature extremes. Syntho-Glass® is safe to use, non-toxic, non-combustible and odorless. Syntho-Glass® exhibits good adhesion to most surfaces including: steel, iron, pvc, frp and most metals and plastics. After curing it can also be sanded and painted.

Syntho-Glass® Under Pressure Pipe Repair Kits are designed for application repairing cracked or broken pipes, under pressure of up to 60 psi and 4" in diameter. There is no need to turn off your system. Permanent or temporary repairs can be made quickly and cost effectively. Each kit consists of Syntho-Glass®, a patented fiberglass cloth impregnated w/ a water activated resin and a special rubber tape, w/ pressure sensitive adhesive used for immediately stopping the leak.

Since Syntho-Glass® is activated by water, it is applicable for sub sea applications, such as; 1) repairing leaking pipes, 2) splash zone and corrosion protective barrier coating on pilings, bridges, piers and offshore rig platforms. In the petroleum and gas exploration and production industries, Syntho-Glass® is used for pipe line repairs and reinforcement, for your review.



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Syntho-Glass® Under Pressure Pipe Repair Kit Cont.

Chemical Resistance Properties

| Test Period 2 Months @ 73°F | ASTM D 543 Surface Changes | Type of Change | Test Period 2 Months @ 73°F | ASTM D 543 Surface Changes | Type of Change |
|-------------------------------------|----------------------------|----------------|-----------------------------|----------------------------|----------------|
| Distilled Water | None | None | Ammonia, 10% | 30 days | Blistering |
| Sulfuric Acid, 10% | None | None | Hydrogen Peroxide, 10% | 30 days | Blistering |
| Sulfuric Acid, 50% | None | None | Fuel Oil + 10% Water, 122 F | None | None |
| Hydrochloric Acid, 10% | None | None | White Mineral Spirits | None | None |
| Hydrochloric Acid, 50% | 30 days | Blistering | Toluene | None | None |
| Nitric Acid, 50% | 30 days | Blistering | Xylene | None | None |
| Acetic Acid, 10% | 30 days | Blistering | Methyl Isobutyl Ketone | 60 days | Softening |
| Formic Acid, 10% | 30 days | Destruction | Methanol | 2 days | Softening |
| Soda Solution, Saturated 118 F | None | None | Gasoline | None | None |
| Sodium Hydroxide Solution, 20% 118F | None | None | | | |

Mechanical Properties

| | | |
|-------------------------------|-------------------------|--------|
| Tensile Strength, PSI | ASTM D 638 TYPE 1-8 PLY | 36,448 |
| Flexural Strength, PSI | ASTM D 790 TYPE 1-8 PLY | 26,100 |
| Compressive Strength, PSI | ASTM D TYPE 1-8 PLY | 8,072 |
| Dielectric Strength, volts | | 16,060 |
| Heat Resistance, continuous C | | 150 |
| Setting Time, 21 C, minutes | | 28 |

Syntho-Glass Curing Time vs. Ambient Temperature

| Ave. Temp. | Setting Time | Ave. Temp. | Setting Time |
|------------|---------------|------------|--------------|
| 35 F | 6 hrs, 21 min | 60 F | 45 min |
| 42 F | 3 hrs, 02 min | 70 F | 28 min |
| 45 F | 2 hrs, 42 min | 95 F | 23 min |
| 50 F | 1 hr, 25 min | | |

| Part No. | Kit Size | Pipe Diameters | Part No. | Kit Size | Pipe Diameters |
|----------|----------|----------------|----------|----------|----------------|
| 520 | 2" x 5' | ½" - 1" | 420 | 4" x 20' | 4" |
| 930 | 3" x 9' | 1-1/4" - 2" | 430 | 4" x 30' | 4" |
| 415 | 4" x 15' | 2-1/2" - 4" | 450 | 4" x 50' | 4" |

Low Pressure Filtration Systems



Model AAI-1-210 Filter



Model AAI-1-110 Filter

Specifications

- * Pressure rating 300 psi @ 200° F 20 cfm
- * 20 c.f.m. max flow compressor
- * Stainless steel canister – 304 SS
- * 1" aluminum 6061 square tubing frame
- * 250 psi heavy duty brass
- * Manual moisture drain
- * Two diver outlet
- * Glycerin filled gauge
- * ½" Parker Ball Valves S.S. Handles

Aqua-Air Ordering Information

AAI Model 210 Filter.....AAI-1-210
AAI Model 110 Filter.....AAI-1-110

**** DOES NOT REMOVE CARBON MONOXIDE GAS ****

AAI Model 1250 Filter



**NOTE: This Filter System
does not remove
carbon monoxide.**

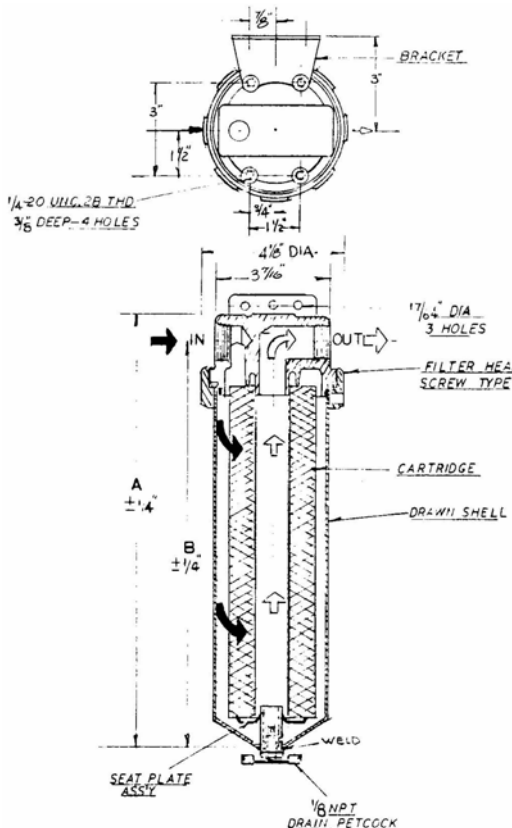
| Specifications and Standard Features | | |
|--|---|---|
| Three Stage Filtration | | |
| 1" NPT Full Flow Ports | | |
| Hard Dia Cast Aluminum Housing and Bowls | | |
| Large Liquid Capacity Bowls | | |
| Automatic Bowl Drains with Protective Particle Screens | | |
| Overall Filtration Result | Solid and liquid removal in excess of 99.99% | |
| | Oil and water vapor removal in excess of 99.99999% | |
| | The AAI 1250 will exceed all clean air standards established by Compressed Air | |
| Filtration System Plumbing Design | Air-In | Two ½" 600 psi working pressure ¼ turn ball valves allow entrance of both compressor air and alternate emergency air. |
| | Air-Out | Two ½" 600 psi working pressure ¼ turn ball valves allow exit of filtered air for use on both Diver Station and Decompression Chamber Prefilter and Intermediate filter elements are designed for a working life of up to 6-1 |
| Fittings and Fasteners: | All fittings are 2000 lb. forged high pressure brass | |
| | All fasteners are of Stainless Steel as are valve handles and nuts | |
| Filter Packaging | In an aluminum frame of rugged construction for offshore use and ease of mobility. All filter components fit within and are protected by the frame. | |
| Element Life | Prefilter and Intermediate filter elements are designed for a working life of up to 6-12 months under reasonable operating conditions and maintenance. | |
| | Final Filtration Element is designed to provide full protection for a period of up to twelve months under reasonable operating conditions and maintenance | |
| Series Flow Rate at final filter outlet | 500 SCFM @ 250 psi | |
| Maximum Recommended Operating Conditions | 250 psi (18 KG/CM ²) | |
| | Maximum Temp. | 175°F (80°C) |
| | Minimum Temp. | 20°F (-6°C) |
| Dimensions | Length | 30" |
| | Width | Top: 8" Bottom: 12" |
| | Height | 21-1/4" |
| Tubular Carrying Handle | | |

Stainless Steel Air Filter Canisters w/ Bronze Head – RHB783

- * Filters have forged brass or precision investment stainless steel heads with a single internal O-ring seal ensuring continuous leak proof service at 300 psi @ 200° F.
- * In-line pipe connection for easy installation.
- * Filter eliminates center post construction to offer a wide variety of cartridge options.
This filter can accept both double open end and single open end style elements.
- * Single and double length construction provide flow rates up to 50 c.f.m.
- * Availability in both 304 stainless steel and forged brass.
- * Filter housing comes with bottom drain.



| Model | Rated Capacity | Maximum Operating Pressure | Dimensions | | Cartridge Length | Pipe Size | Shipping Weight |
|--------|----------------|----------------------------|------------|--------------|------------------------|-----------|-----------------|
| | | | Height | Face-to-Face | | | |
| RHB783 | 25 cfm | 300 psi | 13-3/4" | 3-1/2" | 9-3/4", 9-7/8", or 10" | 3/8" | 6 |
| RHB803 | 50 cfm | 300 psi | 23-3/4" | 3-1/2" | 9-1/2" or 20" | 3/8" | 8 |



Supplemental Data

Mounting bracket kit Part # 2501 order separately

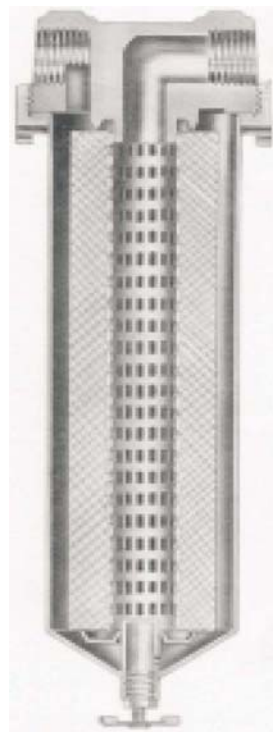
For Forged Brass Construction use prefix RHB

Standard gasket material BUNA-N- Other materials available

Stainless Steel Heads not available in 3/8 pipe size

Stainless Steel Air Filter Canisters w/ Bronze Head – RHB783

| Model | A | B | Cartridge |
|----------|------------------------------|----|-----------|
| RH78 | 13-3/4" | 13 | 10 |
| RH80 | 23-3/4" | 23 | 20 |
| Part No. | Description | | |
| 3032-3 | Forged Brass Head 3/8" | | |
| 3032-47 | Forged Brass Head 1/2" | | |
| 3032-6 | Forged Brass Head 3/4" | | |
| 3032-8 | Forged Brass Head 1" | | |
| 3042-4 | Stainless Steel Head 1/2" | | |
| 3042-6 | Stainless Steel Head 3/4" | | |
| 3042-8 | Stainless Steel Head 1" | | |
| 3033 | Forged Brass Ring Nut | | |
| 3043 | Stainless Steel Ring Nut | | |
| 3034 | Single Element Sump | | |
| 3044 | Double Element Sump | | |
| 3048 | Cartridge Guide Post 19-1/2" | | |
| 3049 | Cartridge Guide3 Post 20" | | |
| 2022-8 | 1/8" Brass Petcock | | |
| 2104-S | 1/8" S.S. Plug | | |



Activated Charcoal Cartridge
Contains a blend of pure activated carbon powder for neutralizing objectionable tastes and odors as well as removing color, rust, dirt, and sediment.

CTG-MS-97AC



MicroSentry™
One piece construction –
Continuously formed

10 Micron
MS-9.75DR10

Air Purification

BAUER Air Purification Systems purify high pressure air to a quality that meets or exceeds the requirements of CGA Pamphlet G-7, Compressed Air for Human Respiration ANSI/CGA G-7.1, Commodity Specification for Air, Grade E, and all other recognized standards for breathing air.

UP TO 6000 PSI SERVICE

| PURIFICATION SYSTEM | AIR PROCESSING CAPABILITY+ |
|---------------------|----------------------------|
| P0++ | 3,200 cu. ft. |
| P2 | 40,000 cu. ft. |
| P2 SECURUS | 67,000 cu. ft. |
| P5 | 90,000 cu. ft. |
| P5 SECURUS | 150,000 cu. ft. |
| P10 | 140,000 cu. ft. |
| P10 SECURUS | 230,000 cu. ft. |
| P12 SECURUS* | 420,000 cu. ft. |
| P14 SECURUS | 650,000 cu. ft. |
| P31++ | 11,760 cu. ft. |
| P41 | 28,700 cu. ft. |
| P41S | 47,000 cu. ft. |
| P42 | 64,000 cu. ft. |
| P42S | 107,000 cu. ft. |
| P43 | 100,000 cu. ft. |
| P43S | 164,000 cu. ft. |

P5

*Air Purification
Panel Shown*



* P12 and P14 only available with SECURUS.

+ Air Processing Capability based on standard inlet conditions, 68°F., a Pressure of 14.70 psi and a relative humidity of 36% (0.0750 density).

++ 5000 PSI Maximum Pressure, Triplex Design Is not incorporated on a panel.

SECURUS II – Purification Moisture Monitoring for Pure Breathing Air



SECURUS II ensures 100% utilization of the air processing cartridges because the moisture sensor is embedded directly in the molecular sieve. The SECURUS cartridge, with its moisture sensor, is the last cartridge in the air processing system. **SECURUS II** is powered from the PLC Control System and provides for automatic warning and shutdown when the SECURUS cartridge becomes saturated. The **SECURUS II** can be mounted locally to the SECURUS cartridge chamber or to the compressor's control panel. **SECURUS II** is available for working pressures from 2000-6000 PSIG and flow rates to 125 SCFM.

Water Fire Extinguisher



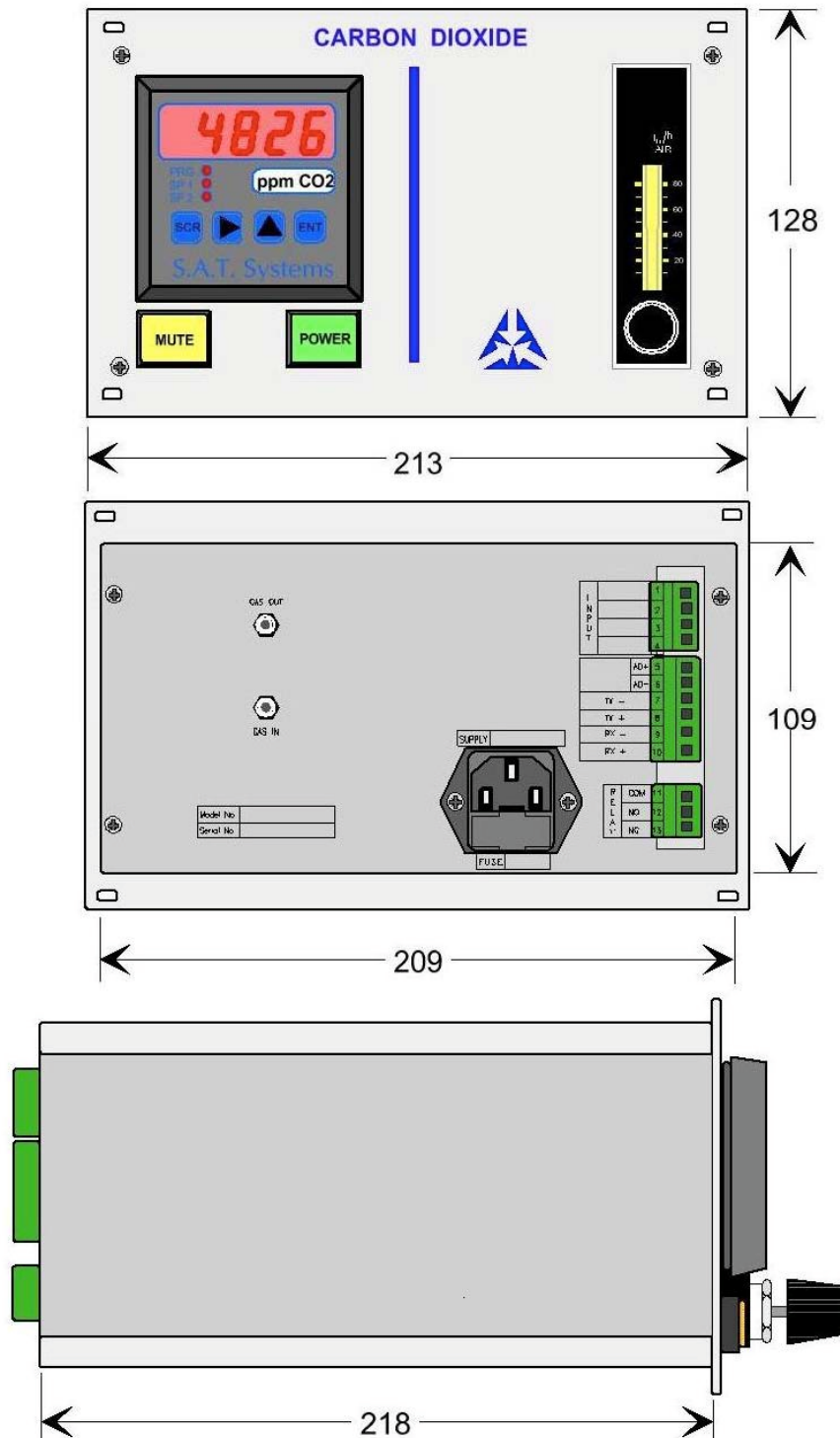
Specifications

- Water Capacity: 2.50 gal. (9.5 liters)
- Maximum Pressure: 200 psi (13.7 bar)
- Dimensions: 7.0" DIA x 30H (18 cm x 76 cm)
- Empty Weight: 6.50 lbs. (2.95 kg)

The **Model 240 Water Fire Extinguisher** is a modified Class 2-A extinguisher and is tested to ANSI/UL711 and 626 standards and is designed for the pressures and confines of a hyperbaric chamber. The Model 240 has been fully tested and approved for use in all U.S. Navy standard double lock chambers.

In actual operation the Model 240 is filled with potable water and then pressurized to 165 PSIG. The unit comes complete with a fill valve, pressure gauge and a pressure relief valve factory set at 173 PSIG to prevent over pressurization. The Model 240 can be used in a chamber pressurized to a maximum depth of 225 FSW. If the unit is activated at the maximum depth, and held until the water is exhausted, the pressure inside the extinguisher will equal the chamber pressure. With the chamber and extinguisher at equilibrium, the fire extinguisher cannot implode or crush.

DPM72 CO2 – Carbon Dioxide Analyzer





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DPM72 CO₂ – Carbon Dioxide Analyzer

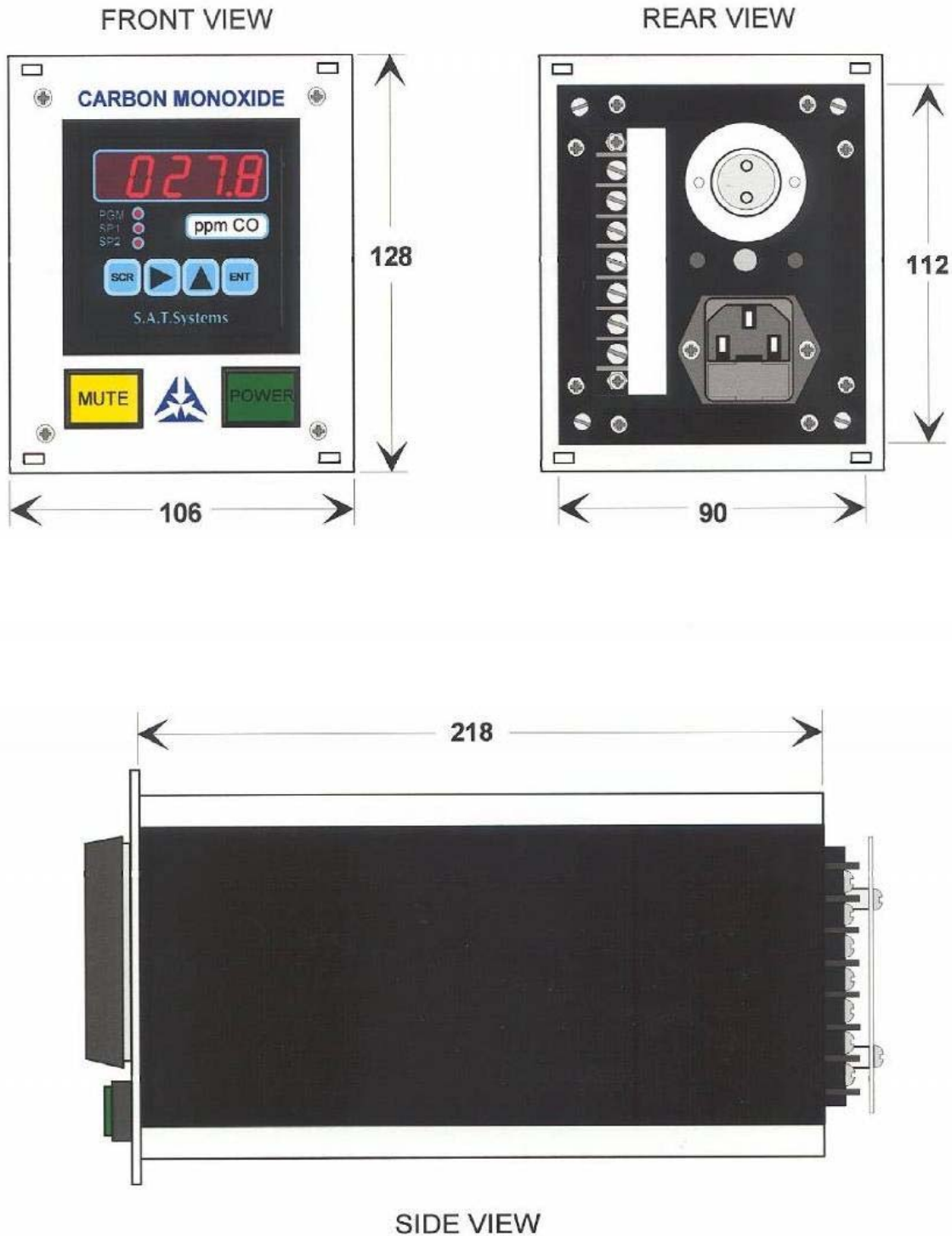
The DPM72 CO₂ Carbon Dioxide analyzer is a self contained modular unit housed in a custom 3u x ½ rack width case, that can also be panel mounted.

The unit uses a high stability dual wavelength infra-red sensor, it has a built in sample gas drier and flow meter with regulating valve. The display module has both high and low user programmable set points with an audio visual alarm and mute circuit.

Day to day calibration is carried out via the front panel keyboard. All the calibration and alarm parameters are retained in non volatile memory.

| SPECIFICATIONS | |
|---------------------|---|
| Operating Principle | Dual wavelength Infra-red Absorption |
| Range | 0 to 0.5% CO ₂ (5000 ppm) Other ranges on request |
| Accuracy | +/-% of Full Scale |
| Zero Drift | <+/-2% FSD over 12 months |
| Temperature Effect | <0.4% of F.S.D. per Deg. C. |
| Response Time | 90% in 10 Sec. |
| Warm Up Time | <3 Minutes |
| Sample Flow | 10 to 300 ml/min |
| Housing | 3U X 42HP (1/2 Rack) |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |

DPM72 CO – Carbon Monoxide Analyzer





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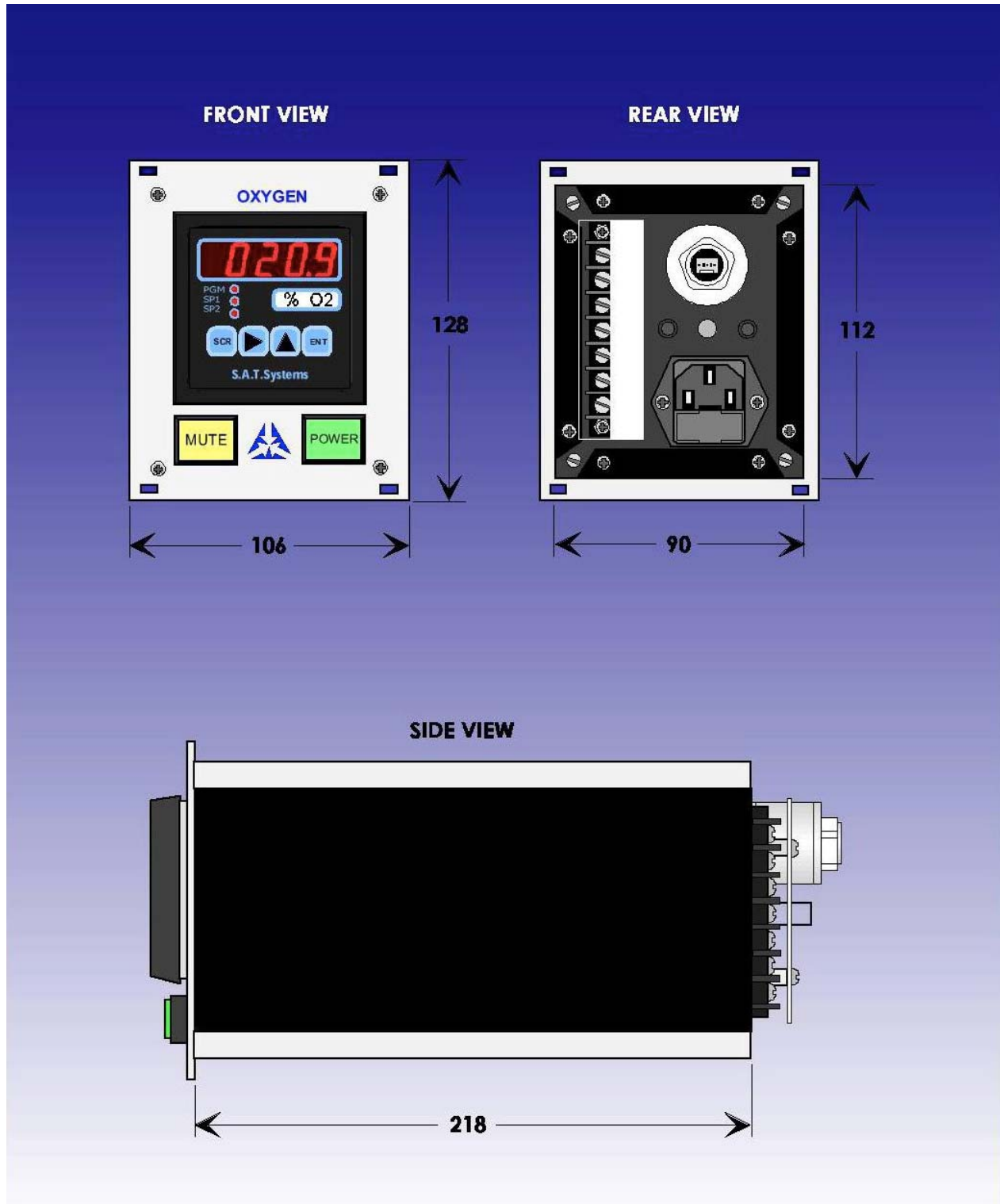
DPM72 CO – Carbon Monoxide Analyzer Cont.

The DPM72 CO Carbon Monoxide analyzer is a self contained unit housed in a custom 3U x ¼ rack width case that can also be panel mounted. This unit uses a high stability electro-chemical sensor with built in temperature compensation.

The display has high and low set points with audio visual alarm and mute circuit. Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

| Specifications | |
|---------------------|----------------------------|
| Operating Principle | Electro-chemical |
| Range | 0 to 100 ppm CO |
| Display Resolution | 0.1 ppm |
| Overall Resolution | 0.5 ppm CO |
| Temperature Effect | 0.5 ppm/°C |
| Response Time | 90% in 35 Seconds |
| Sensor Life | 2 Years |
| Sample Flow | 10 to 300 ml/min |
| Housing | 3U x 21HP (1/4 Rack) |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |

DPM72 O2 – Oxygen Analyzer





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DPM72 O2 – Oxygen Analyzer Cont.

The DPM72 O2 Oxygen analyzer in a self contained unit housed in a custom 3u x ¼ rack width case, that can also be panel mounted.

This unit uses a high stability electro-chemical sensor with built in temperature compensation.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

| Specifications | |
|----------------------|--|
| Operating Principle | Electro-chemical |
| Range | 0 to 100% oxygen |
| Resolution | 0.1% oxygen |
| Accuracy | 1% of Full Scale |
| Response Time | 90% in 10 Sec |
| Sample Flow | 10 to 300 ml/min |
| Housing | 3U X 21 HP (1/4 Rack) |
| Relay Output | 8 Amp changeover relay |
| Power Requirements | 110, 230 VAC or 24 VDC 6 W |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Expected Sensor Life | 1.5* 10 ⁶ % oxygen hours @ 20°C |

Mini-O2 Portable Oxygen Analyzer



Analox Mini-O2 Portable Oxygen Analyzer is an accurate, fast response portable oxygen analyzer in an ultra small ABS case. Designed to handle harsh environments, the MINI-O2 is housed in an extremely rugged IP65/NEMA-4 case and is both water and drop resistant.

The internally mounted oxygen sensor is fully temperature compensated minimizing the effects of temperature changes, its internal design also avoids the large temperature effects that remotely mounted oxygen sensors suffer from.

The 4-year life that the Analox oxygen sensor is expected to have in air is backed by our 2-year graded warranty, this together w/ the enormous 4000 hour battery life gives you unbeatable value and dependability.

Calibration can be performed in only 30 seconds by simply exposing the sensor to air and adjusting the waterproof calibration knob to read 20.9%. The Analox oxygen sensor is completely sealed unit and is maintenance free.

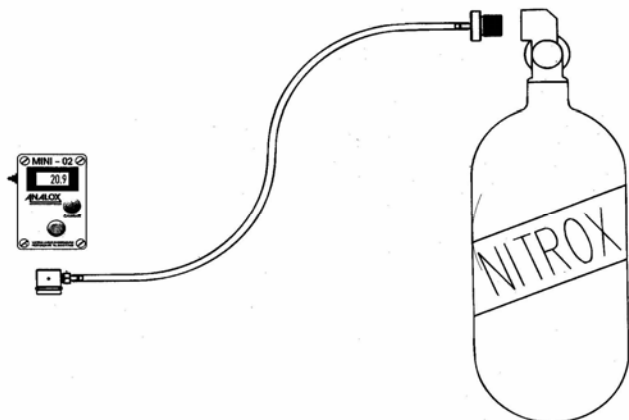
Analox MO25K High Pressure Sampling Kit

The Analox MINI-O2 can be supplied w/ its own special sampling kit to make analyzing your NITROX mixture as easy as possible. It consists of three parts:

- 1) Analox MO2RE high pressure flow restrictor valve w/ safety orifice. Suitable for use on all cylinders w/ 5/8 BSP DIN female fitting.
- 2) Analox MO2HO 1 meter of tough neoprene sample hose to connect the MO2RE to the MO2FA.
- 3) Analox MO2FA special NITROX flow adaptor to help prevent sensor pressurization.

| Features: | |
|----------------------------------|---|
| Small Size: | Easy portability, only 200 gms in weight |
| Performance and Price: | Unsurpassed performance and value |
| 4000 Hour 9 Volt Battery: | Up to 36 months intermittent operation |
| Digital Display: | Easy to read 3-1/2" digit LCD |
| Fast Response Sensor: | Less than 15 seconds to go 90% of final reading |
| Long Life Sensor: | Four year expected life, 2 year guarantee |
| Water Resistant: | Excellent water resistance (IP65, NEMA4) |
| Drop Resistant: | Tough drop resistant ABS case |
| Easy Calibration: | Easy adjust calibration |
| Professional Design for: | Commercial, Military and Recreational Diving |

Mini-O2 Portable Oxygen Analyzer Cont.



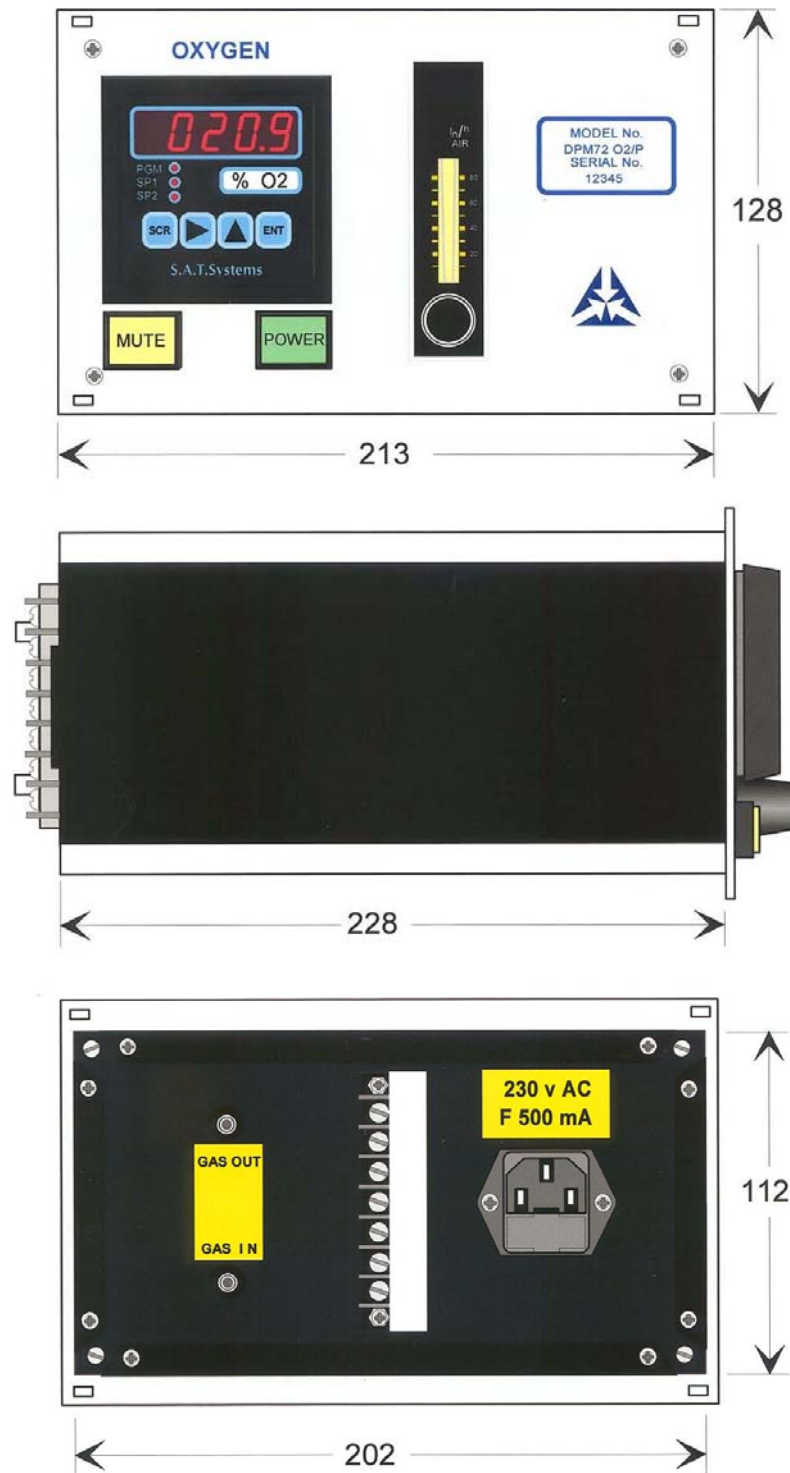
| | |
|------------------------|---|
| Range | 0.1-100%CO ² |
| Accuracy | +/- 1% of readout |
| Resolution | +/- 0.1 Oxygen |
| Display | 3-1/2" digit LCD 15mm characters |
| Power | 9 volt battery (4000 hours) |
| Operating Temp. | -5 -50°C (23-122°F) |
| Sensor Life | Four year expected Two year guaranteed |
| Sensor Response | Less than 15 secs to 90% of final reading |
| Dimensions | |
| Length | 3.86" (98mm) |
| Width | 1.5" (36mm) |
| Depth | 2.5" (64mm) |
| Weight | 7 oz. (200gm) |

| Part No. | Description |
|-----------|-----------------|
| SA1-MO2-2 | Oxygen Analyzer |
| SA2-MO25K | Sampling Kit |
| SA2-MO2CC | Carrying Case |

Applications:

- * Verifying O2 Levels in Nitrox Cylinders
- * Monitoring Compressor Output for O2 Concentration
- * Measuring O2 Levels in Diving Chambers
- * Medical Applications

DPM72 O2/P – Paramagnetic Oxygen Analyzer





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DPM72 O₂/P – Paramagnetic Oxygen Analyzer Cont.

The DPM72 O₂/P Paramagnetic Oxygen analyzer is a self contained unit housed in a custom 3u x ½ rack width case, that can also be panel mounted.

This unit uses a high stability sensor based on the Faraday principle of paramagnetism. This form of sensing provides advantages over conventional “Fuel Cell” sensing as it does not deteriorate over time and therefore periodic sensor replacement is not required.

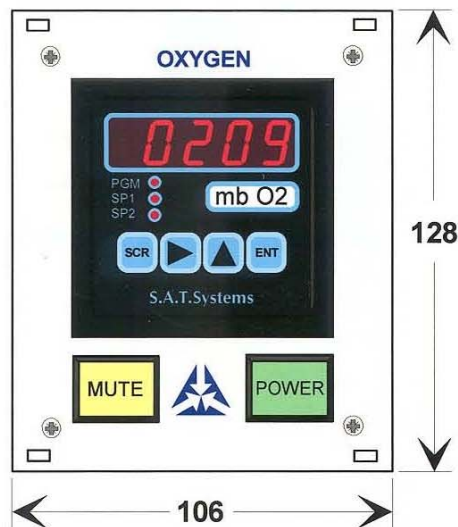
The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

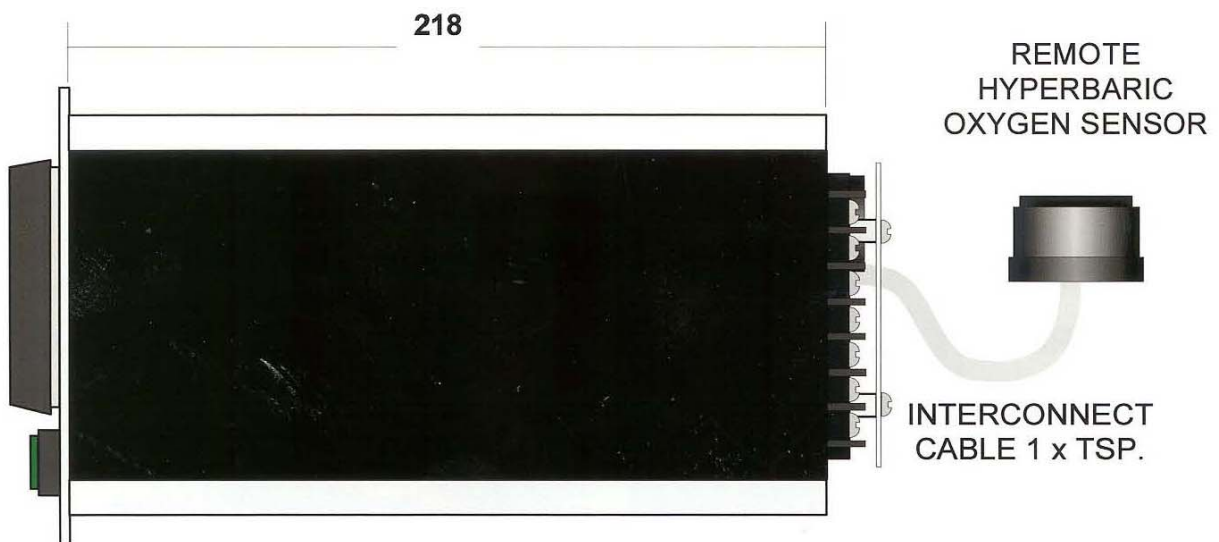
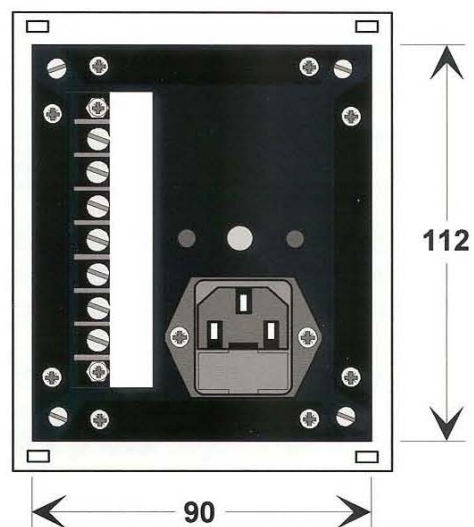
| Specifications | |
|---------------------|--------------------------|
| Operating Principle | Paramagnetic principle |
| Range | 0 to 100% Oxygen |
| Accuracy | 0.2% of Full Scale |
| Response Time | 0.5 sec at 90ml/min flow |
| Sample Flow | 50 to 100 ml/min |
| Housing | 3U X 42HP (1/2 Rack) |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6 |

DPM72 O2/C – Oxygen Controller

FRONT VIEW



REAR VIEW



SIDE VIEW



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DPM72 O2/C – Oxygen Controller Cont.

This unit uses a high stability Electro-chemical sensor with built in temperature compensation and a programmable display for controlling the concentration of oxygen in an enclosed compartment.

Day to day calibration is carried out from the display panel. All the calibration and alarm parameters are retained in non volatile memory.

PRINCIPLE OF OPERATION

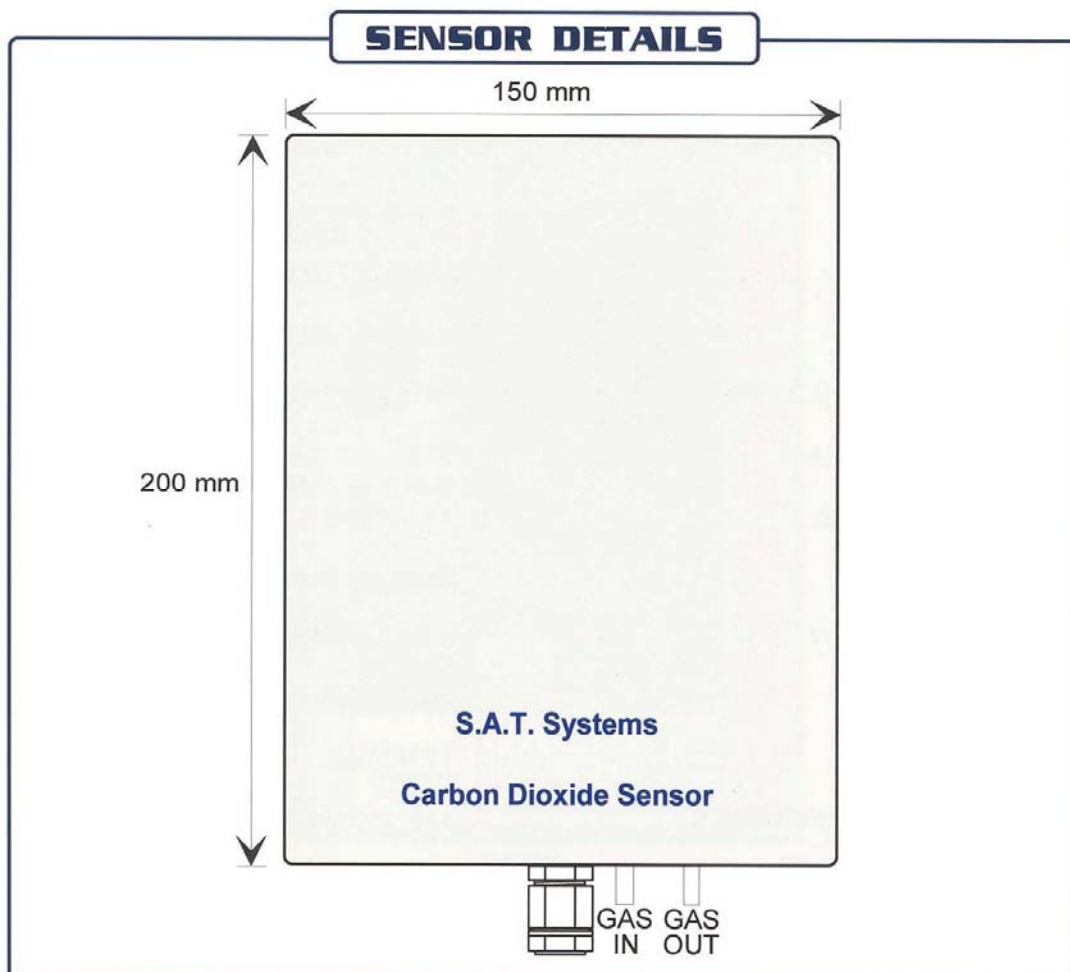
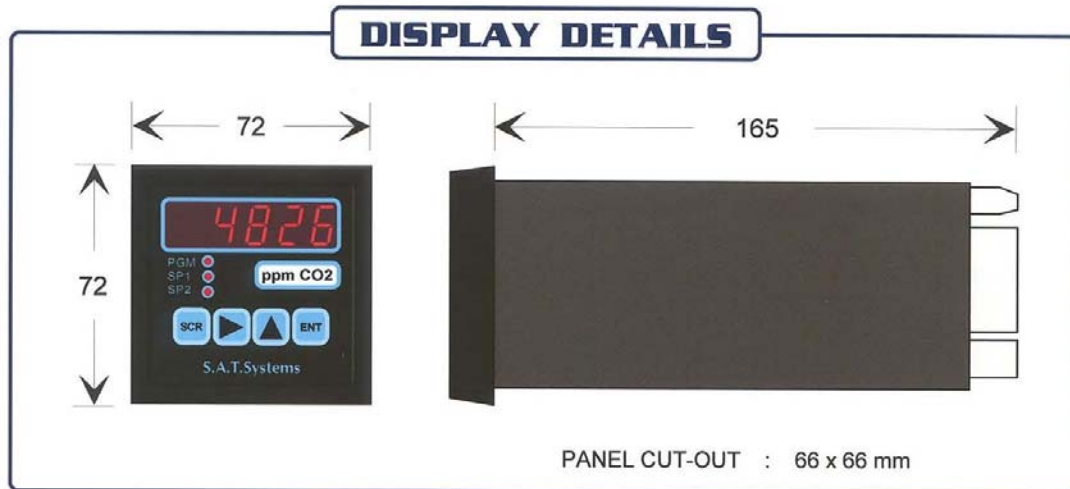
Oxygen concentration is sensed and displayed on the controller, a programmable set point is used to select the required Oxygen level.

If the Oxygen concentration sensed by the fuel cell is below the control set point value, the controller will operate the solenoid valve for a user defined time period in the range 0 to 255 seconds. After the injection period the solenoid valve will close for a further user defined time period in the range 0 to 255 seconds, to allow for mixing. If the Oxygen level is still below the control set point the cycle repeats until the required Oxygen is reached.

SPECIFICATIONS

| | |
|---------------------|-----------------------------|
| Operating Principle | Electro-chemical |
| Range | 0 to 100% Oxygen |
| Accuracy | 1% of Full Scale |
| Response Time | 90% in 12 Seconds |
| Relay Output | 8 Amp change-over relay |
| Warranty | 12 Months (sensor 9 months) |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |
| Optional Extras | O2 Clean, Solenoid valve |

OEM72 CO2 – Carbon Dioxide Monitor





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OEM72 CO₂ – Carbon Dioxide Monitor

The cost effective Carbon Dioxide analyzer in modular form that consists of a panel mount display unit and a separate sensor that can be installed remotely.

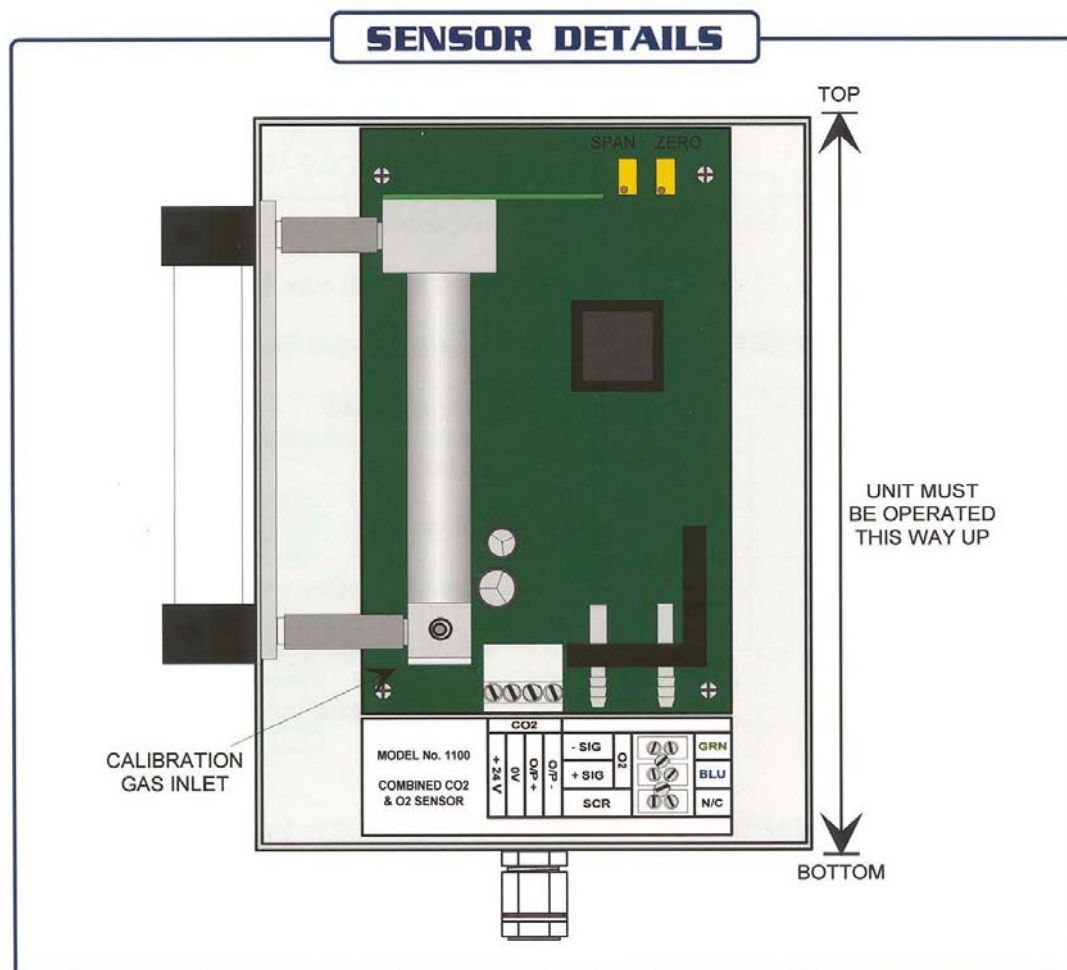
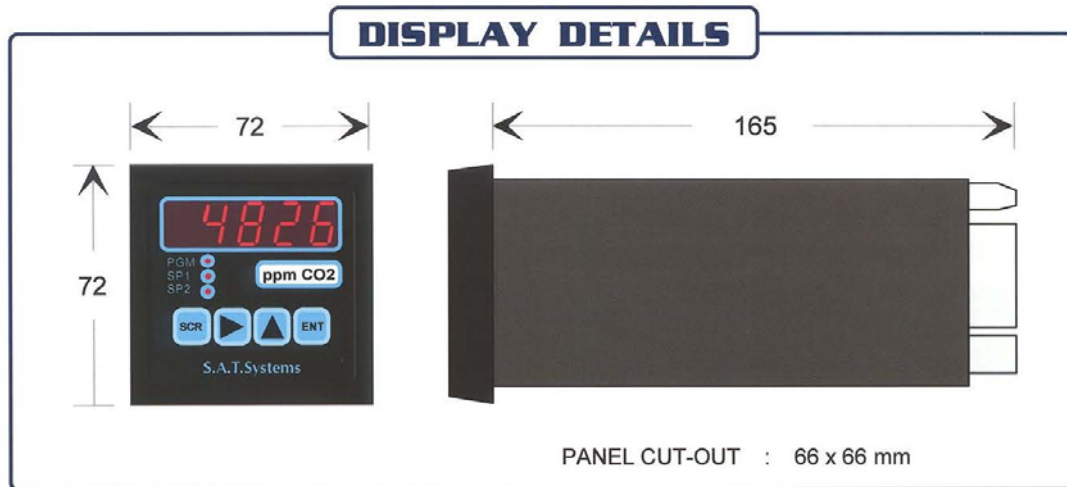
This unit is used in sample gas systems. The sensor housing can also accommodate an O₂ sensor, connected to a separate display unit, for limited space applications.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out via the front panel keypad. All the calibration and alarm parameters are retained in non volatile memory.

| Specifications | |
|---------------------|---|
| Operating Principle | Infra-red Absorption (Dual wavelength) |
| Range | 0 to 0.5% CO ₂ 0 – 5000ppm |
| Accuracy | +/- 2% of Full Scale |
| Zero Drift | <+/-2% of FSD over 12 Months |
| Temperature Effect | <0.4% of FSD per Degree C |
| Response Time | 90% in 10 Seconds (sample application) |
| Warm Up Time | <3 Minutes |
| Housing | Separate display and sensor |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |

OEM72 CO2A – Carbon Dioxide Monitor





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OEM72 CO2A – Carbon Dioxide Monitor Cont.

The cost effective Carbon Dioxide analyzer in modular form that consists of a panel mount display unit and a separate sensor that can be installed remotely.

This unit is used to monitor ambient Carbon Dioxide levels. When monitoring ambient CO₂, the sensor is wall mounted vertically and draws in its sample by convection.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out via the front panel keypad. All the calibration and alarm parameters are retained in non volatile memory.

The CO₂ sensor housing can also accommodate an O₂ sensor, connected to a separate display unit, for limited space applications.

| Specifications | |
|---------------------|---|
| Operating Principle | Infra-red Absorption (Dual wavelength) |
| Range | 0. to 0.5% CO ₂ 0 – 5000 ppm |
| Accuracy | +/-2% of Full Scale |
| Zero Drift | <+/-2% FSD over 12 Months |
| Temperature Effect | <0.4% of FSD per Degree C |
| Response Time | 90% in 10 Sec (sampled application) |
| Warm Up Time | <3 Minutes |
| Sample Flow | Convection |
| Housing | Separate display and sensor |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |

Analox 5001 Carbon Dioxide Monitor



The Analox 5001 sensor is an Analox Transducer complete with temperature and drift compensation, individually characterized in an environmental chamber for long term accuracy and reliability. The 5001 Series is available in many different configurations to ensure compatibility with most systems.

The Analox 5001 incorporates the Analox Infrared transducer which is based on a measurement and reference sensor principle, utilizing sample path lengths of between 1mm and 100mm in length depending on the concentration to be measured, and wave length selection by a carefully specified narrow band interference filter.

The source is pulsed at regular intervals to produce an Infrared carrier signal, which is attenuated by carbon dioxide absorption, and a detection system which converts the attenuation into an electrical output.

Features:

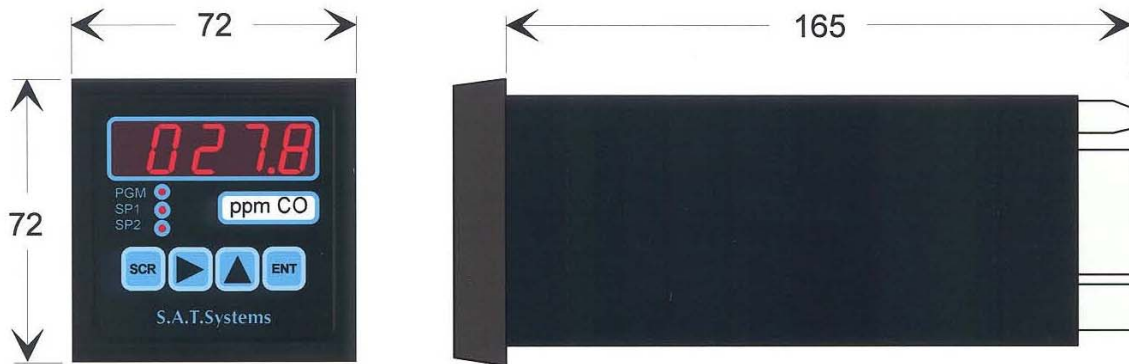
- Easy to read 4-1/2 in. digit LED digital display
- User adjustable high and low audio and visual alarms with false alarm suppression
- Accepts to all known power voltages world wide
- Available in panel mount or rack mount
- Wide variety of options available to meet your special requirements

Specifications

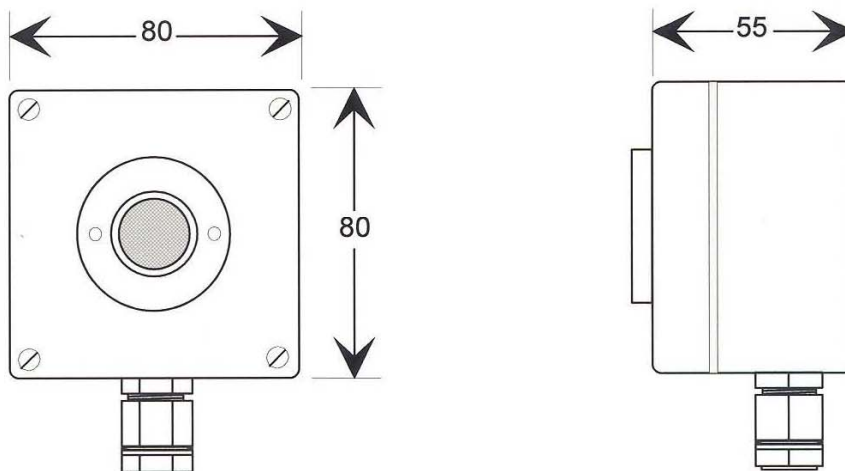
- Range: 0-10,000 PPM
- Sample Flow: 0.15 lpm
- Sensor Life: Infinite
- Max. Pressure (sensor): 1.25 bar absolute
- Outputs: 0-1V
- Input Connection: 1/4 in. MNPT
- Dimensions: 5.25 in. (133mm) L x 4.75 in. (120mm) W x 10.05 in. (255mm) D
- Weight: 4.4 lbs. (2 kg)

OEM72 CO – Carbon Monoxide Monitor

DISPLAY DETAILS



SENSOR DETAILS



WALL MOUNTED SENSOR



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OEM72 CO – Carbon Monoxide Monitor Cont.

The OEM72 CO Carbon Monoxide monitor is a cost effective unit in modular form that consists of a panel mounted display unit and a separate sensor that can be installed remotely.

This unit uses a high stability electro-chemical sensor with built in temperature compensation.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in a non volatile memory.

| Specifications | |
|---------------------|-----------------------------|
| Operating Principle | Electro-chemical |
| Range | 0 to 100 ppm CO |
| Display Resolution | 0.1 ppm |
| Overall Resolution | 0.5 ppm CO |
| Temperature Effect | 0.5 ppm/°C |
| Response Time | 90% in 35 Seconds |
| Sensor Life | 2 Years |
| Sample Flow | 10 to 300 ml/min |
| Housing | Separate display and sensor |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |

Analox 3000 Carbon Monoxide (CO) Analyzer



The Analox 3000 Carbon Monoxide Monitor is recommended for use with air diving systems. The Analox range of Toxic Monitors are supplied with 4-20 mA loop powered, two wire transmitters using electrochemical cells. With this various gases can be detected, but the most commonly required is Carbon Monoxide (CO).

The CO version is available in 2 ranges. 30ppm suitable for sat and air diving and 0-100ppm suitable for air diving. This allows the CO content to be monitored in the gas supplied to the diver. The sensor can be mounted remotely from the display panel.

Features:

- Accurate and reliable readings
- Easy read displays for quick interpretation
- Adjustable audio and visual alarms
- Minimum user downtime
- Designed to be user serviced and maintained
- Common fixings and connections speed installation
- Easy to use – recognizable world wide by 99% of diving technicians
- Familiarity – needs no re-training to operate due to a commonality of user functions
- Battery Back-Up option – in the event of interrupted power supplies

Specifications:

- Display module is complete with:
 - 2 High Audible/Visual Alarms
 - 4.5 Digit LED Display
- Input Voltage is 85-264 VAC/120-370 VDC
- Input Frequency is 47-63 Hz
- Output Volt is 0-1
- Ranges Available:
 - 0-100ppm Carbon Monoxide (CO) suitable for Air Diving
 - 0-30ppm Carbon Monoxide (CO) suitable for Sat and Air Diving
- Sensor Type: Carbon Monoxide (Others are available upon request)
- Mounting Options:
 - Panel Mount
 - Rack Mount
- Output Options:
 - 2 x SPCO Relays and 4-20mAmp
 - Battery Back Up (2 Hours)

CO2000 – Portable Carbon Dioxide & Oxygen Percentage Monitor

Description

The CO2000 is a battery operated portable combined carbon dioxide and oxygen monitor with high and low adjustable alarms.

It measures oxygen concentration using a long life electro-chemical sensor and carbon dioxide using a high stability dual wavelength infra-red sensor. Each sensor output is scaled and displayed on a back-lit LCD display.

A built-in sample pressure reducer allows the unit to read from sample lines from ambient pressure up to a maximum of 120 psi/8 Bar.

Audible and visual flow failure and low battery indication provide the user with on-screen diagnostics.

Possible Applications

Atmospheric measuring of decompression chambers while pressurized.

Checking of mixed gases in diving and other critical applications.

Confined space monitoring

Continuous gas sample monitoring.

Features

Range: 0 to 100% Oxygen / 0 to 5000 ppm CO₂

Resolution: 0.1% Oxygen / 1 ppm CO₂ display, 20 ppm analytical.

Accuracy 1% Oxygen / +/- 2% of full scale Carbon Dioxide

120 psi / 8 bar connection point, enabling direct connection to a chamber depth gauge line (Pneumo)

Keypad controls with microcontroller providing simple calibration and alarm settings.

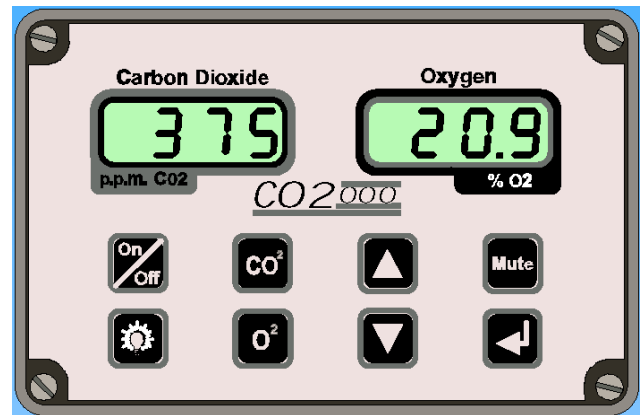
Impact resistant case sealed to IP65.

Uses 4 x 'D' size 1.5V Alkaline batteries. (Continuous use battery life in excess of 40 Hours).

High and Low audio Visual Alarms

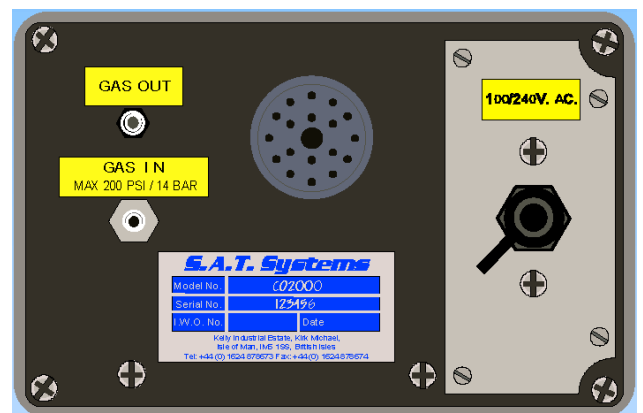
Low battery Voltage indication

Back-lit Liquid Crystal Display

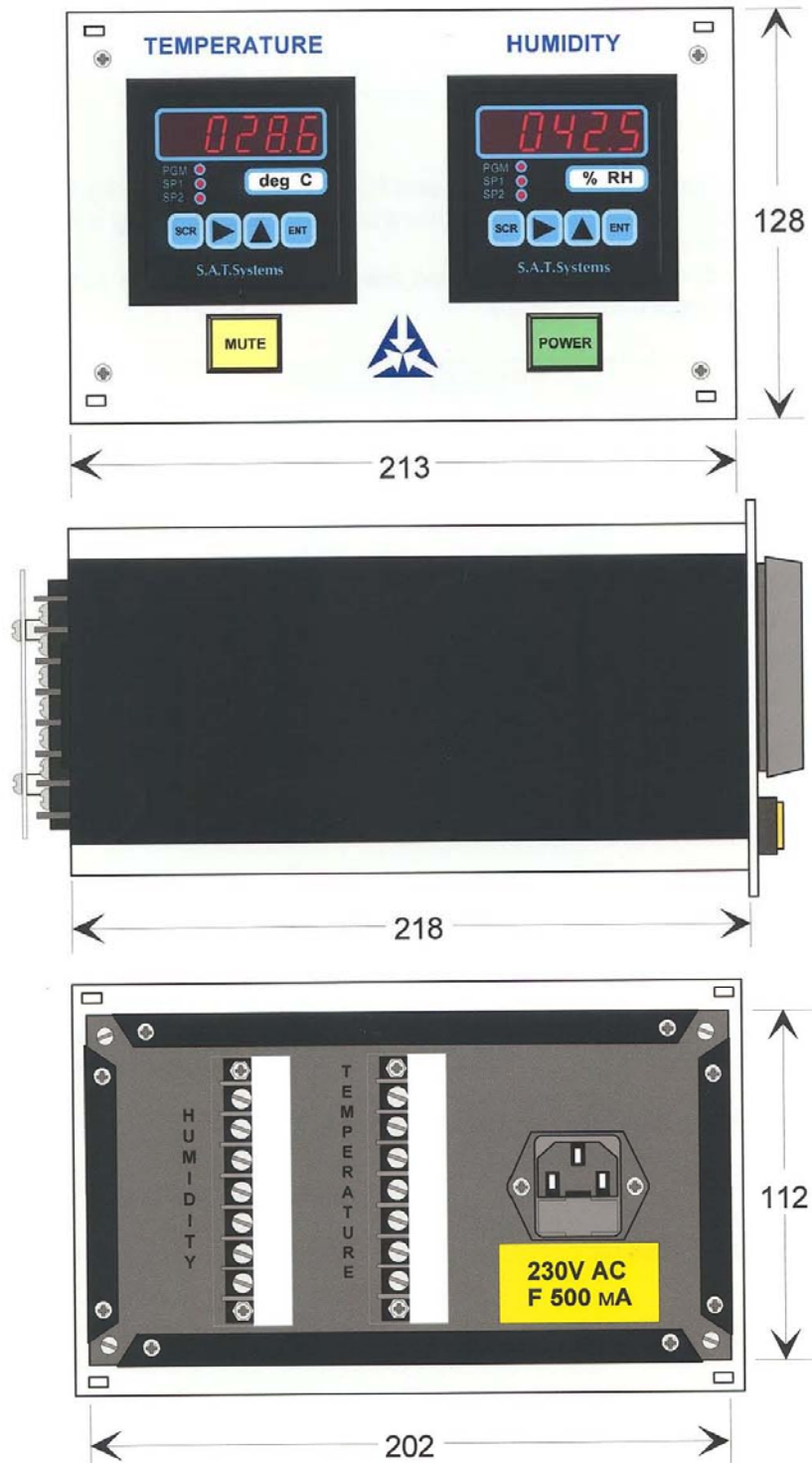


Dimensions

Height = 112 mm
Width = 172 mm
Depth = 233 mm



DPM72 T&H – Temperature & Humidity Monitor





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DPM72 T&H – Temperature & Humidity Monitor Cont.

The DPM72 T&H, Temperature & Humidity monitor is a modular unit with separate sensor and dual displays housed in a custom 3u x ½ rack width case, that can also be panel mounted.

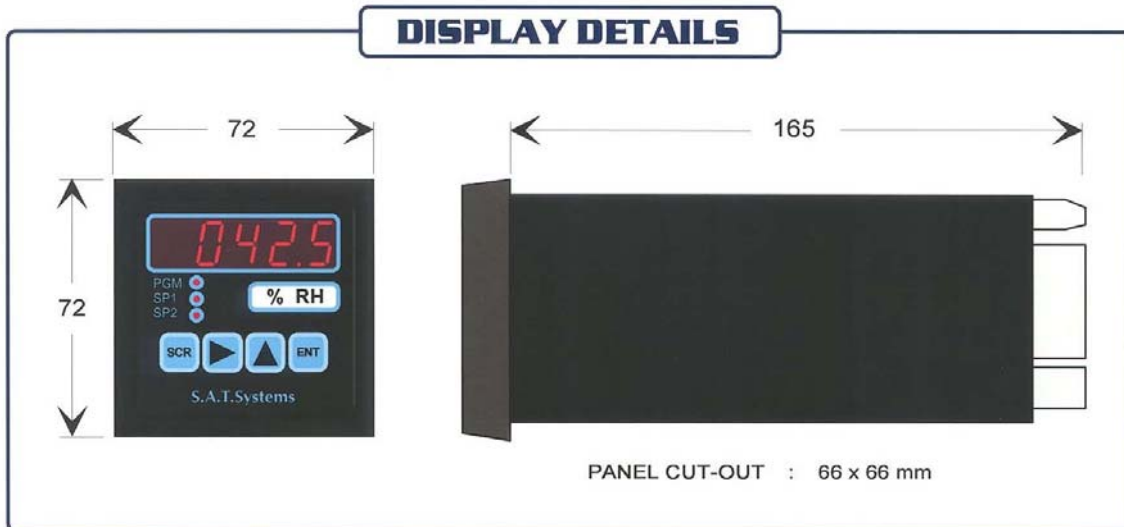
The unit uses a combined temperature and humidity sensor. Humidity is measure using a a capacitive Polymer sensor, temperature is measured using a high stability Molybdenum sensing element. The display modules both have high and low user programmable set points with audio visual alarms and mute circuit.

SPECIFICATIONS

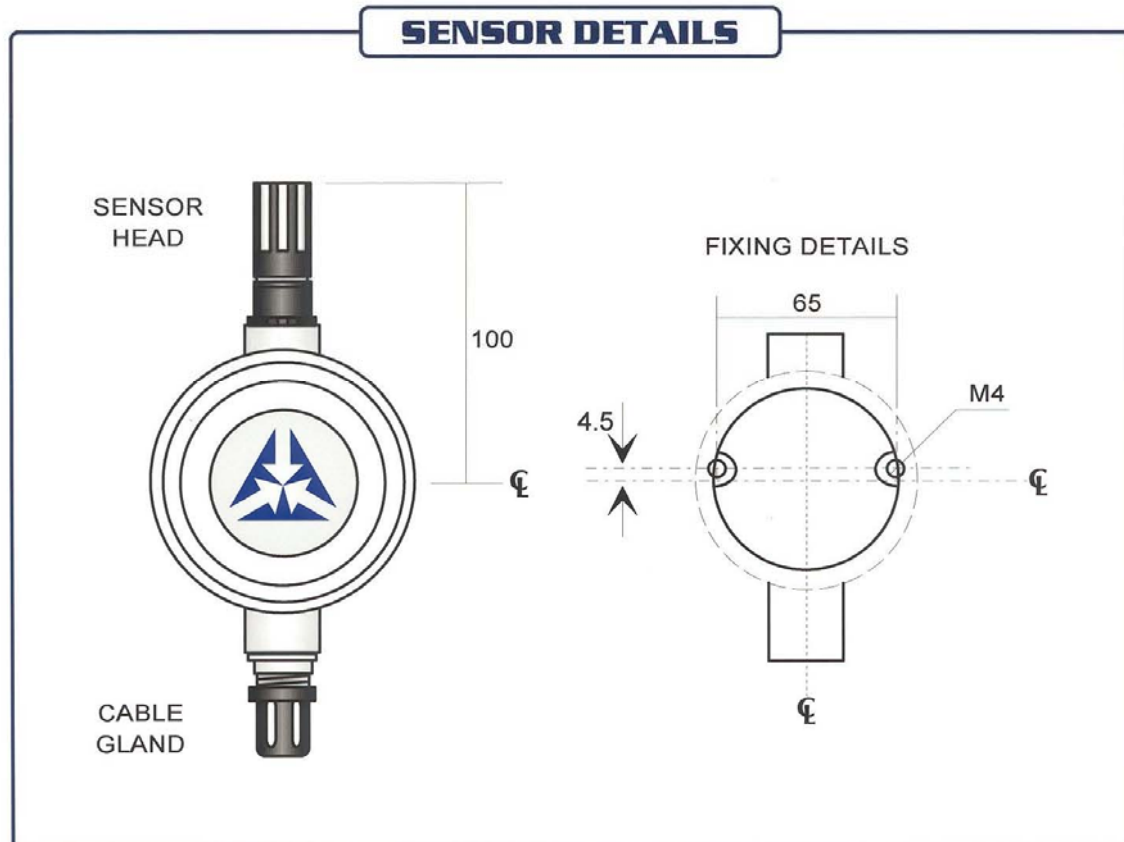
| <u>HUMIDITY</u> | |
|-----------------------|---|
| Operating Principle | Capacitive polymer |
| Range | 0 to 100% RH |
| Accuracy | 2% RH |
| <u>TEMPERATURE</u> | |
| Operating Principle | Molybdenum resistance element |
| Range | 0 to 50°C |
| Accuracy | 0.1°C |
| <u>DISPLAY UNIT</u> | |
| Housing | 3U x 42HP (1/2 Rack) IP54 when housed in cabinet |
| Relay Output | 8 Amp change-over relay |
| Operating Temp. Range | 0 to 45°C |
| Options | Analogue/Serial output |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |
| Warranty | 12 Months |

OEM72 H – Humidity Monitor

DISPLAY DETAILS



SENSOR DETAILS





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OEM72 H – Humidity Monitor Cont.

The OEM72 H, Humidity monitor is a modular unit with separate sensor and display unit.

Humidity is measured using a capacitive Polymer sensor. The sensor unit can also be used as a combined temperature and humidity sensor.

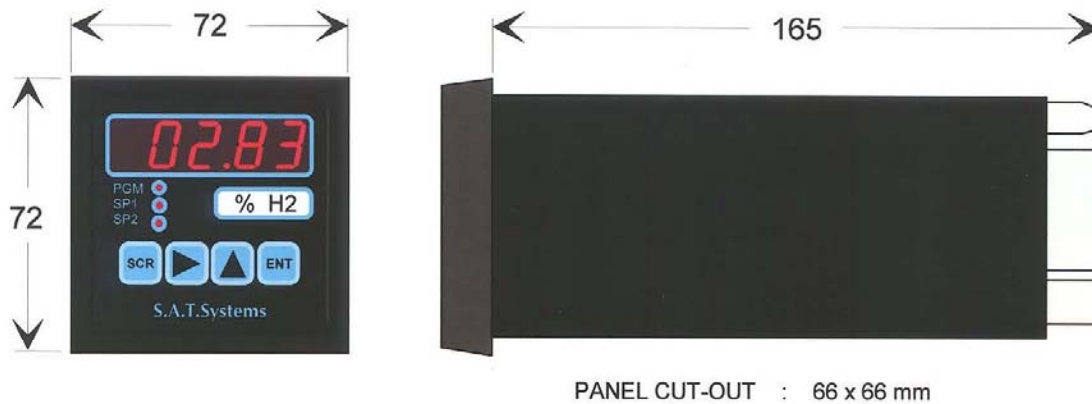
The display module has a high and low, user programmable, set point with audio and visual alarms and mute circuit.

Day to day calibration can be carried out from the front panel. All the calibration and alarm parameters are retained in a non volatile memory.

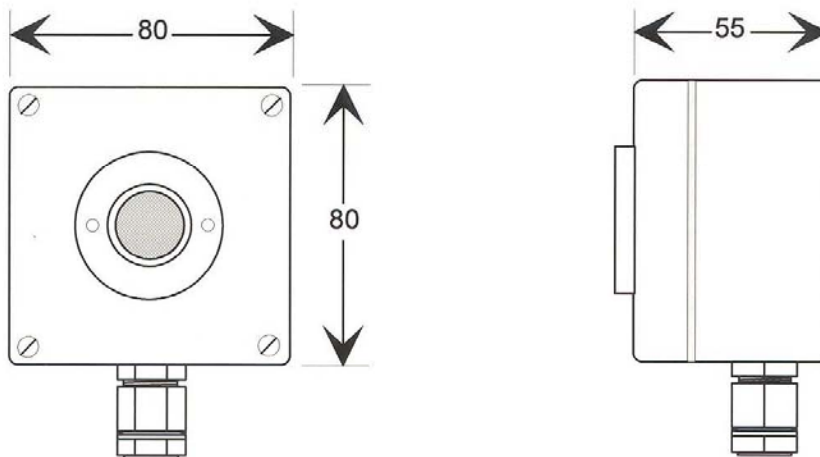
| Specifications | |
|-----------------------------|----------------------------|
| <u>HUMIDITY</u> | |
| Operating Principle | Capacitive polymer |
| Range | 0 to 100% RH |
| Accuracy | 2% RH |
| <u>DISPLAY UNIT</u> | |
| Housing | Separate display & sensor |
| Relay Output | 8 Amp change-over relay |
| Operating Temperature Range | 0 to 45°C |
| Options | Analogue/Serial output |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |
| Warranty | 12 Months |

OEM72 H2 – Hydrogen Percent Monitor

DISPLAY DETAILS



SENSOR DETAILS



WALL MOUNTED SENSOR OPTION



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OEM72 H2 – Hydrogen Percent Monitor Cont.

A low cost, compact Hydrogen monitor with a remote sensor.

The wall mounted sensor provides a convenient method of monitoring enclosed compartments for potentially explosive gas mixtures.

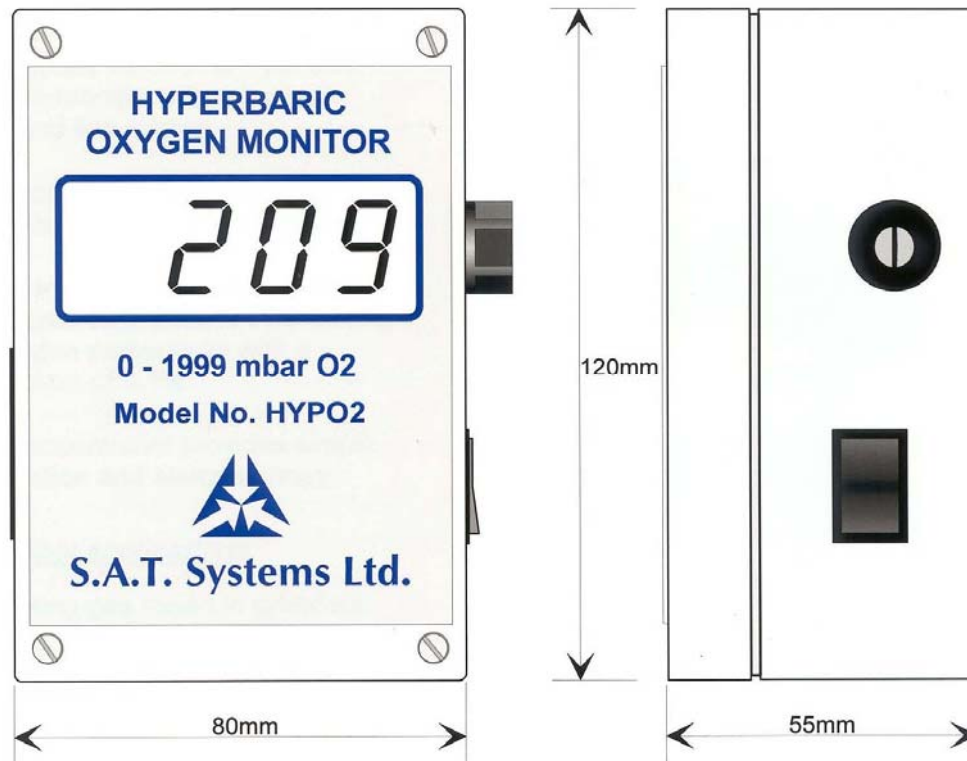
This unit uses a high stability electro-chemical sensor with built pre-amplifier to allow signal transmission through electrically noisy areas without degradation.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

| Specifications | |
|---------------------|---|
| Operating Principle | Electro-chemical With built-in pre-amplifier |
| Range | 0 to 5% Hydrogen |
| Accuracy | 1% of Full Scale |
| Response Time | 90% in 12 Seconds |
| Sample Flow | Diffusion |
| Housing | Separate display and sensor |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months (sensor 9 months) |
| Power Requirements | 110, 200 VAC or 24 VDC 6 W |

Model HYP O2 Hyperbaric Oxygen Monitor



Fixing centers: 50mm x 108mm

Description

The Model HYP O2 is a battery powered portable oxygen monitor, used to display the oxygen partial pressure in a compartment.

Principle of Operation

Oxygen is detected by an electro-chemical sensor, which produces a millivolt output proportional to oxygen partial pressure. The sensor output is scaled and displayed in millibar oxygen.

Features

- Range 0 – 1999 millibar oxygen
- High resolution (1mb O2) and accuracy 1% of FS
- Integral battery compartment (9v PP3)
- ON/OFF Switch
- Low battery indication
- Impact resistant case
- Zero warm-up time
- Non attitude sensitive
- Long life, fast response, temperature compensated, sensor

Analox 101D2 Portable Oxygen Monitor



This Analox Portable Analyzer has a dual range with manual selection measuring 0.00-19.99% O₂ and 0.0-100% O₂. The unit is supplied standard with a Remote 9212-4 Oxygen Sensor Unit which comes with 1 meter cable. High and low audible and visual alarms with precise setting to 0.01% and mute facility are fitted. Operates for up to one month continuously from 4 AA batteries.

An optional Expansion Board is available for the portable instrument to provide relays, 4-20 mA signal input, 0-1 V signal output, internal DC or main power supply.

Note: The relay only functions when main power is connected, it does not function on battery power.

Features

- Offers dual range with manual selection measuring 0.00-19.99% O₂ and 0.00-100% O₂
- User adjustable high and low audio and visual alarms with precise setting to 0.01% and lockable alarm settings to prevent accidental movement
- Can continuously operate for up to one month on only four AA batteries
- Alarms incorporate hysteresis technology to overcome nuisance re-triggering when measuring near an alarm point
- Front panel calibration
- Single adjustment calibrates both ranges
- Low battery indicator

Specifications:

- Range at atmospheric pressure: 0.00% to 19.99% O₂, 00.0% to 100.0% O₂
- Minimum Reading: 0.01%
- Accuracy: $\pm 0.1\%$ of readout
- Temperature Effect: ± 0.02 of readout per degree C
- Sensor Life: 3 years at 21% O₂
- Battery; 4 AA Batteries
- Height: 2-3/4 in. (68mm)
- Width: 6 in. (148mm)
- Depth: 8-1/4 in. (205mm)
- Weight: 1.54 lbs. (700 g)

Analox 100 HYP MKIII Oxygen Monitor



The Analox 100 HYP MKIII partial pressure oxygen analyzer is designed for internal chamber or bell use. The 100 HYP MKIII has been tested at depths of up to 600 Meters Sea Water (2500 FSW) but can equally be used at surface pressures. The circuit boards are specially coated for protection against humidity and condensation.

The 100 HYP MKIII is fitted with the latest technology oxygen cell using advanced electrochemical techniques giving the unit high-speed response and long life. The advanced sensor is fully temperature compensated for accurate readings. Life of the oxygen sensor in an ambient atmosphere is up to 3 years.

Features

- Advanced Oxygen Sensor: Ultra long life Oxygen Sensor up to 3 years life in NTP
- High Visibility: Easy to see large digit LCD display, moisture protected for use in hyperbaric conditions
- Easy To Use: Direct reading in partial pressure of Oxygen in Bar PPO₂ or mBar PPO₂
- Convenient: Small size for convenient fitting in chamber or bell and, alternatively, hand held use
- Flexible Design: Sensor signal output socket for connection to an external analyzer mounted in the control room
- Tamper Resistant: Span control is screwdriver adjustable to help prevent unintentional alteration
- Low Maintenance: High power alkaline battery gives long life for long uninterrupted service and easy replacement.

Specifications

- Range: 0.00-2.00 Bar PPO₂, or 0-2000 mBar PPO_s
- Accuracy: + 1% of readout
- Minimum Reading: 0.01Bar PPO_s or 10 mBar PPO_s
- Temperature Effect: 0.04% of readout per oC
- Sensor Type: Analox 9212-5H
- Sensor Life: 36 months at NTP
- Battery Type: PP3
- Dimensions: 5.7 in. (95mm) H x 3.15 in. (52mm) W x 1.44 in. (30mm) D
- Weight: 8.3 oz. (0.4 kg lbs)

Analox 1000 Oxygen Monitor



The Analox 1000 Series Oxygen Monitors are designed and manufactured specifically for the diving industry utilizing the highest standards in solid state electronic design. The 1000 Series comes standard with high and low audio and visual alarms, dual resolution, digital LED display, 0-1 volt signal for non-remote recording devices and screw-on type flow-thru adapter.

The Model 1000 is available in two readouts:

1. Percent reading, where the sensor is located at ambient pressures and gas samples are passed from the chamber via tubing across the sensor.
2. Hyperbaric readings in mbar PPO_s where the sensor is located inside the chamber or bell and provides a direct reading of chamber partial pressure oxygen levels.

There are 3 sensor types available for the 1000 Series:

1. Teledyne B1 or C3 disposable type which requires a separate temperature compensating module.
2. Analox 3 year disposable Series, 9212 with built in temperature compensation.
3. Infinite life Paramagnetic Sensor. (The paramagnetic sensor cannot be placed in the chamber or bell).

Features:

- Accurate and reliable readings of diving gasses
- Unique O₂ and CO₂ sensors fully temperature compensated
- Easy read displays for quick interpretation
- Full analyzer range including He and N₂
- Adjustable audio and visual alarms
- Minimum user downtime
- Designed to be user serviced and maintained
- Common fixings and connections speed installation
- Easy to use – recognizable world wide by 99% of diving technicians
- Familiarity – needs no re-training to operate all version due to a commonality of user functions.
- Battery Back-Up option – in the event of interrupted power supplies



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Analox 1000 Oxygen Monitor

Specifications:

- Display: 4-1/2 digit LED, 7 segment red 15mm high Digits flash when over range
- Resolution: 0.01% O_s or 0.1 mBar PPO₂
- Electronic Accuracy: $\pm 0.02\%$ F.S.
- Power Requirements: Multi-input integrated power supply with spike, transient and surge protection. Accepting: 12-33 VDC Max. ripple 1V; 12-24 VAC, 100 VAC, 240 VAC
- Power Consumption: 8 VA
- Un-interruptible Power Supply (Optional): Up to 1 hour internal battery backup power
- Relays (optional): 2 ea. 7 amp SPCO Volt free relays for remote alarm or solenoid valve activation
- Outputs: 0-1 V Standard: for local recording devices, local repeater 4-20 mA (optional) Industry Standard signal output for remote recording devices and alarms
- Operating Temp. Limits: 32 to 140 degrees F
- Storage Temp. Limits: -40 to 185 degrees F, -40 to 85 degrees C
- Relative Humidity Limits: 95% at 104 degrees F (40 degrees C) non-condensing

Dimensions:

- Panel: 5.25 in. (133mm) H x 4.75 in. (120mm) W x 10.04 in. (255mm) D
- Cut Out: 4.41 in. (112mm) H x 4.01 in. (102mm) W
- Weight: 4.4 lbs. (2 kg)
- Mounting Holes (4) (distance between centers): 4.84 in. (123mm) H x 3.62 in. (92mm) W x 13/32 inc. (10mm) Dia.
- Rack Mount for 19 in. Rack: 3U x 1/4 rack W x 10.04 in. (255mm) D

Micro2 Oxygen Percentage Monitor

Description

The Micro2 is a miniature hand held battery operated portable oxygen monitor.

It measure oxygen concentration using a long life electro-chemical sensor, which is remote to the display.

Oxygen concentration is displayed on a high contrast LCD display with a resolution of 0.1% oxygen.

The Micro2 is simple to use and will power down automatically to increase battery life, with a battery condition indicator indicating when the battery needs replacing.



Possible Applications

Checking of pre-mixed gases in diving and other critical applications.

Inert gas purge checking in welding applications.

Spot checks of ambient oxygen concentrations in areas where oxygen deficiency or enrichment are likely.

Checking the operation of oxygen concentrators and inert gas generators.

Features

Resolution 0.1% oxygen

Accuracy 1%

Fast response temperature compensated sensor.

Simple calibration in air by means of shrouded trim pot located at side of unit,

Alleviating accidental adjustment while still giving the operator access to calibrate

Impact resistant 'pocket sized' case sealed to IP55.

Uses 1 x PP3 9V Alkaline battery (Integral battery compartment)

Low battery Voltage indication

Dimensions

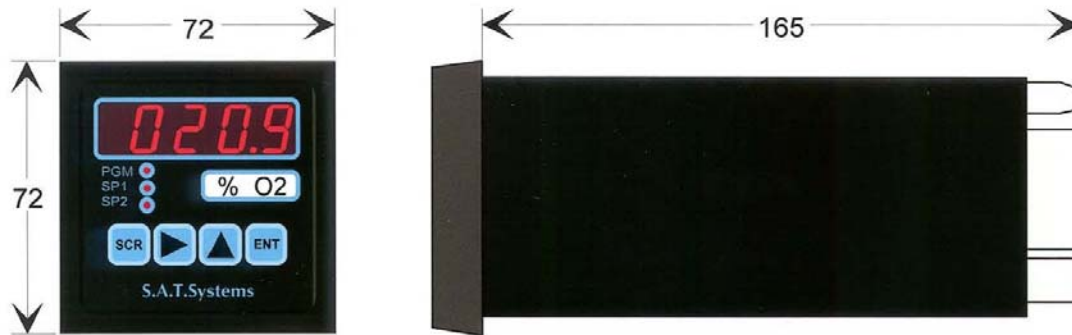
Height = 105 mm

Width = 66 mm

Depth = 38 mm

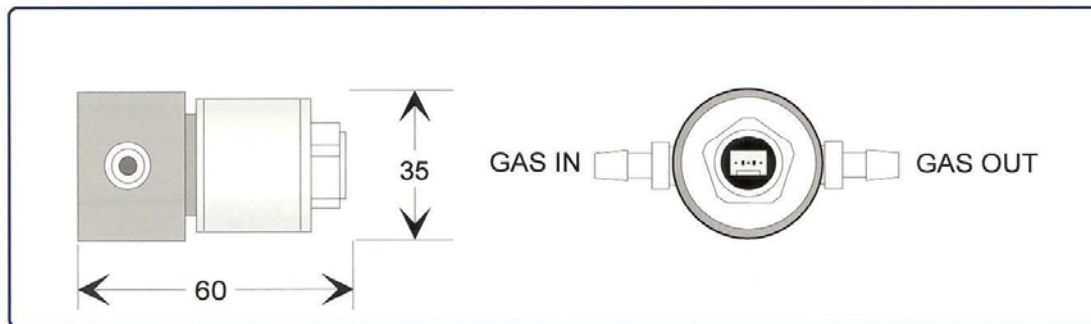
Weight = 228 grams

OEM72 O2 Oxygen Percentage Monitor

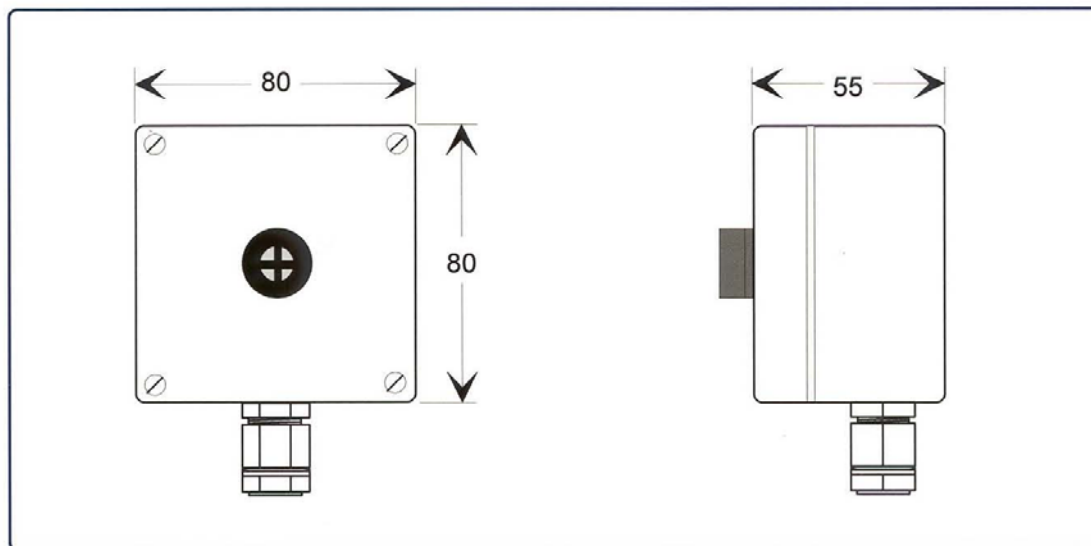


PANEL CUT-OUT : 66 x 66 mm

PANEL MOUNT DISPLAY UNIT



FLOW THROUGH SENSOR OPTION



WALL MOUNTED SENSOR OPTION



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OEM72 O2 Oxygen Percentage Monitor Cont.

The OEM72 O2 Oxygen monitor in modular form that consists of a panel mounted display unit and a separate sensor that can be installed remotely.

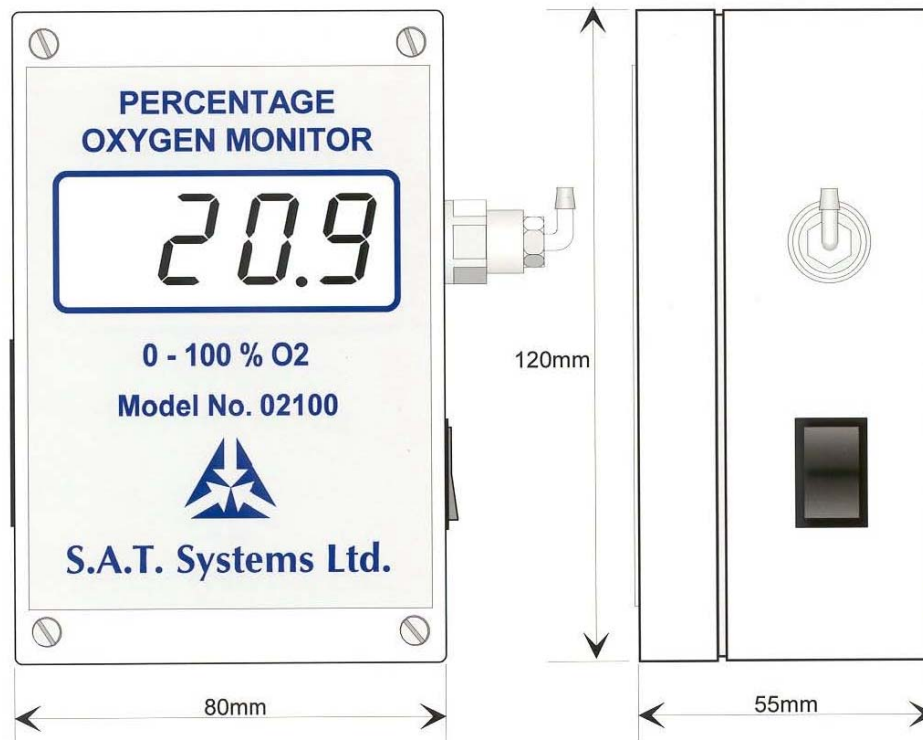
This unit uses a high stability electro-chemical sensor with built in temperature compensation.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

| Specifications | |
|---------------------|-----------------------------|
| Operating Principle | Electro-chemical |
| Ranger | 0 to 100% Oxygen |
| Accuracy | 1% of Full Scale |
| Response Time | 90% in 12 Seconds |
| Sample Flow | 10 to 300 ml/min |
| Housing | Separate display and sensor |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 200 VAC or 24 VDC 6W |

Model O2100 Oxygen Percentage Monitor



Fixing centers: 50 mm x 108 mm

Description

The model O2100 is a battery powered portable Oxygen monitor, used to display the Oxygen fraction in a gas sample.

NATO Stock No. 08686630-99-545-4912

Principle of Operation

Oxygen is detected by an electro-chemical sensor, which produces a millivolt output proportional to Oxygen concentration. The sensor output is scaled and displayed in percent Oxygen.

Features

- High resolution (0.1% O₂) and accuracy 1% of FS
- Integral battery compensation (9v PP3)
- ON/OFF Switch
- Low battery indication
- Impact resistant case
- Zero warm-up time
- Non attitude sensitive
- Long life, fast response, temperature compensated, sensor

Model O2000 R – Rechargeable Oxygen Percentage Monitor

Description

The model “O2000” is a portable oxygen monitor with adjustable high and low alarms.

The unit measures oxygen using a long life electro-chemical sensor.

The sensor output is scaled and displayed on a back-lit LCD display in oxygen percentage with a resolution of 0.1%.

A microcontroller provides simple calibration and alarm settings.

Possible Applications

Checking gas mixes in cylinders.

End of line monitoring in surface supply diving equipment.

Continuous gas sample monitoring.

Ambient monitoring for oxygen deficiency or enrichment.

Features

Resolution 0.1% oxygen

Accuracy 1%

Fast response temperature compensated sensor.

Simple calibration in air.

Sealed to IP65

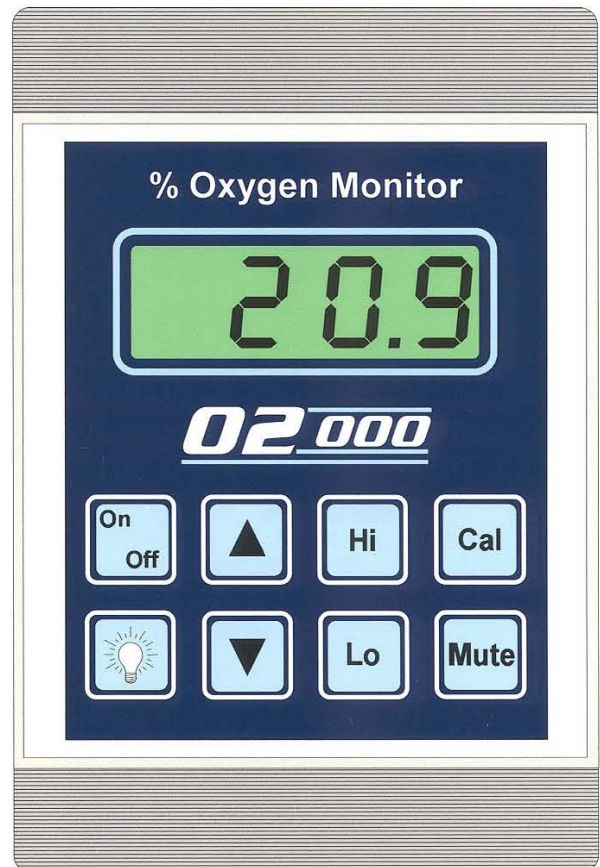
High and low audio/visual alarms with 0.1% setting resolution.

Back-light for use in dark conditions.

Uses NiMH rechargeable batteries with no “memory effect”

Low battery Voltage indication.

Can be used hand held or panel mounted using an optional bezel.



Dimensions

Height = 120 mm

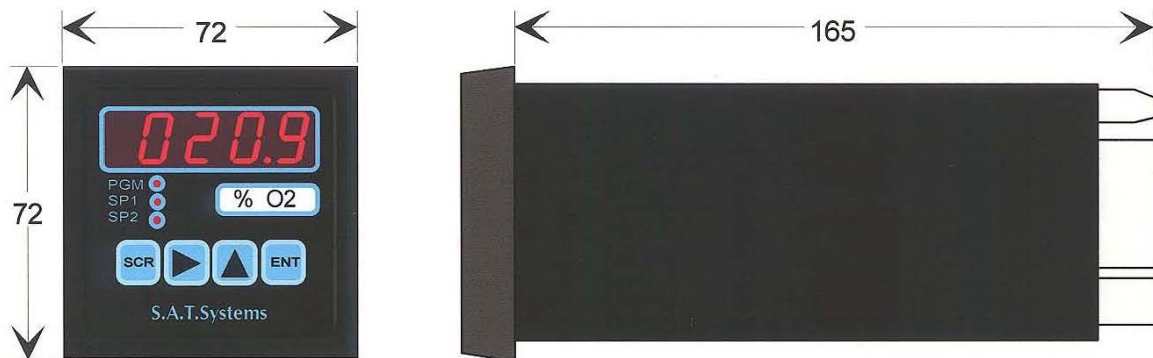
Width = 80 mm

Depth = 80 mm

Weight = 570 grams

OEM72 O2/P – Paramagnetic Oxygen Monitor

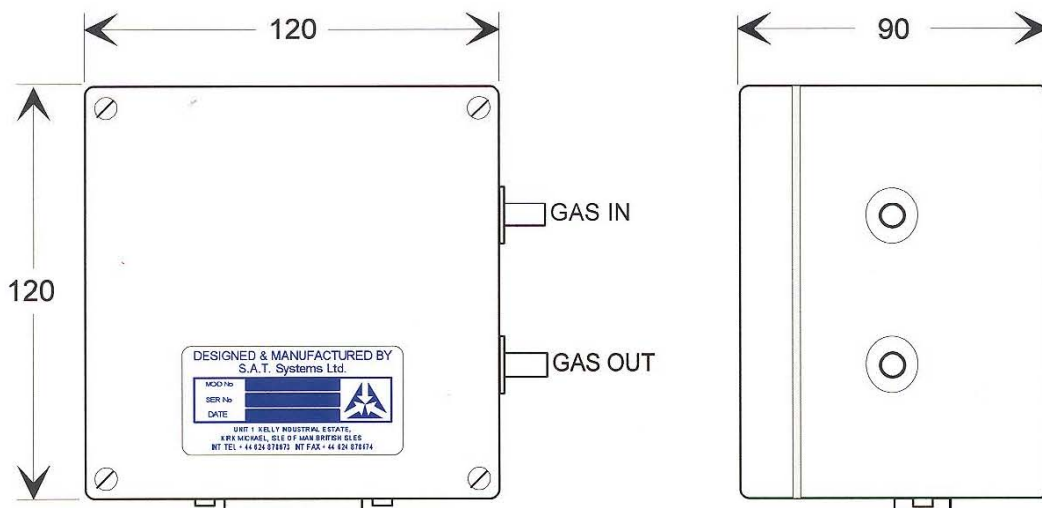
DISPLAY DETAILS



PANEL CUT-OUT : 66 x 66 mm

PANEL MOUNT DISPLAY UNIT

SENSOR DETAILS



PARAMAGNETIC OXYGEN SENSOR



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OEM72 O2/P – Paramagnetic Oxygen Monitor Cont.

The OEM72 O2/P Paramagnetic Oxygen monitor is a cost effective unit in modular form that consists of a panel mounted display unit and a separate sensor that can be installed remotely.

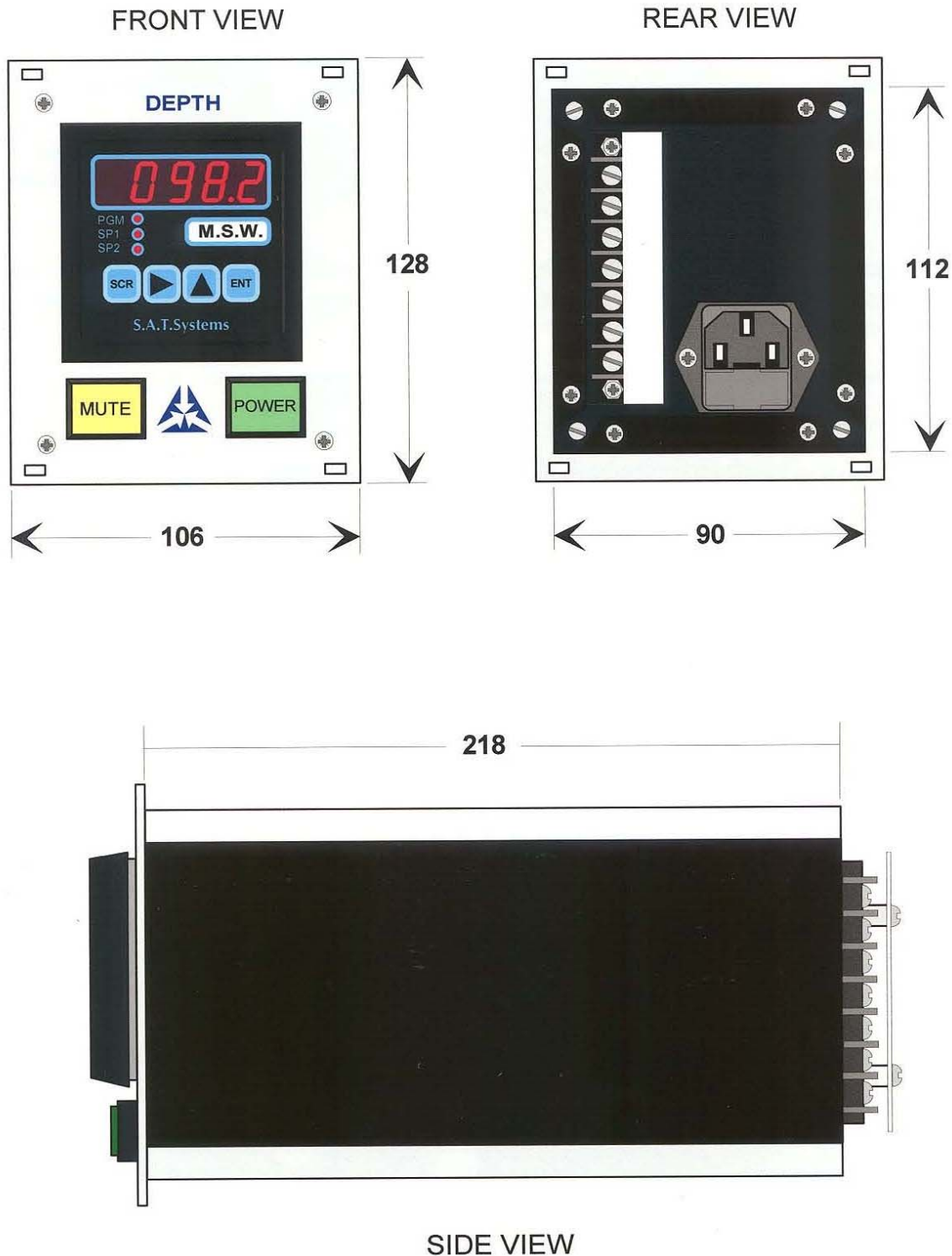
This unit uses a high stability sensor based on the Faraday principle of paramagnetism. This form of sensing provides advantages over conventional “Fuel Cell” sensing as it does not deteriorate over time and therefore periodic sensor replacement is not required.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

| Specifications | |
|---------------------|-----------------------------|
| Operating Principle | Paramagnetic principle |
| Range | 0 to 100% Oxygen |
| Accuracy | 0.2% of Full Scale |
| Response Time | 0.5 sec at 90 ml/min flow |
| Sample Flow | 50 to 100 ml/min |
| Housing | Separate display and sensor |
| Relay Output | 8 Amp change-over relay |
| Options | Analogue/Serial output |
| Warranty | 12 Months |
| Power Requirements | 110, 220 VAC or 24 VDC 6W |

DPM72 P – Pressure Monitor





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DPM72 P – Pressure Monitor Cont.

The DPM72 P pressure monitor consists of a display unit and a separate pressure transmitter that is fitted into the pressure circuit to be measured. The display is housed in a custom 3u x 1/4 rack width case, that can also be panel mounted.

Various types of pressure sensors can be supplied, to suit diverse applications.

The display has high and low set points with audio visual alarms and a mute circuit. The high set point function is ideal for use as an over pressure alarm, while the low alarm functions as a sensor fault indicator.

Calibration entered from the front panel, can be hardware locked to prevent accidental changes. All the calibration and alarm parameters are retained in non volatile memory.

SENSOR SPECIFICATIONS

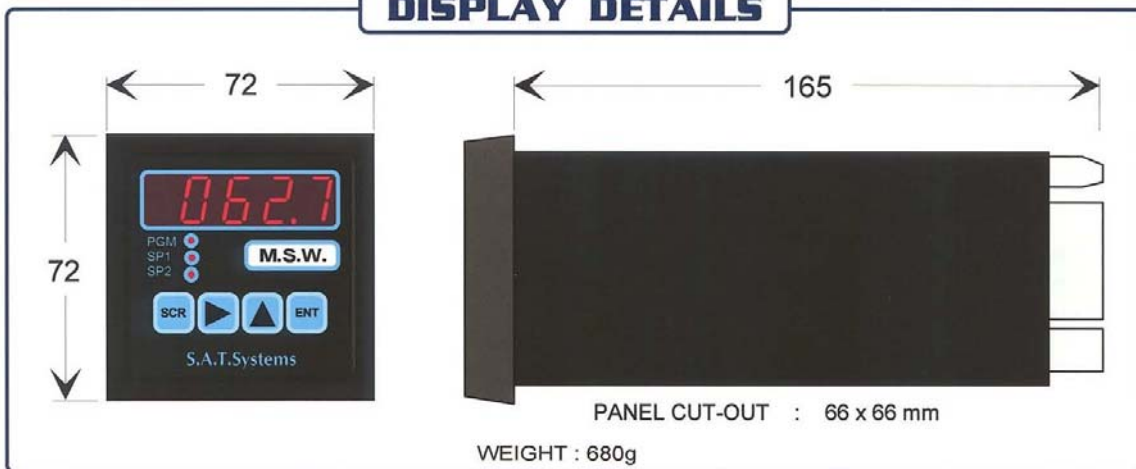
| | |
|---------------------|---|
| Operating Principle | Isolated Silicon Diaphragm Pressure transmitter |
| Range | To suit application |
| Accuracy | Depends on the transducer used typically 0.3% of FS or 0.1% of FS |
| Options | Submersible; Differential; Ex |
| Power Requirements | Powered from display |

SENSOR SPECIFICATIONS

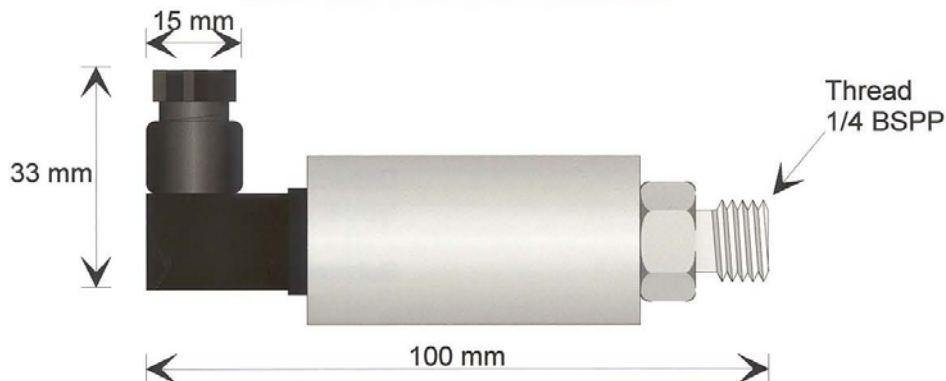
| | |
|-----------------------|---|
| Housing | 3U X 42HP (1/2 Rack) IP54 when housed in cabinet |
| Relay Output | 8 Amp change-over relay |
| Operating Temp. Range | 0 to 45°C |
| Options | Analogue/Serial output |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |

OEM72 P – Pressure Monitor

DISPLAY DETAILS



SENSOR DETAILS



| | | |
|---------------------|---|---|
| OPERATING PRINCIPLE | : | Isolated Silicon Diaphragm Pressure transmitter. |
| RANGE | : | To suit application |
| ACCURACY | : | Dependant on Transducer used Typically 0.3% of FS or 0.1% of FS |
| OPTIONS | : | Submersible; Differential; Ex |
| WARRANTY | : | 12 Months |
| POWER REQUIREMENTS | : | Powered from Display |



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OEM72 P – Pressure Monitor Cont.

The OEM72 P pressure monitor consists of a display unit and a separate pressure transmitter that is fitted into the pressure circuit to be measured. The display is panel mounted through a 66 mm square cut-out.

Various types of pressure sensors can be supplied, to suit diverse applications.

The display has high and low set points with audio visual alarms and a mute circuit. The high set point function is ideal for use as an over pressure alarm, while the low alarm functions as a sensor fault indicator.

Calibration entered from the front panel, can be hardware locked to prevent accidental changes. All the calibration and alarm parameters are retained in non volatile memory.

Sensor Specifications

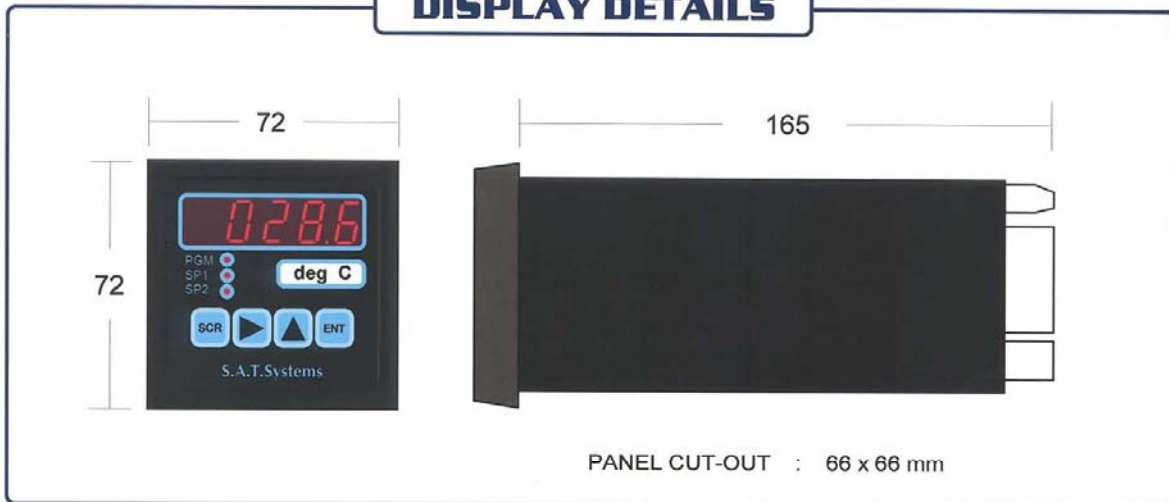
| | |
|---------------------|--|
| Operating Principle | Isolated Silicon Diaphragm Pressure transmitter (example) |
| Range | To suit application |
| Accuracy | Depends on the transducer used Typically 0.3% of FS or 0.1% of FS |
| Options | Submersible; Differential; Ex |
| Power Requirements | Powered from display |

Display Specifications

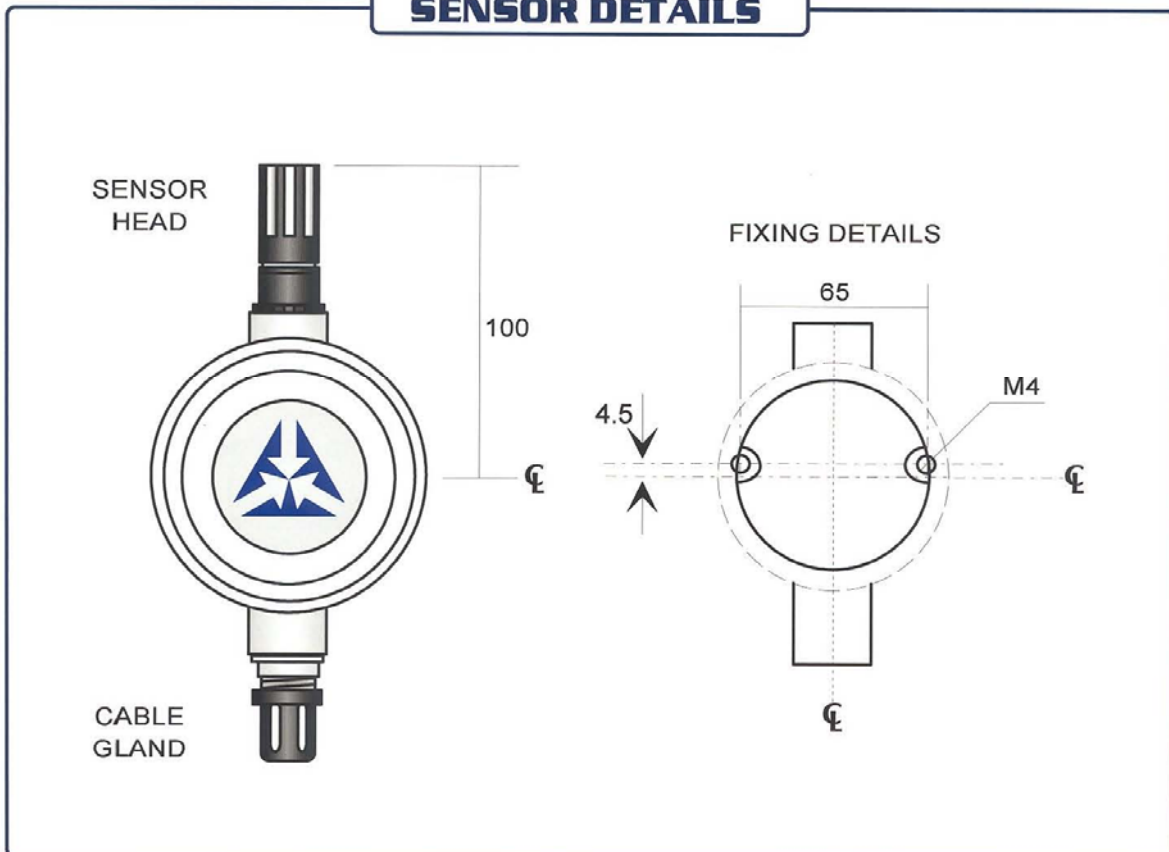
| | |
|-----------------------------|---------------------------------|
| Housing | 72 mm. DIN case |
| Relay Output | 8 Amp change-over relay |
| Operating Temperature Range | 0 to 45°C |
| Options | Analogue/Serial output |
| Power Requirements | 110, 220 VAC or 12 & 24 VDC 6 W |
| Warranty | 12 Months |

OEM72 T – Temperature Monitor

DISPLAY DETAILS



SENSOR DETAILS





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OEM72 T – Temperature Monitor Cont.

The OEM72 T, Temperature monitor is a modular unit with separate sensor and display unit.

Temperature is measured using a high stability Molybdenum sensing element. The sensor unit can also be used as a combined temperature and humidity sensor.

The display module has a high and low, user programmable, set points with audio visual alarms and mute circuit.

Day to day calibration can be carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

Specifications

| <u>TEMPERATURE</u> | |
|-----------------------------|-------------------------------|
| Operating Principle | Molybdenum resistance element |
| Range | 0 to 50°C |
| Accuracy | 0.1°C |
| <u>DISPLAY UNIT</u> | |
| Housing | Separate display & sensor |
| Relay Output | 8 Amp change-over relay |
| Operating Temperature Range | 0 to 45°C |
| Options | Analogue/Serial output |
| Power Requirements | 110, 220 VAC or 24 VDC 6 W |
| Warranty | 12 Months |

Caisson Gauges Series 2564



Important Features for Diving Industry

A gauge having the pressure element enclosed within a sealed chamber providing a fixed reference so that the gauge indicates pressure relative to this reference pressure datum.

The “Caisson” application is where the gauge is exposed to water pressure with the gauge being in the ambient caisson atmosphere. The gauge reading will then always be relative to the datum pressure.

The 3D Caisson Gauge employs an exclusive magnetic coupling. This magnetic coupling permits the pressure element to drive the pointer through the sealed chamber wall, without shaft seals. This coupling is “direct” in the sense that the drive is positive within the accuracy tolerance of the gauge. By employing this unique magnetic coupling the capsule can be sealed hermetically without adding friction error.

High Accuracy With Stability

Accuracy of ¼ of 1% is certified for all Model 2564 for both increasing and decreasing pressures.

The 3D Caisson Gauge is available in the following models for the Diving Industry:

Dial Size – 6, 8.5 and 12 inches

Connection Locations – at back or at bottom

These ranges are also available in feet of seawater only, meters of seawater only, or dual scale ranges meters of seawater/feet of seawater.

| Dual Scale Ranges | Minor Graduations |
|--------------------------------|-------------------|
| 100 psi/230 feet of seawater | 5 psi and 1 foot |
| 150 psi/350 feet of seawater | 5 psi and 2 feet |
| 200 psi/450 feet of seawater | 2 psi and 2 feet |
| 300 psi/700 feet of seawater | 1 psi and 2 feet |
| 500 psi/1100 feet of seawater | 2 psi and 2 feet |
| 600 psi/1400 feet of seawater | 2 psi and 4 feet |
| 750 psi/1700 feet of seawater | 2 psi and 4 feet |
| 1000 psi/2300 feet of seawater | 5 psi and 10 feet |

Chamber Gauges

Heavy Duty, Brass Internal Gauges

2 1/2" Model- 20B (20BV) 1/4"NPT (BV=VibraGauge® option)
4" Models-40B (40BV) 1/4"NPT & **41B (41BV)** 1/2"NPT
6" Models-60B (60BV) 1/4"NPT & **61B (61BV)** 1/2"NPT



Dry, Liquid Fillable or Pre-Filled. VibraGauge® Option also available
 VibraGauge® for Dampening of vibration & pulsation without liquid filling.

Case Relief Grommet.
 White Aluminium Dial, Black Figures.
 Black Aluminium Pointer (Adjustable on 4" & 6").
 Brass / Bronze Wetted Parts.
AISI 316 Stainless Steel Case & Bayonet Ring (standard).
 Orifice Restrictor Screw (removable).

ACCURACY

+/- 1/2% Full Scale (ASME B40.1 Grade 2A) on 4" & 6".
 +/- 1% Full Scale (ASME B40.1 Grade 1A) on 2.1/2".

LENS

Laminated Safety Glass, removable / replaceable - 4mm (0.16") thick.

MOUNTING TYPES & CASE TYPES

No Code: Bottom Connection (standard).
LB: Lower-Back Connection.
FP: Front Flange for Panel Mounting.
C: C-Clamp Fixing for Panel Mounting.
R: Rear Flange for Wall Mounting.



Model Shown: 41B-6K
 To order other models
 by part no. See Below.

PRESSURE RANGE CODES

| Range Code | Range (psi) | Range Code | Range (psi) |
|------------|---------------|------------|-------------|
| V30 | 30"HG-0Vacuum | 300 | 0-300 |
| R315 | Receiver 3-15 | 400 | 0-400 |
| C15 | 30"HG-0-15 | 600 | 0-600 |
| C30 | 30"HG-0-30 | 800 | 0-800 |
| C60 | 30"HG-0-60 | 1K | 0-1,000 |
| C100 | 30"HG-0-100 | 1500 | 0-1,500 |
| C160 | 30"HG-0-160 | 2K | 0-2,000 |
| C200 | 30"HG-0-200 | 3K | 0-3,000 |
| C300 | 30"HG-0-300 | 4K | 0-4,000 |
| 15 | 0-15 | 5K | 0-5,000 |
| 30 | 0-30 | 6K | 0-6,000 |
| 60 | 0-60 | | |
| 100 | 0-100 | | |
| 160 | 0-160 | | |
| 200 | 0-200 | | |

SPECIAL ADDER CODES

psi / Bar scale = -B
 psi / kPa scale = -K
 psi / KG CM² = KGCM2

HOW TO ORDER BY PART NO.

- 1 Model number selected. (VibraGauge® option: add V to model).
- 2 Choose **Pressure Range** (code).
- 3 Choose **Mounting Type** (code).
- 4 If Special Adder Codes are needed add code or (description).
- 5 Liquid Filling, if desired **Gf=Glycerin**, **SF=Silicone**, **FF=Fluorolube**.

FOR EXAMPLE (AS SHOWN) 41B-6K

4inch Fillable Stainless Steel Case / Brass wetted.
 1/2inch NPT.
 Bottom Connection.
 0-6,000 psi.

| 1-Model | 2-Range Code | 3-Mounting Type | 4-Special Adder Codes | 5-Filling |
|---------|--------------|-----------------|-----------------------|-----------|
| 41B | 6K | None | None | None |

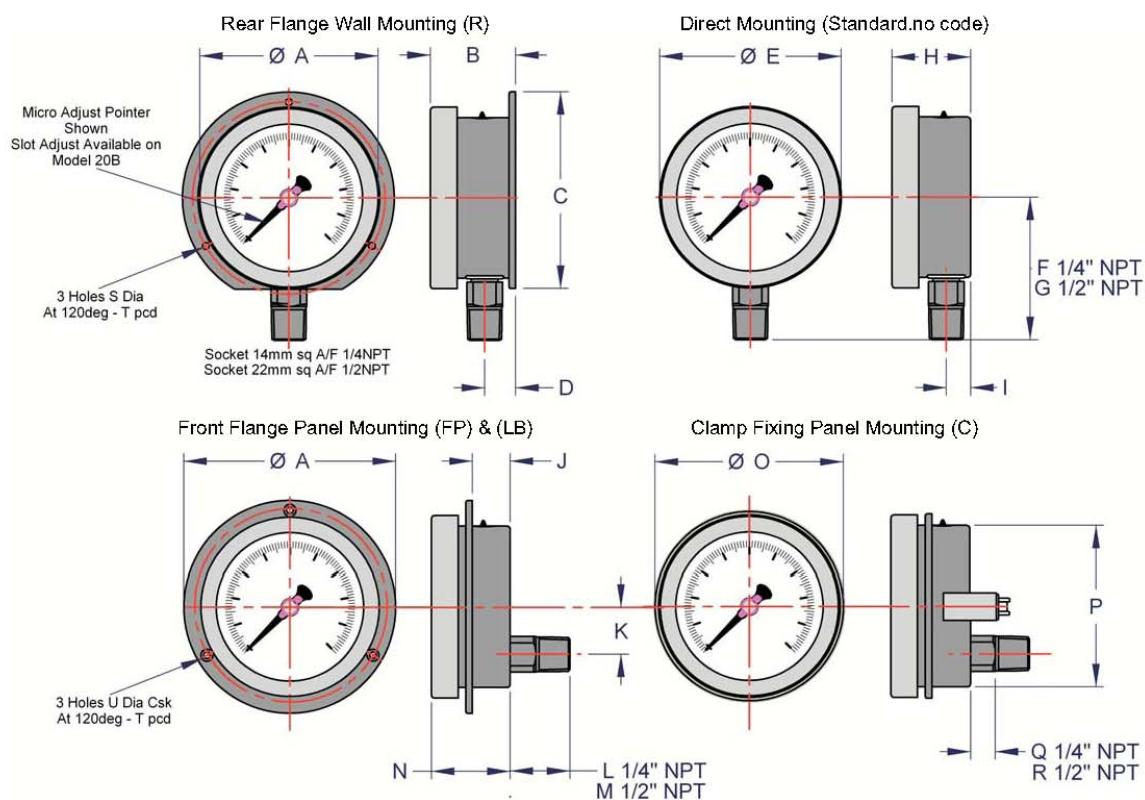
Chamber Gauges Cont.

Heavy Duty, Brass Internal Gauges

2 1/2" Model- 20B (20BV) 1/4"NPT (BV=VibraGauge® option)

4" Models- 40B (40BV) 1/4"NPT & 41B (41BV) 1/2"NPT (Non-Fillable Case = **44B & *44BV or **45B & **45BV)

6" Models- 60B (60BV) 1/4"NPT & 61B (61BV) 1/2"NPT (Non-Fillable Case = **62B & *62BV or **63B & **63BV)



| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | Cut Out |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|
| (20B) 63mm 2.5in | 85 | 39 | 78.5 | 11.5 | 68.5 | 58 | - | 31 | 9.5 | 21.5 | 18 | 29 | - | 37 | 67 | 62 | 13 | - | 3.8 | 75 | 3.5 | 66 |
| | 3.35 | 1.54 | 3.09 | 0.45 | 2.70 | 2.28 | - | 1.22 | 0.37 | 0.85 | 0.71 | 1.14 | - | 1.46 | 2.64 | 2.44 | 0.51 | - | 0.15 | 2.95 | 0.14 | 2.60 |
| (40B / 41B) 100mm 4in | 132 | 51 | 121 | 17.5 | 112 | 83 | 88 | 48.5 | 15 | 24.5 | 32 | 34 | 39 | 48.5 | 110 | 99 | 18 | 18 | 6 | 118 | 6 | 106 |
| | 5.2 | 1.99 | 4.76 | 0.69 | 4.41 | 3.27 | 3.46 | 1.91 | 0.59 | 0.96 | 1.26 | 1.34 | 1.54 | 1.91 | 4.33 | 3.90 | 0.71 | 0.71 | 0.24 | 4.65 | 0.24 | 4.17 |
| (60B / 61B) 160mm 6in | 196 | 51 | 184 | 17.5 | 162 | 109 | 114 | 48.5 | 15 | 24.5 | 32 | 34 | 39 | 48.5 | 172 | 148 | 18 | 18 | 5.8 | 178 | 5.8 | 153 |
| | 7.72 | 1.99 | 7.84 | 0.69 | 6.38 | 4.29 | 4.49 | 1.91 | 0.59 | 0.96 | 1.26 | 1.34 | 1.54 | 1.91 | 6.77 | 5.83 | 0.71 | 0.71 | 0.23 | 7.01 | 0.23 | 6.02 |

M300 Digital Pressure Gauge



Battery Powered Digital Gauge Offers Full 4 Digit Display

Description

The all stainless steel sensor is vibration and shock resistant and, unlike mechanical gauges, is immune to the effects of pulsating pressures. Available options include peak hi or peak lo, 4/20 mA wire, 0-2 vdc, 1-5 vdc and RS232 outputs.

Applications

Portable test gauge (\pm accuracy available). Process control combined w/ local indication. Highly cyclic pressures where mechanical gauges are failing. Burt test (w/ peak-hold option). Corrosive chemicals (w/ available 316 SS wetted parts).

Features

- * Self-Powered by Standard 9 Volt Battery
- * Large, Full 4 Digit Display w/ 1/2" Characters
- * Microprocessor-Based Circuit has "Tare" Capability Standard
- * Direct Reading to 10,000 psi (9,999)
- * On/Off Switch w/ Optional Auto-Off Circuit
- * Peak-Hold and Analog Outputs Available
- * $\pm 0.25\%$ of Full Scale Accuracy
- * $\pm 0.1\%$ Option Available

Options

- * Metric Units Available at Standard Price
- * Rear-Facing Pressure Connection
- * Peak-Hold or Valley-Hold
- * Analog Output (0-2 VDC Output)
- * Zero Adjust Knob
- * 4-20 mA Output (Loop Powered)
- * 1-5 VDC Output (External Power)

Part No: DGAU-S0020

Specifications:

Performance Standard Pressure Ranges: 0-20 to 10,000 psi

Overpressure: 2 x full scale w/o damage

Burst Pressure: 10 x Full Scale or 20,000 psig whichever is less

Pressure Cavity Volume: 0.065"

Accuracy (linearity, hysteresis, and repeatability): $\pm 0.25\%$ F.S./°F

Compensated Temperature Range Thermal Zero Shift: $\pm 0.02\%$ F.S./°F

Thermal Sensitivity Shift: $\pm 0.02\%$ F.S./°F

Resolution (Transducer): Infinite

Resolution (Display): 1 part in 10,000

Life: 10 million cycles minimum

Electrical Batteries Standard 9 Volt (1) Life: 1500 hours

Display: 4 digit LCD, 1/2" Digits

Auto-Off: Factory settable to 2, 4, 8, 16, or 32 minutes

Environmental Storage Temperature: -40° to +160°F

Operating Range: 0°F to +160°F

Physical Construction Materials Case: Injection Moulded Valox

Wetted Materials: 15-5 or 17.4 PH

Stainless Steel 316 SS available at no extra charge

M300 Digital Pressure Gauge Instructions

1) Zero Trimming

- Remove the nylon screws to access adjustments. (NOTE: Some units are quipped w/ zero “knob”)
- If it becomes necessary to re-adjust “zero” on the display, this can be accomplished by turning the trimpot marked “Z” just to the left of the On/Off push button. An ideal zero is indicated by a reading of 000 w/ and intermittently flashing “-“ sign.
- A jewelers screwdriver or an eyeglass repair screwdriver is a suitable instrument. Be careful **NOT** to touch the “S” pot to the right of the push button as changing this adjustment will invalidate the factory calibration.

2) Use of Auto-Tarf Feature

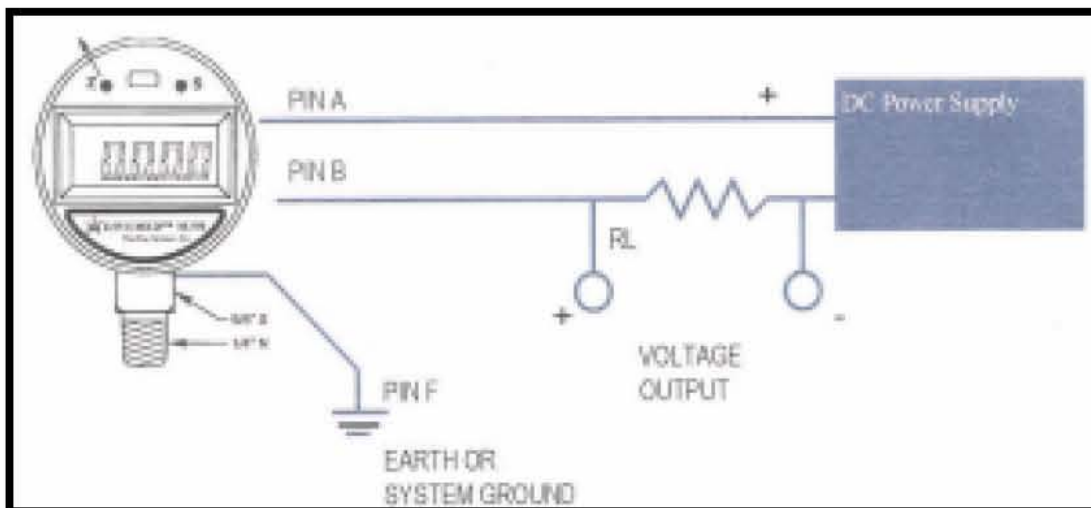
- When the PG5000 is first turned on you will notice that the display flashes for the first 4 seconds. If the On/Off button is pushed and held during this period, any existing reading will be re-set to zero. This allows the user to “Tare-Out” a start weight in hydraulic weighing applications. To remove the Tare feature, turn the unit off and back on again and do not push the On/off button during the flashing period.
- The batteries can be replaced simply by removing the single screw at the top of the battery door. Slide the old batteries out and replace w/ 2 Duracell DL2450 or Sanyo CR2450 batteries or equivalent observing the polarity signs. Replace the battery door and secure w/ self-tapping screw (Do not overtighten).

3) Battery Replacement (9 Volt Type)

- The batteries can be replaced simply by removing the single screw at the top of the battery door. Remove the old battery, unplug the cable connector and replace w/ Eveready type 216 or equivalent. Replace the battery door and secure w/ the self tapping screw (Do not overtighten).
- (NOTE: For best accuracy, re-calibration per 4) should be performed at the time batteries are replaced.

4) Re-Calibration

- This procedure requires a known pressure source of at least $\pm 0.1\%$ accuracy in order to fully utilize the accuracy potential of the PG5000. (If not available, gauge can be returned for re-calibration).



PROCEDURE:

- With 0 psig applied (port vented) adjust zero as per instructions in #1
- Apply full scale pressure to the pressure port and adjust the span (“S”) pot until display reads the correct pressure
- Re-check zero and re-adjust the zero “Z” pot if required
- Repeat steps B) and C) until no further adjustment is needed



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M300 Digital Pressure Gauge Instructions Cont.

5) Use of Peak-Hold Feature (Original)

- After initially turning the gauge on (wait until the display stops flashing), a second push of the On/Off button energizes the peak-hold feature and causes an arrow to appear in the display. In this mode, only the highest reading will be shown (until a higher reading comes along). This “peak” reading will be retained until the unit is reset by turning it off with a third push of the button. The sequence can then be re-initiated; one push for on in normal mode, two pushes for “peak-hold” mode and a third push for Off/Reset.

6) Analog Output Option (0 to 2 VDC)

- The 0 to 2 VDC Analog output is accessed through a 6 pin circular connector on the back of the unit (mating plug supplied). Pin B of the plug is “+” and Pin C is “-”. To minimize effect on battery life, the output should not be loaded w/ less than 100,000 ohms.

7) 4/20mA Transmitter Option

- When equipped w/ this option the gauge no longer operates from batteries but instead is “Loop Powered”. The loop connection is made to a 6 pin receptacle located at the rear of the unit (a mating plug is supplied). A voltage of between 9 and 32 VDC must be maintained at this connection (Pin A “+” and Pin B is 11-11) to insure proper operation (see sketch on previous page). Completion of the earth or system ground (Pin E) is recommended for proper circuit protection.

- Power supply voltage must be sufficient to maintain a minimum of 9 VDC at the gauge terminals after “dropping” voltage across RL at full scale current (20mA). Example if RL=250 ohm, then “drop” is 0.02 Amps x 250 ohm = 5 volts. Therefore power supply minimum is 5V + 9V = 14V

- RE-CALIBRATION: Procedure is the same as in 4) except that there are 2 sets of zeros and span adjustments. The front panel control affects the display and the rear controls (remove “battery” door) affect the 4/20 mA signal.

8) External Power (24 VDC) and 0 to 5 VDC Analog Output Option

- Both the 24*VDC input power and the 0 to 5 VDC Analog Output are connected to the 6 pin circular connector on the rear of the unit. Pin connections are as follows: **24 VDC External Power and 0-5 V Analog Output**

9) External Power Options

- Connection is made to a small circular connector w/ a recessed male center pin. This pin is “+” and the shell is “-”. The required voltage level will be marked when not supplied w/ a power supply. The mating plug will also be supplied when needed.

| | | | |
|-------|---------------------|-------|---------------------|
| PIN A | (+) 24 VDC Power In | PIN D | (-) 24 VDC Power In |
| PIN B | (+) Analog Output | PIN E | No Connection |
| PIN C | (-) Analog Output | PIN F | Case Ground |

NOTE: * Actual range of input voltage is 12 to 31 VDC.

Model 2554 – ¼% . Model 2555 – ½% Feet of Sea Water / Meter Sea Water Dials



Features:

- Helically wound bourdon tube in INconel X750
- All wetted parts in 316SS or Inconel
- Precision anti-friction sapphire shaft bearings
- High impact resistant cyclac case
- Needle edged pointer
- Human engineered dial
- Adjustable zero set-point
- One moving part

User Benefits:

- No recalibration required
- Longer field service life
- Greater reading accuracy
- Maintenance free
- Safer operational (UL Listed)*
- Corrosion resistant

Depth and Pneumo Gauges Series 2554 and 2555

3D Diving Gauges have a number of unique features: Consider high accuracy, virtually permanent calibration, long life under adverse conditions, high sensitivity to pressure changes and human engineered dials.

Ordering Information

The modification code is added to the end of the part number. Example 25546-23B11-HBD =

| | |
|------|---|
| 2554 | Dial pressure gauge, ¼ of 1\$ accuracy FS |
| 6 | Size of dial – 8 ½" |
| -23 | 100 PSI (relative) |
| B | ¼" NPT – male fitting |
| 11 | Front flange, bottom conn., black case |
| -HBD | Dial face, dual scale 100 PSI x 230 FSW |

(Note: On dual scale dials, PSI reading is inside, FSW is outside.)

* Dash number related to relative PSI coil used in gauge.

SIX YEAR **Warranty**

On the Direct Drive Difference

3D Instruments Inc. warrants to the original purchaser of any 3D Instruments Direct Drive pressure gauge that it will be free from defects in materials and workmanship for a period of six (6) years from the date of delivery to the purchaser. A copy of the full text of the 3D Instruments six year limited warranty is available by pressing here.

Model 2554 – ¼% . Model 2555 – ½% Cont. Feet of Sea Water / Meter Sea Water Dials

0.25% and 0.50% of Span Accuracy Gauge Ordering Instructions

Part Number Sample: 2 5 4 4 – 2 3 B 1 1 XXXX
Consult Section: ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Type of Gauge

| P/N Code | Type of Gauge | Comments |
|----------|--------------------------------|--|
| 1 | Compound Vac. & Pressure Gauge | Available from –30" Hg to 0 to 30 PSI up to –30" Hg to 0 to 300 PSI |
| 2 | Vacuum Gauge | Only available in –30" Hg to 0 (and equiv. scales). Dial arc is 135°. Use range code 21 in section 4 |
| 5 | Pressure Gauge | Available in ranges 0 to 30 PSI up to 0 to 20,000 PSI. |
| 6 | Caisson Gauge | Consult Caisson Ordering Instructions |

② Accuracy of Gauge

(All accuracies are based on total span of the selected bourdon tube range. ie: span of 100 PSI pressure gauge is 100, span of compound –30" Hg to 0 to 100 PSI is 115 PSI)

| P/N Code | Accuracy | Comments |
|----------|---------------|---|
| 4 | 0.25% of span | Compound ranges are 0.25% of span accuracy on the pressure side. Vacuum side is 0.5% of span from 0 to –20" Hg, 1.0% of span from 21" to 30" Hg. Vacuum, 15,000 PSI and 20,000 PSI are not available with 0.25% 15,000 PSI range is 0.50% of span upscale accuracy, 1.0% of span downscale. |
| 5 | 0.50% of span | 20,000 PSI range is 1.0% of span upscale accuracy, 2.0% of span downscale. |

③ Size of Gauge

| P/N Code | Accuracy | Comments |
|----------|----------------|---|
| 2 | 2.5" Dial Size | Black ABS Case only available Front Flange. Also available in Stainless Steel with or without Flanges |
| 4 | 4.5" Dial Size | Black, Yellow, Red or Green ABS Plastic Cases, Black Nylon for Skydrol or Stainless Steel Case |
| 5 | 6" Dial Size | Black, Yellow, Red or Green ABS Plastic Cases, Black or Purple Nylon Cases for Skydrol |
| 6 | 8.5" Dial Size | Black, Yellow, Red or Green ABS Plastic Cases |
| 7 | 12" Dial Size | Black, Yellow, Red or Green ABS Plastic Cases |

④ Pressure Range

| P/N Code | Standard Pressure Range | "ISO" Mod Code Use "ISO" for Dual PSI / Metric | "ISK" Mod Code Use "ISK" for Dual PSI / Metric | "ISB" Mod code Use "ISB" for Dual PSI / Metric |
|----------------------|---|---|--|---|
| -21 Vacuum | -30" Hg to 0 Vacuum | -100 to 0 kPa | -1 to 0 Kg/cm ² (use "CMP" Mod Code for –760 to 0 mmHg) | -1 to 0 BAR |
| -21 (Compound) | 0 to 30 PSI (-30" Hg to 0 to 15 PSI) | 0 to 200 kPa (-100 to 0 to 100 kPa) | 0 to 2 Kg/cm ² (-760 mmHg to 0 to 1 Kg/cm ²) | 0 to 2 BAR (-1 BAR to 0 to 1 BAR) |
| -48 Compound Only | -30" Hg to 0 to 30 PSI | -100 to 0 to 200 kPa | -760 mmHg to 0 to 2 Kg/cm ² | -1 to 0 to 2 BAR |
| -22 (Compound) | 0 to 60 PSI (-30" Hg to 0 to 60 PSI) | 0 to 400 kPa (-100 to 0 to 400 kPa) | 0 to 4 Kg/cm ² (-760 mmHg to 0 to 4 Kg/cm ²) | 0 to 4 BAR (-1 to 0 to 4 BAR) |
| -23 (Compound) | 0 to 100 PSI (-30" Hg to 0 to 100 PSI) | 0 to 700 kPa (-100 to 0 to 700 kPa) | 0 to 7 Kg/cm ² (-760 mmHg to 0 to 7 Kg/cm ²) | 0 to 7 BAR (-1 to 0 to 7 BAR) |
| -24 (Compound) | 0 to 150 PSI (-30" Hg to 0 to 150 PSI) | 0 to 1000 kPa (-100 to 0 to 1000 kPa) | 0 to 10 Kg/cm ² (-760 mmHg to 0 to 10 Kg/cm ²) | 0 to 10 BAR (-1 to 0 to 10 BAR) |
| -46 | 0 to 160 PSI | | | |
| -25 (Compound) | 0 to 200 PSI (-30" Hg to 0 to 200 PSI) | 0 to 1,400 kPa (-100 to 0 to 1,400 kPa) | 0 to 14 Kg/cm ² (-760 mmHg to 0 to 14 Kg/cm ²) | 0 to 14 BAR (-1 to 0 to 14 BAR) |
| -26 (Compound) | 0 to 300 PSI (-30" Hg to 0 to 300 PSI) | 0 to 2,000 kPa (-100 to 0 to 2,000 kPa) | 0 to 21 Kg/cm ² (-760 mmHg to 0 to 21 Kg/cm ²) | 0 to 21 BAR (-1 to 0 to 21 BAR) |
| -27 | 0 to 500 PSI | 0 to 3,500 kPa | 0 to 35 Kg/cm ² | 0 to 35 BAR |
| -28 | 0 to 600 PSI | 0 to 4,000 kPa | 0 to 42 Kg/cm ² | 0 to 42 BAR |
| -29 | 0 to 1,000 PSI | 0 to 7,000 kPa | 0 to 70 Kg/cm ² | 0 to 70 BAR |
| -31 | 0 to 1,500 PSI | 0 to 10 MPa | 0 to 100 Kg/cm ² | 0 to 100 BAR |
| -32 | 0 to 2,000 PSI | 0 to 14 MPa | 0 to 140 Kg/cm ² | 0 to 140 BAR |
| -33 | 0 to 3,000 PSI | 0 to 20 MPa | 0 to 210 Kg/cm ² | 0 to 210 BAR |



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Model 2554 – ¼% . Model 2555 – ½% Cont. Feet of Sea Water / Meter Sea Water Dials

Gauge Ordering Instructions (Continued)

④ Pressure Range (Continued)

| P/N Code | Standard Pressure Range | "ISO" Mod Code <small>Use "ISO" for Dual PSI / Metric</small> | "ISK" Mod Code <small>Use "ISK" for Dual PSI / Metric</small> | "ISB" Mod code <small>Use "ISB" for Dual PSI / Metric</small> |
|----------|-------------------------|--|--|--|
| -34 | 0 to 4,000 PSI | 0 to 28 MPa | 0 to 280 Kg/cm ² | 0 to 280 BAR |
| -35 | 0 to 5,000 PSI | 0 to 35 MPa | 0 to 350 Kg/cm ² | 0 to 350 BAR |
| -36 | 0 to 6,000 PSI | 0 to 40 MPa | 0 to 420 Kg/cm ² | 0 to 420 BAR |
| -37 | 0 to 8,000 PSI # | 0 to 56 MPa # | 0 to 560 Kg/cm ² # | 0 to 560 BAR # |
| -38 | 0 to 10,000 PSI # | 0 to 70 MPa # | 0 to 700 Kg/cm ² # | 0 to 700 BAR # |
| -39 | 0 to 15,000 PSI ## | 0 to 100 MPa ## | 0 to 1,000 Kg/cm ² ## | 0 to 1,000 BAR ## |
| -41 | 0 to 20,000 PSI ## | 0 to 140 MPa ## | 0 to 1,400 Kg/cm ² ## | 0 to 1,400 BAR ## |

= High Pressure – Pressure Accuracy 0.25% of Span Upscale, 0.50% of Span Downscale for 2554 Series Only.

= Ultra High Pressure – 15,000 PSI Pressure Accuracy 0.50% of Span Upscale, 1.0% of Span Downscale. Available on 2555 Series Only.
20,000 PSI Pressure Accuracy 1.0% of Span Upscale, 2.0% of Span Downscale. Available on 2555 Series Only.

See Accuracy Section ② for Detailed Accuracy on Vacuum and Compound Ranges.

⑤ Fitting Size

| P/N Code | Fitting Size | Comments |
|----------|----------------------|---|
| B | 1/4" NPT Male Thread | |
| C | 1/2" NPT Male Thread | Not available on 2.5" Dial Size with Stainless Steel Case. Not recommended for ranges above 6000 PSI. |

⑥ Case Style

| P/N Code | Flange / Fitting Location | Comments |
|----------|-----------------------------------|---|
| 1 | Front Flange / Bottom Fitting | For 2.5" ABS Case, Order P/N RS426-1 for Panel Mounting |
| 2 | Front Flange / Lower Back Fitting | For 2.5" ABS Case, Order P/N RS426-1 for Panel Mounting |
| 3 | Back Flange / Bottom Fitting | Not Available on 2.5" ABS |
| 4 | Back Flange / Lower Back Fitting | Not Available on 2.5" ABS |
| 5 | No Flange / Bottom Fitting | Not Available on 2.5" ABS |
| 6 | No Flange / Lower Back Fitting | Not Available on 2.5" ABS |
| 7 | Not Available on Test Gauges | |
| 8 | Not Available on Test Gauges | |

⑦ Case Color

| P/N Code | Case Color and Material | Comments |
|----------|----------------------------------|--|
| 1 | Black ABS Plastic | |
| 2 | Green ABS Plastic | |
| 3 | Red ABS Plastic | |
| 4 | Yellow ABS Plastic | |
| 5 | Electro-Polished Stainless Steel | Only Available on 2.5" and 4.5" Dial Sizes |
| 7 | Purple Nylon | Only Available on 6" Dial Sizes |
| 8 | Black Nylon | Only Available on 4.5" and 6" Dial Sizes |

Model 2554 – ¼% . Model 2555 – ½% Cont.
Feet of Sea Water / Meter Sea Water Dials

| <div>⑧</div> MODIFICATION CODES FOR FEET OF SEA WATER/METER SEA WATER DIALS | | | |
|--|----------------------|----------------------|----------|
| DASH (-) NO. | FEET OF SEA WATER | METER SEA WATER | MOD CODE |
| -21 | 70 FSW/ .2 ft div. | 20 MSW/ .1 mtr. div. | HDW |
| -22 | 140 FSW/ .4 ft div. | 40 MSW/ 2 mtr. div. | HDC |
| -23 | 230 FSW/ 1 ft div. | 70 MSW/ 25 mtr. div. | HDD |
| -24 | 300 FSW/ 1 ft div. | 90 MSW/ 5 mtr. div. | HED |
| -24 | 350 FSW/ 1 ft div. | 100 MSW/ 5 mtr. div. | HDF |
| -25 | 450 FSW/ 2 ft div. | 140 MSW/ 5 mtr. div. | HDG |
| -26 | 700 FSW/ 2 ft div. | 200 MSW/ 1 mtr. div. | HDH |
| -27 | 1200 FSW/ 2 ft div. | 360 MSW/ 1 mtr. div. | HDJ |
| -28 | 1400 FSW/ 4 ft div. | 400 MSW/ 2 mtr. div. | HDK |
| -28 | 1700 FSW/ 2 ft div. | 520 MSW/ 1 mtr. div. | HEB |
| -28 | 1700 FSW/ 4 ft div. | 520 MSW/ 2 mtr. div. | HDL |
| -29 | 2300 FSW/ 10 ft div. | 700 MSW/ 2 mtr. div. | HDM |

| DUAL SCALE PSI AND FEET OF SEA WATER | | | |
|---|-----------------|----------------------|----------|
| DASH (-) NO. | PSI | FEET OF SEA WATER | MOD CODE |
| -22 | 60/.2 PSI div. | 140 FSW/ .4 ft div. | HBC |
| -23 | 100/.5 PSI div. | 230 FSW/ 1 ft div. | HBD |
| -24 | 150/.5 PSI div. | 350 FSW/ 2 ft div. | HBF |
| -25 | 200/.2 PSI div. | 460 FSW/ 1 ft div. | HCC |
| -25 | 200/.2 PSI div. | 450 FSW/ 2 ft div. | HBG |
| -26 | 300/1 PSI div. | 700 FSW/ 2 ft div. | HBH |
| -27 | 500/2 PSI div. | 1100 FSW/ 2 ft div. | HCA |
| -28 | 600/2 PSI div. | 1400 FSW/ 2 ft div. | HCF |
| -28 | 600/2 PSI div. | 1400 FSW/ 4 ft div. | HBK |
| -28 | 750/2 PSI div. | 1700 FSW/ 2 ft div. | HCB |
| -28 | 750/2 PSI div. | 1700 FSW/ 4 ft div. | HBL |
| -29 | 1000/5 PSI div. | 2300 FSW/ 10 ft div. | HBM |
| -31 | 1500/5 PSI div. | 3500 FSW/ 10 ft div. | HCJ |

| FEET OF SEA WATER ONLY | | |
|-------------------------------|-----------------------|----------|
| DASH (-) NO. | FEET OF SEA WATER | MOD CODE |
| -21 | 70 FSW/ 2 ft. div. | CDB |
| -22 | 140 FSW/ .4 ft. div. | CBC |
| -23 | 230 FSW/ 1 ft. div. | CBD |
| -23 | 250 FSW/ 1 ft. div. | CBE |
| -24 | 300 FSW/ 1 ft. div. | CCG |
| -24 | 350 FSW/ 2 ft. div. | CBF |
| -25 | 450 FSW/ 1 ft. div. | CCC |
| -25 | 450 FSW/ 2 ft. div. | CBG |
| -26 | 500 FSW/ 2 ft. div. | CCT |
| -46 | 600 FSW/ 1 ft. div. | CCL |
| -26 | 700 FSW/ 2 ft. div. | CBH |
| -27 | 1100 FSW/ 2 ft. div. | CCA |
| -27 | 1200 FSW/ 2 ft. div. | CBJ |
| -28 | 1400 FSW/ 4 ft. div. | CBK |
| -28 | 1700 FSW/ 2 ft. div. | CCB |
| -28 | 1700 FSW/ 4 ft. div. | CBL |
| -29 | 2300 FSW/ 10 ft. div. | CBM |
| -31 | 3500 FSW/ 10 ft. div. | CCJ |



3D Instruments Gauge Reference Sheet

Part Number:

25 6 5 7 - 28 C 23 - HDL

| Prefix | |
|--------|------------|
| 25 | Dial Gauge |

| Gauge Type | |
|------------|----------|
| 1 | Compound |
| 2 | Vacuum |
| 5 | Pressure |
| 6 | Caisson |

| Accuracy | |
|----------|------|
| 4 | 1/4% |
| 5 | 1/2% |

| Full Scale | |
|---|--|
| For 1/2% accuracy mid-scale Process Gauges, please call | |

| Dial Size | |
|-----------|--------|
| 2 | 2-1/2" |
| 4 | 4-1/2" |
| 5 | 6" |
| 6 | 8-1/2" |
| 7 | 12" |

| Range | | PSI |
|-------|----------|-----|
| 48 | 30-0-30 | |
| 21 | 0-30 | |
| 22 | 0-60 | |
| 23 | 0-100 | |
| 24 | 0-150 | |
| 25 | 0-200 | |
| 26 | 0-300 | |
| 27 | 0-500 | |
| 28 | 0-600 | |
| 29 | 0-1,000 | |
| 31 | 0-1,500 | |
| 32 | 0-2,000 | |
| 33 | 0-3,000 | |
| 34 | 0-4,000 | |
| 35 | 0-5,000 | |
| 36 | 0-6,000 | |
| 37 | 0-8,000 | |
| 38 | 0-10,000 | |
| 39 | 0-15,000 | |
| 41 | 0-20,000 | |

| Connection Size & Type | |
|------------------------|---------|
| B | 1/4 NPT |
| C | 1/2 NPT |

| Flange & Fitting Location Case Color | | | |
|--------------------------------------|-------|--------|-----------------|
| Case Color | Black | Green | Red |
| Flange Front | 11 | 12 | 13 |
| Fitting Bottom | | | |
| Flange Front | 21 | 22 | 23 |
| Fitting Back | | | |
| Flange Back | 31 | 32 | 33 |
| Fitting Bottom | | | |
| Flange Back | 41 | 42 | 43 |
| Fitting Back | | | |
| Flange None | 51 | 52 | 53 |
| Fitting Bottom | | | |
| Flange None | 61 | 62 | 63 |
| Fitting Back | | | |
| | | Yellow | S/S 2, 3 & 4, 5 |
| | | | 15 |
| | | | 25 |
| | | | 35 |
| | | | 45 |
| | | | 55 |
| | | | 65 |

| DUAL SCALE PSI and Feet of Seawater | | | | |
|--|-----------|------|--------|------|
| Mod Code | Range No. | PSI | Div. | FSW |
| HBC | 22 | 60 | .2 PSI | 140 |
| HBD | 23 | 100 | .5 PSI | 230 |
| HBF | 24 | 150 | .5 PSI | 350 |
| HCC | 25 | 200 | 2 PSI | 450 |
| HBG | 25 | 200 | 2 PSI | 450 |
| HBH | 26 | 300 | 1 PSI | 700 |
| HCA | 27 | 500 | 2 PSI | 1100 |
| HCF | 28 | 600 | 2 PSI | 1400 |
| HBK | 28 | 600 | 2 PSI | 1400 |
| HCB | 28 | 750 | 2 PSI | 1700 |
| HBL | 28 | 750 | 2 PSI | 1700 |
| HBM | 29 | 1000 | 5 PSI | 2300 |
| HCJ | 31 | 1500 | 5 PSI | 3500 |

| SINGLE SCALE Feet of Seawater Only | | | | |
|---------------------------------------|-----------|------|--------|--|
| Mod Code | Range No. | FSW | Div. | |
| CDB | 21 | 70 | .2 ft. | |
| CBC | 22 | 140 | .4 ft. | |
| CBD | 23 | 230 | 1 ft. | |
| CBE | 23 | 250 | 1 ft. | |
| CCG | 24 | 300 | 1 ft. | |
| CBF | 24 | 350 | 2 ft. | |
| CCC | 25 | 450 | 1 ft. | |
| CBG | 25 | 450 | 2 ft. | |
| CCL | 26 | 500 | 2 ft. | |
| CBH | 26 | 700 | 2 ft. | |
| CCA | 27 | 1100 | 2 ft. | |
| CBI | 27 | 1200 | 2 ft. | |
| CBK | 28 | 1400 | 4 ft. | |
| CCB | 28 | 1700 | 2 ft. | |
| CBL | 29 | 1700 | 4 ft. | |
| CBM | 29 | 2300 | 10 ft. | |

| DUAL SCALE PSI and Feet of Seawater | | | | |
|--|-----------|------|--------|-----|
| Mod Code | Range No. | FSW | Div. | MSW |
| HDW | 21 | 70 | .2 ft. | 20 |
| HDC | 22 | 140 | .4 ft. | 40 |
| HDD | 23 | 230 | 1 ft. | 70 |
| HED | 24 | 300 | 1 ft. | 90 |
| HDF | 24 | 350 | 1 ft. | 100 |
| HDG | 25 | 450 | 2 ft. | 140 |
| HDH | 26 | 700 | 2 ft. | 200 |
| HDJ | 27 | 1200 | 2 ft. | 360 |
| HDK | 28 | 1400 | 4 ft. | 400 |
| HEB | 28 | 1700 | 2 ft. | 520 |
| HDL | 28 | 1700 | 4 ft. | 520 |
| HDM | 29 | 2300 | 10 ft. | 700 |

Mod Code
Other Scales i.e.,
Pneumo Scales,
See below

Note: Mod Code, if used, must correspond with Gauge Range.
Example: Range 23 (100 psi): Valid Mod Codes are: HBD, CBD, CBE, or HDD

Pneumo Gauge Mod Codes

Example: 25657-28C23-HDL = Caisson Gauge, 1/2% Accuracy, 12" Dial, 1400 FSW & 520 MSW Scale, 1/2 NPT Connection, Front Flange, Back Connection.

Certified Hygrometer and Temperature Indicator

Shows Relative Humidity & Temperature in both Fahrenheit & Centigrade at a glance



The Certified Hygrometer, **HTAB-176**, is certified to be accurate within $\pm 3\%$ RH. The dial indicates the complete range of 0 to 100% relative humidity. Each instrument has been tested at three different positions of the dial at temperatures ranging from 32 to 230 F. The calibration and certification are done under ISO-9001 control. The bi-metallic thermometer on the model HTAB-176 is accurate to 1% of scale w/ a range of -20 to 100 C and 0 to 210 F. Graduations are 1 for Centigrade and 1% RH.

This is the only humidity indicator that we know of that has a 1 year guarantee and a 5-year warranty. Some of our humidity indicators are working on the same principle as this improved instrument has been in use for over 10 years and is giving satisfactory service day after day, month after month, and year after year. Both the humidity and temperature are directly read without any calculations whatsoever. Solid 6" overall brass case drilled for wall mounting.

Shipping weight: 3 lbs.
Color differentiated
5" dial

TAB-77 Chamber Thermometer



Part No. TAB-77

Features:

- 1% accuracy
- Large 5", easy-to-read dial features the temperature in both Fahrenheit and Celsius
- It is often used with the HTAB-170 to make a matching set
- Accuracy: $\pm 1\%$
- Temp Range: -20° to $+120^{\circ}\text{F}$; 0 to 50°C

Hydraulic Return Flow Indicator For Petroleum Fluids

- * Install in any position
- * Rugged Anodized Aluminum
- * Pressures up to 3000 psi
- * Temperatures up to 240°F
- * Accuracy within +/- 4% F.S.
- * Repeatability within +/- 1%
- * Direct Reading
- * Special Scales Available
- * No Electrical Connections
- * Relatively Insensitive to Shock and Vibration
- * Good Viscosity stability
- * One Year Limited Warranty



| Port Size | Flow** Range | Part No. | | Dimensions | | | | | Weight (lbs) |
|------------------------|--------------|----------|---------|------------|-----|--------|-----|--------------|--------------|
| | | | | O.D. | | Length | | Wrench Flats | |
| | | NPTF | SAE | in | mm | in | mm | | |
| ¼” NPTF | .05 - .5 | 201-000 | | 1.4 | 35 | 4.8 | 122 | 1-1/4” | 0.25 |
| | .10 - 1.0 | 201-001 | | | | | | | |
| | .20 - 2.0 | 201-002 | | | | | | | |
| ¼” NPTF | 1 - 7 | 208-007 | | 1.4 | 35 | 4.8 | 122 | 1-1/4” | 0.25 |
| | 3 - 30 | 208-030 | | | | | | | |
| | 6 - 60 | 208-060 | | | | | | | |
| | 12 - 120 | 208-120 | | | | | | | |
| ½” NPTF #10 SAE | 0.1 - 1 | 601-001 | 600-001 | 1.8 | 46 | 6.6 | 167 | 1-5/8” | 0.75 |
| | 0.2 - 2 | 601-002 | 600-002 | | | | | | |
| | 0.5 - 4 | 601-004 | 600-004 | | | | | | |
| | 0.5 - 5 | 601-005 | 600-005 | | | | | | |
| | 1.0 - 10 | 601-010 | 600-010 | | | | | | |
| | 1.0 - 15 | 601-015 | 600-015 | | | | | | |
| ¾” NPTF #12 SAE | .10 - 2 | 701-002 | 700-002 | 2.3 | 58 | 7.2 | 183 | 2” | 1.5 |
| | 0.5 - 5 | 701-005 | 700-005 | | | | | | |
| | 1.0 - 10 | 701-010 | 700-010 | | | | | | |
| | 1.0 - 15 | 701-015 | 700-015 | | | | | | |
| | 1.0 - 20 | 701-020 | 700-020 | | | | | | |
| | 2.0 - 30 | 701-030 | 700-030 | | | | | | |
| 1” NPTF | 0.1 - 2 | 796-501 | | 2.3 | 58 | 7.2 | 183 | 2” | 1.5 |
| | 0.5 - 5 | 796-503 | | | | | | | |
| | 1.0 - 10 | 796-505 | | | | | | | |
| | 1.0 - 15 | 796-507 | | | | | | | |
| | 1.0 - 20 | 796-509 | | | | | | | |
| | 2.0 - 30 | 796-511 | | | | | | | |
| | 4.0 - 40 | 796-513 | | | | | | | |
| 1-1/4” NPTF #20 SAE | 3 - 30 | 801-030 | 800-030 | 4 | 102 | 12.2 | 310 | 2-1/2” | 6.75 |
| | 5 - 50 | 801-050 | 800-050 | | | | | | |
| | 10 - 75 | 801-075 | 800-075 | | | | | | |
| | 10 - 100 | 801-100 | 800-100 | | | | | | |
| | 10 - 150 | 801-150 | 800-150 | | | | | | |
| 1-1/2” NPTF | 3 - 30 | 896-501 | | 4 | 102 | 12.2 | 310 | 2-1/2” | 6.75 |
| | 5 - 50 | 896-503 | | | | | | | |
| | 10 - 75 | 896-505 | | | | | | | |
| | 10 - 100 | 896-507 | | | | | | | |
| | 10 - 150 | 896-509 | | | | | | | |

Note: Yellow highlight indicates most commonly used In-Line Test Kit for diver's hydraulic Tool Package.

In-Line Pneumatic Flow Meter

With Integral Pressure Gauge Option Monitors Air Flow Rates From 1-4 SCFM to 100-1100 SCFM at Various Operating Pressures from 50 PSI to 130 PSI



This test unit is ideal for field / shop testing of a compressor unit. If there is any question a compressor unit is functioning properly, the In-Line Pneumatic Flow Meter will indicate pressure & flow. The compressor unit can be tested and will indicate if there is a problem w/ the output of the compressor. The In-Line Pneumatic Flow Meter is a mandatory tool for field operation for testing c.f.m. / pressure delivery for compressor units.

- * **Combines Flow Meter & Optional Pressure Gauge in One Compact “Easy-to-Use” Unit**
- * **Features New “User Friendly” Multipressure Flow Scale**
- * **Accuracy within +/-4% of F.S.**
- * **Repeatability within +/-1%**
- * **Rugged Anodized Aluminum**
- * **Installs in any Position**
- * **No Electrical Connections**
- * **Special Scales Available**
- * **One Year Limited Warranty**

| Port Size | Flow* Range @ 100 PSI | Part No. | | Dimensions | | | | | Weight (lbs) | |
|-----------|-----------------------|----------------------------|-------------------------|------------|-----|--------|-----|--------------|--------------|----------|
| | | w/ Plugged Gauge Port NPTF | w/ Gauge Installed NPTF | O.D. | | Length | | Wrench Flats | w/ plug | w/ gauge |
| | | | | in | mm | in | mm | | | |
| 1/4" | 1 – 4 SCFM | 277-004 | 279-004 | 1.4 | 35 | 6.3 | 160 | 1-1/4 | 0.5 | 1.2 |
| | 2 – 9 SCFM | 277-009 | 279-009 | | | | | | | |
| | 2 – 18 SCFM | 277-018 | 279-018 | | | | | | | |
| | 4 – 24 SCFM | 277-024 | 279-024 | | | | | | | |
| 1/2" | 2 – 20 SCFM | 677-020 | 679-020 | 1.8 | 46 | 8.0 | 203 | 1-5/8 | 1.0 | 1.75 |
| | 10 – 60 SCFM | 677-060 | 679-060 | | | | | | | |
| | 10 – 110 SCFM | 677-110 | 679-110 | | | | | | | |
| | 20 – 150 SCFM | 677-150 | 679-150 | | | | | | | |
| 3/4" | 4 – 18 SCFM | 777-018 | 779-018 | 2.3 | 58 | 8.8 | 224 | 2 | 1.75 | 2.3 |
| | 5 – 50 SCFM | 777-050 | 779-050 | | | | | | | |
| | 10 – 90 SCFM | 777-090 | 779-090 | | | | | | | |
| | 25 – 150 SCFM | 777-150 | 779-150 | | | | | | | |
| | 25 – 220 SCFM | 777-220 | 779-220 | | | | | | | |
| 1-1/4" | 20 – 250 SCFM | 877-250 | 879-250 | 4.0 | 102 | 12.8 | 325 | 2-1/2 | 7.0 | 7.5 |
| | 25 – 450 SCFM | 877-450 | 879-450 | | | | | | | |
| | 50 – 600 SCFM | 877-600 | 879-600 | | | | | | | |
| | 50 – 800 SCFM | 877-800 | 879-800 | | | | | | | |
| | 100 – 1000 SCFM | 877-100 | 879-100 | | | | | | | |

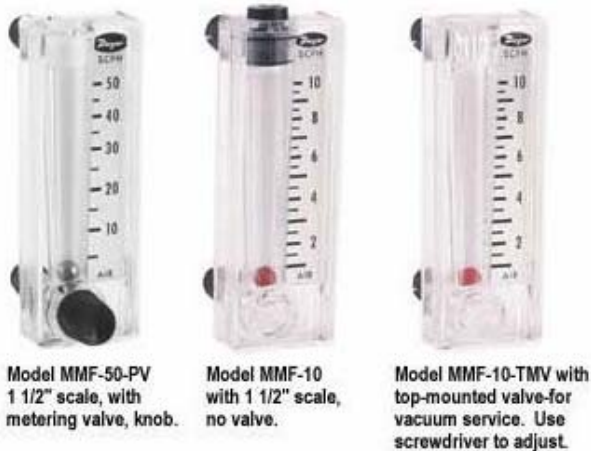
* Indicated Flow Range is nominal, calibrated @ 100 PSIG, at 70°F

Mini-Master Flowmeters



A. Standard Model MMA bottom metering valve.
B. Standard Model MMA no valve.
C. Standard Model MMA top front mounted metering valve.
D. OEM Model MMA. Welded caps on unused valve bosses.

Patent No. 4,559,834



Model MMF-50-PV
1 1/2" scale, with
metering valve, knob.

Model MMF-10
with 1 1/2" scale,
no valve.

Model MMF-10-TMV with
top-mounted valve-for
vacuum service. Use
screwdriver to adjust.

Patent No. 3,633,421

Offering advanced features at low cost, the Series MM flowmeters are ideal for a wide range of OEM and user application in medical equipment, air samplers, gas analyzers, pollution monitors, chemical injectors, cabinet purging, etc.

The standard Model MMA flowmeter is suitable for both gas and liquid applications. It can be configured by the user with the parts provided to have non-removable top or bottom front mounted metering valves or no valve at all. The transparent nylon material provides high chemical resistance, low moisture absorption and is transparent to facilitate routine inspection. Using the assembly key provided, the flowmeter can be disassembled anytime for cleaning or reconfiguration. In OEM quantities, ultrasonically welded caps or interchangeable mole cores enable production of the Mini-Master® A flowmeter with a low profile or flat front surface where no valve is required.

The Mini-Master® A is practically unbreakable, mounts easily, and is easy to read. Two 5/16" O.D. mounting-connection tubes permit quick push-on connection of rubber or plastic tubing. A bottom clip for "stand up" mounting is also provided.

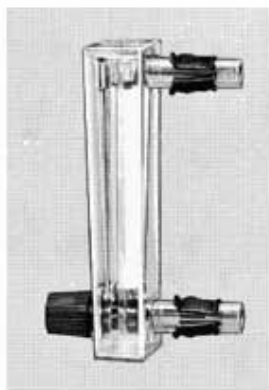
Despite its compactness, the Mini-Master® A flowmeter features a 2" scale which combined with precision molding, enables highly repeatable readings to be made to within $\pm 4\%$ accuracy.

Where a compact flowmeter is required to measure small volume air flows the Model MMF is recommended. Easy to mount, they require a minimum of panel space. A white back on the flow tube makes the ball float easy to see. The scale is highly visible and easy to read. Scale graduations are printed on aluminum alongside the flow tube (not on it), so the position of ball float is instantly visible.

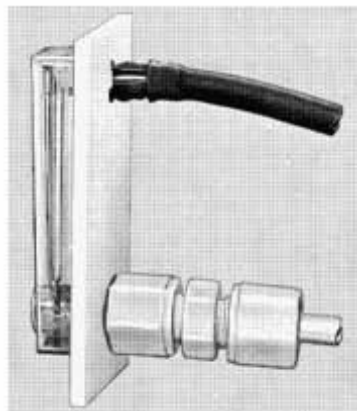
The Model MMF's bezel type mounting is modern, attractive and quickly installed from the front of instrument panel. Two 1/4" O.D. mounting-connection tubes are integrally molded with flowmeter body. They can be back connected to flexible rubber or plastic tubing and held in place with two spring retainers which are furnished. If preferred, connections may be made to metal or rigid plastic tubing with a double compression fitting or nylon tube union such as Part No. A-328.

Excellent repeatability and $\pm 10\%$ accuracy make the Mini-Master® F flowmeter an excellent value at its low cost.

Mini-Master Flowmeters Cont.



Model MMF mounts Easily from front of panel. Drill two 9/32" or 5/16" diameter holes in panel on 2 1/16" centers. Insert mounting connector spuds. From rear, slide on the two spring retainers (Furnished) and push on rubber or plastic tubing.



Model MMF connections. Connector at top, installed in panel, has retainer and flexible tubing in place. Connector at bottom shows alternative connection with metal or rigid plastic tubing, using a double compression nylon tube union (as Part No. A-328)

Model MMA – Molded entirely from nylon 12. Measure and control air/gas flow from .1-200 SCFH, water/liquid flow from 1 to 60 GPH.

| Specifications | |
|---|---|
| Meter Body, Bezel, Tube, Valve and Knob | Nylon 12 |
| Floats | Black glass, K Monel, stainless steel, tungsten carbide |
| Connections | Molded with body. 5/16" O.D. for push-on rubber or plastic tubing with spring tubing clamp provided. Connect to rigid tubing with double compression fitting. |
| Scale | Lithograph printed on aluminum. Clear epoxy coated. |
| Pressure Rating | To 100 PSI (maximum) with compression fitting. To 50 PSI with tubing clamp |
| Temperature | 130°F |
| Scale Length | 2" |
| Accuracy | ±4% of full scale |
| "O" Rings | Buna-N; optional materials available |
| Color | Clear. Knob and assembly key dyed black |



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Mini-Master Flowmeters Cont.

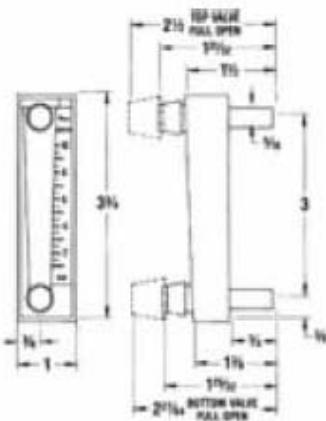
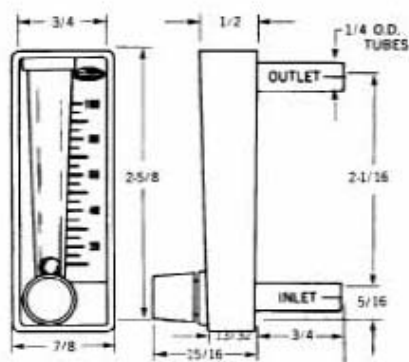
| Series MMA Mini-Master Models and Ranges | | | | | |
|--|-----------------|---------------|-----------------|----------------------|-----------------|
| Range SCFH Air | Ordering Number | Range LPM Air | Ordering Number | Range GPH Water | Ordering Number |
| .5-2.5 | 3 | .2-1.2 | 20 | .5-8 | 30 |
| .5-5 | 4 | .25-2.5 | 21 | 1-16 | 31 |
| 1-10 | 5 | .5-5 | 22 | 4-40 | 32 |
| 2-20 | 6 | 1-10 | 23 | 5-60 | 33 |
| 5-50 | 7 | 2.5-25 | 24 | CC/Min. Water | |
| 10-100 | 8 | 5-50 | 25 | 5-50 | 35 |
| 20-200 | 9 | 10-100 | 26 | 10-120 | 36 |
| 30-300 | 10 | 15-150 | 27 | 20-200 | 37 |
| | | | | 50-500 | 38 |
| | | | | LPM Water | |
| | | | | .1-1.1 | 40 |
| | | | | .25-2.5 | 41 |
| | | | | .3-3.5 | 42 |

Model MMF – Molded entirely from SAN. To indicate or manually control small volume air or non-corrosive gas flow from .1 to 100 SCFH.

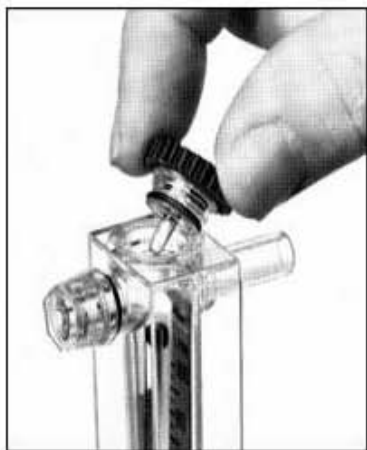
| Specifications | | |
|---|--|------|
| Meter Body, Bezel, Tube, Valve and Knob | Styrene-acrylonitrile | |
| Floats | Stainless Steel, Black Glass and Nylon | |
| Connections | Molded with body, 1/4" O.D. for push-on rubber or plastic tubing, or connect to metal or rigid plastic tubing with compression fittings. | |
| Scale | Lithograph printed on aluminum. Clear epoxy coated | |
| Pressure Rating | To 50 PSI maximum. (Valve Model leak-tight below 10 PSI) | |
| Temperature Rating | To 125°F maximum. | |
| Scale length | 1 1/2" | |
| Accuracy | ±10% of Full Scale; better accuracy between 10% and 90% of Full Scale | |
| | OPTIONS | CODE |
| Metering Valve and Knob | Molded Polyurethane | PV |
| Top Mounted Valve with Screwdriver Adjustment | Molded Polyurethane (For vacuum service only) | TMV |

Mini-Master Flowmeters Cont.

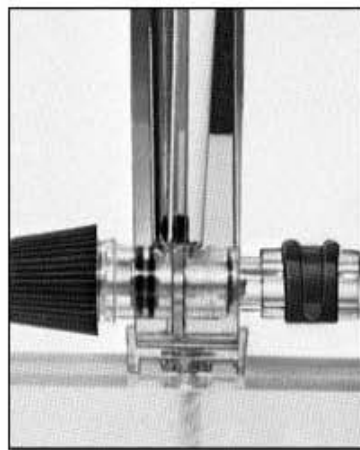
| MINI-MASTER® Ranges-Series MMF | |
|-----------------------------------|-----------------|
| Model MMF – 1 ½" Scale | |
| Range SCFH Air | Ordering Number |
| .1-1 | 1 |
| .2-2 | 2 |
| 1-10 | 10 |
| 5-50 | 50 |
| 10-100 | 100 |



NOTE: For OEM quantity applications, special ranges and scales also available.



Molded assembly key permits field assembly or disassembly of MMA flowmeter



MMA tubing connections secured by clamp. "Standup" mounting clip shown



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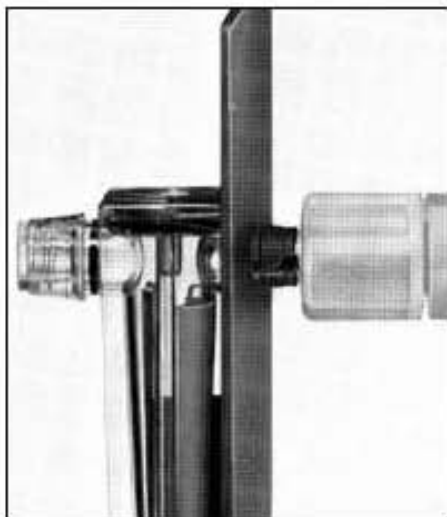
www.aquaairind.com

EMAIL sales@aquaairind.com

Mini-Master Flowmeters Cont.

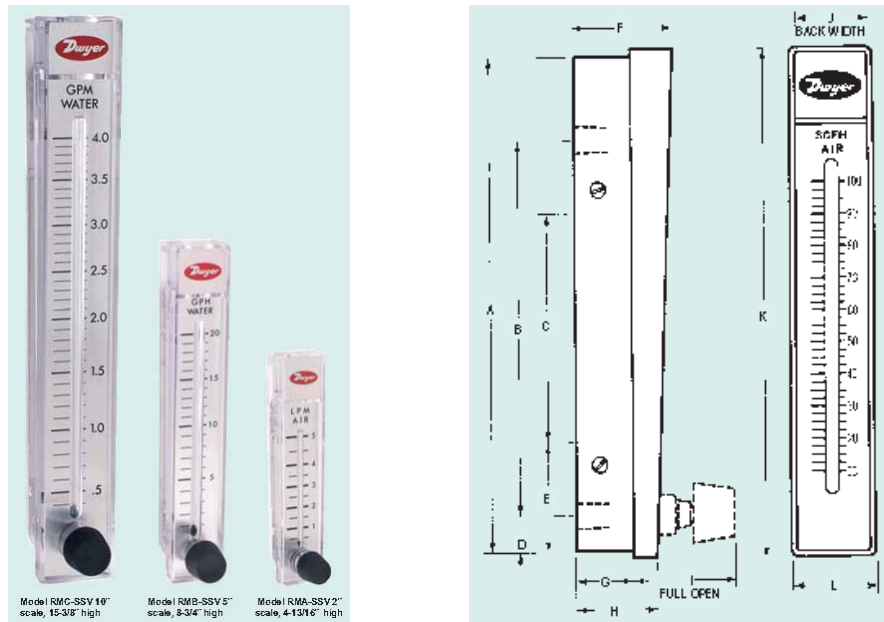


OEM version MMA with flat front surfaces
where no value is required.



Spring retainers on connection tubes secure
panel mounted MMA. Compression union,
P/N A-327 shown.

Rate-Master® Flowmeters



The Rate-Master® flowmeter line of direct reading precision flowmeters incorporates many unique user features at moderate cost. These low cost flowmeters are ideal for general use.

Easy to read design – The direct reading scales eliminate troublesome conversions. The scales are brushed aluminum, coated with epoxy and the graduations are on both sides of the indicating tube. Special integral flow guides stabilize the float throughout the range to keep it from hunting or wandering in the bore. The float is highly visible against a white background.

Construction assures accuracy – All Rate-Master® flowmeter bodies are injection molded of tough, clear, shatter-proof polycarbonate plastic around a precision tampered pin. The result is accurate and repeatable readings. The single piece plastic body is mounted to a stainless steel back bone into which pipe thread inserts are welded to absorb piping torque. Precision metering valves of brass or stainless steel (Specify BV or SSV on order) are available as an optional extra and permit precise flow adjustments. For vacuum applications, Model RMA units are available with top mounted valves (Specify TMV). The small Series RMA models are accurate within $\pm 4\%$ of full scale reading; Series RMB within $\pm 3\%$; large Series RMC within $\pm 2\%$.

Installation is simple – The Rate-Master® Flowmeter can be neatly panel mounted to keep flow tube centers in the same plane as the panel surface or surface mounted on the panel by means of tapped holes in the backbone. When through-panel mounted, the bezel automatically positions the instrument at the correct depth in the panel cutout. Surface mounted units can also be held in place by the piping. All mounting hardware plus installation and operating instructions are included.

Rate-Master® Flowmeters Cont.

Easy-to-Interchange bodies – Within a given Series Rate-Master® flowmeter bodies can be instantly interchanged. Simply “unplug” the body from backbone and replace it with another. “O” rings provide a tight seal on inlet and outlet. Piping remains undisturbed. Interchangeability is useful where different scale ranges are sometimes required at the same location in the laboratory or plant.

Cleaning is easy – To release the plastic flowmeter body from the stainless steel backbone, just remove four screws. Pipe thread flow connections remain undisturbed. Remove the slide cover and the plug ball stop, clean the flow tube with soap and water and reassemble.

| Dimensions in Inches | | | |
|----------------------|-------------------------|-------------------------|-------------------------|
| | Model RMA | Model RMB | Model RMC |
| A | 4-9/16 | 8-1/2 | 15-1/8 |
| B | 3 1/8 NPT Conn. | 6-7/16 1/4 NPT Conn. | 12-1/4 1/2 NPT Conn. |
| C | 1-5/8 10-32 Thds. | 3-15/16 1/4-20 Thds. | 8-3/4 3/8-24 Thds. |
| D | 3/8 | 5/8 | 1 |
| E | 1-1/16 | 1-7/8 | 2-3/4 |
| F | 1-3/16 | 1-3/4 | 2-1/4 |
| G | 3/4 | 1 | 1-7/16 |
| H | 1 | 1-7/16 | 1-31/32 |
| I (OPEN) | 1-3/8 | 1-13/16 | 2-1/2 |
| | (BV or SSV MODELS ONLY) | | |
| J | 3/4 | 1-1/4 | 2 |
| K | 4-13/16 | 8-3/4 | 15-3/8 |
| L | 1 | 1-1/2 | 2-1/4 |

Model RMA-X-APF, Adjustable Pointer Flag for RMA Series
Model RMB-X-BPF, Adjustable Pointer Flag for RMB Series
Model RMC-X-CPF, Adjustable Pointer Flag for RMC Series

Model RKA, Regulator Kit for RMA Series
Model RK-RMB, Regulator Kit for RMB Series

CAUTION

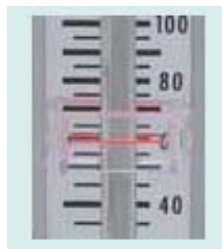
Dwyer® Rate-Master® flowmeters are designed to provide satisfactory long term service when used with air, water, or othert compatible media. Refer to factory for information on questionable gases or liquids. Caustic solutions, anti-freeze (ethylene glycol) and aromatic solvents should definitely not be used.

Options & Accessories



Top Mounted Metering Valves

– Same precision construction for vacuum applications. RMA models only.



Specials – Special ranges, scales, mounting arrangements, etc., are available on special order, or in OEM quantities

Adjustable pointer flags – Red lined pointer flags provide quick visual reference to a required flow level. Of clear plastic, they snap into place inside bezel and slide to desired level.



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Rate-Master® Flowmeters Cont.

Specifications

Service: Compatible gases and liquids.

Wetted Materials: Body: Polycarbonate; O-ring: Neoprene & Buna-N; Metal Parts: Stainless Steel (except for optional brass valve); Float: Stainless steel, black glass, aluminum, K monel, tungsten carbide depending on range.

Temperature Limit: 130°F (54°C).

Pressure Limit: 100 psi (6.9 bar).

Accuracy: RMA: 4%, RMB: 3%, RMC: 2% of full scale

Process Connection: RMA: 1/8", RMB: 1/4", RMC: 1/2" female NPT.

Weight: RMA: 4 oz. (113.4 g), RMB: 13 oz. (368.5 g), RMC: 39 oz. (1105.6 g).

How To Order

Series-Range No.-Valve-Option

Example: RMA-2-SSV

Series RMA with .1-1 SCFH Air Range & Stainless Steel Valve

Model RMA

Model RMA-X, Standard RMA

Model RMA-X-BV, RMA with Brass Valve

Model RMA-X-SSV,

RMA with Stainless Steel Valve

Model RMA-X-TMV,

RMA with Top Mounted Valve

Model RMB

Model RMB-X, Standard RMB

Model RMB-X-BV, RMB with Brass Valve

Model RMB-X-SSV,

RMB with Stainless Steel Valve

Model RMC

Model RMC-X, Standard RMC

Model RMC-X-BV, RMC with Brass Valve

Model RMC-X-SSV,

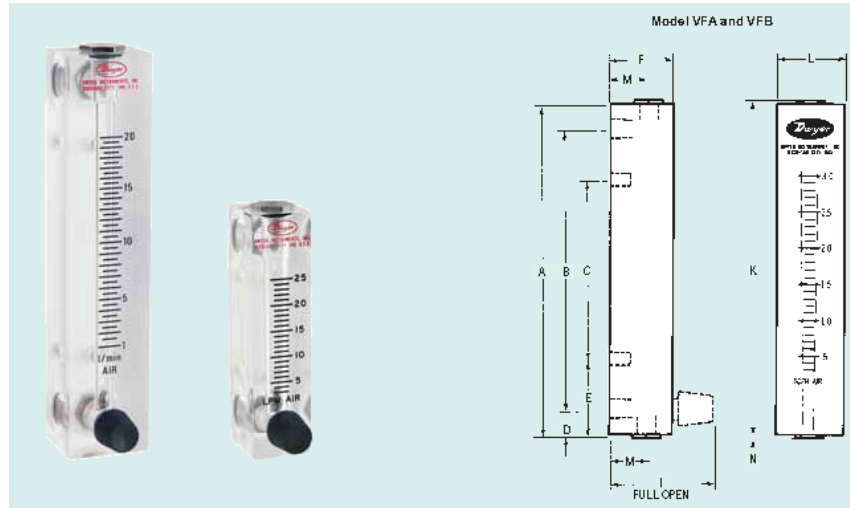
RMC with Stainless Steel Valve

| Model RMA-2" Scale | | Model RMB-5" Scale | | Model RMC-10" Scale | |
|--------------------|-----------|---------------------|-----------|-----------------------|-----------|
| Range SCFH Air | Range No. | Range SCFH Air | Range No. | Range SCFH Air | Range No. |
| .05-.5 | 1 | .5-5 | 49+ | 5-50 | 101 |
| .1-1 | 2 | 1-10 | 50 | 10-100 | 102 |
| .2-2 | 3 | 3-20 | 51 | 20-200 | 103 |
| .5-5 | 4 | 4-50 | 52 | 40-400 | 104 |
| 1-10 | 5 | 10-100 | 53 | 60-600 | 105 |
| 2-20 | 6 | 20-200 | 54 | 100-1000 | 106 |
| 5-50 | 7 | 40-400 | 55 | 120-1200 | 107 |
| 10-100 | 8 | 50-500 | 56 | 200-1800 | 108 |
| 15-150 | 9 | 60-600 | 57 | SCFM Air | |
| 20-200 | 10 | Gal. Water Per Hour | | 1-10 | 121 |
| CC Air/min. | | Per Hour | | 2-20 | 122 |
| 5-50 | 151* | 1-12 | 82 | 4-30 | 123 |
| 10-100 | 150* | 1-20 | 83 | Gal. Water Per hour | |
| 30-240 | 11 | 4-40 | 84 | 2-20 | |
| 50-500 | 12 | 10-100 | 85 | 8-90 | |
| 100-1000 | 13 | SCFH & LPM Air | | Gal. Water Per minute | |
| 200-2500 | 14 | 1.2-10/0.6-5 | 50D | .1-1 | 141 |
| LPM Air | | 3-20/1.5-9.5 | 51D | .2-2.2 | 142 |
| .5-5 | 26 | 4-50/2-23 | 52D | .4-4 | 143 |
| 1-10 | 21 | 10-100/5-50 | 53D | .8-7 | 144 |
| 2-25 | 22 | 20-200/5-95 | 54D | 1.2-10 | 145 |
| 5-50 | 23 | GPH & LPM Water | | | |
| 5-70 | 24 | 1-12/0.06-0.76 | 82D | | |
| 10-100 | 25 | 1-20/0.065-1.25 | 83D | | |
| CC Water/min. | | 10-100/0.8-6.2 | 85D | | |
| 5-50 | 32 | | | | |
| 10-110 | 33 | | | | |
| 20-300 | 34 | | | | |
| Gal. Water/hr | | | | | |
| 1-11 | 42 | | | | |
| 2-24 | 43 | | | | |
| 4-34 | 44 | | | | |
| 5-50 | 45 | | | | |

* Accuracy ±8%

+ Accuracy ±5%

VF Series Flowmeter



The Visi-Float® flowmeter bodies are cut and precision machined from solid, clear acrylic plastic blocks. This construction not only produces a handsome finished product, but permits complete visual inspection. As a result, the Visi-Float® flowmeters are especially popular for medical and laboratory equipment applications.

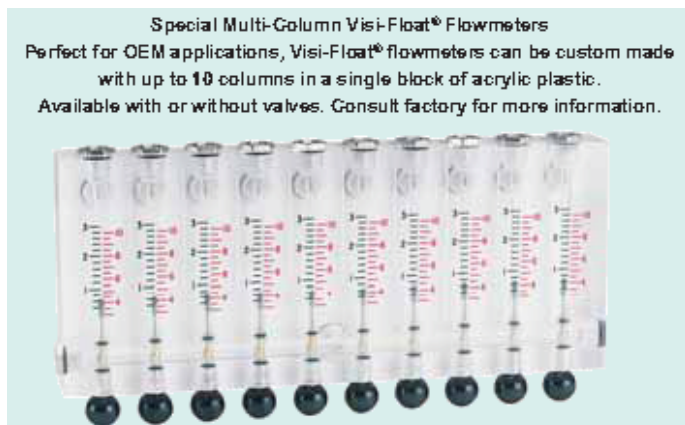
Scales are easy to read – The front scale location and white background provides excellent visibility. The direct reading scales are hot stamped into the plastic and will not wear off. Mid-range calibration is established with a master flowmeter. Accuracy is $\pm 5\%$ of full scale for VFA models, $\pm 3\%$ for VFB. Scales average 2" long on the VFA models, 4" long on VFB.

Durable and attractive construction – The machined acrylic bodies of the Visi-Float® flowmeters are practically unbreakable. Fabrication is backed by over 60 years of experience in acrylic instrument machining. The tapered bore is precision machined to a smooth surface that provides perfect visibility of the indicating float. The VFA and VFB models are available with either brass or stainless steel inlet and outlet connections and are tapped for 1/8" NPT thread. VFB models 85 and 86 have either 1/4" back or 3/8" end connections. All standard models employ Buna-N "O" rings for leak proof operation and are available with either back or end connections for horizontal or vertical piping. Precision metering valves in brass or stainless steel are available for most VFA and VFB models.

Easy installation – All Visi-Float® flowmeters have metal mounting inserts on rear for panel mounting. They can also be supported directly by system piping.

| Dimension-In-Inches | | |
|---------------------|----------------------|------------------------|
| | Model VFA | Model VFB |
| A | 4 | 6-1/2 |
| B | 3 (1/8 female NPT) | 5-1/2 (1/8 female NPT) |
| C | 1-5/8 (10-32 thread) | 3-1/2 (10-32 thread) |
| D | 1/2 | 1/2 |
| E | 1-3/16 | 1-1/2 |
| F | 1-1/4 | 1-1/4 |
| I | 2-1/16 (BV or SSV) | 2-1/16 (BV or SSV) |
| K | 4-3/32 | 6-19/32 |
| L | 1 | 1-3/8 |
| M | 3/4 (EC) | 3/4 (EC) |
| N | 3/32 (EC) | 3/32 (EC) |

VF Series Flowmeter Cont.



OEM Specials – Special flowmeter designs can be supplied to meet a wide range of requirements and specific applications. These include: on-off plunger and push-to-test valves, special gas or fluid calibration, special ranges, scales, name brand or other identification. Pointer flags can be furnished for instant visual reference. For specific information, please supply an outline of your requirements.

SPECIFICATIONS

Service: Compatible gases & liquid

Wetted Materials:

Body: Acrylic plastic

O-ring: Buna-N (Fluoroelastomer available)

Metal Parts: Brass standard, stainless steel optional

Float: Stainless steel, black glass, aluminum, K Monel depending on range

Temperature & Pressure Limits:

Without Valve: 100 psig (6.9 bar) @ 150°F (65°C); 150 psig (10 bar) @ 100°F (38°C).

With Valve: 100 psig (6.9 bar) @ 120°F (48°C)

Accuracy: VFA=5% of full scale; VFB=3% of full scale

Process Connection: 1/8" female NPT. VFB ranges 85 and 86 have 1/4" NPT back connections or 3/8" NPT end connections. These ranges not available with brass valves.

Scale Length: VFA 2" typical length; VFB 4" typical length

Mounting Orientation: Mount in vertical position

Weight: VFA: 4.0-4.8 oz. (.11-.14 kg). VFB: 7.2-8.8 oz. (.20-.25 kg).



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VF Series Flowmeter Cont.

How To Order

Series – Range No. – Valve – Option

Example: VFA-9-BV

Series VFA with 20-200 SCFH Air Range & Brass Valve

VFA Series

| Model | Description |
|-----------------------------------|---|
| VFA-X | Standard VFA |
| VFA-X-SS | VFA with Stainless Metal Wetted Parts |
| VFA-X-BV | VFA with Brass Valve |
| VFA-X-SSV | VFA with Stainless Steel Valve |
| VFA-X-EC | VFA with End Connections |
| VFA-X-EC-SS | VFA with End Connections and Stainless Steel Metal Wetted Parts |
| Options and Accessories | |
| -PF, Red ABS Plastic Pointer Flag | |
| -VIT, Fluoroelastomer O-rings | |
| RKA, Pressure Regulator | |

VFB Series

| Model | Description |
|-----------------------------------|---|
| VFB-X | Standard VFB |
| VFB-X-SS | VFB with Stainless Metal Wetted Parts |
| VFB-X-BV | VFB with Brass Valve |
| VFB-X-SSV | VFB with Stainless Steel Valve |
| VFB-X-EC | VFB with End Connections |
| VFB-X-EC-SS | VFB with End Connections and Stainless Steel Metal Wetted Parts |
| Options and Accessories | |
| -PF, Red ABS Plastic pointer Flag | |
| -VIT, Fluoroelastomer O-rings | |
| RK-VFB, Pressure Regulator | |

Popular Ranges

| Model VFA – 2” Scale | | | |
|----------------------|----------------|---------------------|---------------|
| Range No. | Range SCFH Air | Range No. | Range LPM Air |
| 1 | .1-1 | 21 | .06-0.5 |
| 2 | .2-2 | 22 | .15-1 |
| 3 | .6-5 | 23 | .6-5 |
| 4 | 1-10 | 24 | 1-10 |
| 5 | 2-20 | 25 | 3-25 |
| 6 | 4-30 | 26 | 6-50 |
| 7 | 5-50 | 27 | 10-100 |
| 8 | 10-100 | | |
| 9 | 20-200 | | |
| CC Water per min. | | Gal. Water per hour | |
| 32 | 6-50 | 41 | .6-5 |
| 33 | 10-100 | 42 | 2-10 |
| 34 | 20-200 | 43 | 3-20 |
| | | 44 | 8-40 |

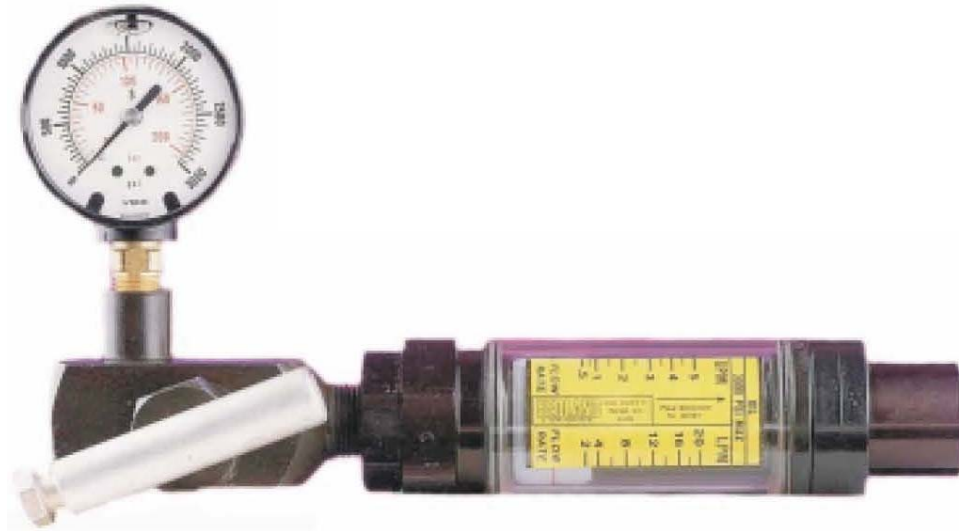
Popular Ranges

| Model VFB – 4” Scale | | | |
|----------------------|----------------|----------------------|---------|
| Range No. | Range SCFH Air | Range No. | LPM Air |
| 580 | .3-3 | 65 | .2-4 |
| 91+ | 1-10 | 66 | 1-10 |
| 51+ | 2-20 | 67 | 1-20 |
| 52 | 4-40 | 68 | 3-30 |
| 53+ | 10-100 | 69 | 4-40 |
| 54+ | 10-150 | CC/Min. Water | |
| 55+ | 20-200 | 82 | 2-30 |
| SCFM Air | | GPH Water | |
| 90 | .3-3 | 80+ | .5-12 |
| CC/Min. Air | | 83+ | 1-20 |
| 60 | 100-1000 | 84 | 6-40 |
| | | 81 | 6-60 |
| | | GPH Water | |
| | | 85* | .2-2 |
| | | 86* | .6-5 |

+ For dual range models in English and Metric add “D” to end of Range No.

* Ranges 85 and 86 consult factory. Not available with brass valve

In-Line Test Kits For Hydraulic Systems in Flow Ranges up to 150 GPM



This test unit is ideal for field / shop testing of a hydraulic unit. If there are any questions concerning a hydraulic power unit functioning properly, the In-Line Test Unit will indicate pressure & flow. The power unit can be tested and will indicate if there is a problem w/ the hydraulic unit. The In-Line Test Unit is a mandatory tool for field testing of hydraulic power units.

- * **Adjust In-Line Flow Rates and Pressures For Maximum System Performance**
- * **Adjust Engine RPM for Proper GPM and PSI**
- * **Lengthen Hydraulic Component Life**
- * **Test Pressure Relief Valve Settings**
- * **Compact and Easy to Use**
- * **Install In Any Position**
- * **Accuracy within +/- 4% F.S.**
- * **Repeatability within +/- 1%**
- * **Temperatures up to 240° F**
- * **Relatively Insensitive to Shock and Vibration**
- * **Good Viscosity Stability**
- * **Direct Reading**
- * **No Electrical Connection**
- * **One Year Limited Warranty**



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In-Line Test Kits Cont.

| Port Size | Flow* Range | Part No. | Dimensions | | | | Wrench Flats (in) | Weight (lbs) |
|-------------|--------------|----------|------------|-----|--------|-----|----------------------|--------------|
| | | | O.D. | | Length | | | |
| | | | in. | mm | in. | mm | | |
| ** ½” NPTF | 0.1 – 1 GPM | 693-001 | 1.8 | 46 | 10.3 | 262 | 1-5/8 | 3.5 |
| | 0.2 – 2 GPM | 693-002 | | | | | | |
| | 0.5 – 4 GPM | 693-004 | | | | | | |
| | 0.5 – 5 GPM | 693-005 | | | | | | |
| | 1.0 – 10 GPM | 693-010 | | | | | | |
| | 1.5 – 15 GPM | 693-015 | | | | | | |
| ** ¾” NPTF | 0.1 – 2 GPM | 793-002 | 2.3 | 58 | 11.3 | 287 | 2 | 6 |
| | 0.5 – 5 GPM | 793-005 | | | | | | |
| | 1.0 – 10 GPM | 793-010 | | | | | | |
| | 1.0 – 15 GPM | 793-015 | | | | | | |
| | 1.0 – 20 GPM | 793-020 | | | | | | |
| | 2.0 – 30 GPM | 793-030 | | | | | | |
| 1-1/4” NPTF | 3 – 30 GPM | 893-030 | 4 | 102 | 20.5 | 521 | 2-1/2 | 17 |
| | 5 – 50 GPM | 893-050 | | | | | | |
| | 10 – 75 GPM | 893-075 | | | | | | |
| | 10 – 100 GPM | 893-100 | | | | | | |
| | 10 – 150 GPM | 893-150 | | | | | | |

* Scales can be calibrated in other units of measurement.

** Carrying cases available at extra cost

Note: Yellow highlight indicates most commonly used In-Line Test Kit for diver's hydraulic

Pneumatic Test Kit

For Pneumatic Systems – A Flow Meter, Pressure Gauge and PSI Control Valve Combined in a Compact, Low Cost Service Tool



- * Maximize Pneumatic Attachment Performance and Operating Life
- * Check Pressure Relief Valve Settings
- * Adjust Regulator for Proper Flow Rates and Pressures
- * Test Compressor Output

- * Compact and Easy to Use
- * Direct Reading Multipressure Flow Scale
- * Accuracy within +/-4% FS
- * Repeatability within +/- 1%
- * Rugged, Low Cost Tool
- * Installs in any Position
- * No Electrical Connections
- * Special Scales Available
- * One Year Limited Warranty

| Port Size | Flow* Range @100 PSI | | Part No. | Dimensions | | | | | Weight (lbs) |
|-------------|-------------------------|-----------|----------|------------|-----|--------|-----|----------------------|-----------------|
| | | | | O.D. | | Length | | Wrench Flats (in) | |
| | | | | in | mm | in** | mm | | |
| ¼” NPTF | 1 - | 4 SCFM | 273-004 | 1.4 | 36 | 9.8 | 249 | 1-1/4 | 1.5 |
| | 2 - | 9 SCFM | 273-009 | | | | | | |
| | 2 - | 18 SCFM | 273-018 | | | | | | |
| | 4 - | 24 SCFM | 273-024 | | | | | | |
| ½” NPTF | 2 - | 20 SCFM | 673-020 | 1.8 | 46 | 12.6 | 320 | 1-5/8 | 2.25 |
| | 10 - | 60 SCFM | 673-060 | | | | | | |
| | 10 - | 110 SCFM | 673-110 | | | | | | |
| | 20 - | 150 SCFM | 673-150 | | | | | | |
| ¾” NPTF | 4 - | 18 SCFM | 773-018 | 2.3 | 58 | 13.6 | 345 | 2 | 3.25 |
| | 5 - | 50 SCFM | 773-050 | | | | | | |
| | 10 - | 90 SCFM | 773-090 | | | | | | |
| | 25 - | 150 SCFM | 773-150 | | | | | | |
| | 20 - | 220 SCFM | 773-220 | | | | | | |
| 1-1/4” NPTF | 20 - | 250 SCFM | 873-250 | 4.0 | 102 | 20 | 508 | 2-1/2 | 9.5 |
| | 25 - | 450 SCFM | 873-450 | | | | | | |
| | 50 - | 600 SCFM | 873-600 | | | | | | |
| | 50 - | 800 SCFM | 873-800 | | | | | | |
| | 100 - | 1000 SCFM | 873-100 | | | | | | |

* Indicated Flow Range is nominal, calibrated @ 100 PSIG, @ 70°F

** Length includes optional silencer

UA-2 Underwater Altimeter



UA-2 – A low/cost precision underwater altimeter

Fishers altimeter shows distance between towed body and ocean bottom.

The UA-2 Underwater Altimeter adds a new and needed dimension to the effectiveness and accuracy of underwater searches and surveys. The UA-2 provides a cost effective method for measuring the distance between a towed body and the ocean floor. The altimeter allows underwater detection and survey equipment to be held at precise altitudes above the bottom. With the altimeter mounted on your search equipment, targets are not missed as a result of equipment being towed too high off the bottom or equipment being damaged from towing too close to the bottom.

No longer is it necessary to integrate chart information, cable lengths, and towing speed to calculate the distance between the towed body and the bottom. The UA-2 gives an accurate measurement of the actual distance on a digital LCD display. The distance reading is updated 3 times per second. The large LCD readout shows depth in 1 foot increments from 1 to 199 feet. A switch allows distance to be displayed in meters or feet. The UA-2 altimeter also has an adjustable audio alarm which alerts the operator if the equipment is towed below a preset distance.

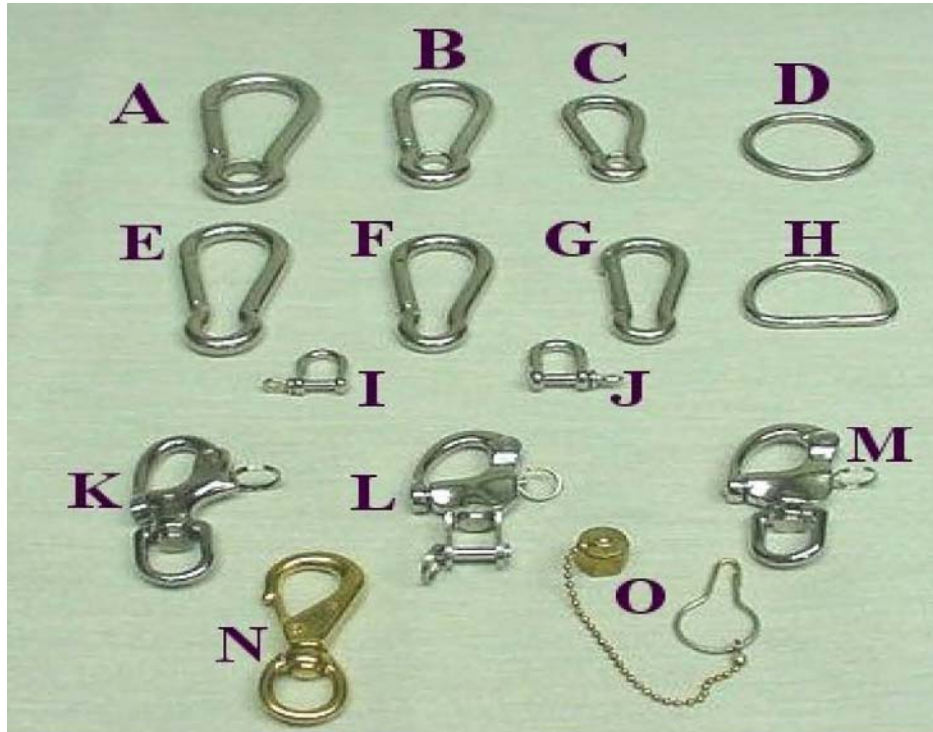
The UA-2 underwater altimeter system includes a transducer for the tow body, a 150 foot tow cable, and the topside control unit. The system is powered by a 12 volt battery. Options for the system are cable lengths up to 1000 feet, and an output to a computer.

Key Features of the UA-2:

It's large, easy to read LCD display, audio alarm, and adaptability to any towed body.

The system is backed by Fishers exclusive, unconditional two year warranty.

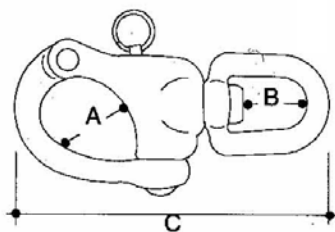
Hardware, Stainless Steel



| Letter | Part No. | Description |
|--------|-------------|--|
| A | 50121-0120 | Large Stainless-steel Carabiner, 4 3/4" w/ eye |
| B | 50121-0080 | Medium Stainless-steel Carabiner, 3 1/4" w/ eye |
| C | 50121-0070 | Small Stainless-steel Carabiner, 2 3/4" w/ eye |
| D | 50139-650 | 1/4" x 2" Stainless-steel, Round Ring |
| E | 50120-120 | Large Stainless-steel Carabiner, 4 3/4" |
| F | 50120-0080 | Medium Stainless-steel Carabiner, 3 1/4" |
| G | 50120-0070 | Small Stainless-steel Carabiner, 2 3/4" |
| H | D-867 | 1/4" x 2" D-Ring |
| I | 50115-0005 | Straight shackle 3/16 |
| J | 50115-0006 | Straight shackle 1/4 |
| K | NF150005 | Large Stainless steel 7000 lb Pull Quick-Release |
| L | 50170-0002 | Snap Shackle / Stamp Jaw 3 1/2 |
| M | 50157-0002 | 5000lb Swivel Snap Shackle 3 1/2 |
| N | 251B-2 | #2 Brass swivel cap |
| O | #927 | Brass O2 Dust-cap for Mask or Helmet hose fittings |
| | | <u>Not Pictured</u> |
| * | 50160-10005 | Small Stainless Steel Quick Link |
| * | 50176-1000B | Brass Double Clip, 4" Long |

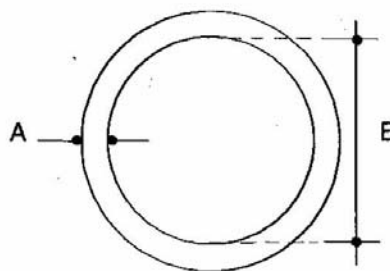
Rigging Hardware

Swivel Snap Shackle 316 Stainless Steel Precision Cast



| Part No. | Size (in) | A (in) | B (in) | C (in) | WLL (lb) | WT (lb) |
|------------|-----------|--------|--------|--------|----------|---------|
| S0157-0001 | 2-3/4 | 1/2 | 1/2 | 2-3/4 | 1000 | 0.14 |
| S0157-0002 | 3-1/2 | 3/4 | 5/8 | 3-1/2 | 1500 | 0.27 |
| S0157-0003 | 5 | 1 | 1 | 5 | 2100 | 0.75 |

Round Ring 316 Stainless Steel Precision Welded

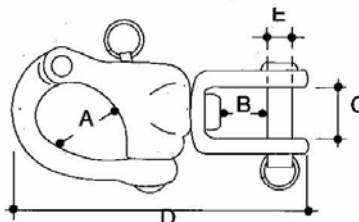


| Part No. | A (in) | B (in) | C (in) | Part No. | A (in) | B (in) | C (in) |
|------------|--------|--------|--------|------------|--------|--------|--------|
| S0139-0320 | 1/8 | 3/4 | 0.02 | S0139-0640 | 1/4 | 1-1/2 | 0.08 |
| S0139-0325 | 1/8 | 1 | 0.02 | S0139-0650 | 1/4 | 2 | 0.10 |
| S0139-0425 | 5/32 | 1 | 0.03 | S0139-0840 | 5/16 | 1-1/2 | 0.13 |
| S0139-0430 | 5/32 | 1-1/4 | 0.03 | S0139-0845 | 5/16 | 1-3/4 | 0.15 |
| S0139-0440 | 5/32 | 1-1/2 | 0.03 | S0139-0850 | 5/16 | 2 | 0.16 |
| S0139-0525 | 3/16 | 1 | 0.04 | S0139-0865 | 5/16 | 2-1/2 | 0.20 |
| S0139-0530 | 3/16 | 1-1/4 | 0.04 | S0139-1065 | 3/8 | 2-1/2 | 0.24 |
| S0139-0540 | 3/16 | 1-1/2 | 0.04 | S0139-1080 | 3/8 | 3-1/4 | 0.32 |
| S0139-0550 | 3/16 | 2 | 0.05 | S0139-1210 | 1/2 | 4 | 0.50 |
| S0139-0625 | 1/4 | 1 | 0.05 | S0139-1260 | 1/2 | 2-3/8 | 0.35 |
| S0139-0630 | 1/4 | 1-1/4 | 0.06 | S0139-1280 | 1/2 | 3-1/4 | 0.45 |

Other sizes available on request.

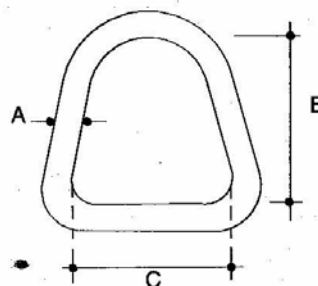
Rigging Hardware Cont.

Jaw Swivel Snap Shackle 316 Stainless Steel Precision Cast



| Part No. | Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | WT (lb) |
|------------|-----------|--------|--------|--------|--------|--------|----------|---------|
| S0171-0001 | 2-3/4 | 1/2 | 3/8 | 7/16 | 2-5/8 | 1/4 | 800 | 0.14 |
| S0171-0002 | 3-1/2 | 5/8 | 1/2 | 1/2 | 3-3/8 | 1/4 | 1200 | 0.27 |
| S0171-0003 | 5 | 1 | 7/8 | 7/8 | 5 | 1/2 | 1800 | 0.89 |

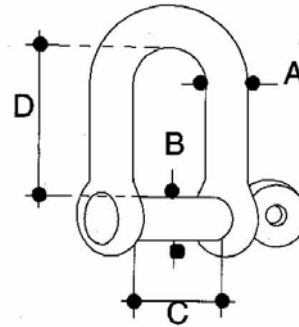
Dee Ring 316 Stainless Steel Precision Welded



| Part No. | A (in) | B (in) | C (in) | WLL (lb) | WT (lb) |
|------------|--------|--------|--------|----------|---------|
| S0139-X325 | 1/8 | 7/8 | 1 | 400 | 0.02 |
| S0139-X525 | 3/16 | 7/8 | 1 | 900 | 0.03 |
| S0139-X540 | 3/16 | 1-5/16 | 1-1/2 | 900 | 0.04 |
| S0139-X625 | 1/4 | 7/8 | 1 | 900 | 0.05 |
| S0139-X640 | 1/4 | 1-3/8 | 1-1/2 | 1640 | 0.08 |
| S0139-X650 | 1/4 | 1-3/4 | 2 | 1640 | 0.09 |
| S0139-X850 | 5/16 | 1-5/8 | 2 | 2560 | 0.15 |
| S0139-X865 | 5/16 | 2-1/8 | 2-1/2 | 2560 | 0.20 |
| S0139-X875 | 5/16 | 2-1/2 | 3 | 2560 | 0.25 |

Shackles

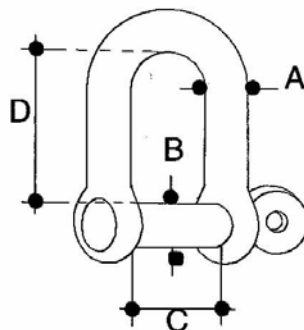
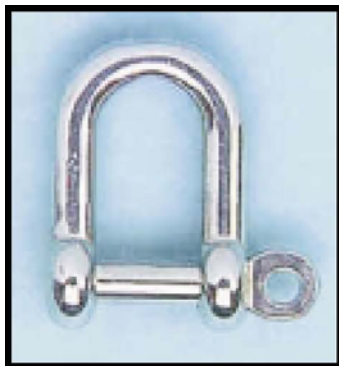
Straight (D) Shackle 316 Stainless Steel w/ Screw Pin



| Part No. | A (in) | B (in) | C (in) | D (in) | WLL (lb) | WT (lb) |
|------------|--------|--------|--------|--------|----------|---------|
| S0115-0004 | 5/32 | 5/32 | 11/32 | 1/2 | 360 | 0.02 |
| S0115-0005 | 3/16 | 3/16 | 13/32 | 11/16 | 560 | 0.04 |
| S0115-0006 | 1/4 | 1/4 | 15/32 | 13/16 | 750 | 0.06 |
| S0115-0008 | 5/16 | 5/16 | 5/8 | 1-1/8 | 1320 | 0.12 |
| S0115-0010 | 3/8 | 3/8 | 3/4 | 1-3/8 | 1700 | 0.25 |
| S0115-0012 | 15/32 | 15/32 | 15/16 | 1-5/8 | 2500 | 0.44 |
| S0115-0013 | 1/2 | 1/2 | 1 | 1-3/4 | 2900 | 0.56 |
| S0115-0016 | 5/8 | 5/8 | 1 1/4 | 2-3/16 | 4600 | 1.00 |
| S0115-0020 | 3/4 | 3/4 | 1 1/2 | 2-5/8 | 6700 | 1.67 |
| S0115-0022 | 7/8 | 7/8 | 1-3/4 | 3 | 8000 | 2.53 |
| S0115-0025 | 1 | 1 | 2 | 3-3/8 | 12000 | 3.80 |

Shackles Cont.

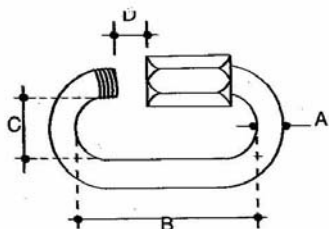
Straight (D) Shackle 316 Stainless Steel w/ Screw Pin



| Part No. | A (in) | B (in) | C (in) | D (in) | WLL (lb) | WT (lb) |
|------------|--------|--------|--------|--------|----------|---------|
| S0115-CP04 | 5/32 | 5/32 | 5/16 | 1/2 | 360 | 0.06 |
| S0115-CP05 | 3/16 | 3/16 | 13/32 | 11/16 | 530 | 0.04 |
| S0115-CP06 | 1/4 | 1/4 | 15/32 | 13/16 | 750 | 0.06 |
| S0115-CP08 | 5/16 | 5/16 | 5/8 | 1-1/8 | 1320 | 0.12 |
| S0115-CP10 | 3/8 | 3/8 | 13/16 | 1-3/8 | 1700 | 0.25 |
| S0115-CP12 | 1/2 | 7/16 | 15/16 | 1-5/8 | 2900 | 0.42 |

Chain Accessories

Quick Link 316 Stainless Steel Precision Formed



| Part No. | A (in) | B (in) | C (in) | D (in) | WLL (lb) | WT (lb) |
|------------|--------|--------|--------|--------|----------|---------|
| S0160-0003 | 1/8 | 1-1/8 | 3/8 | 7/32 | 300 | 0.02 |
| S0160-0004 | 5/32 | 1-3/16 | 15/32 | 3/16 | 500 | 0.03 |
| S0160-0005 | 3/16 | 1-1/2 | 1/2 | 1/4 | 990 | 0.05 |
| S0160-0006 | 1/4 | 1-3/4 | 9/16 | 5/16 | 1430 | 0.08 |
| S0160-0007 | 9/32 | 2-1/16 | 5/8 | 11/32 | 1880 | 0.14 |
| S0160-0008 | 5/16 | 2-1/4 | 3/4 | 3/8 | 2400 | 0.18 |
| S0160-0009 | 11/32 | 2-7/16 | 13/16 | 7/16 | 3100 | 0.24 |
| S0160-0010 | 3/8 | 2-3/4 | 7/8 | 1/2 | 3960 | 0.33 |
| S0160-0011 | 15/32 | 3-1/4 | 15/16 | 9/16 | 5500 | 0.55 |

Spring Clips

Color Anodized Clip
Aluminum Alloy Precision Formed



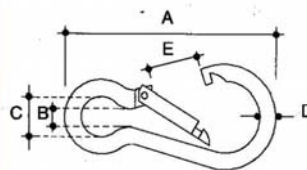
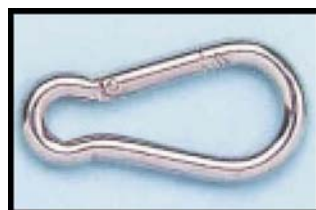
| Part No. | Size (in) | WLL (lb) | WT (lb) |
|------------|-----------|----------|---------|
| A0220-K050 | 2 | 120 | 0.04 |
| A0220-K060 | 2-3/8 | 150 | 0.06 |

Color Anodized Clip (w/ Key Lock)
Aluminum Alloy Precision Formed



| Part No. | Size (in) | WLL (lb) | WT (lb) |
|------------|-----------|----------|---------|
| A0242-K060 | 2-3/8 | 150 | 0.06 |
| A0242-K080 | 3-1/4 | 300 | 0.15 |

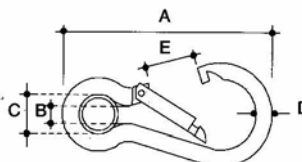
Color Anodized Clip
Aluminum Alloy Precision Formed



| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | WT (lb) |
|------------|---------|--------|--------|--------|--------|----------|---------|
| S0120-0050 | 2 | 3/16 | 5/16 | 3/16 | 1/4 | 120 | 0.04 |
| S0120-0060 | 2-11/32 | 9/32 | 5/16 | 1/4 | 5/16 | 170 | 0.06 |
| S0120-0070 | 2-3/4 | 5/16 | 3/8 | 9/32 | 3/8 | 200 | 0.10 |
| S0120-0080 | 3-1/8 | 3/8 | 7/16 | 5/16 | 3/8 | 280 | 0.15 |
| S0120-0100 | 4 | 7/16 | 5/8 | 3/8 | 9/16 | 400 | 0.27 |
| S0120-0120 | 4-3/4 | 9/16 | 3/4 | 7/16 | 11/16 | 540 | 0.41 |
| S0120-0140 | 5-1/2 | 5/8 | 7/8 | 15/32 | 3/4 | 740 | 0.58 |
| S0120-0160 | 6-3/8 | 3/4 | 15/16 | 1/2 | 1 | 900 | 0.78 |

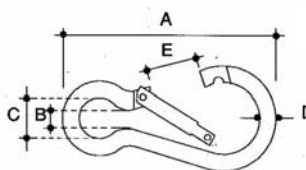
Spring Clips Cont.

Spring Clip & Eye (Snap Hook) 316 Stainless Steel Precision Formed



| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | WT (lb) |
|-------------------|--------|--------|--------|--------|--------|----------|---------|
| S0121-0050 | 2 | 3/16 | 1/4 | 3/16 | 1/4 | 120 | 0.04 |
| S0121-0060 | 2-3/8 | 9/32 | 1/4 | 1/4 | 5/16 | 170 | 0.06 |
| S0121-0070 | 2-3/4 | 5/16 | 5/16 | 9/32 | 3/8 | 200 | 0.10 |
| S0121-0080 | 3-1/8 | 3/8 | 3/8 | 5/16 | 3/8 | 280 | 0.15 |
| S0121-0100 | 4 | 7/16 | 1/2 | 3/8 | 1-3/16 | 400 | 0.28 |
| S0121-0120 | 4-3/4 | 9/16 | 5/8 | 7/16 | 11/16 | 540 | 0.41 |
| S0121-0140 | 5-1/2 | 5/8 | 3/4 | 1/2 | 3/4 | 740 | 0.58 |
| S0121-0160 | 6-3/8 | 3/4 | 7/8 | 1/2 | 1 | 900 | 0.78 |

Spring Clip w/ "Key Lock" 316 Stainless Steel Precision Formed

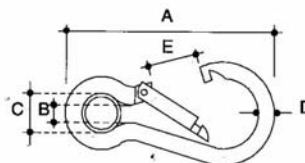


| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | WT (lb) |
|-------------------|--------|--------|--------|--------|--------|----------|---------|
| S0120-K050 | 2 | 1/4 | 5/16 | 3/16 | 1/4 | 120 | 0.04 |
| S0120-K060 | 2-3/8 | 1/4 | 11/32 | 1/4 | 5/16 | 170 | 0.06 |
| S0120-K070 | 2-3/4 | 5/16 | 7/16 | 9/32 | 3/8 | 200 | 0.10 |
| S0120-K080 | 5/16 | 5/16 | 7/16 | 5/16 | 7/16 | 350 | 0.15 |
| S0120-K100 | 4 | 3/8 | 1/2 | 3/8 | 9/16 | 530 | 0.28 |
| S0120-K120 | 4-3/4 | 9/16 | 11/16 | 7/16 | 11/16 | 880 | 0.41 |
| S0120-K160 | 6-3/8 | 3/4 | 7/8 | 1/2 | 1-1/8 | 970 | 0.78 |

These high strength clips are individually tested and stamped with the WLL and break load (in kilograms)

Spring Clips Cont.

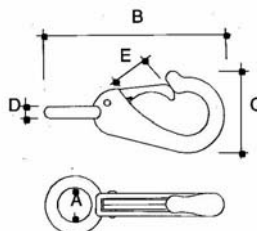
Spring Clip & Eye “Key Lock” 316 Stainless Steel Precision Formed



| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | WT (lb) |
|------------|--------|--------|--------|--------|--------|----------|---------|
| S0121-K050 | 2 | 5/16 | 7/32 | 3/16 | 3/16 | 120 | 0.04 |
| S0121-K060 | 2-3/8 | 3/8 | 1/4 | 1/4 | 1/4 | 170 | 0.06 |
| S0121-K070 | 2-3/4 | 3/8 | 11/32 | 9/32 | 5/16 | 200 | 0.10 |
| S0121-K080 | 3-1/4 | 7/16 | 3/8 | 5/16 | 23/54 | 350 | 0.15 |
| S0121-K100 | 4 | 9/16 | 1/2 | 3/8 | 7/16 | 530 | 0.28 |
| S0121-K120 | 4-3/4 | 11/16 | 9/16 | 7/16 | 9/16 | 880 | 0.41 |
| S0121-K160 | 6-3/8 | 7/8 | 7/8 | 1/2 | 1/4 | 970 | 0.78 |

These high strength clips are individually tested and stamped w/ the WLL and break load (in kilograms).

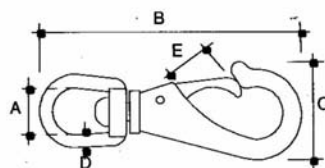
Fixed Eye Snap 316 Stainless Steel Precision Cast



| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WT (lb) |
|------------|--------|--------|--------|--------|--------|---------|
| S0175-0000 | 3/8 | 2-1/8 | 7/8 | 5/32 | 7/32 | 0.06 |
| S0175-0001 | 5/8 | 2-7/8 | 1-1/4 | 3/16 | 7/16 | 0.10 |
| S0175-0002 | 3/4 | 3-1/4 | 1-3/8 | 7/32 | 1/2 | 0.14 |
| S0175-0003 | 7/8 | 3-7/8 | 1-3/4 | 9/32 | 9/16 | 0.28 |

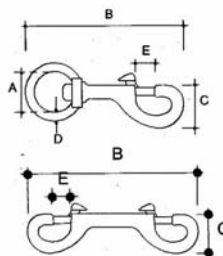
Spring Clips Cont.

Swivel Eye Snap 316 Stainless Steel Precision Cast



| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | WT (lb) |
|------------|--------|--------|--------|--------|--------|----------|---------|
| S0174-0001 | 5/8 | 3-3/8 | 1-3/16 | 3/16 | 7/16 | 100 | 0.13 |
| S0174-0002 | 3/4 | 4 | 1-1/2 | 1/4 | 1/2 | 300 | 0.21 |
| S0174-0003 | 7/8 | 4-5/8 | 1-3/4 | 9/32 | 1/2 | 400 | 0.33 |

Swivel Eye Snap 316 Stainless Steel Precision Cast



| Part No. | A (in) | B (in) | C (in) | D (in) | E (in) | WT (in) |
|------------|--------|--------|--------|--------|--------|---------|
| S0176-0000 | 7/16 | 2-1/2 | 5/16 | 1/8 | 1/4 | 0.05 |
| S0176-0001 | 1/2 | 3 | 5/16 | 5/32 | 9/32 | 0.07 |
| S0176-0002 | 5/8 | 3-3/8 | 5/16 | 5/32 | 5/16 | 0.10 |
| S0176-0003 | 3/4 | 3-3/4 | 7/16 | 3/16 | 1/2 | 0.12 |
| S0176-0004 | 1-3/16 | 4-3/4 | 1/2 | 1/4 | 9/16 | 0.24 |

Harnesses, Backpacks & Weight Belts Atlantic Diving Equipment

Back Pack – BP-400



Identical to the Bell Back Pack but without the vertical webbing on the backpack and without the upper rear D-ring and the belt adjuster. The ¼" thick back pack is 2 ply nylon, reinforced rubber, punched to accept a bail out bottle using stainless bands or 2" cam locks. All harnesses and weight belts come standard w/ our 2" by 1/8" thick Dura-soft nylon webbing, at no extra charge

Bell, Back Pack Harness – BHBP-700



This harness is set up for Bell or surface supply diving w/ 2 front D-rings for hook up, plus an upper D-ring to facilitate emergency lifting of divers. A heavy belt adjuster is provided for using a jock strap if desired. The ¼" thick back pack is 2 ply nylon, reinforced rubber, punched to accept stainless bands or our 2" Tank cam locks.

Professional Weight Belt – WB-500



This belt is produced to give many years of rugged commercial use, w/ practicability and comfort in mind. The heavy 1/8" thick by 2" shoulder webbing, w/ heavy stainless adjusters are standard features at no additional cost. With all the shell type commercial dry suits, extra heavy Dura-soft webbing is essential for comfort and minimizing chafing. All metal components, w/ the exception of the weights and bronze buckle are non-magnetic 300 series stainless steel. The durable rubber belting is reinforced w/ 2 plys of nylon. Standard belt dimensions are, 48" long by 4-1/2" wide by ¼" thick. The belt is adjustable for waist size: weight requirements, and shoulder strap length. Stainless rivets are used on all the shoulder straps instead of stitching to meet OSHA requirements.

Quick Release Buckle

The quick release buckle is cast from manganese bronze, for marine environment use and strength. 300 series stainless springs; spacers and pins are used on the closing and release mechanism. The buckle may be released easily while wearing thick gloves or dry mitts.

Shoulder Straps for WB500 Belts – SS-500-S

Professional Weight Belt Styles

Light: equipped w/ 6, three lb. weights (18 lbs.) – **WB-500-18**

Medium: equipped w/ 5, five lb. weights (25 lbs.) – **WB-500-25**

Heavy: equipped w/ 4, eight lb. weights (32 lbs.) – **WB-500-32**

The belt assembly without weights, is approximately five pounds. Additional weight assemblies are available in 3, 5, and 8 lb. Blocks with backup plates, nuts and bolts.

MKXXI Integrated Diving Vest #16509

Atlantic Diving Equipment

Designed by the U.S.N. Fleet Master Diver

Authorized Navy Use



**Standard Harness –
SH-100-7**

Features

- * New reinforced backpack that's thicker
- * 80 CF bail out tank is secured by two cam lock devices w/ Velcro. A safety strap w/ stainless D-rings, installed under the tank.
- * 6-5 lb. Weight pouches, w/ brass drain holes. Pouches made from heavy ballistic cloth
- * Each weight pouch has a nexus snap, backed up w/ Velcro enclosure
- * Adjustable 1-1/2" chest strap
- * Heavy stainless adjusters are made in-house for shoulder straps & jock. They are not of the scuba variety
- * Highest quality 2" x 1/8" nylon webbing
- * Stainless steel, hand set revets and backup plates
- * Stainless D-rings w/ stainless welded joints
- * The highest quality materials and workmanship in the commercial industry.



Bell Harness – BH-200



This harness has two front D-rings and one rear for air hook up. This provides a means to secure the diving hose, without strain to the mask or helmet. Includes two extra D-rings mounted on chest straps. Heavy stainless belt adjusters are optional.



This harness is set up for Bell diving, w/ rear upper D-ring for emergency lifting of divers. Two front D-rings provide hook ups for air, or gas hose. A heavy duty belt adjuster is provided for the optional jock strap.

Stock sizes for harnesses:

| | |
|---|-----------------|
| Small | 32" – 42" chest |
| Medium | 38" – 46" chest |
| Large | 42" – 52" chest |
| Special sizes may be ordered for all harnesses. | |

Miller Diving Harness

The materials used in the Miller Harness lines are specially selected for their high strength, corrosion resistance and longevity. In addition to the original black line, a new blue line is available. The various models depicted below are available in both lines. The basic method of construction is the same for both. All stress points and joints are securely fastened with stainless steel rivets and large washer plates through triple layers of webbing. The D-rings and buckles are made of stainless steel. Over 5000 various models of the Miller Harness are in service in the commercial diving industry and the U.S. Navy.



Miller Standard Harness

The Miller Diving Harness provides a rugged economical unit for general diving operations. The harness features 2 hook up D-rings in front for securing the diving hose to the body, eliminating direct hose strain on the helmet or mask.

Black or Blue Line

Miller Bell Harness

The Miller Bell Harness is designed for bell or saturation use. In addition to the two front hook up D-rings, the harness features an elevated strap with hook up D-ring, positioned on back, about shoulder level. Thus, a limp or unconscious diver would be pulled into the bell head first.



Miller Diving Harness Cont.

Black – Blue Lines

The Black nylon webbing, 3/16" thick x 2" wide, is factory impregnated with rubber for abrasion and slip resistance. The belt and shoulder straps are fully adjustable.

The Blue nylon webbing, 1/8" thick x 2" wide, is uncoated, very limber, and comfortable. The shoulder straps are fixed length in the Blue line. However strap adjusters are optional. Belt is fully adjustable.

Small size fits approximately 32" – 42" chest

Medium size fits approximately 36" – 46" chest

Large size fits approximately 42" – 52" chest



Miller Backpack

The Miller Backpack features a high strength, flexible nylon/rubber backpack for mounting an emergency air supply, in addition to providing 2 hook up D-rings in front. The unit is very comfortable, whether worn with or without cylinders.

Black or Blue Line
Optional Jock Strap

Miller Bell / Backpack

The Miller Bell/Backpack combines the features of the bell harness, having an elevated rear hook up D-ring, with the backpack for mounting an emergency air cylinder, in addition to providing 2 hook up D-rings in front. Designed for surface or bell diving or saturation use, with or without cylinders.

Black or Blue Line
Optional Jock Strap



Weight Belt Accessories



Stainless Steel Wire Buckle
w/ Slide



Weight Keepers: C-17, C-101

D-Rings: C-106, C-121

Wire Buckles: C-15, C-16, C-19



Pocket Belt & Lead Shot Pouches



Buckles

| | |
|------------------------|----------------------|
| 52110 Stainless w/ Pin | 52130 Black, Plastic |
| 52131 Blue, Plastic | 52132 Red, Plastic |
| 52133 Yellow, Plastic | 52138 Green, Plastic |
| 52139 Pink, Plastic | |

54" Nylon Belt Webbing

| | |
|-------------|----------------------|
| 52240 Black | 52441 Black, Plastic |
| 52442 Red | 52443 Green, Plastic |

Bulk Nylon Webbing

Custom lengths of nylon 2" webbing can be ordered by the foot or in 150' or 300' rolls. Available in six colors.

Weight Keepers

| | |
|----------------------------------|-----------------------|
| 52130 Stainless steel, pack of 4 | |
| 54230 Black, Plastic | 54231 Blue, Plastic |
| 54232 Red, Plastic | 54233 Yellow, Plastic |
| 54238 Green, Plastic | 54239 Pink, Plastic |

Weight Belt Suspenders

| | |
|--------------|-------------|
| 54007 Black | 54008 Green |
| 54009 Orange | |

Kirby Morgan SuperLite® 17B Helmet



The fully tested SuperLite® 17B Commercial Diver's Helmet set the working standard for the commercial diving industry worldwide...

Many thousands of underwater hours have proved the design to be dependable, comfortable extremely rugged, and is Commercial Rated™. The SL-17B has been tested and certified to meet or exceed all requirements for all governing agencies. It is certified for use in diving operations worldwide.

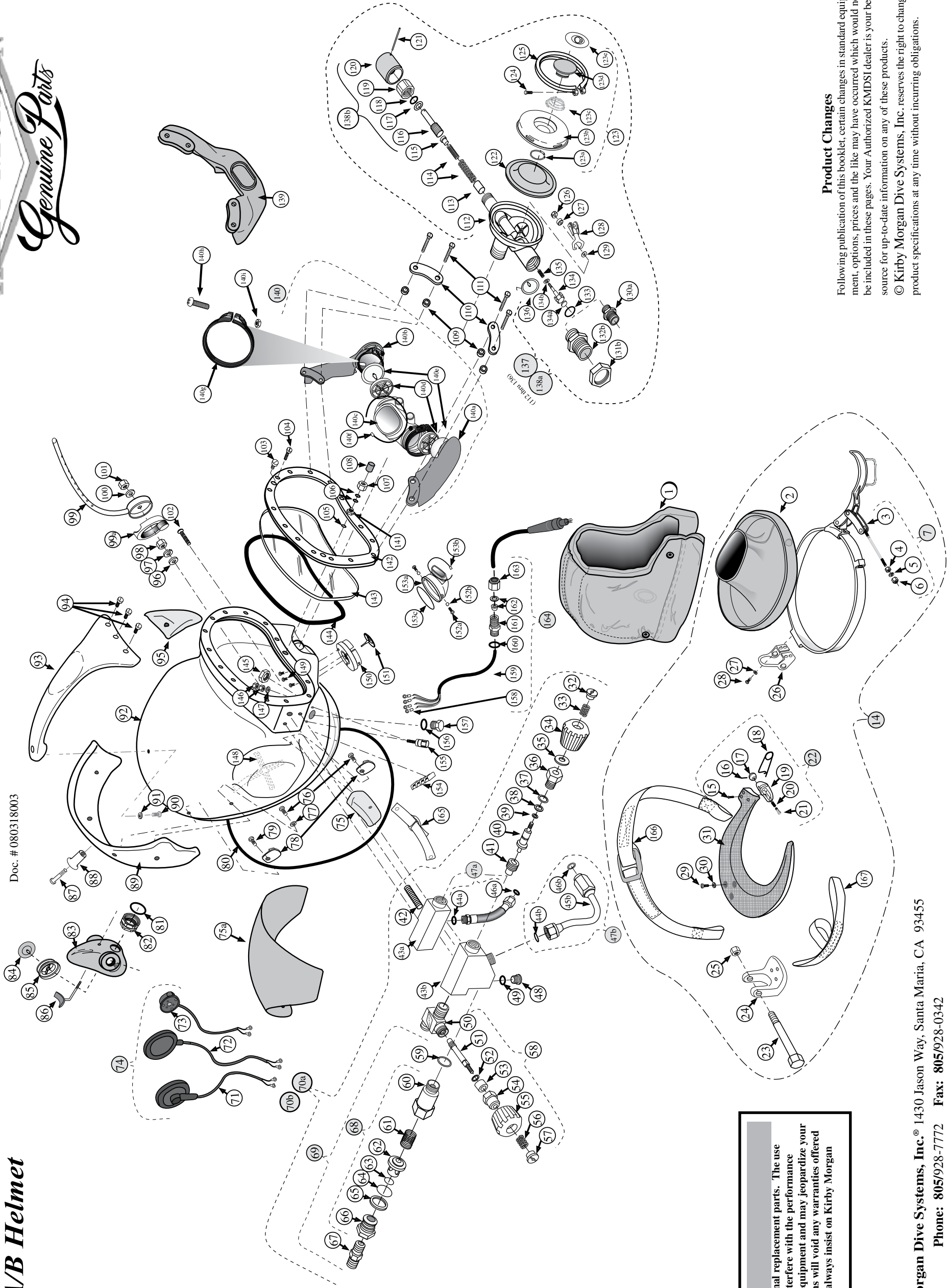
The helmet system consists of two pieces: the neck dam-yoke and the helmet. The diver slips on the angled neck dam with the attached yoke. The neck clamp is then slipped onto the helmet and locked. The locking system not only seals the neck dam to the helmet but also secures the front of the yoke.

The Kirby Morgan 17B also includes our Quad-Valve Exhaust System which retrofits to many of our helmets. It is recommended for diving in biologically contaminated water, when you're properly trained and qualified, using recommended procedures. This new exhaust has exceptionally low exhalation resistance that you must experience to appreciate. The new SL-17A/B Helmet Retainer™ (chin strap) along with the new SL-17 A/B Yoke Retainer™ (yoke strap) make it virtually impossible to have the hat come loose. These upgrades are standard on all new SL-17B helmets and will retrofit to all previous SL-17 A/B helmets.

The Side Block Assembly is standard in the B configuration, receiving the umbilical over the shoulder (17B as shown). The SuperLite-17B offers comprehensive head protection, an adjustable demand breathing system for gas economy, antiflooding features, rapid emplacement, a neck dam clamp that mechanically breaks a low-pressure lock, and a trim to fit angled neck dam which seats the helmet comfortably, especially when working in the face down position. The pull pin neck clamp release provides a system for prevention of accidental helmet removal.

SuperLite-17 A/B Helmet

Doc. # 080318003



CAUTION

Use only Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan original parts.

Product Changes

Following publication of this booklet, certain changes in standard equipment, options, prices and the like may have occurred which would not be included in these pages. Your Authorized KMDSI dealer is your best source for up-to-date information on any of these products.

© Kirby Morgan Dive Systems, Inc. reserves the right to change product specifications at any time without incurring obligations.



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SuperLite-17 A/B Helmet

| Location Number | Part No. | Description |
|-----------------|---------------------------------|---------------------------------|
| 1 | 510-521 | Head Cushion |
| | 510-523 | Replacement Foam |
| 2 | 510-533 | Drawstring Neck Dam |
| 3 | Neck Clamp (Order Comp. see #7) | |
| 4 | 530-317 | Nut |
| 5 | 530-415 | Washer |
| 6 | 530-320 | Nut, Lock |
| 7 | 505-055 | Neck Clamp Assembly |
| 8 - 13 | not used | |
| 14 | 505-008 | Neck Clamp Yoke Assembly Comp. |
| 15 | 530-066 | Screw |
| 16 | 530-601 | Retaining Pin |
| 17 | 550-255 | Knob |
| 18 | 535-900 | Safety Pin |
| 19 | 560-051 | Latch Catch Body |
| 20 | 535-808 | Spring |
| 21 | 550-257 | Plunger |
| 22 | 505-010 | Latch Catch Assem., Pull Pin |
| 23 | 530-034 | 17B Hinge Bolt, Electropolished |
| 24 | 560-026 | Hinge |
| 25 | 530-028 | Nut |
| 26 | 540-157 | Rear Hinge Tab, Electropolished |
| 27 | 530-406 | Washer |
| 28 | 530-025 | Screw |
| 29 | 530-080 | Screw |
| 30 | 530-530 | Washer |
| 31 | 520-117 | Urethane Yoke |
| | 520-060 | Fiberglass Yoke |
| 32 | 550-019 | Locknut |
| 33 | 535-802 | Spring |
| 34 | 520-524 | Knob, Control |
| 35 | 520-030 | Washer |
| 36 | 550-020 | Bonnet |
| 37 | 510-015 | O-Ring |
| 38 | 520-031 | Washer |
| 39 | 510-010 | O-Ring |
| 40 | 550-022 | Valve Stem |
| 41 | 550-023 | Seat Assembly |
| 42 | 550-024 | Stud |
| 43a | 550-026 | A Side Block |
| 43b | 550-029 | B Side Block |
| 44a | 510-011 | O-Ring |
| 44b | 520-033 | O-Ring (teflon) |
| 45b | 555-154 | Bent Tube Assembly |
| 46a | 510-010 | O-Ring |
| 46b | 510-012 | O-Ring |
| 47a | 555-152 | Reg. Hose Assem. w/O-Rings |
| 47b | 555-155 | Bent Tube Assem. w/O-Rings |
| 48 | 550-095 | L.P. Plug, w/O-ring |
| 49 | 310-003 | O-Ring |
| 50 | 550-140 | Emergency Valve Body |
| 51 | 550-138 | Stem |
| 52 | 540-095 | Washer |

| Location Number | Part No. | Description |
|-----------------|----------|--|
| 53 | 520-024 | Packing |
| 54 | 550-091 | Packing Nut |
| 55 | 520-525 | Knob, Control |
| 56 | 535-802 | Spring |
| 57 | 550-019 | Locknut |
| 58 | 505-070 | Emergency Valve Assembly |
| 59 | 510-483 | O-Ring |
| 60 | Body | |
| 61 | Spring | For Replacement Parts Order Kit #525-330 |
| 62 | Poppet | |
| 63 | O-Ring | |
| 64 | O-Ring | |
| 65 | Wiper | |
| 66 | Seat | |
| 67 | 555-117 | Adapter, Brass, 1/4" NPT/0 ₂ |
| 68 | 555-195 | One-Way Valve |
| 69 | 505-060 | One-Way Valve Assem. |
| 70a | 505-022 | "A" Side Block Assem. Complete |
| 70b | 505-024 | "B" Side Block Assem. Complete |
| 71 | 515-005 | Earphone Right |
| 72 | 515-006 | Earphone Left |
| | 510-542 | Earphone Cover set |
| | 515-008 | Speaker |
| | 520-015 | Speaker Protector |
| 73 | 515-009 | Microphone |
| 74 | 515-030 | Communications Set |
| 75 | 560-023 | Starboard Weight |
| 75a | 520-054 | Visor |
| 76 | 530-070 | Screw |
| 77 | 530-540 | Washer |
| 78 | 545-027 | Snap Tab |
| 79 | 530-078 | Screw |
| 80 | 510-446 | O-Ring |
| 81 | 510-211 | O-Ring |
| 82 | 550-038 | Nut, Regulator Mount |
| 83 | 510-690 | Mask, Oral/Nasal (silicone) |
| 84 | 510-550 | Valve, Oral/Nasal Intake |
| 85 | 520-020 | Body, Oral/Nasal Intake Valve |
| 86 | 545-015 | Nose Block device |
| | 510-575 | Nose Block Pad |
| 87 | 530-090 | Alignment Screw |
| 88 | 550-339 | Alignment Sleeve |
| 89 | 560-005 | Rear Weight |
| 90 | 530-070 | Screw |
| 91 | 530-540 | Washer |
| 92 | 520-065 | Helmet, Fiberglass |
| 93 | 560-014 | Handle |
| 94 | 530-040 | Screw |
| 95 | 560-019 | Port Weight |
| 96 | 530-535 | Washer |
| 97 | 530-415 | Washer |
| 98 | 530-317 | Nut |
| 99 | 545-016 | Air Train |

| Location Number | Part No. | Description |
|-----------------|----------|------------------------|
| 99a | 510-762 | Air Train Gasket |
| 100 | 530-535 | Washer |
| 101 | 530-317 | Nut |
| 102 | 530-050 | Screw |
| 103 | 530-052 | Screw, Port Plug Screw |
| 104 | 530-035 | Screw |
| 105 | 510-010 | O-Ring |
| 106 | 510-008 | O-Ring |
| 107 | 555-180 | Packing Nut |
| 108 | 550-062 | Knob, Nose Block |
| 109 | 550-061 | Spacer |
| 110 | 540-015 | Plate |
| 111 | 530-045 | Screw |
| 112 | 545-022 | Regulator Body |
| 113 | 550-060 | Piston |
| 114 | 535-807 | Spring Set |
| 115 | 550-059 | Spacer |
| 116 | 550-057 | Shaft |
| 117 | 520-032 | Washer |
| 118 | 510-011 | O-Ring |
| 119 | 550-055 | Packing Nut |
| 120 | 550-053 | Knob, Adjustment |
| 121 | 530-601 | Retaining Pin |
| 122 | 510-553 | Diaphragm |
| 123 | 545-018 | Cover Assembly |
| 123a | 535-905 | Retaining Clip |
| 123b | 540-055 | Cover |
| 123c | 535-810 | Spring, Purge Button |
| 123d | 520-017 | Purge Button |
| 123e | 520-077 | Purge Button Sticker |
| 124 | 530-030 | Screw |
| 125 | 545-020 | Clamp |
| 126 | 530-303 | Nut |
| 127 | 550-052 | Spacer |
| 128 | 545-038 | Roller Lever |
| 129 | 530-506 | Washer |
| 130a | 550-046 | Inlet Nipple "A" |
| 131b | 550-050 | Jam Nut "B" |
| 132b | 550-048 | Inlet Nipple "B" |
| 133 | 510-014 | O-Ring |
| 134 | 545-026 | Inlet Valve |
| 134a | 510-580 | Valve Seat |
| 134b | 530-505 | Washer |
| 135 | 535-804 | Spring |
| 136 | 510-552 | Exhaust Valve |
| 137 | 505-026 | Demand Reg. Assem. "A" |
| 138a | 505-027 | Demand Reg. Assem. "B" |

| Location Number | Part No. | Description |
|-----------------|----------|-------------------------------|
| 138b | 505-028 | Reg. Adjustment Knob Assem. |
| 139 | 510-554 | Whisker™, Rubber (Pre 2004) |
| 140 | 525-759 | Quad-Valve™ Exhaust |
| 140a | 510-767 | Port Whisker™ |
| 140b | 510-766 | Starboard Whisker™ |
| 140c | 510-761 | Tri-Valve™ Exhaust Main Body |
| 140d | 520-200 | Whisker™ Exhaust Valve Insert |
| 140e | 510-776 | Exhaust Valve |
| 140f | 520-042 | Tie Wrap |
| 140g | 520-118 | Tri/Quad Valve Whisker Clamp |
| 140h | 530-008 | Brass Screw |
| 140i | 530-009 | Brass Nut |
| 141 | 550-116 | Nose Block Guide |
| 142 | 560-070 | Port Ret. Assembly |
| 143 | 520-004 | Face Port |
| | 520-128 | Face Port, pre 1979 |
| 144 | 510-260 | O-Ring |
| 145 | 550-040 | Nut |
| 146 | 530-308 | Nut |
| 147 | 530-525 | Washer |
| 148 | 540-054 | Earphone Retainer |
| 149 | 530-032 | Screw |
| 150 | 550-063 | Exhaust Body |
| 151 | 510-561 | Exhaust Valve |
| 152 | 530-021 | Screw |
| 152a | 530-019 | Screw, Quad Exhaust |
| 152b | 510-007 | O-Ring, Quad Exhaust Screw |
| 153a | 560-530 | Exhaust Cover, Quad Exhaust |
| 153b | 520-042 | Tie Wrap, Quad Exhaust |
| 153c | 510-033 | O-Ring, Quad Exhaust |
| 154 | 515-061 | Terminal Block |
| 155 | 515-035 | Communications Post |
| 156 | 510-481 | O-Ring |
| 157 | 550-043 | Plug |
| 158 | 515-049 | Terminal |
| 159 | 515-045 | Waterproof Conn, Male |
| 160 | 510-481 | O-Ring |
| 161 | 555-175 | Packing Gland |
| 162 | 520-113 | Ferrule Set |
| 163 | 555-178 | Packing Nut |
| 164 | 505-047 | W.P. Connector Assembly |
| 165 | 505-130 | Chin Strap |
| 166 | 505-134 | Strap Guide |
| 167 | 505-138 | Yoke Strap |
| | 525-620 | Tool Kit (not shown) |



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Kirby Morgan SuperLite 17C Helmet



The SuperLite-17C Commercial Diver's Helmet represents a blending of years of design research with time proves, solid engineering. While this design was built primarily as a platform for the Gas Services UltraJewel 601 Gas Reclaim System, it is available from DSI with the standard SuperFlow® regulator and may be used in a standard open circuit diving mode.

The SuperLite 17C takes the best attributes of the SuperLite 17 A/B and adds the Helmet Neck Ring Design of the SuperLite 27. This allows for an evenly distributed weighting of the helmet without additional side & rear weights. The machined brass helmet ring houses the latch catches and provides protection for the bottom end of the helmet.

The helmet is equipped with an adjustable neck pad on the locking collar. This adjustment furnishes the diver with a comfortable, secure, custom tailored fit in the helmet.

Communications are available in a male four pin waterproof connection or bare wire posts.

The Side Block Assembly is configured to receive the umbilical over the shoulder of the diver (17-B).

The SuperLite 17C has all the time tested features that have made the U.S. Navy approved SuperLite 17 a worldwide industry standard, with the additional advantage of the new locking collar of the SuperLite 27.



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Kirby Morgan SuperLite 17C Helmet Cont. Specifications

Fiberglass and Carbon Fiber reinforced shell

The helmet shell itself is made of hand laid up glass fiber reinforced thermal setting polyester that is light and highly impact resistant, provides a heat/cold barrier and is an excellent electrical nonconductor. The laminate has carbon fiber reinforcement as key points for added durability while maintaining its light overall weight.

Adjustable Neck Pad

The adjustable neck pad is made from a scuff resistant elastomer which provides protection for the bottom of the helmet.

Latching Collar Latching System

The latch catches consist of two fluid filled, sealed pull pins which are pulled forward to release the neck collar and neck dam locking system. Even when the latches are released, the neck dam maintains a positive seal and will not allow the seal to be broken until the collar actually clears the diver's shoulders, thus preventing any flooding of the helmet.

Improved Head Cushion

The head cushion gives the helmet a secure, well balanced feel as well as excellent thermal protection during long work periods.

Silicone Oral Nasal Mask

Made from a superior silicone material which is hypo-allergenic and provides a longer work life than standard latex.

Neckdam Swing Catch

The Swing Catch rotates out of the way to allow the neckdam assembly to be unsealed from the helmet. This simplifies getting out of the helmet.

| Part No. | Description |
|----------|------------------------------|
| 510-631 | Latex Neck Dam (standard) |
| 510-628 | Neoprene Neck Dam (optional) |
| 525-100 | Hot Water Shroud |
| 525-403 | Welding Lens Assembly |

| Part No. | Description |
|----------|--|
| 500-600 | SuperLite 17C w/ Male Waterproof Conn. |
| 500-599 | SuperLite 17C w/ Bare Wire Posts |

(This configuration is not compatible with Ultra Jewel 601).

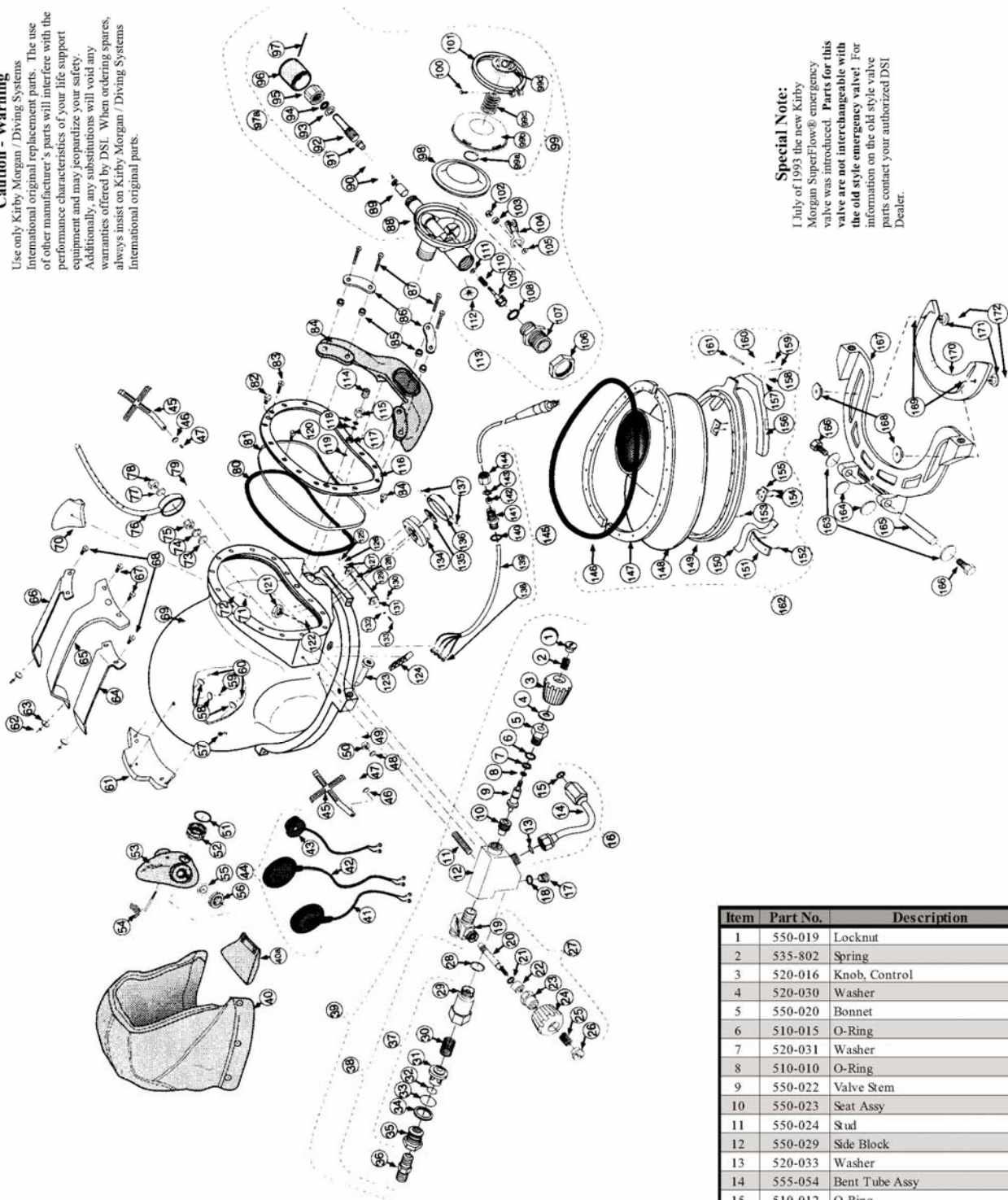
Kirby Morgan SuperLite 17C Helmet Cont.

Caution - Warning

Use only Kirby Morgan / Diving Systems International original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by DSI. When ordering spares, always insist on Kirby Morgan / Diving Systems International original parts.

Special Note:

July of 1993 the new Kirby Morgan SuperFlow® emergency valve was introduced. **Parts for this valve are not interchangeable with the old style emergency valve!** For information on the old style valve parts contact your authorized DSI Dealer.





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Kirby Morgan SuperLite 17C Helmet Cont.

| Item | Part No. | Description |
|------|----------|--------------------------------|
| 17 | 550-095 | L.P. Plug, w/ O-Ring |
| 18 | 310-003 | O-Ring |
| 19 | 550-140 | Emerg. Valve Body |
| 20 | 550-138 | Stem |
| 21 | 540-095 | Washer |
| 22 | 520-024 | Packing |
| 23 | 550-091 | Packing Nut |
| 24 | 520-025 | Knob, Control |
| 25 | 535-802 | Spring |
| 26 | 550-019 | Locknut |
| 27 | 505-070 | Emerg. Valve Assy |
| 28 | 510-483 | O-Ring |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | |
| 36 | 555-117 | Adapter, Brass, 1/4 NPT / o2 |
| 37 | 555-195 | One-Way Valve |
| 38 | 505-060 | One-Way Valve Assy |
| 39 | 505-024 | Side Block Assy Complete (B) |
| 40 | 510-682 | Head Cushion |
| | 510-654 | Head Cushion Bag |
| 40a | 510-683 | Chin Cushion |
| | 510-639 | Chin Cushion Bag |
| | 510-671 | Replacement Foam Kit |
| 41 | 515-005 | Earphone Right |
| 42 | 515-006 | Earphone Left |
| 43 | 515-009 | Microphone |
| 44 | 515-030 | Communications Set |
| 45 | 540-054 | Earphone Retainer |
| 46 | 530-527 | Washer |
| 47 | 530-018 | Screw |
| 48 | 530-519 | Washer |
| 49 | 530-018 | Screw |
| 50 | 530-702 | Snap |
| 51 | 510-211 | O-Ring |
| 52 | 550-038 | Nut, Regulator Mount |
| 53 | 510-690 | Oral Nasal Mask |
| 54 | 545-015 | Nose Block Device |
| | 510-575 | Nose Block Pad |
| 55 | 510-550 | Valve, Oral Nasal |
| 56 | 520-020 | Valve Body |
| 57 | 530-015 | Screw |
| 58 | 530-540 | Washer |
| 59 | 530-078 | Screw |
| 60 | 530-078 | Screw |
| 61 | 560-125 | Weight, Top Rear |
| 62 | 530-062 | Screw |
| 63 | 530-406 | Washer |
| 64 | 540-132 | Mount Bracket - Starboard Side |
| 65 | 540-133 | Handle |
| 66 | 540-130 | Mount Bracket - Port Side |
| 67 | 530-045 | Screw |

| Item | Part No. | Description |
|------|----------|----------------------------------|
| 68 | 530-040 | Screw |
| 69 | 505-106 | Helmet, Fiberglass w/ Ring |
| 70 | 560-086 | Weight, Port Side |
| 71 | 530-078 | Screw |
| 72 | 530-540 | Washer |
| 73 | 530-535 | Washer |
| 74 | 530-415 | Washer, Lock |
| 75 | 530-317 | Nut |
| 76 | 545-016 | Air Train |
| 77 | 530-535 | Washer |
| 78 | 530-317 | Nut |
| 79 | 530-050 | Screw |
| 80 | 510-260 | O-Ring |
| 81 | 520-004 | Face Port / Viewing Lens (Lexan) |
| 82 | 530-052 | Screw |
| 83 | 530-035 | Screw |
| 84 | 510-554 | Whicker, Rubber |
| 85 | 550-061 | Spacer |
| 86 | 640-015 | Plate |
| 87 | 530-045 | Screw |
| 88 | 545-022 | Regulator Body |
| 89 | 550-060 | Piston |
| 90 | 535-807 | Spring Set |
| 91 | 550-059 | Spacer |
| 92 | 550-057 | Shaft |
| 93 | 520-032 | Washer |
| 94 | 510-011 | O-Ring |
| 95 | 550-055 | Packing Nut |
| 96 | 550-053 | Knob, Adjustment |
| 97 | 530-601 | Retaining Pin |
| 97a | 505-028 | Reg. Adjustment Knob Assy |
| 98 | 510-553 | Diaphragm |
| 99 | 545-018 | Cover Assy |
| 99a | 535-905 | Retaining Clip |
| 99b | 540-055 | Cover |
| 99c | 535-610 | Spring |
| 99d | 520-017 | Purge Button |
| 100 | 530-030 | Screw |
| 101 | 545-020 | Clamp |
| 102 | 530-303 | Nut |
| 103 | 550-052 | Spacer |
| 104 | 545-038 | Roller Lever |
| 105 | 530-506 | Washer |
| 106 | 550-050 | Jam Nut |
| 107 | 550-048 | Inlet Nipple |
| 108 | 510-014 | O-Ring |
| 109 | 545-026 | Inlet Valve |
| 110 | 535-804 | Spring |
| 111 | 530-505 | Washer |
| 112 | 510-552 | Exhaust Valve |
| 113 | 505-027 | Demand Reg Assy |
| 114 | 550-068 | Knob, Nose Block |
| 115 | 555-180 | Packing Nut |
| 116 | 560-070 | Port Retainer |
| 117 | 550-116 | Nose Block Guide |
| 118 | 510-008 | O-Ring |

| Item | Part No. | Description |
|------|----------|-----------------------------|
| 119 | 510-010 | O-Ring |
| 120 | 530-035 | Screw |
| 121 | 550-040 | Nut |
| 122 | 530-035 | Screw |
| 123 | 505-110 | Sealed Pull Pin |
| 124 | 515-061 | Terminal Block |
| 125 | 530-035 | Screw |
| 126 | 530-546 | Washer |
| 127 | 550-061 | Spacer |
| 128 | 540-086 | Swing Tongue Catch |
| 129 | 520-167 | Washer |
| 130 | 530-032 | Screw |
| 131 | 535-825 | Spring |
| 132 | 550-122 | Spring Spacer |
| 133 | 530-045 | Screw |
| 134 | 550-063 | Exhaust Body |
| 135 | 510-561 | Exhaust Valve / Water Dump |
| 136 | 545-024 | Exhaust Cover |
| 137 | 530-021 | Screw |
| 138 | 515-049 | Terminal |
| 139 | 515-045 | Waterproof Conn, Male |
| 140 | 510-481 | O-Ring |
| 141 | 555-175 | Packing Gland |
| 142 | 520-035 | Ferrule, Front |
| 143 | 520-036 | Ferrule, Back |
| 144 | 555-178 | Packing Nut |
| 145 | 505-047 | W.P. Connector Assy |
| 146 | 510-450 | O-Ring |
| 147 | 540-105 | Split Ring (2 required) |
| 148 | 510-631 | Neck Dam, Latex (medium) |
| | 510-628 | Neck Dam, Neoprene (medium) |
| 149 | 560-078 | Stepped Ring |
| 150 | 530-808 | Pull Strap |
| 151 | 540-115 | Strap Plate |
| 152 | 530-220 | Screw |
| 153 | 530-024 | Screw |
| 154 | 530-022 | Screw |
| 155 | 540-056 | Catch, Front Yoke |
| 156 | 520-012 | Front Yoke |
| 157 | 530-606 | Cotter Pin |
| 158 | 530-515 | Washer |
| 159 | 530-022 | Screw |
| 160 | 550-216 | Front Yoke Hinge Block |
| 161 | 550-219 | Pin |
| 162 | 505-101 | Neck Ring Assy (latex) |
| 163 | 530-545 | Washer |
| 164 | 520-165 | Washer |
| 165 | 550-275 | Hinge Pin |
| 166 | 530-200 | Bolt |
| 167 | 560-128 | Locking Collar |
| 168 | 550-113 | Adjustment Nut |
| 169 | 530-547 | Washer |
| 170 | 520-098 | Neck Pad |
| 171 | 550-045 | T-Nut |
| 172 | 530-064 | Screw |

Kirby Morgan SuperLite 27 Helmet



The SuperLite® 27 is the product of years of research and testing. Its design gives the working diver a reliable, and extremely comfortable helmet...

Constant research and monitoring of the industry's needs have helped KMDSI develop products that make the commercial diver's job safer, easier and more productive. Following in this tradition of helmet design is the fully tested Kirby Morgan SuperLite® 27 diving helmet.

The SuperFlow 350 regulator used on the SuperLite 27 provides outstanding performance. It features a diver adjustable system so that the regulator can be "tuned" during the dive according to your workload. This adjustment also allows you to set the regulator as the supply pressure varies, which is especially important when working with a low-pressure compressor.

The Tri-Valve Exhaust System helps to keep the breathing system exceptionally dry under all conditions, without increasing the breathing resistance of the helmet. In addition, the helmet is also equipped with a separate Water Dump valve which is mounted on the left side.

The helmet neck ring design, first produced in 1992, allows for evenly distribute weighting of the helmet. The chrome plated machined brass helmet ring houses the latch catches and provides protection for the bottom end of the helmet. The diver is also provided with an externally adjustable chin support. This support, along with the adjustable neck pad on the locking collar, gives the diver a comfortable, secure, custom fit.

The SuperLite® 27 is Commercial Rated™ and has been tested and certified to meet or exceed all requirements for all governing agencies. It is certified for use in all diving operations worldwide.

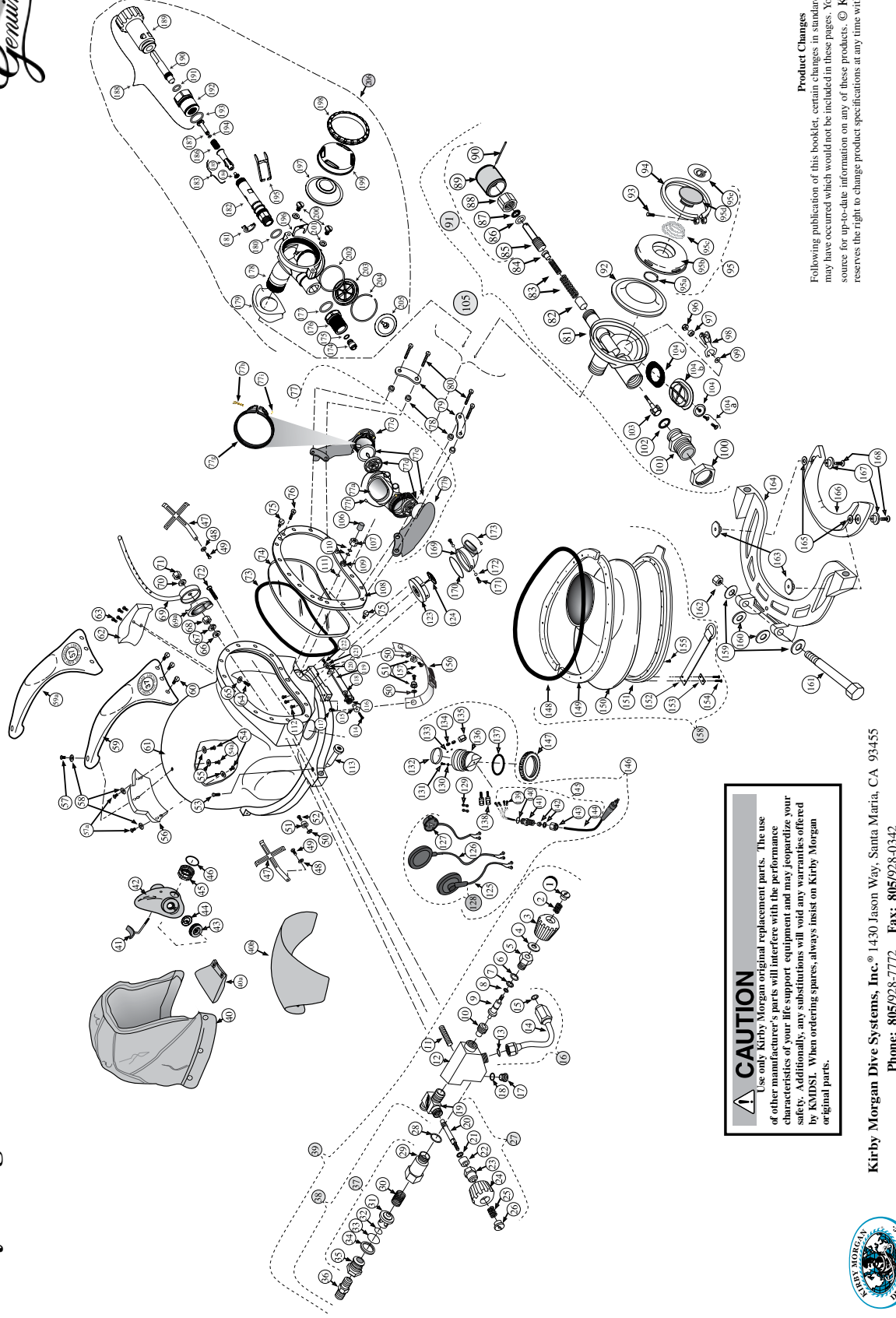
Kirby Morgan 37 Helmet



The Kirby Morgan® 37 is similar to the SuperLite 27 but with a larger shell. It also includes our Quad-Valve™ Exhaust System.

The Kirby Morgan 37 Diving Helmet continues with our long tradition of providing the highest quality, and superior performance, that divers have come to expect in a Kirby Morgan product. The new Quad-Valve™ exhaust system, which retrofits to most previous Kirby Morgan Helmets, has less breathing resistance than the older single valve exhaust while providing an extremely dry hat. This system is recommended for diving in biologically contaminated water. Our SuperFlow® regulator is a proven design that provides excellent breathing characteristics over a wide range of depths. The Kirby Morgan 37 is one of the most popular designs in the world. It's considered the standard of the commercial diving industry. Choose the Kirby Morgan 37 if you want a rugged diving helmet with a traditional design.

Kirby Morgan 37 and 57 Helmet



CAUTION

Use only Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan original parts.

Product Changes

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Kirby Morgan 37-57 Helmet

| Location Number | Order No. | Description | Location Number | Order No. | Description |
|-----------------|-----------|---------------------------------------|-----------------|-----------|------------------------------|
| 1 | 550-019 | Locknut | 57a | 530-078 | Screw |
| 2 | 555-802 | Spring | 58 | 530-527 | Washer |
| 3 | 520-524 | Knob, Control | 59 | 560-194 | Handle 37 |
| 4 | 520-030 | Washer | 59a | 560-535 | Handle 57 |
| 5 | 550-020 | Bonnet | 60 | 530-045 | Screw |
| 6 | 510-015 | O-Ring | 61 | 505-107 | Helmet, Fiberglass w/Ring |
| 7 | 520-031 | Washer | 62 | 560-032 | Weight, Port Side |
| 8 | 510-010 | O-Ring | 63 | 530-062 | Screw |
| 9 | 550-022 | Valve Stem | 64 | 530-070 | Screw |
| 10 | 550-023 | Seat Assembly | 65 | 530-540 | Washer |
| 11 | 550-024 | Stud | 66 | 530-535 | Washer |
| 12 | 550-029 | Side Block | 67 | 530-415 | Washer, Lock |
| 13 | 520-033 | O-Ring, Teflon | 68 | 530-317 | Nut |
| 14 | 555-154 | Bent tube Assembly | 69 | 545-016 | Air Train |
| 15 | 510-012 | O-Ring | 69a | 510-762 | Air Train Gasket |
| 16 | 555-155 | Bent Tube Assen w/O-Rings | 70 | 530-535 | Washer |
| 17 | 550-095 | L. P. Plug, w/O-ring | 71 | 530-317 | Nut |
| 18 | 310-003 | O-Ring | 72 | 530-050 | Screw |
| 19 | 550-140 | Emergency Valve Body | 73 | 510-260 | O-Ring |
| 20 | 550-138 | Stem | 74 | 520-004 | Face Port/Lens |
| 21 | 540-095 | Washer | 75 | 530-052 | Screw |
| 22 | 520-024 | Packing Nut | 76 | 530-035 | Screw |
| 23 | 550-091 | Packing Nut | 77 | 525-759 | Quad-Valve Exhaust Kit |
| 24 | 520-525 | Knob, Control | 77a | 510-761 | Exhaust Main Body |
| 25 | 535-802 | Spring | 77b | 510-766 | Starboard Whisker |
| 26 | 550-019 | Locknut | 77c | 510-767 | Port Whisker |
| 27 | 505-070 | Emergency Valve Assembly | 77d | 520-200 | Whisker Exhaust Valve Insert |
| 28 | 510-483 | O-Ring | 77e | 510-776 | Exhaust Valve |
| 29 | Body | For Replacement Parts Order Loc. # 37 | 77f | 520-042 | Tie Wrap |
| 30 | Spring | Complete Order Loc. # 37 | 77g | 520-118 | Tri/Quad Valve Whisker Clamp |
| 31 | Poppet | | 77h | 530-008 | Brass Screw |
| 32 | O-Ring | | 77i | 530-009 | Brass Nut |
| 33 | O-Ring | | 78 | 550-061 | Spacer |
| 34 | Wiper | | 79 | 540-015 | Plate |
| 35 | Seat | | 80 | 530-045 | Screw |
| 36 | 555-117 | Adapter, Brass, 1/4" NPT/1/2" | 81 | 545-080 | Regulator Body |
| 37 | 555-195 | One-Way Valve | 82 | 550-060 | Piston |
| 38 | 505-060 | One-Way Valve Assembly | 83 | 535-807 | Spring Set |
| 39 | 505-024 | Side Block Assembly (B) | 84 | 550-059 | Spacer |
| 40 | 510-682 | Head Cushion | 85 | 550-057 | Shaft |
| 40a | 510-654 | Head Cushion Bag | 86 | 520-032 | Washer |
| | 510-683 | Chin Cushion | 87 | 510-011 | O-Ring |
| | 510-639 | Chin Cushion Bag | 88 | 550-055 | Packing Nut |
| | 510-672 | Replacement Foam Kit | 89 | 550-053 | Knob, Adjustment |
| 40b | 520-054 | Visor | 90 | 530-601 | Retaining Pin |
| 41 | 545-015 | Nose Block Device | 91 | 505-028 | Reg. Adjustment Knob Assm |
| 42 | 510-575 | Nose Block Pad | 92 | 510-553 | Diaphragm |
| 43 | 510-690 | Oral Nasal Mask | 93 | 530-030 | Screw |
| 44 | 520-020 | Valve Body | 94 | 545-020 | Clamp |
| 45 | 510-550 | Valve, Oral Nasal | 95 | 545-018 | Cover Assembly |
| 45a | 550-081 | Nut, Regulator Mount | 95a | 535-905 | Retaining Clip |
| 46 | 510-490 | O-Ring | 95b | 540-055 | Spring |
| 47 | 540-054 | Earphone Retainer | 95c | 535-810 | Spring, Purge Button |
| 48 | 530-527 | Washer | 95d | 520-017 | Purge Button |
| 49 | 530-018 | Screw | 95e | 520-078 | Purge Button Sticker |
| 50 | 530-519 | Washer | 96 | 530-303 | Nut |
| 51 | 530-702 | Snub | 97 | 550-052 | Spacer |
| 52 | 530-018 | Screw | 98 | 545-038 | Roller Lever |
| 53 | 530-015 | Screw | 99 | 530-506 | Washer |
| 54 | 530-078 | Screw | 100 | 550-050 | Jam Nut |
| 54a | 530-070 | Screw | 101 | 550-048 | Inlet Nipple |
| 55 | 530-540 | Washer | 102 | 510-014 | O-Ring |
| 56 | 560-125 | Weight, Top | 103 | 545-026 | Inlet Valve |
| 57 | 530-070 | Screw | 104 | 510-552 | Exhaust Valve |

| Location Number | Order No. | Description | Location Number | Order No. | Description |
|-----------------|-----------|--|-----------------|-----------|----------------------------|
| 104a | 530-020 | Screw | 140 | 510-481 | O-Ring |
| 104b | 540-122 | Exhaust Flange, Chrome | 141 | 555-175 | Packing Gland |
| 104c | 510-401 | Gasket | 142 | 520-113 | Female Set |
| 105 | 505-069 | Demand Reg. Assembly, 37 | 143 | 555-178 | Packing Nut |
| 106 | 550-062 | Knob, Nose Block | 144 | 515-045 | Waterproof Conn. Male |
| 107 | 555-180 | Packing Nut | 145 | 505-047 | W.P. Connector Assembly |
| 108 | 560-070 | Port Retainer, w/#109 | 146 | 515-023 | Conn Assembly w/Posts |
| 109 | 550-116 | Nose Block Guide | 147 | 515-024 | Conn Assembly w/W.P. Conn. |
| 110 | 510-008 | O-Ring | 148 | 510-450 | Conn Mount Nut |
| 111 | 510-010 | O-Ring | 149 | 540-105 | O-Ring |
| 112 | 530-032 | Screw | 150 | 510-628 | Split Ring (2 Required) |
| 113 | 505-110 | Sealed Pull Pin | 151 | 510-631 | Neck Dam, Latex (med) |
| 114 | 530-045 | Screw | 152 | 505-142 | Stepped Ring |
| 115 | 550-122 | Spring Spacer | 153 | 540-115 | Pull Strap Assembly |
| 116 | 535-825 | Spring | 154 | 530-220 | Screw |
| 117 | 530-032 | Screw | 155 | 530-024 | Screw |
| 118 | 520-167 | Washer | 156 | 505-111 | Chin Strap Assembly |
| 119 | 540-086 | Swing Tongue Catch | 157 | 530-031 | Screw |
| 120 | 550-061 | Spacer | 158 | 505-119 | Neck Ring Assembly (neop.) |
| 121 | 530-546 | Washer | 159 | 530-545 | Washer |
| 122 | 530-035 | Exhaust Body | 160 | 520-165 | Washer |
| 123 | 550-063 | Exhaust Valve/Water Dump | 161 | 530-027 | Hinge Bolt |
| 124 | 510-561 | Earphone Right | 162 | 530-028 | Nut |
| 125 | 515-019 | Earphone Left | 163 | 550-111 | Adjustment Nut |
| 126 | 510-542 | Earphone Cover set | 164 | 560-111 | Locking Collar |
| | 515-008 | Speaker | 165 | 530-547 | Washer |
| | 520-015 | Speaker Protector | 166 | 520-098 | Neck Pad w/#168 (2) |
| 127 | 515-029 | Microphone | 167 | 550-045 | T-Washer |
| 128 | 515-033 | Communications Set | 168 | 530-064 | Screw |
| 129 | 515-055 | Wiring Harness | 169 | 560-530 | Quad Exhaust Cover |
| 130 | 330-035 | Washer | 170 | 510-033 | O-Ring |
| 131 | 330-030 | Screw | 171 | 530-019 | Screw |
| 132 | 510-630 | Rubber Cover | 172 | 510-007 | O-Ring |
| 133 | 530-525 | Washer | 173 | 520-042 | Tie Wrap |
| 134 | 530-308 | Nut | | | |
| 135 | 550-040 | Mount Nut | | | |
| 136 | 520-130 | Conn Module drilled for Posts | | | |
| 137 | 520-132 | Conn Module drilled for W.P. Conn/Male | | | |
| 138 | 315-020 | O-Ring | | | |
| 139 | 515-049 | Communications Post | | | |
| | | Terminal | | | |

**CAUTION**

Use only Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan original parts.

*** Note: 1**
Location # 179 P/N 510-781 Spacer, for KM 57 Helmet

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Kirby Morgan 47 Helmet



The Kirby Morgan 47 has an entirely new breathing system, oral nasal mask, and water ejection system...

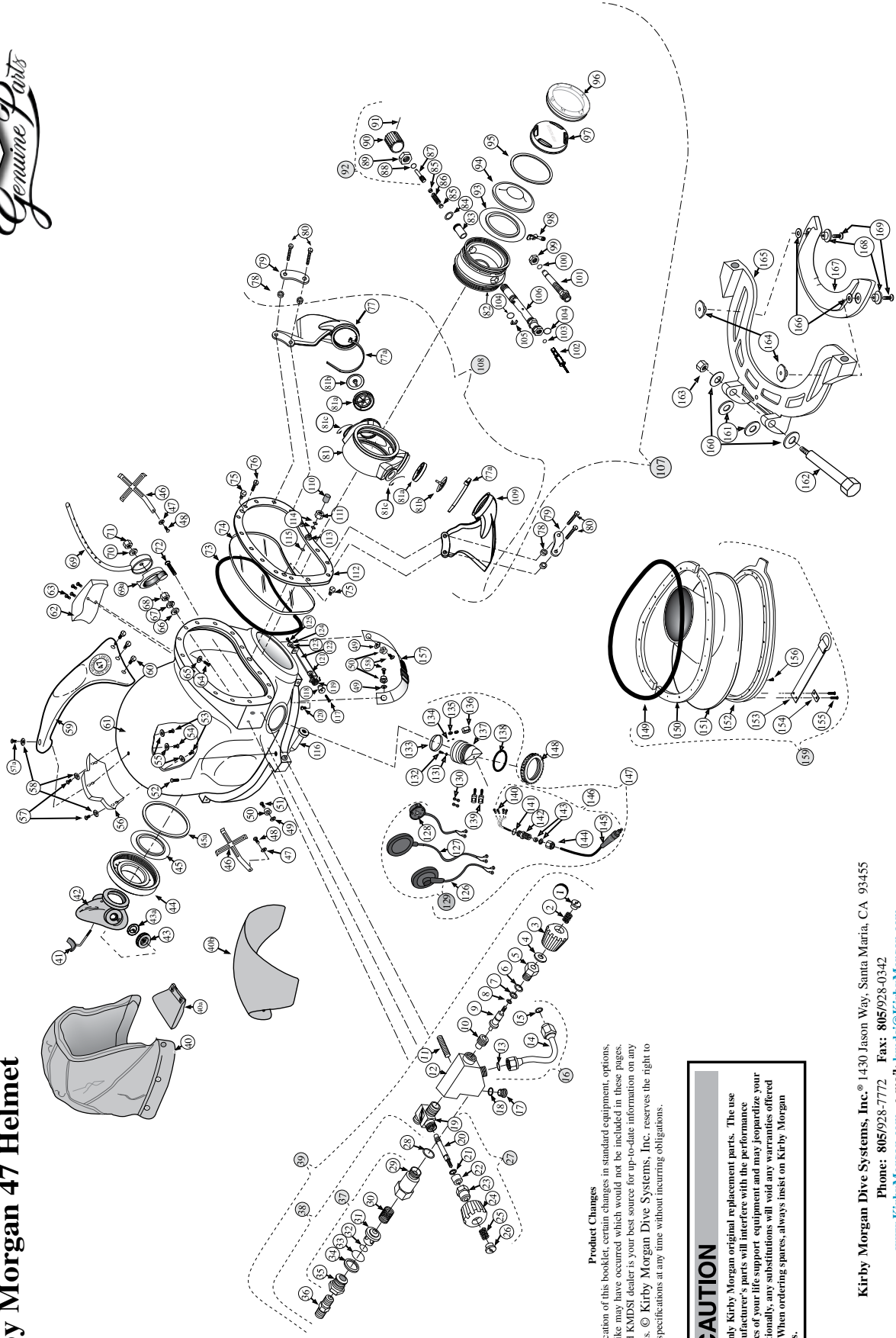
The Rex® Remand Valve (patents pending), with its fully adjustable balanced piston is a breakthrough design that exceeds the requirements of all government or other testing agencies. It has the best work-of-breathing performance when compared to ANY other commercial diving helmet. The Kirby Morgan 47 Dive Helmet has been tested and meets or exceeds European CE requirements and is fully commercially rated.

The Kirby Morgan 47 consists of two major assemblies: the helmet shell/helmet ring assembly and the neck dam/neck ring assembly. The chrome plated, machined brass helmet ring houses the latch catches and provides protection for the bottom end of the helmet. This assembly also provides the foundation for an externally adjustable chin support. This support, along with the adjustable neck pad on the locking collar, gives the diver a secure, custom fit. The balance and comfort of this helmet is unsurpassed, even when the diver must work for long periods in the face down position.

The Kirby Morgan 47 features a quick change communications, available with either bare wire posts or a waterproof connector, and allows for easy, efficient maintenance of the helmet's communications.



Kirby Morgan 47 Helmet



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Kirby Morgan 47 Helmet

| Location Number | Order No. | Description | Location Number | Order No. | Description |
|-----------------|-----------|---|-----------------|-----------|-----------------------------------|
| 1 | 550-019 | Locknut | 57 | 530-078 | Screw |
| 2 | 535-802 | Spring | 57a | 530-070 | Screw |
| 3 | 520-524 | Knob, Control | 58 | 530-527 | Washer |
| 4 | 520-030 | Washer | 59 | 560-186 | Handle |
| 5 | 520-020 | Bonnet | 60 | 530-045 | Screw |
| 6 | 510-015 | O-Ring | 61 | 505-162 | Helmet, Fiberglass w/Ring |
| 7 | 520-031 | Washer | 62 | 560-032 | Weight, Port Side |
| 8 | 510-010 | O-Ring | 63 | 530-062 | Screw |
| 9 | 550-022 | Valve Stem | 64 | 530-070 | Screw |
| 10 | 550-023 | Seat Assembly | 65 | 530-540 | Washer |
| 11 | 550-024 | Stud | 66 | 530-535 | Washer |
| 12 | 550-029 | Side Block | 67 | 530-415 | Washer, Lock |
| 13 | 520-033 | O-Ring, Teflon | 68 | 530-317 | Nut |
| 14 | 555-167 | Bent tube Assembly | 69 | 545-016 | Air Train |
| 15 | 510-012 | O-Ring | 69a | 510-762 | Air Train Gasket |
| 16 | 555-168 | Bent Tube Assem w/O-Rings | 70 | 530-535 | Washer |
| 17 | 550-095 | L. P. Plug, w/O-ring | 71 | 530-317 | Nut |
| 18 | 310-003 | O-Ring | 72 | 530-050 | Screw |
| 19 | 550-140 | Emergency Valve Body | 73 | 510-260 | O-Ring |
| 20 | 550-138 | Stem | 74 | 520-004 | Face Port/ Lens |
| 21 | 540-095 | Washer | 75 | 530-052 | Screw |
| 22 | 520-024 | Packing | 76 | 530-035 | Screw |
| 23 | 550-091 | Packing Nut | 77 | 510-785 | Port Whisker Wing, Rex |
| 24 | 520-525 | Knob, Control | 77a | 520-042 | 11" Tie Wrap |
| 25 | 535-802 | Spring | 78 | 550-061 | Spacer |
| 26 | 550-019 | Locknut | 79 | 540-015 | Plate |
| 27 | 505-070 | Emergency Valve Assembly | 80 | 530-045 | Screw |
| 28 | 510-483 | O-Ring | 81 | 510-783 | Exhaust Whisker |
| 29 | Body | | 81a | 520-200 | Valve Seat |
| 30 | Spring | For Replacement | 81b | 510-776 | Exhaust Valve |
| 31 | Poppet | Parts | 81c | 520-038 | Tie wrap |
| 32 | O-Ring | Complete | 82 | 560-514 | Regulator Body |
| 33 | O-Ring | see Order | 83 | 350-035 | Sleeve |
| 34 | Wiper | Loc. # 37 | 84 | 510-015 | O-Ring |
| 35 | Seat | #625-330 | 85 | 350-065 | Spacer |
| 36 | 555-117 | Adapter, Brass, 1/4" NPT/0 ₂ | 86 | 535-910 | Spring |
| 37 | 555-195 | One-Way Valve | 87 | 350-052 | Shaft, Adjustment |
| 38 | 505-060 | One-Way Valve Assembly | 88 | 510-011 | O-Ring |
| 39 | 505-024 | Side Block Assembly (B) | 89 | 350-025 | Packing Nut |
| 40 | 510-682 | Head Cushion | 90 | 320-035 | Knob, Adjustment |
| 40a | 510-683 | Head Cushion Bag | 91 | 530-601 | Roll Pin |
| | 510-639 | Chin Cushion | 92 | 305-045 | Reg Adjustment Assembly |
| | 510-672 | Replacement Foam Kit | 93 | 310-065 | Exhaust Valve |
| 40b | 520-054 | Visor | 94 | 510-553 | Diaphragm |
| 41 | 545-015 | Nose Block Device | 95 | 320-030 | Washer |
| 42 | 510-575 | Nose Block Pad | 96 | 550-042 | Cover Retaining Ring |
| 42 | 510-743 | Oral Nasal Mask | 97 | 510-006 | Cover |
| 43 | 520-020 | Valve Body | 98 | 545-038 | Roller Lever |
| 43a | 510-550 | Valve, Oral Nasal | 99 | 550-560 | Nut, Adjustment Lock |
| 44 | 550-372 | Nut, Regulator Mount | 100 | 310-007 | O-Ring |
| 45 | 510-741 | Valve, Water Dump | 101 | 550-542 | Nipple Tube REX |
| 45a | 320-040 | Regulator Mount Washer | 102 | 305-057 | Inlet Valve Assembly, EXO-BR, Rex |
| 46 | 540-054 | Earphone Retainer | 103 | 310-006 | O-Ring |
| 47 | 530-527 | Washer | 104 | 310-013 | O-Ring |
| 48 | 530-018 | Screw | 105 | 340-004 | Horseshoe |
| 49 | 530-519 | Washer | 106 | 350-032 | Main Tube |
| 50 | 530-702 | Snap | 107 | 505-278 | Regulator Assembly |
| 51 | 530-018 | Screw | 108 | 525-764 | REX Whisker Wing Exhaust |
| 52 | 530-015 | Screw | 109 | 510-784 | Kit |
| 53 | 530-078 | Screw | | | Starboard Whisker Wing, Rex |
| 54 | 530-070 | Screw | | | |
| 55 | 530-540 | Washer | | | |
| 56 | 560-125 | Weight, Top | | | |

| Location Number | Order No. | Description |
|-----------------|-----------|----------------------------|
| 138 | 510-029 | O-Ring |
| 139 | 315-020 | Communications Post |
| 140 | 515-049 | Terminal |
| 141 | 510-481 | O-Ring |
| 142 | 555-175 | Packing Gland |
| 143 | 520-113 | Ferrule Set |
| 144 | 555-178 | Packing Nut |
| 145 | 515-045 | Waterproof Conn, Male |
| 146 | 505-047 | W.P. Connector Assembly |
| 147 | 515-023 | Comm Assembly w/Posts |
| 148 | 515-024 | Comm Assembly w/W.P. Conn. |
| 149 | 320-026 | Comm Mount Nut |
| 150 | 510-450 | O-Ring |
| 151 | 540-105 | Split Ring, (2 Required) |
| 152 | 510-628 | Neck Dam, Neoprene (med) |
| 153 | 510-631 | Neck Dam, Latex (med) |
| 154 | 560-078 | Stepped Ring |
| 155 | 505-142 | Pull Strap Assembly |
| 156 | 540-115 | Strap Plate |
| 157 | 530-220 | Screw |
| 158 | 530-024 | Screw |
| 159 | 505-111 | Chin Strap Assembly |
| 160 | 530-031 | Screw |
| 161 | 530-031 | Screw |
| 162 | 530-028 | SS Nut |
| 163 | 530-028 | SS Nut |
| 164 | 550-113 | Adjustment Nut |
| 165 | 560-111 | Locking Collar |
| 166 | 530-547 | Washer |
| 167 | 520-098 | Neck Pad w/#165 (2) |
| 168 | 550-045 | T-Washer |
| 169 | 530-064 | Screw |

* CAN ONLY BE REPAIRED BY A TRAINED TECHNICIAN.



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Kirby Morgan 57 Helmet

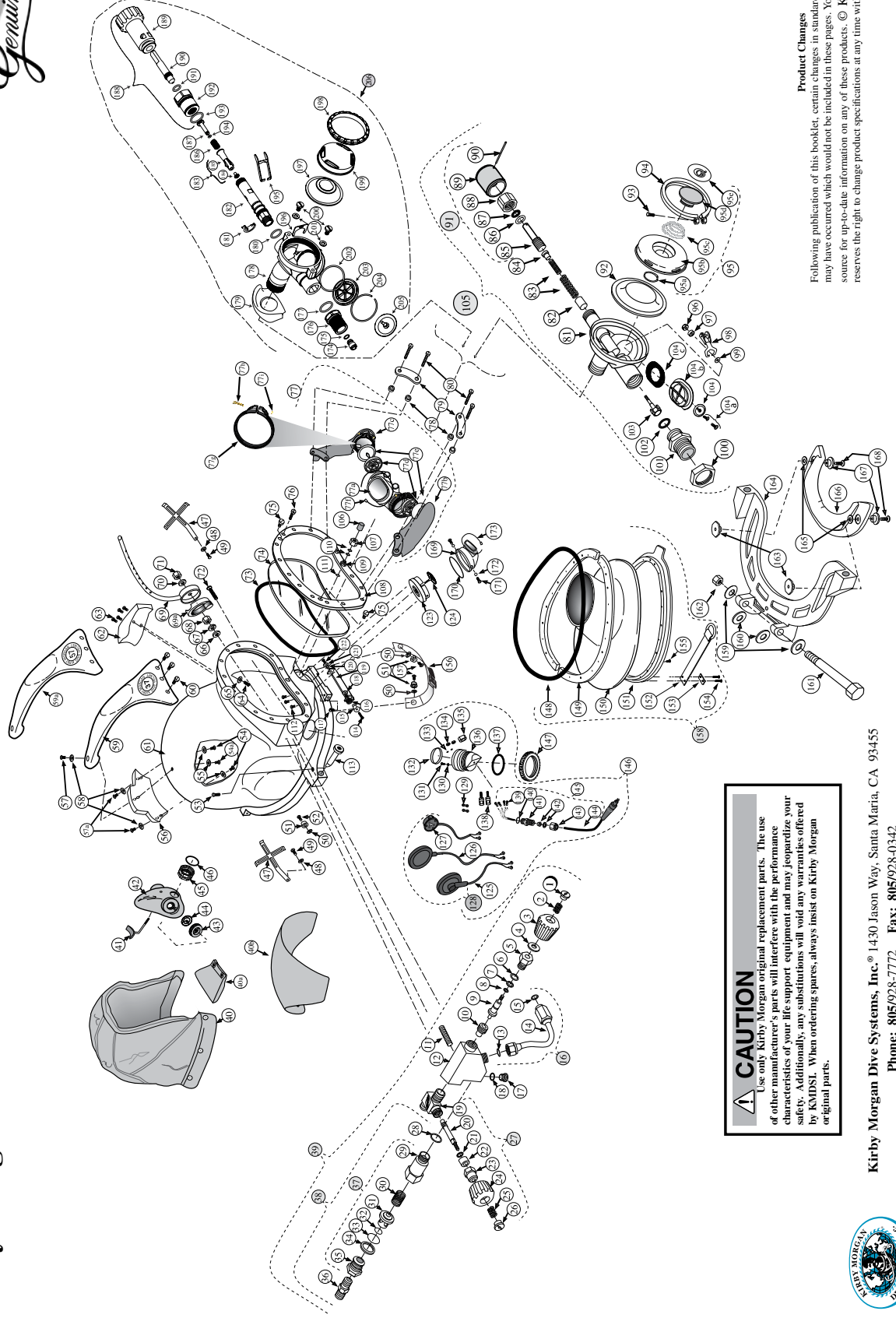


The Kirby Morgan 57 features our revolutionary new SuperFlow 450™ Stainless Balanced Regulator...

The Kirby Morgan 57 Diving Helmet continues the tradition of innovation, providing the highest quality and superior performance that divers have come to expect in a Kirby Morgan product. This helmet features our revolutionary new SuperFlow 450™ Stainless Steel Balanced Regulator. It's machine from a stainless steel casting for the ultimate in performance and reliability. This commercially rated regulator delivers all the breathing gas you need for the most demanding work underwater.

The Kirby Morgan 57 also includes our Quad-Valve™ Exhaust System. It's recommended for diving in biologically contaminated water, when you're properly trained and equipped, using recommended procedures. This new exhaust has exceptionally low exhalation resistance that you must experience to appreciate. Don't confuse the Super-Flow® 450 with a sport diving regulator – it's designed from the ground up strictly for commercial diving. With a rugged extra long adjustment knob and shaft, the SuperFlow® 450 meets the wide range of breathing gas pressures provided by typical low pressure surface-supplied diving compressors. Dive the Kirby Morgan 57 helmet once and you won't want to dive with anything else again.

Kirby Morgan 37 and 57 Helmet



CAUTION

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Kirby Morgan 37-57 Helmet

| Location Number | Order No. | Description | Location Number | Order No. | Description |
|-----------------|-----------|---------------------------------------|-----------------|-----------|------------------------------|
| 1 | 550-019 | Locknut | 57a | 530-078 | Screw |
| 2 | 555-802 | Spring | 58 | 530-527 | Washer |
| 3 | 520-524 | Knob, Control | 59 | 560-194 | Handle 37 |
| 4 | 520-030 | Washer | 59a | 560-535 | Handle 57 |
| 5 | 550-020 | Bonnet | 60 | 530-045 | Screw |
| 6 | 510-015 | O-Ring | 61 | 505-107 | Helmet, Fiberglass w/Ring |
| 7 | 520-031 | Washer | 62 | 560-032 | Weight, Port Side |
| 8 | 510-010 | O-Ring | 63 | 530-062 | Screw |
| 9 | 550-022 | Valve Stem | 64 | 530-070 | Screw |
| 10 | 550-023 | Seat Assembly | 65 | 530-540 | Washer |
| 11 | 550-024 | Stud | 66 | 530-535 | Washer |
| 12 | 550-029 | Side Block | 67 | 530-415 | Washer, Lock |
| 13 | 520-033 | O-Ring, Teflon | 68 | 530-317 | Nut |
| 14 | 555-154 | Bent tube Assembly | 69 | 545-016 | Air Train |
| 15 | 510-012 | O-Ring | 69a | 510-762 | Air Train Gasket |
| 16 | 555-155 | Bent Tube Assm w/O-Rings | 70 | 530-535 | Washer |
| 17 | 550-095 | L. P. Plug, w/O-ring | 71 | 530-317 | Nut |
| 18 | 310-003 | O-Ring | 72 | 530-050 | Screw |
| 19 | 550-140 | Emergency Valve Body | 73 | 510-260 | O-Ring |
| 20 | 550-138 | Stem | 74 | 520-004 | Face Port/Lens |
| 21 | 540-095 | Washer | 75 | 530-052 | Screw |
| 22 | 520-024 | Packing Nut | 76 | 530-035 | Screw |
| 23 | 550-091 | Packing Nut | 77 | 525-759 | Quad-Valve Exhaust Kit |
| 24 | 520-525 | Knob, Control | 77a | 510-761 | Exhaust Main Body |
| 25 | 535-802 | Spring | 77b | 510-766 | Starboard Whisker |
| 26 | 550-019 | Locknut | 77c | 510-767 | Port Whisker |
| 27 | 505-070 | Emergency Valve Assembly | 77d | 520-200 | Whisker Exhaust Valve Insert |
| 28 | 510-483 | O-Ring | 77e | 510-776 | Exhaust Valve |
| 29 | Body | For Replacement Parts Order Loc. # 37 | 77f | 520-042 | Tie Wrap |
| 30 | Spring | Complete Order Loc. # 37 | 77g | 520-118 | Tri/Quad Valve Whisker Clamp |
| 31 | Poppet | | 77h | 530-008 | Brass Screw |
| 32 | O-Ring | | 77i | 530-009 | Brass Nut |
| 33 | O-Ring | | 78 | 550-061 | Spacer |
| 34 | Wiper | | 79 | 540-015 | Plate |
| 35 | Seat | | 80 | 530-045 | Screw |
| 36 | 555-117 | Adapter, Brass, 1/4" NPT/1/2 | 81 | 545-080 | Regulator Body |
| 37 | 555-195 | One-Way Valve | 82 | 550-060 | Piston |
| 38 | 505-060 | One-Way Valve Assembly | 83 | 535-807 | Spring Set |
| 39 | 505-024 | Side Block Assembly (B) | 84 | 550-059 | Spacer |
| 40 | 510-682 | Head Cushion | 85 | 550-057 | Shaft |
| 40a | 510-654 | Head Cushion Bag | 86 | 520-032 | Washer |
| | 510-683 | Chin Cushion | 87 | 510-011 | O-Ring |
| | 510-639 | Chin Cushion Bag | 88 | 550-055 | Packing Nut |
| | 510-672 | Replacement Foam Kit | 89 | 550-053 | Knob, Adjustment |
| 40b | 520-054 | Visor | 90 | 530-601 | Retaining Pin |
| 41 | 545-015 | Nose Block Device | 91 | 505-028 | Reg. Adjustment Knob Assm |
| 42 | 510-575 | Nose Block Pad | 92 | 510-553 | Diaphragm |
| 43 | 510-690 | Oral Nasal Mask | 93 | 530-030 | Screw |
| 44 | 520-020 | Valve Body | 94 | 545-020 | Clamp |
| 45 | 510-550 | Valve, Oral Nasal | 95 | 545-018 | Cover Assembly |
| 45a | 550-081 | Nut, Regulator Mount | 95a | 535-905 | Retaining Clip |
| 46 | 510-490 | O-Ring | 95b | 540-055 | Spring |
| 47 | 540-054 | Earphone Retainer | 95c | 535-810 | Spring, Purge Button |
| 48 | 530-527 | Washer | 95d | 520-017 | Purge Button |
| 49 | 530-018 | Screw | 95e | 520-078 | Purge Button Sticker |
| 50 | 530-519 | Washer | 96 | 530-303 | Nut |
| 51 | 530-702 | Snub | 97 | 550-052 | Spacer |
| 52 | 530-018 | Screw | 98 | 545-038 | Roller Lever |
| 53 | 530-015 | Screw | 99 | 530-506 | Washer |
| 54 | 530-078 | Screw | 100 | 550-050 | Jam Nut |
| 54a | 530-070 | Screw | 101 | 550-048 | Inlet Nipple |
| 55 | 530-540 | Washer | 102 | 510-014 | O-Ring |
| 56 | 560-125 | Weight, Top | 103 | 545-026 | Inlet Valve |
| 57 | 530-070 | Screw | 104 | 510-552 | Exhaust Valve |

| Location Number | Order No. | Description | Location Number | Order No. | Description |
|-----------------|-----------|--|-----------------|-----------|----------------------------|
| 104a | 530-020 | Screw | 140 | 510-481 | O-Ring |
| 104b | 540-122 | Exhaust Flange, Chrome | 141 | 555-175 | Packing Gland |
| 104c | 510-401 | Gasket | 142 | 520-113 | Female Set |
| 105 | 505-069 | Demand Reg. Assembly, 37 | 143 | 555-178 | Packing Nut |
| 106 | 550-062 | Knob, Nose Block | 144 | 515-045 | Waterproof Conn. Male |
| 107 | 555-180 | Packing Nut | 145 | 505-047 | W.P. Connector Assembly |
| 108 | 560-070 | Port Retainer, w/#109 | 146 | 515-023 | Conn Assembly w/Posts |
| 109 | 550-116 | Nose Block Guide | 147 | 515-024 | Conn Assembly w/W.P. Conn. |
| 110 | 510-008 | O-Ring | 148 | 510-450 | Conn Mount Nut |
| 111 | 510-010 | O-Ring | 149 | 540-105 | O-Ring |
| 112 | 530-032 | Screw | 150 | 510-628 | Split Ring (2 Required) |
| 113 | 505-110 | Sealed Pull Pin | 151 | 510-631 | Neck Dam, Latex (med) |
| 114 | 530-045 | Screw | 152 | 505-142 | Stepped Ring |
| 115 | 550-122 | Spring Spacer | 153 | 540-115 | Strap Plate |
| 116 | 535-825 | Spring | 154 | 530-220 | Screw |
| 117 | 530-032 | Screw | 155 | 530-024 | Screw |
| 118 | 520-167 | Washer | 156 | 505-111 | Chin Strap Assembly |
| 119 | 540-086 | Swing Tongue Catch | 157 | 530-031 | Screw |
| 120 | 550-061 | Spacer | 158 | 505-119 | Neck Ring Assembly (neop.) |
| 121 | 530-546 | Washer | 159 | 530-545 | Washer |
| 122 | 530-035 | Exhaust Body | 160 | 520-165 | Washer |
| 123 | 550-063 | Exhaust Valve/Water Dump | 161 | 530-027 | Hinge Bolt |
| 124 | 510-561 | Earphone Right | 162 | 530-028 | Nut |
| 125 | 515-019 | Earphone Left | 163 | 550-111 | Adjustment Nut |
| 126 | 510-542 | Earphone Cover set | 164 | 560-111 | Locking Collar |
| | 515-008 | Speaker | 165 | 530-547 | Washer |
| | 520-015 | Speaker Protector | 166 | 520-098 | Neck Pad w/#168 (2) |
| 127 | 515-029 | Microphone | 167 | 550-045 | T-Washer |
| 128 | 515-033 | Communications Set | 168 | 530-064 | Screw |
| 129 | 515-055 | Wiring Harness | 169 | 560-530 | Quad Exhaust Cover |
| 130 | 330-035 | Washer | 170 | 510-033 | O-Ring |
| 131 | 330-030 | Screw | 171 | 530-019 | Screw |
| 132 | 510-630 | Rubber Cover | 172 | 510-007 | O-Ring |
| 133 | 530-525 | Washer | 173 | 520-042 | Tie Wrap |
| 134 | 530-308 | Nut | | | |
| 135 | 550-040 | Mount Nut | | | |
| 136 | 520-130 | Conn Module drilled for Posts | | | |
| 137 | 520-132 | Conn Module drilled for W.P. Conn/Male | | | |
| 138 | 315-020 | O-Ring | | | |
| 139 | 515-049 | Communications Post | | | |
| | | Terminal | | | |

CAUTION

Use only Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by KMDSI. When ordering spares, always insist on Kirby Morgan original parts.



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* Note: 1
Location # 179 P/N 510-781 Spacer, for KM 57 Helmet

Product Changes
Following publication of this booklet, certain changes in standard equipment, options, prices and the file may have occurred which would not be included in these pages. Your Authorized KMDSI dealer is your best source for up-to-date information on any of these products. © Kirby Morgan Dive Systems, Inc. reserves the right to change product specifications at any time without incurring obligations.

Kirby Morgan 77 Helmet



For the diver who wants an all metal helmet, the new stainless steel Kirby Morgan® 77 helmet is the way to go...

It features an all stainless version of our REX® regulator, as well as a stainless sideblock, helmet ring, bent tube, handle, and other key components. The Rex Quad Valve® Exhaust System is standard on this helmet.

The advanced regulator pod on this helmet will allow future versions of the Kirby Morgan 77 to be outfitted with other Kirby Morgan regulators, including the SuperFlow 350 or the all stainless steel SuperFlow 450. The pod makes it possible to customize the helmet with the regulator you want as job requirements change. The advantages of this stainless steel helmet include the following:

- Rugged helmet shell and other components
- No refinishing required if the surface is scratched or gouged
- Only one finish (color) is available
- Elimination of threaded inserts for securing port retainer to helmet shell.

Kirby Morgan 77 Helmet



| Location # | Part # | Description |
|------------|---------|------------------------|
| 1 | 545-015 | Nose Block Device |
| 2 | 510-743 | Oral Nasal Mask |
| 3 | 560-517 | Helmet Shell |
| 4 | 530-058 | Screw |
| 5 | 330-405 | Washer |
| 6 | 530-052 | Screw |
| 7 | 430-075 | Washer |
| 8 | 510-795 | Grip, Handle |
| 9 | 540-569 | Handle, Helmet |
| 10 | 530-059 | Screw |
| 11 | 505-753 | Airtrain Assembly |
| 12 | 550-574 | Spacer |
| 13 | 530-535 | Washer |
| 14 | 530-415 | Washer |
| 15 | 530-317 | Nut |
| 16 | 530-083 | Screw |
| 17 | 550-571 | Sleeve |
| 18 | 510-260 | O-ring |
| 19 | 520-004 | Face Port/Lens |
| 20 | 530-059 | Screw |
| 21 | 550-566 | Adapter |
| 22 | 530-052 | Screw |
| 23 | 505-738 | Port Retainer Assembly |
| 24 | 550-062 | Knob, Nose Block |
| 25 | 555-180 | Packing Nut |
| 26 | 510-008 | O-ring |
| 27 | 510-010 | O-ring |
| 28 | 550-372 | Regulator Mount Nut |
| 29 | 510-741 | Valve, Water Dump |
| 30 | 320-040 | Regulator Mount Washer |
| 31 | 530-145 | Nut |
| 32 | 530-527 | Washer |
| 33 | 510-403 | Gasket, REX Pod |
| 34 | 560-516 | Pod |
| 35 | 430-134 | Washer |
| 36 | 530-089 | Screw |
| 37 | 530-086 | Screw |
| 38 | 505-278 | REX Regulator Assembly |
| 39 | 550-586 | Spacer, Whisker |
| 40 | 530-072 | Screw |
| 41 | 540-015 | Kidney Plate |

| Location # | Part # | Description |
|------------|---------|----------------------------|
| 42 | 530-058 | Screw |
| 43 | 530-145 | Nut |
| 44 | 530-086 | Screw |
| 45 | 530-035 | Screw |
| 46 | 530-546 | Washer |
| 47 | 550-061 | Spacer |
| 48 | 540-086 | Swing Tongue Catch |
| 49 | 520-167 | Washer |
| 50 | 505-748 | Chin Strap Assembly |
| 51 | 535-825 | Spring |
| 52 | 550-122 | Spring Spacer |
| 53 | 530-045 | Screw |
| 54 | 505-746 | Neck Ring Assembly, KM-77 |
| 55 | 505-755 | Locking Collar Assembly |
| 56 | 530-027 | Hinge Bolt |
| 57 | 520-165 | Washer |
| 58 | 530-545 | Washer |
| 59 | 530-028 | S.S. Nut |
| 60 | 530-032 | Screw |
| 61 | 505-110 | Sealed Pull Pin |
| 62 | 530-015 | Screw |
| 63 | 530-037 | Screw |
| 64 | 505-742 | Earphone Retainer Assembly |
| 65 | 505-740 | Snap Assembly |
| 66 | 530-037 | Screw |
| 67 | 510-630 | Cover, Comm. Module |
| 68 | 550-040 | Nut |
| 69 | 330-030 | Screw |
| 70 | 330-035 | Washer |
| 71 | 520-132 | Comm. Module, MWP |
| 72 | 510-029 | O-ring |
| 73 | 320-026 | Comm. Mount Nut |
| 74 | 530-308 | Nut |
| 75 | 530-525 | Washer |
| 76 | 515-055 | Wiring Harness |
| 77 | 520-130 | Comm. Module, Posts |
| 78 | 315-020 | Comm. Posts |
| 79 | 515-018 | Earphone, Right |
| 80 | 515-029 | Microphone Assembly |
| 81 | 515-019 | Earphone, Left |
| 82 | 515-045 | Waterproof Connector, Male |

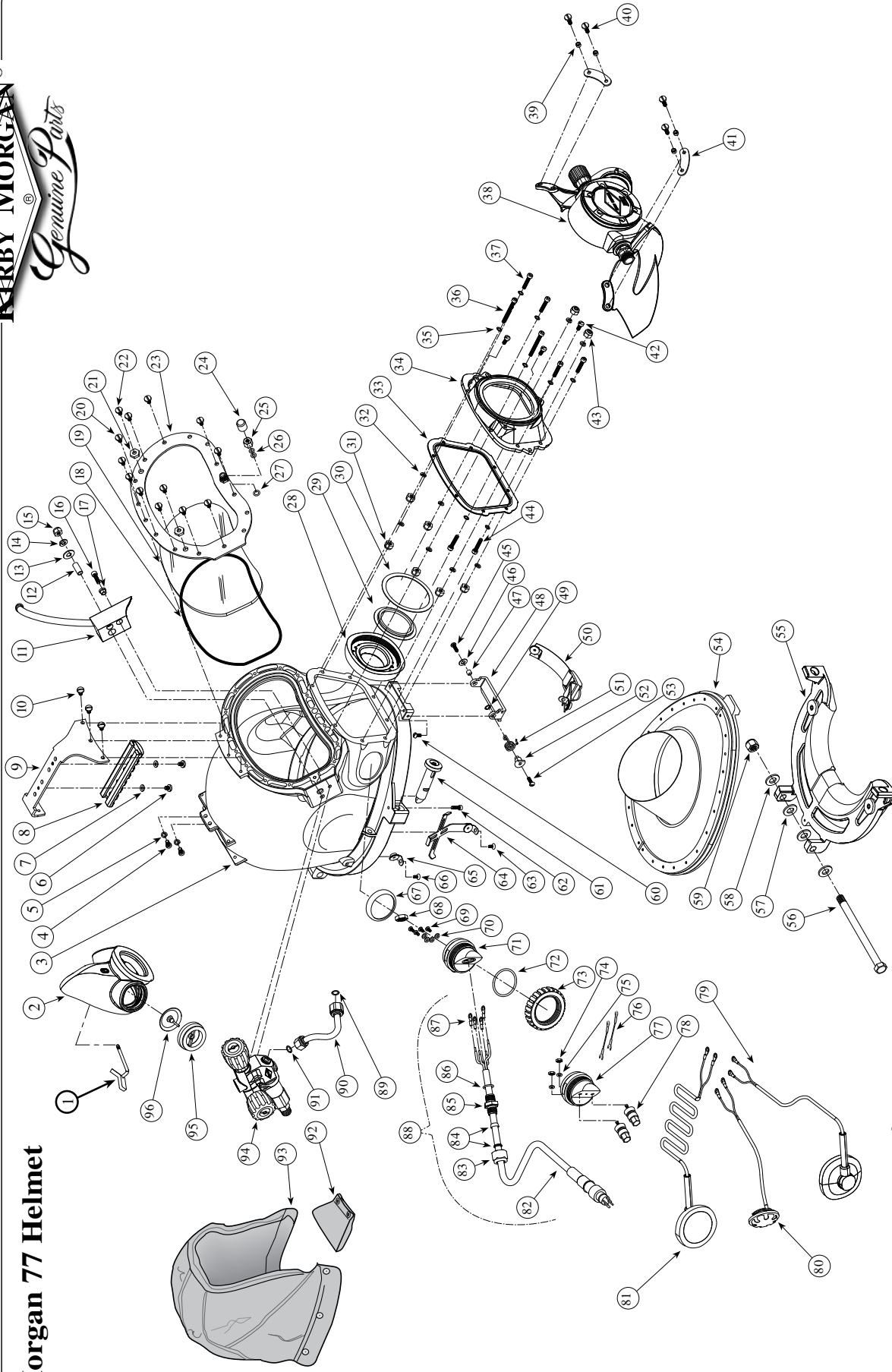
| Location # | Part # | Description |
|------------|---------|-------------------------|
| 83 | 555-178 | Packing Nut |
| 84 | 520-113 | Ferrule Set |
| 85 | 555-175 | Packing Gland |
| 86 | 510-481 | O-ring |
| 87 | 515-049 | Terminal |
| 88 | 505-047 | W.P. Connector Assembly |
| 89 | 510-012 | O-ring |
| 90 | 555-172 | Bent Tube Assembly |
| 91 | 520-033 | O-ring, Teflon |
| 92 | 510-683 | Chin Cushion |
| 93 | 510-682 | Head Cushion |
| 94 | 505-732 | Side block Assembly |
| 95 | 520-020 | Valve Body |
| 96 | 510-550 | Valve, Oral Nasal |



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Kirby Morgan 77 Helmet



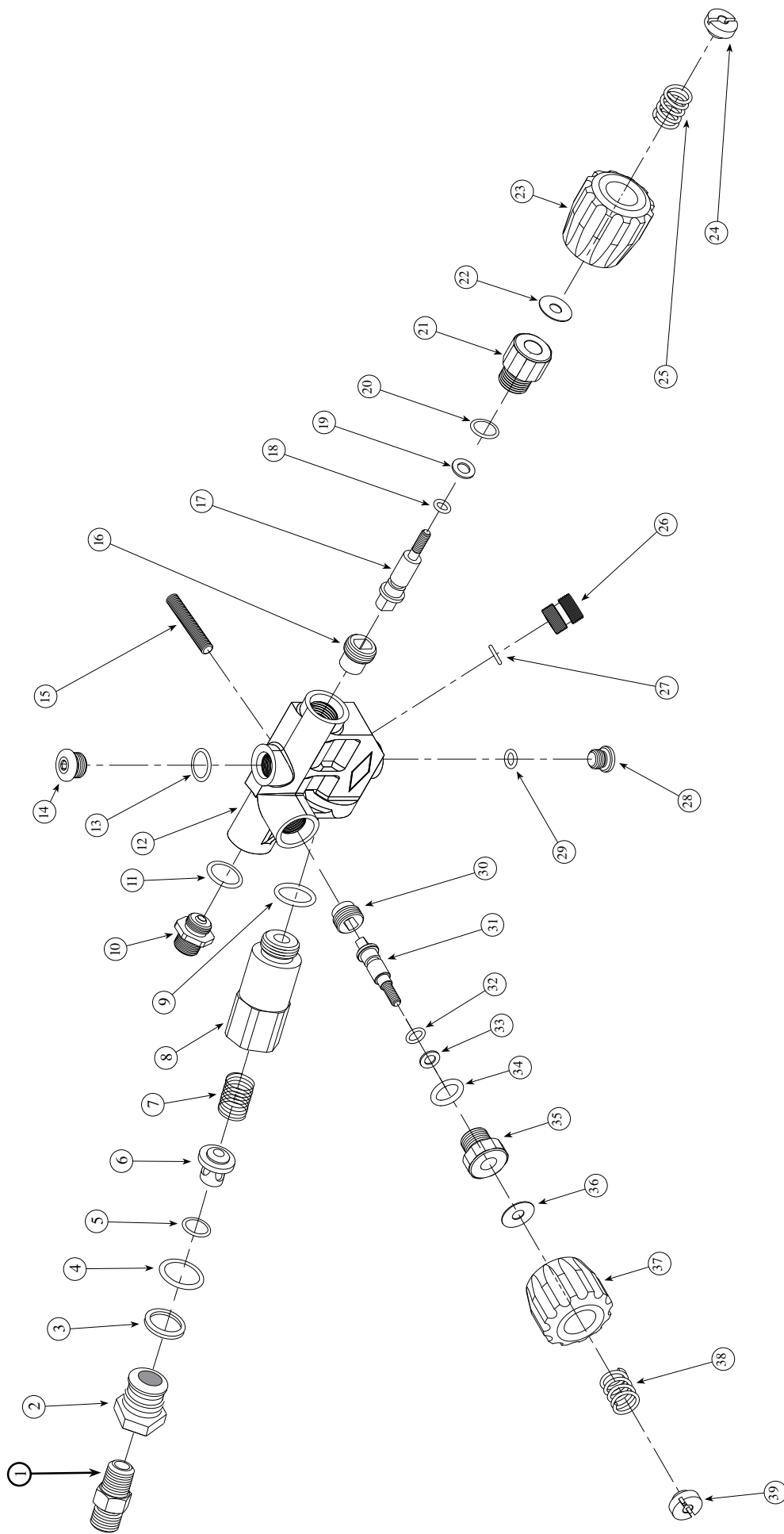
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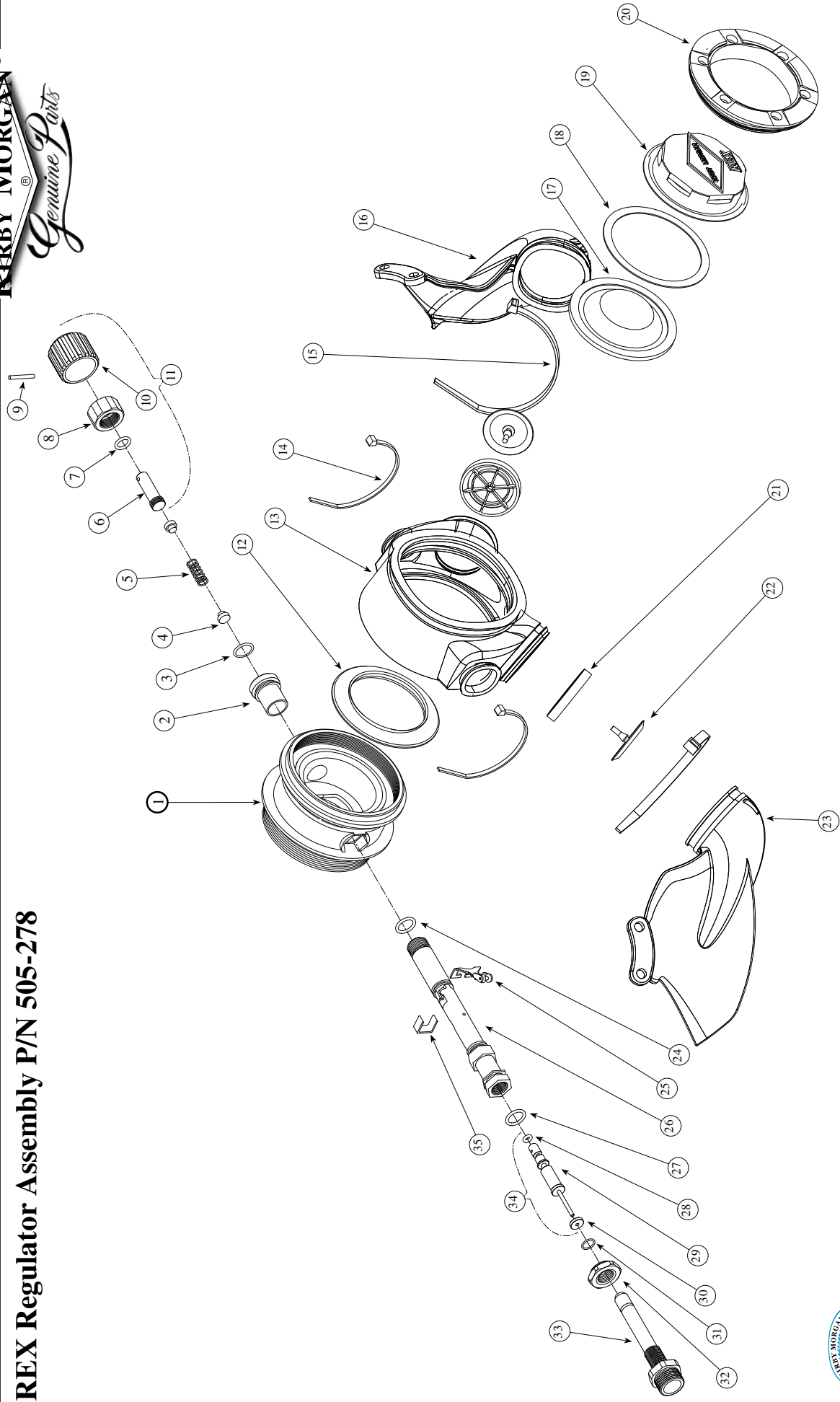


Sideblock Assembly P/N 505-732



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REX Regulator Assembly P/N 505-278



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Sideblock Assembly for KM 77 P/N 505-732

| Location # | Part # | Description |
|------------|---------------|--------------------------------|
| 1 | Order 505-060 | Adapter |
| 2 | Order 555-195 | Seat |
| 3 | Order 525-330 | Wiper |
| 4 | Order 525-330 | O-ring |
| 5 | Order 525-330 | O-ring |
| 6 | Order 555-195 | Poppet |
| 7 | Order 525-330 | Spring |
| 8 | Order 555-195 | One-Way Valve |
| 9 | 510-483 | O-ring |
| 10 | 550-046 | Inlet Nipple |
| 11 | 510-014 | O-ring |
| 12 | 560-540 | Sideblock Body |
| 13 | 510-013 | O-ring |
| 14 | 350-062 | Plug, Large |
| 15 | 550-178 | Stud |
| 16 | 550-023 | Seat Assembly |
| 17 | 550-022 | Valve Stem |
| 18 | 510-010 | O-ring |
| 19 | 520-031 | Washer |
| 20 | 510-015 | O-ring |
| 21 | 550-568 | Bonnet |
| 22 | 520-030 | Washer |
| 23 | 520-524 | Flex Knob, Steady Flow |
| 24 | 535-802 | Spring |
| 25 | 550-019 | Lock Nut |
| 26 | 550-564 | Bent Tube, Sideblock, Adapter* |
| 27 | 520-033 | O-ring* |
| 28 | 550-094 | Plug |
| 29 | 310-003 | O-ring |
| 30 | 550-553 | Seat Assembly |
| 31 | 550-548 | Valve Stem |
| 32 | 510-008 | O-ring |
| 33 | 520-523 | Washer |
| 34 | 510-014 | O-ring |
| 35 | 550-551 | Bonnet |
| 36 | 520-522 | Washer |
| 37 | 520-525 | Flex Knob, Emergency |
| 38 | 535-802 | Spring |
| 39 | 550-019 | Lock Nut |

*Dealer Service only

REX Regulator Assembly P/N 505-278

| Location # | Part # | Description |
|------------|---------|-----------------------------|
| 1 | 560-514 | Regulator Body |
| 2 | 350-035 | Sleeve |
| 3 | 510-015 | O-ring |
| 4 | 350-065 | Spacer |
| 5 | 535-910 | Spring |
| 6 | 350-052 | Adjustment Shaft |
| 7 | 510-011 | O-ring |
| 8 | 350-025 | Packing Nut |
| 9 | 530-601 | Retaining Pin |
| 10 | 320-035 | Adjustment Knob |
| 11 | 305-045 | Adjustment Knob Assembly |
| 12 | 310-065 | Exhaust Valve |
| 13 | 510-783 | Whisker, Main Body |
| 14 | 520-038 | Tie-Wrap |
| 15 | 520-042 | 1 1/2" Tie Wrap |
| 16 | 510-785 | Port Whisker Wing, REX |
| 17 | 510-553 | Diaphragm |
| 18 | 320-030 | Washer |
| 19 | 510-006 | Cover |
| 20 | 550-042 | Cover Retaining Ring |
| 21 | 520-200 | Valve Seat |
| 22 | 510-776 | Exhaust Valve |
| 23 | 510-784 | Starboard Whisker Wing, REX |
| 24 | 310-013 | O-ring |
| 25 | 545-038 | Roller Lever Arm |
| 26 | 350-032 | Main Tube |
| 27 | 310-013 | O-ring |
| 28 | 310-006 | O-ring |
| 29 | 320-038 | Inlet Valve |
| 30 | 310-070 | Seat |
| 31 | 310-007 | O-ring |
| 32 | 550-560 | Adjustment Lock Nut |
| 33 | 550-542 | Nipple Tube |
| 34 | 305-057 | Inlet Valve Assembly, |
| | | EXO-BR, Rex |
| 35 | 340-004 | Horseshoe |



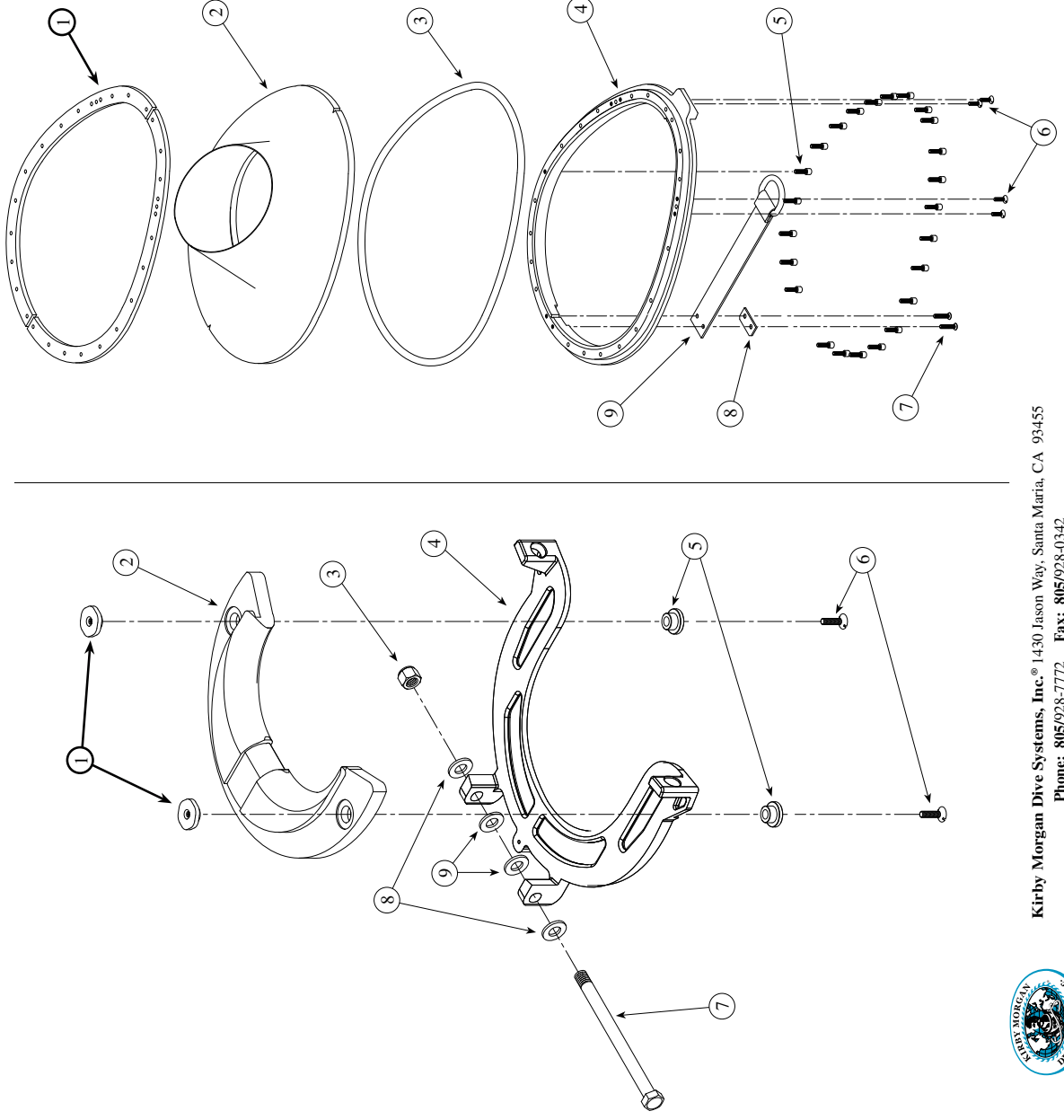
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 www.KirbyMorgan.com e-mail: kmdsi@KirbyMorgan.com

Locking Collar Assembly for KM 77 P/N 505-755

| Location # | Part # | Description |
|------------|---------|----------------|
| 1 | 550-113 | Adjustment Nut |
| 2 | 520-098 | Neck Pad |
| 3 | 530-028 | S.S. Nut |
| 4 | 560-541 | Locking Collar |
| 5 | 550-045 | T-Washer |
| 6 | 530-064 | Screw |
| 7 | 530-027 | Hinge Bolt |
| 8 | 530-545 | Washer |
| 9 | 520-165 | Washer |

Neck Ring Assembly for KM 77 P/N 505-746

| Location # | Part # | Description |
|------------|---------|---------------------------|
| 1 | 540-546 | Split Ring |
| 2 | 510-628 | Neoprene Neck Dam, Medium |
| 3 | 510-450 | O-ring |
| 4 | 560-542 | Stepped Ring |
| 5 | 530-024 | Screw |
| 6 | 530-022 | Screw |
| 7 | 530-220 | Screw |
| 8 | 540-115 | Strap Plate |
| 9 | 505-142 | Pull Strap Assembly |



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Desco Air Hat

This is a “free-flow” air hat of modern design made of the same materials used in the Navy Mark V and other conventional helmets.

Brass castings are deep soldered to a 1/16” spun-copper shell. The window is ¾” acrylic mounted on the hat with a solid neoprene gasket. The interior liner is adjustable for head size and consists of neoprene fabric applied to foam padding.

The hat is remarkable both for its ruggedness and its simplicity of design. It can be completely disassembled and reassembled using only a screwdriver and wrench. It can be easily put on or removed by the diver alone without assistance from a tender.

Using the adjustable exhaust valve, the hat can be adjusted either side of neutral buoyancy under water; and, with its low center of gravity and excellent fore and aft balance, it rests comfortably on the divers head in all working positions.

The hat can be used with the neoprene “neck-dam” supplied with each hat or with any diving suit equipped with a cylindrical Desco “yoke” which then attaches to the hat’s neck-ring insert in lieu of the neck-dam.

The neck ring insert mates to the base neck ring of the hat with two independent by complimentary gaskets which provide an air and water tight seal.

The hat comes equipped with a “double” one way exhaust valve that incorporates two separate successive seals to prevent possible leakage of water back into the hat through the exhaust outlet.

It has a double “air-in-take” elbow with two non-return valves for use with a “bail-out” system.

The hat is shipped complete with neck ring inset, a size 15 neck-dam and an adjustable jock strap.

The hat, unless otherwise specified, comes with a heavy tin plating inside and outside. Standard colors (metallic blue, orange, yellow, red and black) are available at no extra cost. Custom colors are available at additional cost.

The features described above, together with its reasonable cost, make it the hat of choice for divers working at depths where the diver can be supplied with air. When used with a dry suit it provides the diver with maximum protection in contaminated water.

Weight of the complete hat is approximately 34 lbs. **Part No. 61000**

Specifications are subject to change without notice.



Double Air Intake Elbow with
2 check valves. Snag resistant
Control Valve Handle.



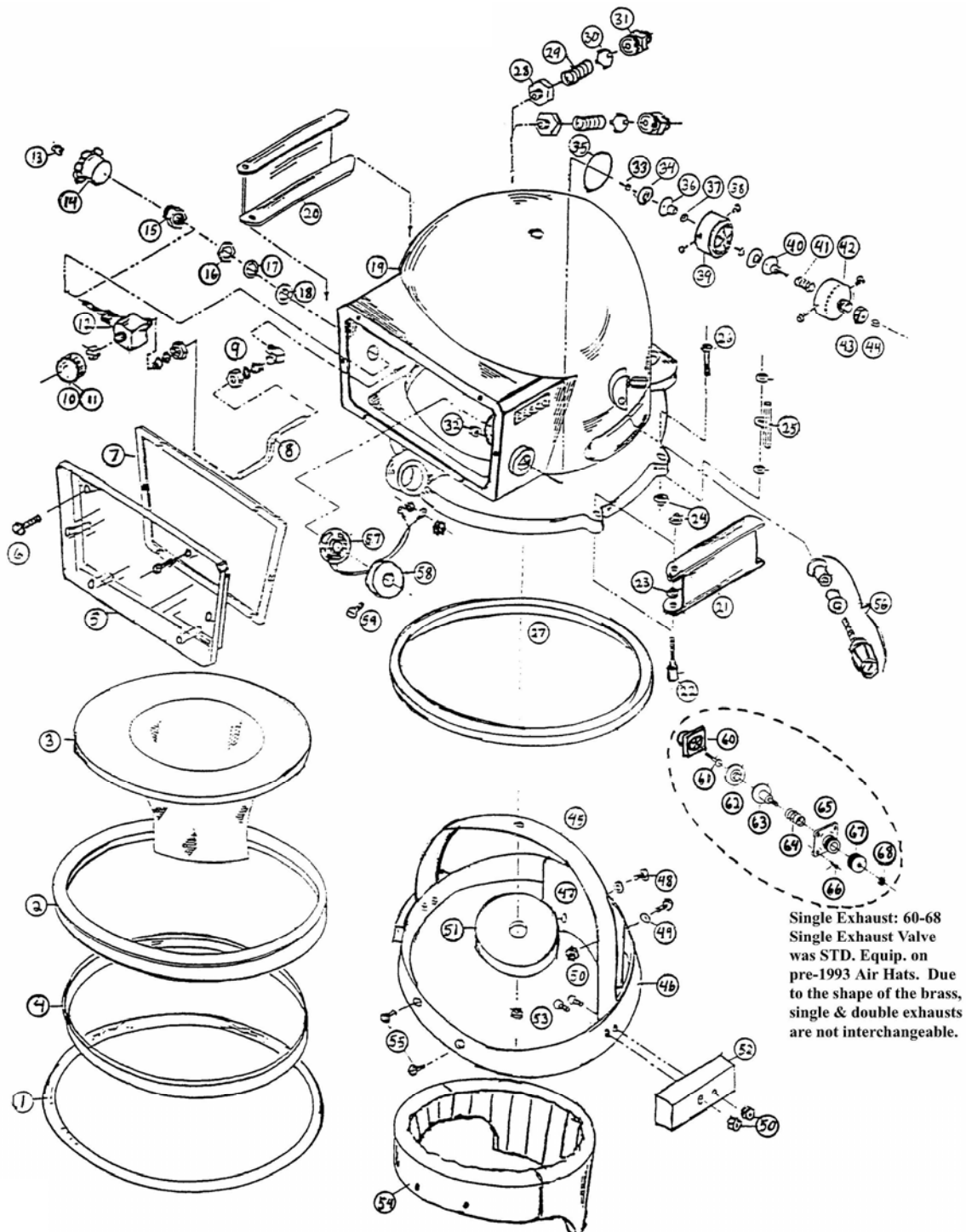
Desco Double Exhaust Valve



Optional: Penetrator Elbow for 4-wire
communications cable (voice or video)

Desco Air Hat Breakdown

Part No. 61000





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Harvey, LA 70058 USA
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FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

Desco Air Hat Breakdown Cont.

Part No. 61000

| Item | Part No. | Description |
|--------------|----------|---------------------------|
| 1-3 | 61050 | Neck Ring-Insert Assembly |
| 1 | 61054 | Neck Seal O-Ring |
| 2 | 61051 | Neck Ring Insert |
| 3 | 61052 | Neck Dam |
| 4 | 61053 | Shim |
| 5-7 | 61075 | Window Assembly |
| 5 | 61076 | Window |
| 6 | 61078 | Window Retaining Screws |
| 7 | 61077 | Window Gasket |
| 8-18 | 61125 | Air Intake Assembly |
| 8 | 61127 | Copper Tube |
| 9 | 61128 | Elbow Inside |
| 10 | 61135 | Air Distributor |
| 11 | | Landswool |
| 12 | 61128 | Valve |
| 13 | 61134 | Valve Handle Nut |
| 14 | 61133-N | Valve Handle |
| 15 | 61132 | Valve Stem Adapter |
| 16 | 61131 | Valve Retaining Nut |
| 17 | 61130 | Brass Washer |
| 18 | 61129 | Lead Washer |
| 19-26 | 61025 | Pot & Neck Ring Assembly |
| 19 | 61026 | Pot & Neck Ring |
| 20 | 61034 | Neck Ring Clamp (right) |
| 21 | 61035 | Neck Ring Clamp (left) |
| 22 | 61030 | Clamp Screw |
| 23 | 61031 | Clamp & Lock Washer |
| 24 | 61032 | Clamp & Lock Nut |
| 25 | 61038 | Lock |
| 26 | 61037 | Lock Retaining Screw |
| 27 | 61036 | Neck Ring Gasket |
| 28-31 | 59091 | Non-Return Valve Assembly |
| 28 | 53029 | Body |
| 29 | 57029 | Spring |
| 30 | 52030 | Plates |
| 31 | 53079 | Adapter |

| Item | Part No. | Description |
|--------------|----------|-------------------------|
| 32-43 | 60231 | Exhaust Valve Assembly |
| 32 | 53025 | Locknut |
| 33 | 53037 | Screw |
| 34 | 56026 | Flapper |
| 35 | 60234 | O-Ring |
| 36 | 60238 | Flapper Guard |
| 37 | 60237 | Star Washer |
| 38 | 60235 | Set Screw, 6-32 |
| 39 | 60233 | Center Section |
| 40 | 53024 | Plunger |
| 41 | 57029 | Spring |
| 42 | 60236 | Top Section |
| 43 | 53028 | Knurled Cap |
| 44 | 54016 | Nut |
| 45-55 | 61100 | Head Piece Assembly |
| 45 | 61103 | Top Band |
| 46 | 61101 | Head Band |
| 47 | 61104 | Back Plate |
| 48 | 61108 | 3/8" Brass Screw |
| 49 | 61109 | Brass Flat Washers |
| 50 | 61110 | Brass Nuts |
| 51 | 61113 | Top Pad |
| 52 | 61112 | Side Pad |
| 53 | 61114 | 7/16" Brass Screws |
| 54 | 61106 | Insert |
| 55 | 61107 | Screw |
| 56-59 | 61200 | Communications |
| 56 | 61203 | Binding Post (complete) |
| 57 | 61204 | Speaker w/ Clips |
| 58 | 61209 | Telephone Cup |
| 59 | 54009 | Retaining Screw |
| 60-68 | 59112T | Single Exhaust Valve |
| 60 | 51025 | Exhaust Base |
| 61 | 53037 | Screw |
| 62 | 53026 | Flapper |
| 63 | 53024 | Plunger |
| 64 | 27009 | Spring |
| 65 | 52090 | Cover |
| 66 | 54025 | Screw |
| 67 | 53028 | Cap |

Helium Reclaim Helmets

Ultrajewel 601 Helium Reclaim Helmet

The Ultrajewel 601 range of Helium Gas Reclaim Helmets are the most efficient and reliable available to the commercial diver. When used with the GASMIZER reclaim system, gas recovery is typically 90% or better.

The combination of the Ultraflow 601 Demand Regulator and the Jewel 601 Exhaust Regulator has established this helmet as the industry standard for helium recovery operations.

CE Certified
Low work of breathing performance
compliant with NPD/HSE
Very efficient gas reclaim
KMB 17B or 17C variants
Industry standard

Available in:

Ultrajewel 601 17B Helmet
Ultrajewel 601 17C Helmet

Spare Parts Kit – C10390



U.S. Navy Diving Helmet

Mark V Model I

Part No. 29103

Made to U.S. Navy specifications throughout. Breastplate fits U.S. Navy-style dress only. Helmet shell is of heavy spun copper. Fittings of polished brass. Inner and outer surfaces are plated with heavy coating of tin. Windows are acrylic.

Fittings included with Helmet:

- * Double-spring, adjustable-tension, automatic exhaust valve with exterior star-wheel, interior chin-button, and banana-tube to exhaust air at rear of helmet.
- * Spit cock
- * Four windows. Side windows are circular. Upper window is oval on horizontal axis. Front window is circular and mounted in hinged faceplate.
- * Telephone cup
- * Transceiver
- * Non-return valve with standard submarine thread
- * Welding lens bracket
- * Breastplate eyelet for hose and lifeline
- * Breastplate flanges and wing nuts
- * Breastplate and face plate gaskets
- * Safety lock and chain
- * Telephone gooseneck
- * Protective caps for non-return valve and telephone gooseneck



Weight: Approximately 68 lbs.

Kirby Morgan KMB-18B and 28B Band Mask



The fully tested and certified KMB-18B and 28B Band Masks may be used in mixed gas diving as well as shallow water diving.

The SuperFlow adjustable demand regulators provide low inhalation resistance and high gas flow letting the diver breathe easier and work harder with less exertion. Both masks come standard with the large tube SuperFlow 350 regulator.

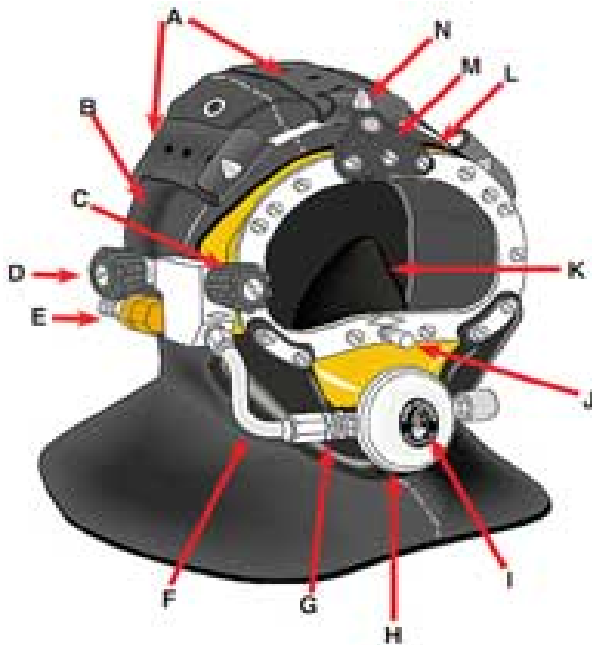
The Side Block Assembly of both the KMB-18B and 28B receives the umbilical over the shoulder in the B configuration. They both come standard with the Tri-Valve™ exhaust system (Patents Pending), and the new patent pending Band Mask® Band Keepers™.

The Tri-Valve™ Exhaust System (Patents Pending) has less breathing resistance than the older single valve exhaust. It retrofits to all previous Kirby Morgan Band Masks®. The new patent pending Band Mask® Band Keepers™ couple with the redesigned hood not only prevent any separation of the hood from the mask but also makes it impossible for the bands to separate from the mask.

The communications connections can be either a male waterproof plug in type or bare wire posts. The KMB-28B Band Mask is very similar to the KMB-18B. Many parts on the KMB-18B are interchangeable with the KMB-28B. The major difference between the 18B and 28B is the material of the mask frame itself. The KMB-18B has a hand laid fiberglass frame (yellow) while the KMB-28B frame is an extremely durable injection molded plastic (black). The relative ease of the production of the KMB-28B frame allows for a lower cost and quicker deliver of this mask. Other differences include: 1) the main exhaust body of the KMB-28B is part of the frame itself and uses a #545-041 main exhaust cover, 2) no comfort insert is required on the “28”, 3) the face ports for the 18B and the 28B differ slightly in size.

Kirby Morgan KMB-18B and 28B Band Mask Cont.

Features



- A. **Head Harness (Spider)** keeps the mask in place on the diver head. The neoprene rubber spider has adjustment holes for varying the tension of the harness.
- B. **Hood/Face Seal** provides the diver a comfortable thermal barrier around his head as well as pockets for earphones.
- C. **Steady Flow Valve** provides as additional flow of air into the mask for ventilation and defogging.
- D. **Auxiliary Valve** supplies backup breathing gas to the diver.
- E. **Gas Supply Non-Return Valve** prevents loss of gas pressure in the event of umbilical damage, preventing a “squeeze”.
- F. **Communications Connections** can be either bare wire posts or a waterproof connector. The waterproof type is recommended when a “round robin” or diver’tender both mics “on” communications system is used.
- G. **Tri-valve™ Exhaust Whisker** (Patents Pending), which retrofits to many previous Kirby Morgan Helmets and Band Masks®, has less breathing resistance that the older single valve exhaust while providing an extremely dry hat. The Tri-Valve™ Exhaust is made of a chemical resistant compound.
- H. **Water Exhaust** automatically keeps water drained from the mask.
- I. **Demand Regulators** The SuperFlow350® KMB-18B and 28B regulator provides easy breathing for hard work.
- J. **Nose Block Device** allows the diver to block the nose the equalize ear.
- K. **Silicone Oral Nasal Mask** is made of a superior silicone material which is hypo-allergenic.
- L. **Mask Frame** hand laid fiberglass for the KMB 18, injection molded plastic for the KMB 28.

Kirby Morgan EXO-BR Full Face Mask

The EXO Full Face Mask was designed for both surface supplied and scuba diving.



By enclosing the diver's eyes, nose and mouth, the EXO permits nearly normal speech when used in conjunction with most wireless, and all hardwire underwater communication systems. Its light weight design allows divers to work long dives without jaw or neck fatigue. This mask has a modular communications design that permits rapid and simple maintenance. An optional Hard Shell gives added surfaces for mounting lights, cameras etc. The ear equalization device, a nose block which is adjustable to several different heights, fits a wide variety of noses and faces. The oral nasal helps keep the CO2 levels to a minimum and improves breathing and communications.

The Balanced Regulator EXO-BR was developed to meet strict new European CE requirements and is fully CE approved as well as U.S. Navy approved. It meets and surpasses EN 250 requirements for regulator performance. The EXO-BR frame is the same safety yellow as the standard SuperLite helmets and KMB 18 Bandmasks.

The EXO-BR Balanced Regulator helps reduce the work of breathing for the diver. The regulator balances the intermediate air pressure against the valve sealing pressure inside the regulator. This enables the regulator to instantly adjust to changes in line pressure. The Balanced Regulator provides improved breathing and is adjustable for a wide range of intermediate pressures between 100 PSI – 230 PSI.

Kirby Morgan EXO-BR Full Face Mask Cont.

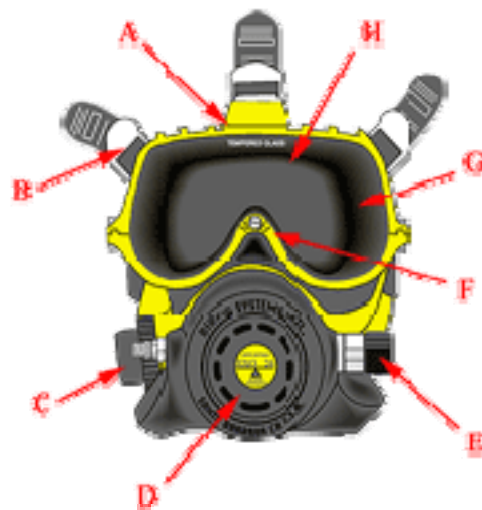
Features:

A. EXO Skelton Frame:

A strong injection molded plastic external frame which gives the head harness an even pull completely around the mask seal. The EXO skeleton does not touch the diver's face. It is suspended just slightly off the face to hold the communication and breathing equipment in place without discomfort.

B. Head Harness:

A pull through fixed buckle type with an automatic locking feature. Quick release buckles are featured on each rugged, double wide strap.



C. Communications Module:

The communications module unscrews and is removed from the inside of the mask. Inside the module is a junction box for mating all the wiring for communications. EXO-BR Mask is available with several different communication configurations. First is the basic mask with no communications. The modular design allows communications to be easily retrofitted. Other configurations differ with the type of communications systems installed. When using an umbilical, the Bare Wire Communications Posts module serves as the hardwire attachment point for a simple two wire communications system. The Four Pin Male Waterproof (W.P.) Connector option ("marsh marine" type) allows for four wire/ round robin communications when diver to diver communication is desired. Both configurations include earphones and microphone. Wireless systems compatible with the EXO-BR is available through several different manufacturers.

D. EXO-BR Balanced Regulator:

CE approved as well as U.S. Navy approved. It meets and surpasses EN 250 requirements for regulator performance.

E. Regulator Adjustment:

Provides demand regulator adjustment for a wide range of incoming air pressure. In addition, it can serve as a steady flow valve. Some divers prefer a slight steady flow on surface supplied air when air consumption is not a factor.

F. Oral Nasal Mask:

Keeps CO₂ levels to a minimum no improves breathing and communications.

G. Mask Seal:

Comprises the main rubber body of the mask. It is soft neoprene that seals comfortably on the diver's face. The EXO skeleton is used to hold this soft rubber seal in place on the diver's face for a solid seal.

H. Tempered glass for strength and minimum fogging. A strong plastic frame surrounds the glass to seal on the rubber mask seal.

Desco Parts, Kits, and Communications



**Spare Parts & Repair Kit for Desco
Commercial Free-Flow & Pool**

| Qty. | Part No. | Description |
|------|----------|-----------------------|
| 1 | 59041 | Head-Harness w/ Clips |
| 3 | 59046 | Small Buckles |
| 1 | 59035 | Extension Buckle |
| 1 | 56026 | Exhaust-Valve Disc |
| 1 | 59029 | Non-Return Spring |
| 1 | 52030 | Non-Return Disc |
| 1 | 56028 | Intake Flapper |
| 1 | 57034 | Lead Exhaust Washer |



**Spare Parts & Repair Kit for
Desco Demand-Regulator Mask
Part No. 60009**

| Qty. | Part No. | Description |
|------|----------|------------------------|
| 1 | 59041 | Head-Harness w/ clips |
| 1 | 59529-A | Diaphragm Assembly |
| 1 | 59508 | Exhaust Cover (Rubber) |
| 1 | 56026 | Rubber Disc |
| 1 | 56028 | Inlet Flapper |
| 1 | 59529 | Diaphragm Valve Lever |
| 1 | 59519 | Plunger |
| 1 | 59517 | Valve Handle Washer |
| 1 | 59515 | Valve Seat |
| 1 | 59511 | Diaphragm Arm Pin |
| 1 | 59512 | Ball |
| 1 | 57034 | Lead Washer |

Desco

Parts, Kits, and Communications Cont.



Communication System for Desco Masks Part No. 59800-B

This system can be factory installed in all Desco Masks and may be used with the Desco Telephone (Part No. 59702). A Mylar transceiver and two 3-way binding posts are mounted at the bottom of the faceplate to allow maximum field of vision. A single, sealed earphone is attached to the head-harness with O-rings so that it can be adjusted to fit over the divers ear. The earphone cable attaches to the binding posts using 90 banana plugs to permit or inoperative, the diver can still communicate using the transceiver located inside the faceplate.



Desco 7-Watt Diver's Telephone Part No. 59702

This is a powerful, two diver telephone which delivers seven full watts of audio output.

It is normally powered by a 12 volt commercial or sportsman's battery. However (at some reduced power) it can also be used with a 9-volt transistor battery. It is not harmed by an accidental reversal of polarity. An A.C. power jack is also provided to use a A.C. Adapter (available at electronics supply stores) where 110 VAC is available. Binding posts are provided for an external speaker, tape recorder, and headphone/boom mike. Separate volume controls for the divers and tender permit adjustment for optimum quality of communications. Like all prior Desco telephones, it is housed in a handsome, highly finished, shock resistant wood case. This telephone can be used with all helmets and masks equipped for 2-wire communication.

Desco Helmet Parts and Accessories

Helmet Parts



Spring Lock
Part No. 29208

- * Used on Commercial and Lightweight helmets
- * Made of polished brass

Spitcock Valve
Part No. 29035

- * Standard on Navy and Commercial helmets
- * Made of polished brass



Safety Chain Assembly
Part No. 29054

- * Used on Navy Helmets Only
- * Made of polished brass



Ball-Lever Assembly
Part No. 29037

- * Used on Navy Helmet Only
- * Made of polished cast brass

Hinged Faceplate Assembly
Part No. 29199

- * Used on Navy Helmets Only
- * Made of polished cast brass with acrylic window and cast-brass guard.
- * Approx. 6-1/2" diameter



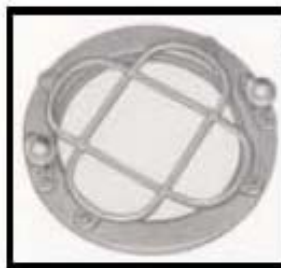
Exhaust-Valve Assembly
Part No. 29040

- * Used on Navy, Commercial and Abalone helmets. Includes exterior star-wheel, interior chin-button and banana exhaust-tube.
- * Made of polished cast brass.



Mark V Telephone Gooseneck
Part No. 21146

- * Used on Navy Mark V Helmet
- * Made of polished cast brass



Screw-Type Faceplate Assembly
Part No. 29174

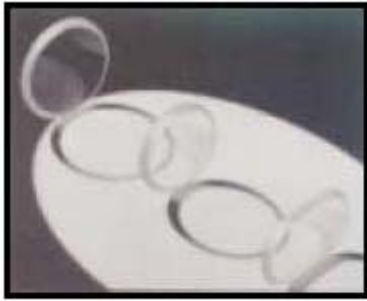
- * Used on Commercial helmets only. Abalone Faceplate (P/N 21194) is same except that guard consists of two horizontal cast-brass bars.
- * Made of polished cast brass with acrylic window.
- * Screw thread 5-13/16" x 20

Commercial Telephone Gooseneck

- * Used on Commercial helmet.
- * Made of polished cast brass.

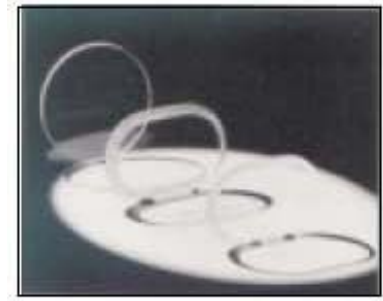


Desco Helmet Parts and Accessories Cont. Lights, Springs, Gaskets and Washers



Replacement Lights for Navy Helmet

- * Made for acrylic.
- Front Light (Part No. 27042)
- Side Light (Part No. 27041)
- Top Light (Part No. 27040)



Replacement Lights for Commercial Helmet

- * Made of acrylic.
- Front Light (Part No. 27109)
- Side Light (Part No. 27107)
- Top Light (Part No. 27169)

Springs

Primary Exhaust Valve Spring (inside) - Part No. 27092

- * Used on any helmet equipped with Navy exhaust assembly
- * ½" diameter x 1-5/8" free length

Secondary Exhaust Valve Spring (outside) - Part No. 27091

- * Used on any helmet equipped with Navy exhaust assembly
- * 17/32" diameter x 1" free length

Gaskets and Washers

(Made of top-grain leather unless otherwise specified)

Breastplate Gasket for Navy and Commercial Helmets Part No. 27025

Dimensions: 9-7/8" O.D. x 8-3/4" I.D. x 3/16" to 7/32"

Faceplate Gasket for Commercial and Lightweight Helmets – Part No. 27108

For screw-type Commercial and Lightweight helmet faceplate seat.

Dimensions: 6-7/16" O.D. x 5-1/2" I.D. x 3/16"

Canister Gasket for Helium Helmet

Part No. 23139

Made of rubber

Washer for U.S. Navy Telephone/Lifeline Cable Coupling Part No. 24056

Dimensions: 1-13/16" O.D. x 9/16" I.D. x 1/8"

Washer for U.S. Navy Telephone Gooseneck Cap Part No. 27057

Dimensions: 1-11/16" O.D. x 9/16" I.D. x 1/8"

Washer for Air Inlet Cap

Part No. 27056

Dimensions: 1-1/16" Diameter x 1/8"

Washer for Air Hose Coupling

Part No. 27059

For all standard ½" diver's hose connections

Gasket for Navy Hinged Faceplate

Part No. 26009

Made of rubber

Dimensions: 5-1/4" O.D. x 4-3/4" I.D. x 3/16"

Desco Helmet Parts and Accessories Cont. Caps, Studs, Nuts, Etc.



Telephone Gooseneck Cap
Part No. 21101

- * Used on Navy and Commercial Helmets
- * Made of polished cast brass



Air Inlet Gooseneck Cap
Part No. 23059

Lightweight Breastplate Stud –
Part No. 23108

- * Used on Abalone and other lightweight breastplates only.
- * Made of Brass
- * Thread 7/16" x 14

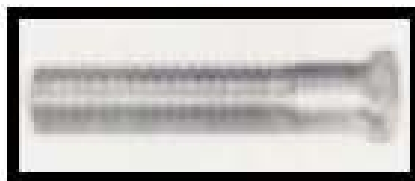


- * Used to protect any submarine threads.
- * Made of polish brass
- * Submarine thread
1-1/16" x 17



Lightweight Wing Nut
Part No. 21209

- * Used on Abalone and other Lightweight breastplates only.
- * Fits on Lightweight Breastplate Stud (Part No. 23108)
- * Made of polished cast brass

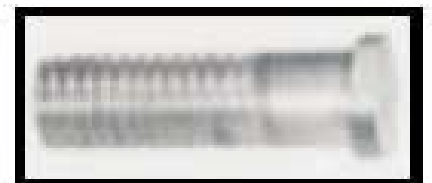


Navy Breastplate Stud (Long)
Part No. 23034

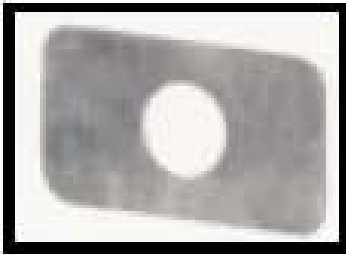
- * Used on Navy and Commercial breastplates, one per breastplate for air control valve attachment.
- * Made of brass
- * Thread 1/2" x 12

Navy Breastplate Stud (Short)
Part No. 23033

- * Used on Navy breastplate
- * Made of Brass



Desco Helmet Parts and Accessories Cont. Caps, Studs, Nuts, Etc.



Breastplate Stud Washer
Part No. 22033

- * Used at junction point of brailes on all breastplates.
- * Made of Copper.
- * 1-1/8" x 2" x .050



U.S. Navy Control Valve
Part No. 29003

- * Attached to the breastplate, it permits the diver to control the flow of air to his helmet. Equipped with male submarine threads on both inlet and outlet, it connects a 1/2" I.D. air-supply hose to the 1/2" I.D. three-foot hose (Whip). Usable with any helmet. Construction of cast brass. Dimensions approx. 6-1/2" x 3"
- * **Weight:** 3 lbs.



Navy Breastplate Wing Nut
(Plain) - Part No. 21127

- * Used on Navy and Commercial breastplates to fasten brailes at non-junction points
- * Made of polished cast brass.

Navy Breastplate Wing Nut
(Flanged) - Part No. 21134

- * Used on Navy and Commercial breastplates to fasten brailes at junction points.
- * Made of polished cast brass.



Accessories
Navy Wing Nut Wrench
Part No. 21148

- * Used on Navy and Commercial breastplates.

Desco Spares

ADAPTER (Female) Part No. 29128

It has a standard female submarine thread (1-1/15" x 17) on one end and a standard male oxygen thread (9/16" x 18) on the other end.

Weight: 6 oz. 1-3/8" x 2-1/2"



Adapter (Male) Part No. 29129

Has a standard male submarine thread (1-1/16" x 17) on one end and a standard female oxygen thread (9/16" x 18) on the other end.

Weight: 6 oz. 1-3/8" x 2-1/2"

Double Female Coupling Part No. 29192

Both ends have standard female submarine thread (1-1/16" x 17). Used to couple two 1/2" I.D. Air hose lengths together when both hose ends have male submarine fittings such as that provided by the Male Airhose Fitting (Part number 23066)

Weight: 1 lb. 1-4/8" x 1-3/8" x 4-1/2"



Double Male Coupling Part No. 23125

Both ends have standard male submarine thread (1-1/16" x 17). Used to couple two 1/2" I.D. air hose lengths together when both hose ends have female submarine fittings such as that provided by the Female Airhose Fitting (Part number 23065)

Weight: 1/2 lb. 1-3/8" x 2-1/4"

Double Barb Coupling Part No. 23064

This provides a simpler method of coupling two 1/2" I.D. Hose ends together. It is drilled and machined out of a single, solid length of brass round stock and has hose barbs at both ends identical to those on the Airhose Fittings (Part number 23065 and 23066)

Weight: 1/4 lb. **Length:** 7"



Desco Spares Cont.



Airhose Fitting (Female)

Used with standard ½" I.D. Air hose. Provides the hose end with a female submarine fitting.

Weight: ½ lb. 1-3/8" x 4-1/2"

Airhose Fitting (Male)

Part No. 23066

Used with standard ½" I.D. Air hose. Provides the hose end with a male submarine fitting (1-1/16" x 17)

Weight: ½ lb. 1-3/8" x 5"



**U.S. Navy Non-Return Valve
(New Style)**

Part No. 29039

Has male and female submarine threads (1-1/16" x 17). Can be used with the Navy Mark V Helmet and any other helmet that has an air elbow with male submarine threads.

Weight: ½ lb. 1-3/8" x 3"

"T" Reducer

Part No. 23002

One end has a standard male submarine thread (1-1/16" x 17), and the other end has a U.S. Navy standard male torpedo thread (1.118" x 14).

Weight: ½ lb. 1-3/8" x 2-1/4"



"S" Reducer

Part No. 23005

One has a standard male submarine thread (1-1/16" x 17), and the other end has a standard ¾" pipe thread (¾" x 14 NPT)

Weight: ½ lb. 1-3/8" x 2-1/4"

Kirby Morgan Spare Parts Kits

| Part No. 325-090 | | |
|-------------------------------|----------------------|-----|
| Oral nasal Kit, EXO-26 | | |
| Part No. | Description | Qty |
| 510-055 | Oral Nasal Mask | 1 |
| 510-357 | Equalizer | 1 |
| 330-040 | Screw, Socket Head | 2 |
| 330-515 | Washer | 2 |
| 330-900 | Wire Retainer | 1 |
| 340-015 | Mount Ring | 1 |
| 350-047 | Mount Nut | 1 |
| 325-640 | Reg. Mount Nut Tool | 1 |
| 325-645 | Mount Ring Adj. Tool | 1 |

| Part No. 325-305 | | |
|--|---------------|-----|
| EXO Regulator Rebuild Kit (Og & Sd) | | |
| Part No. | Description | Qty |
| 310-013 | O-Ring | 2 |
| 305-030 | Inlet Valve | 1 |
| 335-005 | Spring | 1 |
| 510-011 | O-Ring | 1 |
| 510-533 | Diaphragm | 1 |
| 310-065 | Exhaust Valve | 1 |
| 510-010 | O-Ring | 2 |

| Part No. 325-307 | | |
|-------------------------------|-------------------|-----|
| EXO-26 Mask Spares Kit | | |
| Part No. | Description | Qty |
| 310-025 | Spider | 1 |
| 320-019 | Buckle Cap, Black | 1 |
| 330-105 | Nut | 2 |
| 330-205 | Washer | 2 |
| 330-005 | Screw | 2 |
| 330-506 | Washer | 1 |
| 330-010 | Screw | 1 |
| 330-210 | Washer | 2 |
| 330-020 | Screw | 2 |
| 345-010 | Buckle | 1 |
| 350-040 | Nut | 2 |
| 325-305 | Reg. Rebuild Kit | 1 |

| Part No. 325-630 | | |
|------------------------------|----------------|-----|
| EXO Tool Kit w/ Pouch | | |
| Part No. | Description | Qty |
| 325-620 | Spanner Wrench | 1 |
| 325-625 | Adj. Wrench | 1 |
| 525-613 | Tool Kit Pouch | 1 |

| Part No. 325-635 | | |
|--|----------------------------|-----|
| Original EXO-26 Nose Block Device Kit | | |
| Part No. | Description | Qty |
| 305-025 | Nose Block w/ Pad & Velcro | 1 |
| 330-806 | Velcro Loop, cut | 1 |
| 345-055 | Sandpaper | 1 |

| Part No. 325-321 | | |
|----------------------------------|-------------|-----|
| Regulator Maintenance Kit | | |
| Part No. | Description | Qty |
| 310-022 | O-Ring | 1 |
| 350-120 | Seat | 1 |
| 510-012 | O-Ring | 1 |

| Part No. 325-105 | | |
|------------------------------|--------------|-----|
| Regulator Rebuild Kit | | |
| Part No. | Description | Qty |
| 310-003 | O-Ring | 4 |
| 310-022 | O-Ring | 1 |
| 310-023 | O-Ring | 1 |
| 310-115 | O-Ring | 1 |
| 330-320 | Hex Lock Nut | 1 |
| 350-120 | Seat | 1 |
| 355-035 | Filter | 1 |
| 410-010 | O-Ring | 1 |
| 510-008 | O-Ring | 1 |
| 510-010 | O-Ring | 1 |
| 510-011 | O-Ring | 1 |
| 510-012 | O-Ring | 3 |
| 510-013 | O-Ring | 2 |

| Part No. 325-323 | | |
|--|---------------|-----|
| Regulator Rebuild Kit for Plastic Scuba | | |
| Regulator Adjustable / Non-Adjustable | | |
| Part No. | Description | Qty |
| 510-011 | O-Ring | 1 |
| 510-016 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-552 | Exhaust Valve | 1 |
| 510-553 | Diaphragm | 1 |
| 530-303 | Nylon Locknut | 1 |
| 545-026 | Inlet Valve | 1 |

| Part No. 325-325 | | |
|--|---------------|-----|
| Regulator Rebuild Kit for Metal Scuba | | |
| Regulator | | |
| Part No. | Description | Qty |
| 510-011 | O-Ring | 1 |
| 510-014 | O-Ring | 1 |
| 510-552 | Exhaust Valve | 1 |
| 510-553 | Diaphragm | 1 |
| 530-303 | Nylon Locknut | 1 |
| 545-026 | Inlet Valve | 1 |

The inlet valve on your helmet or mask should be replaced every six months or 200 operating hours, whichever comes first. Your entire regulator should be rebuilt every year or 400 operating

| Part No. 325-650 | | |
|-----------------------------------|----------------------|-----|
| Deluxe Tool Kit for EXO-26 | | |
| Part No. | Description | Qty |
| 325-620 | Spanner Wrench | 1 |
| 325-625 | Back Up Wrench | 1 |
| 325-640 | Reg. Mount Nut Tool | 1 |
| 325-645 | Mount Ring Adj. Tool | 1 |
| 525-613 | Tool Pouch | 1 |

| Part No. 525-309 | | |
|--|---------------|-----|
| Regulator Rebuild Kit for SuperLite | | |
| Helmets & KMB Band Masks | | |
| Part No. | Description | Qty |
| 510-011 | O-Ring | 1 |
| 510-014 | O-Ring | 1 |
| 510-552 | Exhaust Valve | 1 |
| 510-553 | Diaphragm | 1 |
| 520-032 | Washer | 1 |
| 530-303 | Nut | 1 |
| 530-506 | Washer | 1 |
| 530-601 | Retaining Pin | 1 |
| 535-807 | Spring Set | 1 |
| 545-026 | Inlet Valve | 1 |

| Part No. 525-311 | | |
|-------------------------------|-------------------|-----|
| Side Block Rebuild Kit | | |
| Part No. | Description | Qty |
| 310-003 | O-Ring "B" | 1 |
| 510-010 | O-Ring | 2 |
| 510-011 | O-Ring "A" | 1 |
| 510-012 | O-Ring "B" | 1 |
| 510-015 | O-Ring | 1 |
| 520-016 | Knob, Control | 1 |
| 520-024 | Packing | 1 |
| 520-029 | Packing | 1 |
| 520-030 | Washer | 1 |
| 520-031 | Washer | 1 |
| 520-033 | O-Ring "B" | 1 |
| 525-330 | One Way Valve Kit | 1 |
| 540-095 | Washer | 1 |
| 550-034 | Washer | 1 |
| 550-023 | Seat Assembly | 1 |

| Part No. 525-330 | | |
|--------------------------|-------------|-----|
| One Way Valve Kit | | |
| Part No. | Description | Qty |
| 510-483 | O-Ring | 1 |
| 510-491 | O-Ring | 1 |
| 510-492 | O-Ring | 1 |
| 520-028 | Wiper | 1 |
| 535-920 | Spring | 1 |

| Part No. 515-031 | | |
|--|-----------------------------|-----|
| Communication Assy w/ Connector N/S | | |
| Part No. | Description | Qty |
| 515-044 | Water Proof Connector Assy. | 1 |
| 515-032 | Comm. Set | 1 |



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Kirby Morgan Spare Parts Kits Cont.

| Part No. 525-301 | | |
|-----------------------------|-------------|-----|
| O-Ring Kit for SuperLite-17 | | |
| Part No. | Description | Qty |
| 310-003 | O-Ring | 1 |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 3 |
| 510-011 | O-Ring | 2 |
| 510-012 | O-Ring "B" | 1 |
| 510-014 | O-Ring | 1 |
| 510-015 | O-Ring | 1 |
| 510-211 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-446 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 520-033 | O-Ring "B" | 1 |

| Part No. 525-303 | | |
|-------------------------------------|-------------|-----|
| O-Ring Kit for KMB 18/28 Band Masks | | |
| Part No. | Description | Qty |
| 310-003 | O-Ring | 1 |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 3 |
| 510-011 | O-Ring | 2 |
| 510-012 | O-Ring "B" | 1 |
| 510-014 | O-Ring | 1 |
| 510-015 | O-Ring | 1 |
| 510-211 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-483 | O-Ring | 1 |
| 520-033 | O-Ring "B" | 1 |

| Part No. 525-019 | | |
|------------------------------|----------------|-----|
| O-Ring Kit for SuperLite 27B | | |
| Part No. | Description | Qty |
| 310-003 | O-Ring | 1 |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-011 | O-Ring | 1 |
| 510-012 | O-Ring | 1 |
| 510-014 | O-Ring | 1 |
| 510-015 | O-Ring | 1 |
| 510-029 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-450 | O-Ring | 1 |
| 510-483 | O-Ring | 1 |
| 510-490 | O-Ring | 1 |
| 520-033 | O-Ring, Teflon | 1 |

| Part No. 525-317 | | |
|-------------------------------------|-------------|-----|
| Helmet Spares Kit for SuperLite 17B | | |
| NS Mod. 1 | | |
| Part No. | Description | Qty |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 3 |
| 510-011 | O-Ring | 1 |
| 510-012 | O-Ring | 1 |
| 510-014 | O-Ring | 1 |
| 510-015 | O-Ring | 1 |
| 510-016 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-446 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-483 | O-Ring | 1 |
| 510-490 | O-Ring | 1 |
| 520-033 | O-Ring | 1 |

| Part No. 525-317 | | |
|------------------------------------|------------------------|-----|
| Helmet Spares Kit for SuperLite-17 | | |
| Helmet | | |
| Part No. | Description | Qty |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-211 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-446 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-521 | Head Cushion | 1 |
| 510-533 | Neck Dam | 1 |
| 510-690 | Oral Nasal Mask | 1 |
| 510-550 | Oral Nasal Valve | 1 |
| 510-554 | Whisker, Rubber | 1 |
| 510-561 | Exhaust Valve | 1 |
| 510-575 | Nose Block Pad | 1 |
| 515-030 | Communications Set | 1 |
| 525-309 | Regulator Rebuild Kit | 1 |
| 525-311 | Side Block Rebuild | 1 |
| 530-025 | Screw | 1 |
| 530-035 | Screw | 2 |
| 530-045 | Whisker Screw | 1 |
| 530-317 | Nut | 1 |
| 530-320 | Lock Nut | 1 |
| 530-406 | Washer | 1 |
| 530-415 | Washer | 1 |
| 535-900 | Safety Pin (Pull Pin) | 1 |
| 540-080 | Plunger Pin (Push Pin) | 1 |
| 550-061 | Whisker Spacer | 1 |

| Part No. 525-325 | | |
|---------------------------|------------------------|-----|
| Overseas Spares Kit SL-17 | | |
| Part No. | Description | Qty |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-211 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-446 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-521 | Head Cushion | 1 |
| 510-533 | Neck Dam | 2 |
| 510-690 | Oral Nasal Mask | 2 |
| 510-550 | Oral Nasal Valve | 2 |
| 510-554 | Whisker, Rubber | 1 |
| 510-561 | Exhaust Valve | 2 |
| 510-575 | Nose Block Pad | 2 |
| 515-030 | Comm. Set | 2 |
| 525-309 | Regulator Rebuild Kit | 1 |
| 525-311 | Side Block Rebuild Kit | 1 |
| 530-025 | Screw | 1 |
| 530-035 | Screw | 6 |
| 530-045 | Whisker Screw | 2 |
| 530-065 | Screw | 1 |
| 530-080 | Screw | 1 |
| 530-317 | Nut | 2 |
| 530-020 | Lock Nut | 1 |
| 530-406 | Washer | 1 |
| 530-415 | Washer | 1 |
| 535-900 | Safety Pin (Pull Pin) | 1 |
| 540-080 | Plunger Pin (Push Pin) | 1 |
| 550-061 | Whisker Spacer | 2 |

| Part No. 515-030 | | |
|-----------------------------------|-----------------|-----|
| Communication Set SuperLite-17 | | |
| Helmet, KMB-18 & KMB-28 Band Mask | | |
| Part No. | Description | Qty |
| 515-005 | Earphone, Right | 1 |
| 515-006 | Earphone, Left | 1 |
| 515-009 | Microphone | 1 |

O-rings should be lubricated with Dow Corning #111 O-ring silicone grease for maximum life. The demands of your working environment will dictate the need to replace O-rings, as well as the frequency of your diving. At a minimum, all O-rings should be replaced once a year, or every 400 operating hours, whichever comes first. Exposure to extreme heat or ozone will cause O-rings to age prematurely. Helmets and masks which are used in heavy oil environment, in jetting operations, or caustic chemicals will require more frequent O-ring replacement.



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Kirby Morgan Spare Parts Kits Cont.

| Part No. 525-319 | | |
|-------------------------------------|------------------------|-----|
| Spares Kit for KMB-18/28 Band Masks | | |
| Part No. | Description | Qty |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-211 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-509 | Head Harness | 1 |
| 510-510 | Hood & Face Seal | 1 |
| 510-690 | Oral Nasal Mask | 1 |
| 510-550 | Oral Nasal Valve | 1 |
| 510-554 | Whisker, Rubber | 1 |
| 510-561 | Exhaust Valve | 1 |
| 510-575 | Nose Block Pad | 1 |
| 515-030 | Communications Set | 1 |
| 525-309 | Regulator Rebuild Kit | 1 |
| 525-311 | Side Block Rebuild Kit | 1 |
| 530-035 | Screw | 2 |
| 530-045 | Screw | 1 |
| 550-061 | Spacer | 1 |

| Part No. 525-327 | | |
|--|------------------------|-----|
| Overseas Spares Kit for KMB-18/28 Band Masks | | |
| Part No. | Description | Qty |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-211 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-481 | O-Ring | 1 |
| 510-509 | Head Harness | 1 |
| 510-510 | Hood & Face Seal | 1 |
| 510-540 | Oral Nasal Mask | 2 |
| 510-550 | Oral Nasal Valve | 2 |
| 510-554 | Whisker, Rubber | 1 |
| 510-561 | Exhaust Valve | 2 |
| 510-575 | Nose Block Pad | 2 |
| 515-030 | Comm. Set | 2 |
| 525-309 | Regulator Rebuild Kit | 1 |
| 525-311 | Side Block Rebuild Kit | 1 |
| 530-035 | Screw | 6 |
| 530-045 | Screw | 2 |
| 530-095 | Screw | 2 |
| 550-061 | Spacer | 1 |
| 545-007 | Top Band | 1 |
| 545-009 | Bottom Band | 1 |

| Part No. 525-205 | | |
|---|----------------|-----|
| Whisker Exhaust Kit for SuperLite-17 A/B Helmet, KMB-18 A/B & 28B Band Mask | | |
| Part No. | Description | Qty |
| 510-554 | Whisker | 1 |
| 530-020 | Screw | 2 |
| 530-040 | Screw | 4 |
| 530-045 | Screw | 4 |
| 540-015 | Kidney Plate | 2 |
| 540-042 | Adapter Plate | 1 |
| 550-061 | Barrel Spacers | 4 |

| Part No. 525-345 | | |
|--|-----------------------|-----|
| Spares Kit for SuperLite-17B N/S Mod.1 | | |
| Helmet | | |
| Part No. | Description | Qty |
| 510-521 | Head Cushion | 1 |
| 510-533 | Neck Dam | 2 |
| 510-548 | Oral Nasal Mask | 2 |
| 510-550 | Oral Nasal Valve | 4 |
| 510-555 | Whisker, Rubber | 1 |
| 510-563 | Valve, Water Dump | 2 |
| 515-032 | Comms. Set | 2 |
| 525-023 | O-Ring Kit | 1 |
| 525-309 | Regulator Repair Kit | 1 |
| 525-311 | Side Block Repair Kit | 1 |
| 530-021 | Screw | 2 |
| 530-035 | Screw, Port Retainer | 6 |
| 535-900 | Safety Pin | 1 |
| 540-080 | Plunger Pin | 1 |
| 550-062 | Knob, Nose Block | 1 |
| 555-180 | Packing Nut | 1 |

| Part No. 525-130 | | |
|--------------------------------|-------------------------------|-----|
| Front Weight Kit SL-17 & MK-12 | | |
| Helmets | | |
| Part No. | Description | Qty |
| 560-010 | Buffed Weight | 1 |
| 530-047 | Screw, SL-17 | 2 |
| 530-048 | Screw, MK-12 | 2 |
| 530-520 | Washer, #8 Thin | 2 |
| 530-310 | Nut, 8-32 | 2 |
| 560-011 | Chrome Weight (special order) | 1 |

Caution - Warning

Use only Diving Systems International Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by DSI. When ordering spares, always insist on

| Part No. 525-341 | | |
|--------------------------------------|------------------------|-----|
| Overseas Spares Kit for SuperLite-27 | | |
| Helmet | | |
| Part No. | Description | Qty |
| 330-030 | Screw | 2 |
| 330-035 | Washer | 2 |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-029 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-450 | O-Ring | 1 |
| 510-490 | O-Ring | 1 |
| 510-504 | Neck Dam, neo. | 2 |
| 510-690 | Oral Nasal Mask | 2 |
| 510-550 | Oral Nasal Valve | 2 |
| 510-556 | Whisker, Rubber | 1 |
| 510-557 | Valve, Water Dump | 1 |
| 510-575 | Nose Block Pad | 1 |
| 510-625 | Water Dump Whisker | 1 |
| 510-663 | Head Cushion | 1 |
| 510-665 | Chin Cushion | 1 |
| 515-070 | Communications Set | 2 |
| 520-042 | Tie Wrap | 2 |
| 525-309 | Regulator Rebuild Kit | 1 |
| 525-311 | Side Block Rebuild Kit | 1 |
| 530-015 | Screw | 2 |
| 530-018 | Screw | 5 |
| 530-022 | Screw | 2 |
| 530-024 | Screw | 6 |
| 530-035 | Screw | 6 |
| 530-045 | Screw | 2 |
| 530-220 | Screw | 1 |
| 530-519 | Washer | 4 |
| 530-702 | Male Snap | 4 |
| 550-061 | Whisker Spacer | 2 |

| Part No. 525-100 | | |
|---|------------------|-----|
| Hot Water Shroud Kit for SuperLite Helmets & KMB Band Masks | | |
| Part No. | Description | Qty |
| 510-597 | Side Valve Cover | 1 |
| 510-598 | Corrugated Tube | 1 |
| 510-599 | Regulator Cover | 1 |
| 520-042 | Tie Wrap, Large | 2 |
| 520-046 | 1" Flange | 2 |

| Part No. 525-102 | | |
|--|------------------------|-----|
| Double Exhaust Kit for SuperLite-17 A/B Helmet | | |
| Part No. | Description | Qty |
| 510-550 | Exhaust Valve | 1 |
| 510-558 | Double Exhaust Whisker | 1 |
| 510-561 | Exhaust Valve | 1 |
| 520-020 | Valve Body | 1 |
| 520-039 | Tie Wrap, Large | 1 |
| 530-032 | Screw | 3 |
| 550-087 | Db., Exhaust Main Body | 1 |



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Kirby Morgan Spare Parts Kits Cont.

| Part No. 525-333 | | |
|------------------------------------|------------------------|-----|
| Spares Kit for SuperLite-27 Helmet | | |
| Part No. | Description | Qty |
| 330-030 | Screw | 1 |
| 330-035 | Washer | 1 |
| 510-008 | O-Ring | 2 |
| 510-010 | O-Ring | 1 |
| 510-029 | O-Ring | 1 |
| 510-260 | O-Ring | 1 |
| 510-450 | O-Ring | 1 |
| 510-490 | O-Ring | 1 |
| 510-504 | Neck Dam, neo. | 1 |
| 510-690 | Oral Nasal Mask | 1 |
| 510-550 | Oral Nasal Valve | 1 |
| 510-556 | Whisker, Rubber | 1 |
| 510-557 | Valve, Water Dump | 1 |
| 510-575 | Nose Block Pad | 1 |
| 510-625 | Water Dump Whisker | 1 |
| 510-663 | Head Cushion | 1 |
| 510-665 | Chin Cushion | 1 |
| 515-070 | Communications Set | 1 |
| 520-042 | Tie Wrap | 1 |
| 525-309 | Regulator Rebuild Kit | 1 |
| 525-311 | Side Block Rebuild Kit | 1 |
| 530-035 | Screw | 2 |
| 530-045 | Screw | 1 |
| 550-061 | Whisker Spacer | 2 |

| Part No. 525-403 | | |
|--|-----------------|-----|
| Weld Lens Kit for SuperLite Helmets & KMB Band Masks | | |
| Part No. | Description | Qty |
| 510-577 | Bumper (New) | 2 |
| 520-030 | Washer | 2 |
| 530-210 | Mount Screw | 2 |
| 530-320 | Lock Nut | 2 |
| 530-408 | Star Washer | 2 |
| 530-527 | Spacer | 2 |
| 530-535 | Washer | 2 |
| 535-901 | Snap Ring | 1 |
| 540-030 | Mount Ear | 2 |
| 550-025 | Stud | 2 |
| 560-046 | Weld Lens Frame | 1 |

| Part No. 525-106 | | |
|---|--------------------|-----|
| Swing Catch Retro Fit Kit for SuperLite SL-27 Helmets | | |
| Part No. | Description | Qty |
| 520-167 | Washer | 1 |
| 530-018 | Screw | 2 |
| 530-035 | Screw | 1 |
| 530-045 | Screw | 1 |
| 530-546 | Washer | 1 |
| 535-827 | Spring | 1 |
| 545-077 | Swing Catch, retro | 1 |
| 540-089 | Tongue Spacer | 1 |
| 550-061 | Spacer | 1 |
| 550-122 | Spring Spacer | 1 |

| Part No. 525-620 | | |
|--|-----------------------|-----|
| Tool Kit w/ Pouch for SuperLite-17 A/B, SuperLite-17B N/S Helmet & KMB-18 A/B, KMB-18B N/S, & KMB 28 Band Mask | | |
| Part No. | Description | Qty |
| 525-611 | Regulator Adj. Wrench | 1 |
| 525-612 | Socket Wrench | 1 |
| 525-613 | Tool Pouch | 1 |
| 525-616 | Inlet Valve Tool | 1 |
| 525-618 | Castle Wrench | 1 |

Throughout this there are continual references stating that all replacement parts for Diving Systems International products be supplied by an authorized dealer and be genuine Kirby Morgan / DSI parts.

Diving Systems International sells through an exclusive worldwide dealer network. These dealers are the only ones authorized to sell genuine Kirby Morgan / DSI parts. Your life depends on your life support equipment. You should **ALWAYS** insist on genuine Kirby Morgan / Diving Systems International (DSI) repair and replacement parts! This is due in part to recent cases of counterfeit parts found being used in various parts of the industry. In several instances, accidents occurred and divers were injured due to the failure of the counterfeit part. Also, there are many parts for the diving equipment that can be similar to DSI parts, and are being substituted for genuine parts. While the parts may seem to be the same, there can be significant enough differences to hinder the correct function of your DSI gear. Many times these parts are a cheaper part with an inferior fit.

Kirby Morgan Helmet Accessories

SuperLite 27 Communications

A complete, quick change communications module. A

variable in two configurations, standard bare wire post



(shown) or male waterproof connector.

SL-27 Comm. Assy w/ Posts Part No. 515-015

SL-27 Comm. Assy w/ W.P. Connector Part No. 515-016

SuperLite 27 Latex Neck Dam



This optional Latex Neck Dam, **Part No. 510-500**, is available for divers who prefer the fit and seal of a latex dam.

T-Shirts, Sweatshirts and Hats

T-Shirts are available in large, extra large and double extra large. DSI Logo Shirts are available in standard colors. Sweatshirts are available in large and extra-large. (call for availability of colors)

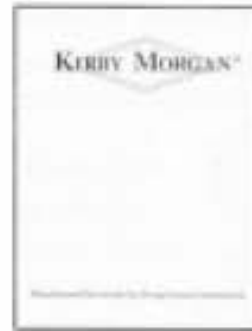
All DSI Shirts and Sweatshirts come with the logo of your choice on the back and DSI logo on the front. Hats with embroidered DSI logo are adjustable baseball type.

| | |
|---------|--|
| 600-004 | SL-17 Logo T Shirt – Lrg., XL |
| 600-005 | DSI Logo T Shirt – Lrg., XL |
| 600-006 | SL-17 T Shirt – Double XL |
| 600-007 | DSI Logo T Shirt – Double XL |
| 600-015 | Crew Neck Sweatshirts (specify DSI or SL-17 Logo) |
| 600-020 | Hooded Sweatshirts (DSI or SL-17 Logo only) |
| 600-030 | Hats w/ Embroidered DSI Logo |
| 600-003 | EXO T Shirt – Lrg., XL |
| 600-008 | EXO T Shirt – Double XL |
| 600-013 | 3 Divers T Shirt – Lrg., XL |
| 600-014 | 3 Divers T Shirt – Double XL |



Manuals

| | |
|-------------------|---------|
| SL-17 | 100-001 |
| SL-17C | 100-006 |
| SL-27 | 100-027 |
| KMB 18/28 | 100-002 |
| Original EXO-26 | 100-026 |
| Standard & BR EXO | 100-030 |
| DCS-2A | 100-005 |
| DCS-3 | 100-003 |



Diving Systems International provides an Operations and Maintenance Manual for each of the major products we manufacture. This manual is included with each and every helmet, mask, and air control box. To order a replacement manual, use the part number listed above.

Restrictor Adapter

This adapter, **Part No. 555-210**, attaches to the I.E. accessories port on the “B” side block. In the event of an

Accidental hose break this adapter serves to restrict the flow of gas able to escape from the port. It should always be used if the hose does not have built in restriction.



Kirby Morgan Helmet Accessories Cont.



Draw String Neck Dam

The Drawstring Neck Dam, **Part No. 510-533**, is the standard neck dam configuration on all SuperLite-17 A/B & U.S. Navy MK-21 Mod. O & Mod. I Helmets. The 1996 Model now has an angled neck chute, allowing the helmet to rest in a more comfortable position and lessening front end ride up. IT also fits a wider variety of neck sizes due to its “trim to fit” design. There are no part number changes due to this alteration. *As of 8/15/95, this changed part is shipped as “standard” on all SuperLite-17A/B helmets.*



Cold Water Neck Dams

The cold water neck dam helps keep the diver comfortable under low temperature conditions when wearing a SL-17 or SL-27 helmet. The extra long bib tucks under the collar of any wet suit or hot water suit.

| Part No. | Description | Neck Size |
|----------|------------------------------------|-----------|
| 510-652 | SL-17 Cold Water Neck Dam, Small | 12” – 15” |
| 510-531 | SL-17 Cold Water Neck Dam, Medium | 14” – 17” |
| 510-530 | SL-17 Cold Water Neck Dam, Large | 16” – 19” |
| 510-653 | SL-17 Cold Water Neck Dam, X Large | 17” – 20” |
| 510-679 | SL-27 Cold Water Neck Dam, Small | 10” – 13” |
| 510-680 | SL-27 Cold Water Neck Dam, Medium | 13” – 18” |
| 510-681 | SL-27 Cold Water Neck Dam, Large | 16” – 20” |

Kirby Morgan Helmet Accessories Cont.

SL-27 Side Weight

The chin weight of the SL 27 has been removed and a side weight added. This brings improved balance to the helmet as well as providing an accessory (lights, cameras, etc.) mounting area. There are four 10 24 threaded holes with screws on the weight for this purpose. For retrofitting, order weight kit # 525-220.



SL-27/17C Swing Catch

This new catch allows the diver a quicker, easier removal of the helmet. As of January of 1996, this part is standard on all SL 27 and SL 17C helmets.

Helmet / Mask Carrying Bag

To protect your SuperLite Helmet or Band Mask, the DSI helmet/mask carrying bag, **Part No. 500-901**, should be used when transporting or storing your helmet between jobs. The DSI bag is made from extra heavy duty, black, ripstop nylon. The bottom of the bag is padded for additional protection. Grommated drain holes allow the bags to breath. The bag is also equipped with large carrying straps and side pockets.



Hot Water Shroud Kit

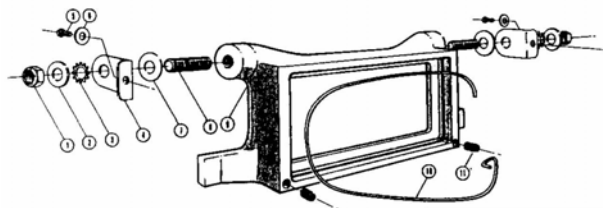
For the SuperLite 17 (shown) & SuperLite 27 Helmet
KMB-18 & KMB-28 Band Mask

Kirby Morgan Helmet Accessories Cont.

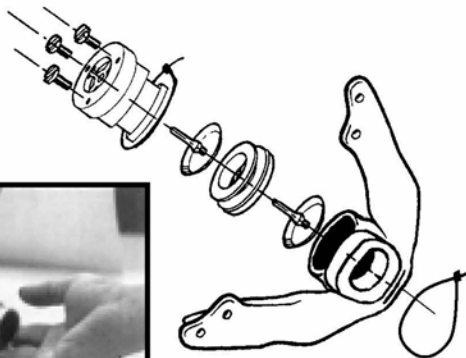
Welding Lens Assembly

This Welding Lens Assembly, **Part No. 525-403** will fit the SuperLite 17 & 17C, SuperLite 27, the KMB-18, and the KMB-28. The port retainers are supplied with two plug screws which are designed to protect the two threaded holes on the port retainer which are provided for the welding lens assembly.

This assembly is designed to provide visual protection only.



We highly recommend that extreme caution be exercised by all divers, regardless of helmet or mask used, to avoid the possibility of underwater explosions when cutting or welding. It cannot be over stressed that *any underwater explosion can result in the injury or death of the diver!*



The Double Exhaust Kit

For SL-17 (shown) & SL-27 Helmets

The Double Exhaust System helps prevent a back flow of biological and certain chemical contaminants into the helmet. This system has been used successfully for diving in biologically contaminated environments. However, there are certain chemicals (i.e., Toluene, Acetic Acid, etc.) that will attack the rubber in the valves in the exhaust assembly. *Be aware of what you are diving in!* More information on contaminated diving and high-risk chemicals may be found in the publication "Diving in High-Risk Environments" by Steven Barsky.

SL-17 Kit

Part No. 525-102

Any Helmet/Dry Suit System must be leak tested according to manufacturer's instructions before every dive in contaminated water!

SuperLite 17/MK-21 Front Weight



This kit, **Part No. 5258-130**, is designed to allow the alteration of the trim, or balance of the SuperLite 17/MK-21 diving helmet. It adds 2 lbs. to the overall weight of the helmet.

Regulator Adjustment Tool Kit

The Tool Kit, **Part No. 525-620**, is available for setting up and adjusting the regulator on your SuperLite-17, SuperLite-27 helmet, KMB-18 & KMB-28 Band Mask for maximum performance.



Kirby Morgan Helmet Accessories Cont.

Latch Catch Assembly: Pull Pin Type for SuperLite 17 A/B Helmets

This catch, **Part NO. 505-010**, standard on all SL-17 Helmets, allows the yoke to be dropped without breaking the seal of the neck clamp. The hole pattern in the Pull Pin Latch Catch body is identical to the Push Pin Latch Catch Body and mounts on the yoke the same. *However, the screws provided with the Pull Pin Latch Catch are longer than the original mount screws. The Push Pin Latch Catch screws should not be used to mount the Pull Pin Latch Catch Body.*

The earlier style Push Pin Latch Catch, Part No. 505-015 is now obsolete.



Oral Nasal Masks

The Oral Nasal masks used in our helmets and full face masks help lower the carbon dioxide levels while improving speech communications. Our new **Silicone Oral Nasal Mask** is made of a superior silicone material which is hypo-allergenic and has a longer work life than standard latex. The new silicone oral nasal, Part No. 510-690, replaces the older 510-540 & 510-547 Latex Oral Nasals.

Part No. 510-690 Silicone Standard Oral Nasal for SL-27, SL-17, SL-17C, KMB-18, & KMB-28

Part No. 510-669 Latex Small Oral Nasal for SL-17, SL-17C, KMB-18, & KMB-28

Part No. 510-569 Latex Small Oral Nasal for SL-27



EXOMask Head Protector

This head protector, **Part No. 300-010**, mounts easily on all models of the EXO Mask. IT provides an added measure protection for divers working in overhead environments or areas where falling debris poses a hazard. There are reinforced areas for mounting lights or small video cameras.

KMB-18 & KMB-28 Head Protector

This head protector, **Part No. 520-010**, mounts on the standard spider (head harness). It provides an added measure of protection for divers working in overhead environments or areas where falling debris poses a hazard. A flat area at the top is provided for mounting lights or television camera.





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Kirby Morgan Helmet Accessories Cont.

SuperFlow® First Stage Regulator

This **CE approved**, low maintenance, high flow regulator, **Part No. 305-161**, has a special anti-freezing design. The balanced piston ensures a minimum cracking pressure and a minimum pressure drop across the entire breathing cycle. Four standard low pressure outlets plus one “straight through” high flow port designed to be used with an optional big bore low pressure hose. Two high pressure ports are standard as well.



Over pressure Relief Valve

The DSI over pressure relief valve, **Part No. 200-017**, is factory adjusted to vent anytime the pressure in the low pressure hose connecting the bailout bottle to your emergency valve exceeds 200 psi. IT is installed in any of the low pressure ports in the first stage regulator.



Manifold Block Assembly

The Manifold Block Assembly, **Part No. 300-150**, with 9/16” O₂ fitting or **Part No. 300-155**, w/ #6 JIC fitting or **Part No. 300-145** w/ standard scuba fitting provides a control point for your bailout supply when using a light weight full face mask like the EXO Mask®. It is equipped with four low pressure outlets and a check valve.



SuperFlow® Scuba Regulators

All Three of our SCUBA regulators have been tested and CE approved

The **Second Stage Adjustable** demand regulator, available in a **metal body or plastic** body, is a slightly modified (for mouthpiece mounting) version of the same regulator used on the SuperLite deep sea diving helmets. It allows the diver to adjust the regulator precisely to his gas flow needs. It has been dive tested to over 1600 feet. *We do not recommend sport diving below 130 feet.*

The **Second Stage Nonadjustable** is the same design as the adjustable but without the Dial-a-Breath® adjustment feature. It makes an excellent octopus back up regulator.



SuperFlow® Adjustable Reg. Assembly (plastic w/ 1st stage)
SuperFlow® Adjustable Reg. Assembly (metal w/ 1st stage)
SuperFlow® 2nd Stage Adjustable Regulator (plastic)
SuperFlow® 2nd Stage Adjustable Regulator (metal)
SuperFlow® 2nd Stage Non-Adjustable Regulator (plastic)
Optional Big Bore Hose

Part No. 300-266
Part No. 300-276
Part No. 305-166
Part No. 305-175
Part No. 305-171
Part No. 255-050

Kirby Morgan EXO Accessories

EXO Mask Communications Assemblies

Complete, quick change communication assemblies are available with standard bare wire post connections or male waterproof connector whip.



Original EXO-26
Part No. 315-201
Comm. Assy w/ Posts
Part No. 315-206



Standard & BR EXO
Part No. 315-210
Comm. Assy w/ Posts
Part No. 315-215

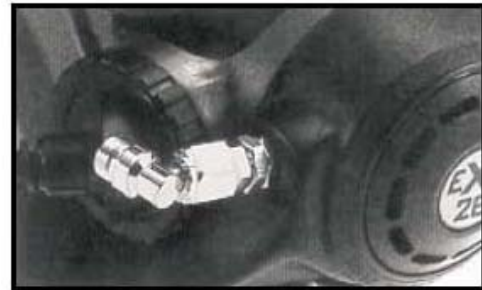


**Nose Block Device
for use with the
Original EXO
Mask**

While the Original EXO mask has a nose pocket to allow SCUBA mask style ear equalizing, the use of some hoods with a thicker face seal, oversized gloves or 3 finger mitts can make pinching the nose difficult. Proper installation and use of this **Nose Block Device, Part No. 325-635**, will make equalizing very easy.

EXO Mask Carrying Bag

To protect your EXO Mask, the DSI mask carrying bag, **Part No. 300-902**, should be used when transporting or storing your mask between dives. The DSI bag is made from extra heavy duty, black, ripstop nylon. The bottom of the bag is zippered for additional storage. The bag is also equipped with large carrying straps.



Air Inlet Swivel

The Air Inlet Swivel, **Part No. 305-036**, is supplied on all **Original** and **Standard** EXOs. It allows the regulator hose to move freely and align with the mask inlet without putting a stress on the hose coupling. It uses standard SCUBA threads for incoming breathing air. It may also be used on second stage scuba regulators and the EXO-BR.

Oral Nasal Conversion Kit Part No. 325-090

This kit for converting an Original EXO-26 to the newer Oral Nasal configuration. Addition of the oral nasal can help keep CO₂ levels to a minimum and improve communications.

EXO Mask Face Seal Cushion Kit

This optional cushion, **Part No. 325-025**, is designed to give divers with smaller faces a better seal in the EXO Full Face mask. It is easily installed into the interior of the face seal.



AAI Float Hose



A high-quality, yellow PVC braided hose made from ingredients listed in the FDA Code of Federal Regulations, Title 21. Made to strict standards, TB130 offers a high quality hose in both FDA and industrial markets.

| Physical Properties | |
|---------------------|-----------|
| Safety Factor | 4-1 |
| Hardness | 75 A |
| Color | Yellow |
| Specific Gravity | 1.21 |
| Gravity in Water | Buoyant |
| Tensile Strength | 2330 psi |
| Working Pressure | 300 psi |
| Bend Radius | 2 inches |
| Continuous Lengths | 2500 ft |
| Brittle Temperature | -38° |
| Nominal I.D. | 3/8" |
| Nominal O.D. | 5/8" |
| Fitting Type | Long Barb |

Options: Can be made into a 3, 4, or 5 part divers umbilical.
Custom colors are available as well as custom printing on the hoses.
(Minimum orders may apply)

Gates 33HB Divers Air Hose



| Part No. | Nom. I.D. | | Nom. O.D. | | Max. W.P. | | Suction | | Min. Bend Radius | | Wt. Per Ft. | | Standard Pack | Stock (X) or Minimum Order Qty. | Gates Item No. |
|----------|-----------|------|-----------|------|-----------|-------|----------|---------|------------------|------|-------------|------|-----------------|---------------------------------|----------------|
| | (In.) | (mm) | (In.) | (mm) | (psi) | (MPa) | (In. Hg) | (mm Hg) | (In.) | (mm) | (Lbs.) | (Kg) | | | |
| 302500 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 50 - 299 ft. | *** | 3333-0037 |
| 302501 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 300 - 399 ft. | *** | 3333-0012 |
| 302502 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 400 - 499 ft. | *** | 3333-0013 |
| 302503 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 500 - 599 ft. | *** | 3333-0014 |
| 302504 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 600 - 699 ft. | *** | 3333-0015 |
| 302505 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 700 - 799 ft. | *** | 3333-0005 |
| 302506 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 800 - 899 ft. | *** | 3333-0006 |
| 302507 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 900 - 999 ft. | *** | 3333-0009 |
| 302508 | 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .20 | .09 | 1000 - PLUS ft. | X | 3333-0017 |
| 302509 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 50 - 299 ft. | *** | 3333-0038 |
| 302510 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 300 - 399 ft. | *** | 3333-0030 |
| 302511 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 400 - 499 ft. | *** | 3333-0031 |
| 302512 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 500 - 599 ft. | *** | 3333-0032 |
| 302513 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 600 - 699 ft. | *** | 3333-0033 |
| 302514 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 700 - 799 ft. | *** | 3333-0040 |
| 302515 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 800 - 899 ft. | *** | 3333-0041 |
| 302516 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 900 - 999 ft. | *** | 3333-0043 |
| 302517 | 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.89 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 1000 - PLUS ft. | X | 3333-0035 |
| 302518 | 3/4 | 19.0 | 1.25 | 31.8 | 750 | 5.17 | 25.0 | 635 | 6.0 | 152 | .46 | .21 | 300 - 399 ft. | *** | 3333-0047 |
| 302519 | 3/4 | 19.0 | 1.25 | 31.8 | 750 | 5.17 | 25.0 | 635 | 6.0 | 152 | .46 | .21 | 600 - 699 ft. | *** | 3333- |
| 302520 | 3/4 | 19.0 | 1.25 | 31.8 | 750 | 5.17 | 25.0 | 635 | 6.0 | 152 | .46 | .21 | 900 - 999 ft. | *** | 3333- |

Recommended For: Handling mixtures of oxygen, helium and nitrogen gases customarily used in diving applications as air breathing hose. The kink resistant hose is designed for extra long wear under normal operating use.

Temperature: -40°F to +120°F (-40°C to +49°C) continuous service

Construction: Tube: Type C (Nitrile) Black

Reinforcement: Braided, high tensile synthetic textile cord

Cover: Type A (Neoprene) Black, All sizes are perforated

Couplings: Corrosion resistant couplings supplied and applied by diving contractors.

Packaging: 50' to 299' lengths: One continuous length in a reel

300' and longer lengths: One continuous length on a reel

Branding: Continuous ink print label. Example "33HB Divers' Air 1/8 Inch (9.5mm) Made in U.S.A."

Special Order Requirements: ** Contact Aqua-Air Industries, Inc. for special orders. Lengths less than 1,000 feet are only stocked on an "as available" basis, as by-products of producing 1,000' lengths. Special production runs require minimum order quantities of 10,000 feet per size. Special production runs for **SPECIFIC LENGTHS** require minimum order quantities of 10,000 feet per size and a 35% (x 1.35) premium to the above prices.

Standards: Meets MIL-H-2815G Section 3.12.2 off-gassing for air breathing applications, especially diving.

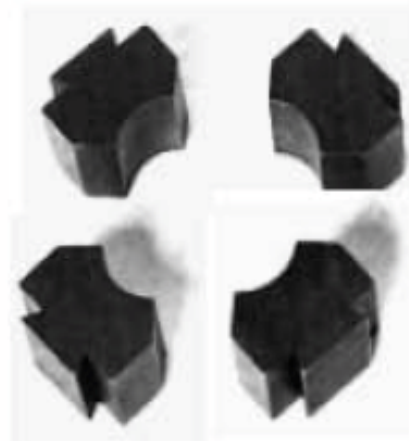
Hose Coupling Ferrule Crimper

Coupling Ferrule Crimper

Part Number: 4549-01 000

For Attaching 390C Brass Couplings to Synflex 3630

- * Hand operated crimping tool with removable handle
- * Easy to bench mount – weighs 27 lbs
- * Use with die set series 4548, sold separately by hose size
- * Comes with complete instructions



Dies for Coupling Ferrule Crimper

Die set contains (4) mating segments

| Hose ID. (in) | Synflex Part Number 4548 |
|------------------|-----------------------------|
| 3/16 | 03750 |
| 1/4 | 05000 |
| 3/8 | 06000 |
| 1/2 | 07500 |
| 3/4 | 10750 |

Hose Coupling Swaging Machines and Tools

Designed to Attach Synflex Permanent Couplings to Synflex Hose

- Synflex swaging equipment produces smooth, uniform coupling surfaces, without raised edges or ridges common in other coupling methods.
- Complete range of coupling swaging pushers and dies, up to -16 size, are ordered separately.

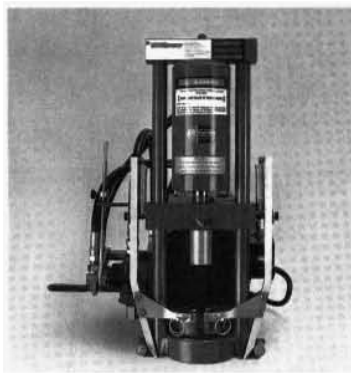


SST

SST

Part Number: 4530-01002

- Portable hand-operated machine for field assembly.
- Frame can be attached to bench vise or directly to a table with separate mounting bracket
- Weight: 8 lbs.



Super Mark V

Super Mark V

Part Number: 4530-00553

- Automatic coupling swaging action
- Capable of 10-second assembly cycle time
- 1 HP, 60 Hz, 115/208/230 V Single Phase Motor
- Weight: 120 lbs.



Mark IX

Mark IX

- Fully automatic; opens dies to release completed coupling assembly
- Fast actuation; capable of 5-second cycle time
- Three power supply options for a broad range of production needs
- Weight: 131 lbs (*Options 1 & 2*)

Option 1

1 HP, 60 Hz, 115/208/230 V Single phase Motor; Medium Duty

Part Number: 4530-009S0

Option 2

1 HP, 60 Hz, 230/460 V Three Phase Motor; Medium Duty

Part Number: 4530-009S1

Option 3

For heavy duty, continuous high speed production assembly, the Mark IX (a), can be equipped with a high capacity power unit (b)

(a) Mark IX swaging machine without standard power supply

Part Number: 4530-009S4

(b) Commercial duty hydraulic power unit with 5 HP three phase 230/460 volt motor, 5 gallon reservoir; 4.1 GPM displacement

Part Number: 453C-00020

Hose Cutters and Accessories



Hand-Held Hose Cutter
Part Number: 4523-04002
A handy tool for cutting
Synflex hose 1/8 inch to
1/2 inch in diameter.
Blades are replaceable
Vinyl cushioned grips
Replacement Blade
Part Number: 4523-04003



Vise Blocks
Part Number: 4504-000000
For 3/16 inch through 1/2 thick I.D. hose
For 3/4 inch through 1 inch I.D. hose
Use in making assemblies

Swage Lubricant
Part Number: 4545-01001

A lubricant especially for use in assembly
of Synflex reusable and permanently
attached stainless steel couplings.



Hose Cutter
Part Number: 4523-00000
Use for cutting all sizes of
Synflex hose and tubing. The
cutter has a spring-actuated guard
that holds the hose and protects
the operator.
Replacement Blade
Part Number: 4524-00000



**Twin-Line Hose
Separation Tool**
Part Number: 4573-00000
Designed for separating
Twin-Line hose.
Replacement Blade
Part Number: 4573-01000

Clamps
Plastic covered clamps to secure hose.



Insertion Depth Marker
Part Number: 45J0-04603

| For Hose Part Number | Part Number | Bolt Hole Size (in) |
|---|-------------|---------------------|
| 3130-02 | 45J0-00201 | 13/32 |
| 3000-03, 3130-03, 3630-03, 3800-03, 3160-03 | 45J0-00202 | 13/32 |
| 3000-04, 3130-04, 3630-04, 3800-04, 3160-04 | 45J0-00204 | 13/32 |
| 3R80-03, 3000-05, 3130-05, 3160-05 | 45J0-00203 | 13/32 |
| 3R80-04 | 45J0-00205 | 13/32 |
| 3000-06, 3130-06, 3630-06, 3800-06, 3160-06 | 45J0-00206 | 13/32 |
| 3R80-06, 3000-08, 3130-08, 3630-08, 3700-08, 3800-08 | 45J0-00207 | 13/32 |
| 3R80-08 | 45J0-00208 | 13/32 |
| 3000-12, 3130-12, 3160-12 | 45J0-00209 | 13/32 |
| 3R80-12, 3630-12 | 45J0-00210 | 17/32 |
| 3000-16, 3160-16 | 45J0-00211 | 17/32 |
| 3R80-16 | 45J0-00212 | 17/32 |

O₂ Hose/Hot Water Hose



Construction:

Series K1154/K1156

- Tube – Black PVC compound
- Reinforcement – High tensile strength yarn
- Cover – PVC compound, available in two colors: K1154 – red & K1156 – blue

Features:

- Economical, flexible and lightweight
- Excellent abrasion resistance
- U.V. and weather resistant
- Non-marking pin-pricked cover
- Silicone-free core and cover
- Complies with RMA's Class B designation for medium/high oil resistance
- One piece packaging, no random lengths

Service Temperature Range: +14°F (-10°C) to 150°F (+65°C)

| Series No. | | Size Code | Nominal ID | | Nominal OD | | Max. Working† Pressure (PSI) | | Standard Length Reels | Approx. Wt. per Pkg. |
|------------|------------|-----------|------------|------|------------|------|------------------------------|----------------|-----------------------|----------------------|
| K1154 Red | K1156 Blue | | (in) | (mm) | (in) | (mm) | @ 70°F (20°C) | @ 122°F (50°C) | | |
| √ | √ | 06 | 3/8 | 9.5 | .625 | 15.9 | 300 | 150 | 500 ft. | 56 lbs. |
| √ | √ | 08 | 1/2 | 12.7 | .750 | 19.1 | 300 | 150 | 500 ft. | 77 lbs. |

Pusher and Die Tools for Synflex Swaging Machines



Pushers

- Pusher selection is based on coupling end design chosen for assembly.

To attach a 3/8 inch I.D. hose to a JIC37° Female Swivel coupling with a -6 thread size – Part Number: 3903-06546



Dies

- Swaging dies are applied in paired sets. Die selection is based on hose series and size. Die part numbers are listed in hose specification charts.

Example: Two attach coupling Part Number: 3903-06546 to a series 3130 3/8 inch I.D. hose



Die Pusher Storage Rack

Rack holds 12 pushers and 8 dies. Welded 16 gauge steel frame can be wall mounted or used on bench top. Rack is 19 inches wide; 22-1/2 inches high; extends 3 inches from mounting surface.

Part Number: 45J0-03401

Synflex 3130



Features

- Temperature Range: -40°F to 212°F (-40°C to 100°C) or to 150°F (66°C), with water-based or fire resistant fluids
- Low Elongation
- Best Value 100R7 Hose

Construction

- Black Polyurethane Cover
- Spiraled or Braided Synthetic Fiber Reinforcement
- Nylon-Lined Core Tube

Applications

- General Hydraulics
- High Pressure Gas Transfer
- Chemical Transfer

| Part Number | Nominal LD | | Maximum OD | | Minimum Bend Radius | | Maximum Working Pressure | | Minimum Burst Pressure | | Weight | | Swage Die Part No. 4540 | Permanent Coupling Series |
|-------------|------------|------|------------|------|---------------------|-----|--------------------------|-----|------------------------|-----|-----------|---------|-------------------------|---------------------------|
| | in | mm | in | mm | in | mm | psi | bar | psi | bar | lbs/100ft | kg/100m | | |
| 3130-02 | 1/8 | 3.2 | .339 | 8.6 | 1/2 | 13 | 2,500 | 172 | 10,000 | 689 | 2.5 | 3.7 | 302 | 3903/7903 |
| 3130-03 | 3/16 | 4.8 | .429 | 10.9 | 3/4 | 19 | 3,000 | 207 | 12,000 | 827 | 4.6 | 6.8 | 303 | 3903/7903 |
| 3130-04 | 1/4 | 6.4 | .512 | 13.0 | 1-1/4 | 32 | 3,000 | 201 | 12,000 | 827 | 5.7 | 8.5 | 304 | 3903/7903 |
| 3130-05 | 5/16 | 7.9 | .596 | 15.1 | 1-3/4 | 44 | 2,500 | 172 | 10,000 | 689 | 6.9 | 10.3 | 305 | 3903/7903 |
| 3130-06 | 3/8 | 9.5 | .662 | 16.8 | 2 | 51 | 2,250 | 155 | 9,000 | 620 | 9.5 | 14.1 | 306 | 3903/7903 |
| 3130-08 | 1/2 | 12.7 | .818 | 20.8 | 3 | 76 | 2,000 | 138 | 8,000 | 552 | 14.1 | 21.0 | 306 | 3903/7903 |
| 3130-12 | 3/4 | 19.1 | 1.069 | 27.2 | 5 | 127 | 1,250 | 86 | 5,000 | 345 | 19.3 | 28.7 | 312 | 3903/7903 |
| 3130-16 | 1 | 25.4 | 1.342 | 34.1 | 8 | 203 | 1,000 | 69 | 4,000 | 276 | 26.4 | 39.3 | 316 | 3903/7903 |

Synflex 3580



Features

- Temperature Range: -40°F to 225°F (-40°C to 107°C) or to 140°F (60°C), with Water-Based or Fire Resistant Fluids
- Single Permanent Coupling Series Fits All Sizes
- SAE 100R7 Dimensions
- Cut Resistant – Heavy Duty Design

Construction

- Black Polyurethane Non-Perforated Cover
- Braided Bronze Coated steel Wire Reinforcement
- Polyester Core Tube

Applications

- Hydraulic Tools (Not Recommended for Pneumatic Pressure)
- Lubrication Systems
- Mobile Hydraulics
- Agriculture Equipment

| Part Number | Nominal ID | | Maximum OD | | Minimum Bend Radius | | Maximum Working Pressure | | Minimum Burst Pressure | | Weight | | Swage Die Part No. 4540 | Permanent Coupling Series |
|-------------|------------|------|------------|------|---------------------|-----|--------------------------|-----|------------------------|-----|------------|----------|-------------------------|---------------------------|
| | in | mm | in | mm | in | mm | psi | bar | psi | bar | lbs/100 ft | kg/100 m | | |
| 3580-04 | 1/4 | 6.4 | .485 | 12.3 | 1-3/4 | 44 | 3,500 | 241 | 14,000 | 965 | 10.3 | 15.3 | 304 | 3903/7903 |
| 3580-06 | 3/8 | 9.5 | .645 | 16.4 | 2-1/4 | 57 | 3,250 | 221 | 13,000 | 884 | 18.1 | 26.9 | 306 | 3903/7903 |
| 3580-08 | 1/2 | 12.7 | .765 | 19.4 | 3-1/4 | 83 | 3,000 | 207 | 12,000 | 827 | 20.7 | 30.8 | 308 | 3903/7903 |
| 3580-12 | 3/4 | 19.1 | 1.065 | 27.1 | 6 | 152 | 2,250 | 155 | 9,000 | 620 | 33.6 | 50.0 | 312 | 3903/7903 |

Synflex 3350



Features

- Temperature Range: -40°F to 212°F (-40°C to 100°C) or to 150°F (66°C), with water-based or fire resistant fluids
- 3000 PSI Rating – All hose sizes

Construction

- Black Polyurethane Cover
- Braided Synthetic Fiber Reinforcement
- Nylon Lined Core Tube

Applications

- Material Handling Equipment
- Injection Molding Machinery
- Multi-Purpose Factory Automation
- Lubrication
- Machine Tools

| Part Number | Nominal ID | | Maximum OD | | Minimum Bend Radius | | Maximum Working Pressure | | Minimum Burst Pressure | | Weight | | Swage Die Part No. 4540 | Permanent Coupling Series Steel |
|-------------|------------|------|------------|------|---------------------|-----|--------------------------|-----|------------------------|-----|-----------|---------|-------------------------|---------------------------------|
| | in | mm | in | mm | in | mm | psi | bar | psi | bar | Lbs/100ft | Kg/100m | | |
| 3350-03 | 3/16 | 4.8 | .427 | 10.8 | 1-1/4 | 31 | 3,000 | 207 | 12,000 | 827 | 4.9 | 7.3 | 303 | 3903/7903 |
| 3350-04 | 1/4 | 6.4 | .508 | 12.9 | 1-3/4 | 44 | 3,000 | 207 | 12,000 | 827 | 6.2 | 9.2 | 304 | 3903/7903 |
| 3350-05 | 5/16 | 7.9 | .655 | 16.6 | 2 | 51 | 3,000 | 207 | 12,000 | 827 | 11.0 | 16.3 | 306 | 390H |
| 3350-06 | 3/8 | 9.5 | .723 | 18.4 | 3 | 76 | 3,000 | 207 | 12,000 | 827 | 13.2 | 19.6 | JO6N | 390H/790H |
| 3350-08 | 1/2 | 12.7 | .906 | 23.0 | 3-1/2 | 89 | 3,000 | 207 | 12,000 | 827 | 19.1 | 28.4 | H08 | 390H/790H |
| 3350-10 | 5/8 | 15.9 | 1.072 | 27.2 | 4 | 102 | 3,000 | 207 | 12,000 | 827 | 28.1 | 41.8 | 35340 | 390H |
| 3350-12 | 3/4 | 19.1 | 1.238 | 31.4 | 5 | 127 | 3,000 | 207 | 12,000 | 827 | 35.4 | 52.7 | N12 | 390N/790H |
| 3350-16 | 1 | 25.4 | 1.483 | 37.7 | 8 | 203 | 3,000 | 207 | 12,000 | 827 | 42.0 | 62.5 | B1600-001 | 390N |

Synflex 3R80



Features:

- Temperature Range: -40°F to 212°F (-40°C to 100°C) or to 150°F (66°C), with water-based or fire resistant fluids
- Long life in impulse cycling and flexing
- Designed for permanent or reusable couplings

Construction:

- Black Polyurethane Cover
- Braided Synthetic Fiber Reinforcement
- Nylon Core Tube

Applications

- General Hydraulic Systems
- Hydraulic Tools
- Mobile Equipment
- High Pressure Pneumatic Systems

| Part Number | Nominal ID | | Maximum OD | | Minimum Bend Radius | | Maximum Working Pressure | | Minimum Burst Pressure | | Weight | | Swage Die Part No. 4540 | Permanent Coupling Series Steel | Reusable Coupling Series Steel |
|-------------|------------|------|------------|------|---------------------|-----|--------------------------|-----|------------------------|------|-----------|---------|-------------------------|---------------------------------|--------------------------------|
| | in | mm | in | mm | in | mm | psi | bar | psi | bar | lbs/100ft | kg/100m | | | |
| 3R80-03 | 3/16 | 4.8 | .517 | 13.1 | 1-1/2 | 38 | 5,000 | 345 | 20,000 | 1379 | 7.7 | 11.5 | H03 | 390H/790H | 390J |
| 3R80-04 | 1/4 | 6.4 | .627 | 15.9 | 2 | 51 | 5,000 | 345 | 20,000 | 1379 | 11.8 | 17.6 | H04 | 390H/790H | 390J |
| 3R80-06 | 3/8 | 9.5 | .767 | 19.5 | 2-1/2 | 64 | 4,000 | 276 | 16,000 | 1103 | 14.8 | 22.0 | H06 | 390H/790H | 390J |
| 3R80-08 | 1/2 | 12.7 | .894 | 22.7 | 4 | 102 | 3,500 | 241 | 14,000 | 965 | 19.0 | 28/.3 | H08 | 390H/790H | 390J |
| 3R80-12 | 3/4 | 19.1 | 1.138 | 28.9 | 6-1/2 | 165 | 2,250 | 155 | 9,000 | 620 | 25.6 | 38.1 | H012 | 390H/790H | 390J |
| 3R80-16 | 1 | 25.4 | 1.472 | 37.4 | 10 | 254 | 2,000 | 138 | 8,000 | 552 | 38.5 | 57.3 | H016 | 390H | 390J |

Synflex 34BA



Features

- Temperature Range: -15°F to 150°F (-26°C to 66°C)
- Bright Safety Yellow Cover
- Lightweight Kink-Resistant Design
- Clean, Non-Contaminating Thermoplastic Core Tube
- Additional Sizes to 1"

Construction

- Yellow PVC Cover
- Synthetic Fiber Reinforcement
- Polyester Lined Core Tube

Applications

- Self-Contained Rescue Air Tanks
- Air Lines for Asbestos Removal Environments
- Sand Blasting Area Breathing Apparatus

| Part Number | Nominal ID | | Maximum O.D. | | Minimum Bend Radius | | Maximum Working Pressure | | Weight | | Swage Die Part No. 4540 | Reusable Coupling Series |
|-------------|------------|-----|--------------|------|---------------------|----|--------------------------|-----|-----------|---------|----------------------------|--------------------------|
| | in | mm | in | mm | in | mm | psi | bar | lbs/100ft | kg/100m | | Stainless |
| 34BA-06 | 3/8 | 9.5 | .697 | 17.7 | 1-1/2 | 38 | 250 | 17 | 13.7 | 20.7 | H06 | 390L |

Polyforce II



Features & Benefits

- Lightweight
 - Easy to Handle
- Flexible
 - Easy to route
- Boston PVC tube
 - Moderate oil resistance
- Boston PVC cover
 - Abrasion, age, ozone and moderate oil resistance
- 95% One piece reels and coils
 - Economical-less waste
- Continuous permanent brand
 - Easy identification

| ID | OD | Wt./C Ft. | WP-PSI |
|-------|---------|-----------|--------|
| 1/4 | 1/2 | 7.2 | 250 |
| 5/16 | 23/64 | 8.3 | 250 |
| 3/8 | 5/8 | 12.2 | 250 |
| 1/2 | 3/4 | 14.5 | 250 |
| 5/8 | 57/64 | 20.5 | 250 |
| 3/4 | 1-1/32 | 22.6 | 250 |
| 1 | 1-5/16 | 34.0 | 200 |
| 1-1/4 | 1-11/16 | 52.0 | 200 |
| 1-1/2 | 1-15/16 | 61.0 | 200 |
| 2 | 2-1/2 | 91.0 | 125 |

Specifications

- **Tube:** PVC
- **Reinforcement:** 2 Textile Spirals
- **Cover:** PVC
- **Temperature:** -10°F to +150°F
- **Type of Branding:** Laser Print
- **Working Pressure:** 125 to 250 PSI

Synflex 3630



Features

- Temperature Range: -10°F to 150°F (-23°C to 66°C) or to 130°F (54°C), with 390C Brass Couplings
- Standard Bold Colors, Gray, Red, Blue, Yellow or Black (Standard Color Chart Below)
- Excellent Abrasion and Impact Resistance
- Light Weight
- 4:1 Burst to Working Pressure Safety Factor
- Long Life Over Rubber Hoses

Construction

- PVC Cover
- Spiraled Synthetic Fiber Reinforcement
- PVC Core Tube

Applications

- Air Power Tools
- Pneumatic Motion Control
- Industrial Water Supply Lines
- Compatible with Many Chemicals and Gases

| Part Number | Nominal ID | | Maximum OD | | Minimum Bend Radius | | Maximum Working Pressure | | | | Weight | |
|-------------|------------|------|------------|------|---------------------|----|--------------------------|-----|---------|-----|------------|----------|
| | in | mm | in | mm | in | mm | @ 70°F | | @ 150°F | | Lbs/100 ft | Kg/100 m |
| | | | | | | | psi | bar | psi | bar | | |
| 3630-03 | 3/16 | 4.8 | .399 | 10.1 | 7/16 | 11 | 300 | 20 | 250 | 17 | 4.5 | 6.7 |
| 3630-04 | 1/4 | 6.4 | .490 | 12.5 | 5/8 | 16 | 300 | 20 | 250 | 17 | 6.3 | 9.4 |
| 3630-05 | 5/16 | 7.9 | .550 | 14.0 | 3/4 | 19 | 300 | 20 | 250 | 17 | 7.9 | 11.8 |
| 3630-06 | 3/8 | 9.5 | .639 | 16.2 | 7/8 | 22 | 300 | 20 | 250 | 17 | 9.7 | 14.4 |
| 3630-08 | 1/2 | 12.7 | .794 | 20.2 | 1-1/4 | 32 | 300 | 20 | 250 | 17 | 13.6 | 20.2 |
| 3630-12 | 3/4 | 19.1 | 1.097 | 27.9 | 2-1/2 | 64 | 300 | 20 | 250 | 17 | 22.9 | 34.1 |
| 3630-16 | 1 | 25.4 | 1.342 | 34.1 | 3-1/2 | 89 | 250 | 17 | 250 | 17 | 31.4 | 46.7 |

| Coupling Chart | | | | | | |
|----------------|------------------|-----------|--------------------|----------------|------------|------------|
| Hose ID (in) | Permanent Steel | | Brass Couplings | | | |
| | Coupling Series* | Swage Die | Coupling Series ** | Brass Ferrules | Swage Die | Crimp Die |
| 3/16 | 3903/7903 | 4540-303 | 390C | 3981-30220 | 4540-00001 | 4548-03750 |
| 1/4 | 3903/7903 | 4540-304 | 390C | 3981-30320 | 4540-00002 | 4548-05000 |
| 5/16 | 3903/7903 | 4540-305 | - | - | 4540-00003 | - |
| 3/8 | 3903/7903 | 4540-306 | 390C | 3981-19120 | - | 4548-06000 |
| 1/2 | 3903/7903 | 4540-308 | 390C | 3981-30420 | - | 4548-07500 |
| 3/4 | 3903/7903 | 4540-312 | 390C | 3981-30520 | - | 4848-10750 |
| 1 | 390H-16 | 4540-B16 | - | - | - | - |



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Synflex 3630 Cont.

| 3630 Hose – Standard Color Chart | | | | | |
|----------------------------------|------|-----|--------|------|-------|
| Part Number | Gray | Red | Yellow | Blue | Black |
| 3630-03 | * | * | | | * |
| 3630-04 | * | * | * | * | * |
| 3630-05 | | | | | |
| 3630-06 | * | | * | | |
| 3630-08 | * | | * | * | |
| 3630-12 | * | * | | | |
| 3630-16 | * | * | | | |

Hydraulic Twin Line – Hydraulic Hose Synflex 3770



Features

- SAE J517 Non-Conductive Hose Construction, Less than 50 Micro-amperes Leakage when subjected to 75,000 volts/ft for 5 minutes
- Eliminates abrasion caused by relative movement of adjacent hoses
- Flat Profile is flexible and compact
- Broad temperature and pressure ranges
- Special Separation Tool to prevent damaging Part No. 4573-00000

Construction

- Non-Conductive Marking
- Black Polyurethane Non-Perforated Cover
- Most Synflex Non-Conductive Hoses can be permanently joined to form twin-line or multi-line design
- Hoses form flat assembly

Applications

- General Hydraulics Systems that may contact high voltage sources
- Aerial Equipment
- Mobile Machinery
- Hose Retractors and Sheave Routings
- Rescue Tools
- Hydraulic Tools

Aeroquip FC373-16/FC375-12

Polyon™/Thermoplastic SAE 100R7 Nonconductive

Construction: Thermoplastic elastomer tube, single braid Kevlar reinforcement and an orange non-perforated polyurethane cover

Application: Hydraulic system service with petroleum, fire-resistant, and water base fluids, fuel, and lubricating systems.

Operating Temperature Range: -65°F to +200°F (-54°C to +93°C), water not to exceed +150°F (+66°C).

Pressure Hose: 2250 PSI Max Working Pressure

Hose ID – .75"

Hose OD – 1.06"

Min. Bend Radius – 8.00"



Aqua-Air Hot Water Systems

Features:

- Digital Controlled Process Temperature
- Fuel System Digital Control + or - 1°F
- Cathodic Protected – AAI Anode Assemblies
- Mechanical Temperature Probe
- Stainless Steel Pump
- Primary Cartridge Fuel Filter
- AAI Flow Mixing Temperature Stabilizer Assembly
- G.F.C.I. Protected
- No Mixing Valves
- Digital Control Microprocessor
- Electrical Requirements: 115V 60Hz, Single Phase, 16.4 Amps

All AAI Hot Water Units Equipped with: “5 way Protection System”

- Digital Control Temperature Probe – High Temperature Alarm Option
- Magnetic Flow Control Sensor
- Primary Fuel Solenoid Valve
- Diver's Water Mixing Tank
- AAI Water Filter Assembly – 100 Micron



Dragon



Mini Portable



Mini Pete

| | Dragon | Mini Pete | Mini Portable |
|---|--|---|---|
| | All Aluminum Frame w/ AAI Urethane Molded Supports | Aluminum Cabinet Mounted w/ Urethane Foot Pads, Stainless Steel Cover & Doors | Roll-Around Cart w/ Pneumatic Wheels & Stainless Steel Cover |
| Heater Output | 350,000 BTU | 350,000 BTU | 350,000 BTU |
| Output | 6 gal/min – 120 psi | 6 gal/min – 120 psi | 6 gal/min – 120 psi |
| Fuel Tank – Urethane or Aluminum | 18 gal | 8 gal | 8 gal |
| Length | 49” | 38” | 40” |
| Width | 44” | 27” | 19” |
| Height | 48” | 50” | 32” |
| Dry Weight | 725 lbs. | 325 lbs. | 150 lbs. |
| Standard Package | Mixing Tank, Water Filter, S.S. Pump | Mixing Tank, Water Filter, S.S. Pump | Mixing Tank, Water Filter, S.S. Pump |

Mini Portable Hot Water System



Front photo of 110 Volt and/or 220 Volt Mini Portable Hot Water System

Features:

- Hand truck type cart with pneumatic tires
- Digital Control Microprocessor Temperature ± 1 or $\pm 1^\circ\text{F}$
- Cathodic Protected – AAI Anode Assemblies
- Mechanical Temperature Probe
- Stainless Steel Pump
- Primary Cartridge Fuel Filter
- AAI Flow Mixing Temperature Stabilizer Assembly
- G.F.C.I. Protected
- No Mixing Valves
- Electrical Requirements: 110V 60Hz, Single Phase, 16.4 amps
or 220V 60Hz, Single Phase, 16.4 amps
- Mixing Tank, 20 Gallon
- Heater Output 35,000 btu
- Output 6 gal/min – 120 psi



Back photo of 220 Volt Mini Portable HWU

“5 Way Protection System”

- Digital Control Temperature Probe – High Temperature Alarm Option
- Magnetic Flow Control Sensor
- Primary Fuel Solenoid Valve
- Diver’s Water Mixing Tank
- AAI Water Filter Assembly – 100 Micron

Weight and Dimensions:

| | | |
|----------------------|-----------------|----------|
| 110V System – Crated | 48” x 48” X 54” | 667 lbs. |
| 220V System – Crated | 48” x 48” X 54” | 696 lbs. |

AAI Part Number for 110 Volt Mini Portable Hot Water System.....AAI-MP800-110-A

AAI Part Number for 220 Volt Mini Portable Hot Water System.....AAI-MP800-220-A

AAI Hydraulic Reel

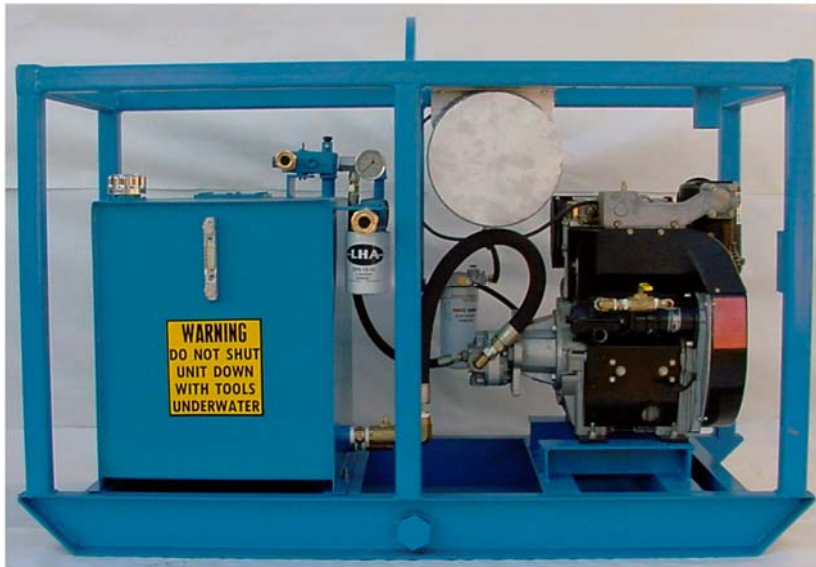


| Hydraulic Reel | |
|----------------------------|----------|
| Length | 57-1/2" |
| Width | 47" |
| Height | 60-1/4" |
| Weight w/ 600' Hose | 590 lbs. |

Features:

- 1" Return – 25' Hose w/ Quick Disconnects
- 3/4" Pressure – 25' Hose w/ Quick Disconnects
- 750' Capacity Reel
- Swivel Connectors designed for Slip Ring Style Rotation
- Single Lift
- Custom Reels Available

AAI Diesel Hydraulic Power Unit



Features:

- GPM – 12-14
- Hydraulic Fluid Tank – 40 gal.
- Fuel Tank – 3 gal.
- Air Cleaner – Dry Type
- 50 Micron Stainless Steel Suction Strainer
- Built-In Flow Control with Adjustable Relief Valve
- Low pressure Return Indicator
- Low Pressure Return Filter
- 3000 psi Pressure Gauge (Glycerine Filled)
- Skid – Tubular Steel with Drip Pan

Options: Hour Meter Air Start Electric Start

Part Number: AAI-HU-12-H-A

| Specifications and Dimensions | |
|-------------------------------|--------------------|
| Engine – Hatz 2G40 Diesel | |
| Horsepower (H.P.) | 1300 hp @ 1800 rpm |
| Bore/Stroke M.M. | 92 / 72 |
| Displacement | 60.79 cu. in. |
| Four Cycle Two Cylinder | |
| AAI Hydraulic Unit Dimensions | |
| Length | 65" |
| Width | 25" |
| Height | 43-1/2" |
| Weight | 800 lbs. |

GT18 Power Unit



| Specifications | | |
|------------------------------|---|--------------|
| Item | U.S.A. | Metric |
| Output Capacity | 5 or 8 gpm | 20 or 30 lpm |
| Pressure | 2000 psi | 140 bar |
| Circuit Type | Open Center | |
| Hydraulic Reservoir Capacity | 3 gallons | 11 liters |
| Fuel Tank Capacity | 7 gallons | 26.5 liters |
| Weight (Wet) | 330 lbs | 150 kg |
| Length | 35 in. | 89 cm |
| Width | 21/5 in. | 54.6 cm |
| Height | 29 in. | 73.7 cm |
| Engines | Briggs & Stratton 18 hp Vanguard Honda 20 hp OHV | |

Features and Benefits

The new generation Stanley GT18 Power Unit is the latest in construction site hydraulic power for tools. The GT18 conforms to the Hydraulic Tools Manufacturers Association (HTMA) Type 1 and Type 2 tool circuit recommended performance. It will deliver 5 gpm or 8 gpm at pressures up to 2000 psi with heat rejection capacity exceeding the HTMA recommendation of 5 hp.

Significant features of the GT18 are:

- Computerized, electronic throttle control is standard on all models. The control allows for selection of constant engine speed or automatic speed. Automatic speed increases engine speed from idle when it senses tool working demand. When there is no tool working demand, engine speed is returned to idle. The automatic speed mode provides lower fuel use and less noise.
- All electric control system with rotary switches.
- All components in the GT18 are assembled for easy routing servicing. The upper frame can be removed for more serious servicing.
- A quartz hourmeter in the control panel records engine run time.
- The hydraulic pump is mounted directly to the engine eliminating any misalignment and ensuring long life of the drive coupling.
- An in-tank hydraulic filter continuously cleans the hydraulic fluid and assures the refill fluid passes through the filter for a clean refill.
- A 35-Ah sealed, non-spillable, no-maintenance battery is located inside a covered compartment.
- Moving the GT18 around is made easy with a lift-and-latch handle.
- Both engine models (Briggs or Honda) have pressure lubrication systems with a pressure sensing switch that will shut down the engine if the engine oil level is too low.
- Some GT18 models are available with 110 vac, 60 Hz electric power provided by a Briggs & Stratton PowerLink inverter system. This system will deliver 1000 watts, continuous and 1500 watts intermittent power through GFCI receptacles.



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GT18 Power Unit Cont.

| Ordering Information | |
|----------------------|---|
| ORDER NO. | DESCRIPTION |
| GT18B02 | 8 gpm, Briggs & Stratton 18 hp |
| GT18B03 | 8 gpm, Briggs & Stratton 18 hp, Powerlink 110 vac |
| GT18B05 | 8 gpm, Briggs & Stratton 18 hp, Powerlink 110 vac, 12 vdc |
| GT18H02 | 8 gpm, Honda 20 hp |
| GT18H04 | 8 gpm, Honda, 12 vdc |

| Accessories | |
|-------------|---|
| ORDER NO. | DESCRIPTION |
| 31848 | Dual Hose, 50 ft x ½ in., w/ couplers |
| 31972 | Dual Hose, 25 ft x ½ in., w/ couplers |
| 58633 | Twinned Hose, 25 ft x ½ in., w/ couplers |
| 58634 | Twinned Hose, 50 ft x ½ in., w/ couplers |
| 13360 | Hose Basket Kit |
| 52721 | High Altitude (0-6000 ft) Carburetor Jet Kit for Honda |
| 52722 | High Altitude (6000-8000 ft) Carburetor Jet Kit for Honda |
| 33212 | Weather Cover |

PortaCo Power Unit Model G-21S12-54-W-RC-HB-BO



PortaCo Power Unit Features

- Large, 15" diameter wheels for ease of transport over rough terrain and through yard gates
- Large capacity hydraulic cooler to extend unit life and offer operator comfort. Cooling will meet or exceed HTMA specifications.
- Fuel level gauge
- Hour meter
- Low engine oil-pressure shut-down
- Collapsible handle
- Electric Start
- Roll-bar kit
- Variable flow 0-12 gpm

Options

- Hose Basket
- Terrseolve EnviroLogic Biodegradable Oil
- Diesel Units available

| | |
|--------------------------|---|
| Hydraulic Systems | Open Center |
| Frame Type | Two Wheel Mobile Unit |
| Length | 35.0 in. / 88.9 cm |
| Height | 32.0 in. / 81.2 cm |
| Weight (dry) | 233 lbs. / 105.6 kg |
| Filtration | 10 Micron Return Line Canister Type |
| Oil Cooler | Air to Oil |
| Engine | 21 hp Briggs & Stratton V-Twin Vanguard |
| Fuel | 5.0 Gallons / 18.9 liters |
| Hydraulic Oil | 5.0 Gallons / 18.9 liters |

AAI- CUSTOM HYDRAULIC POWER UNIT

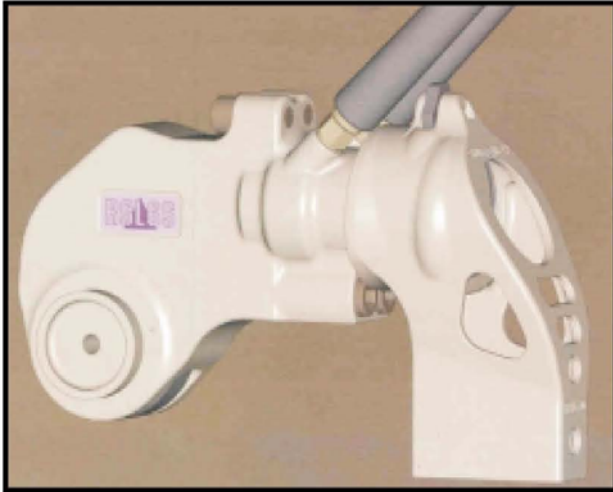


Part number LPU2019

This unit will operate underwater tools requiring up to 12gpm @ 2800psi systems.

- 01) Electric drive 440V 3 phase 60 Hz
- 02) 12 GPM
- 03) Electric Starter
- 04) Safety pressure switch

RSL6™ Hydraulic Torque Wrench



Sweeneys RSL™ hydraulic wrenches are the most versatile tools in the market. With their compact design, they fit applications w/ extremely limited clearance. A few examples of common industry applications:

Power Generation

Turbin covers, boiler feed pumps, high pressure/steam pressure pipe flanges, reactor vessels, heat exchangers, gas compressors

Petro-Chemical

Heat exchangers, pipelines, high pressure steam valves, centrifugal pumps, reactors.

Drilling

Blow-out preventers, cranes, high pressure flanges

Mining

Drag lines, conveyor line bolts, grinder foundation bolts, truck wheel nuts

Other industries include: steel mills, construction paper mills, plastics, heavy equipment manufacturers, the marine industry, and co-generation.

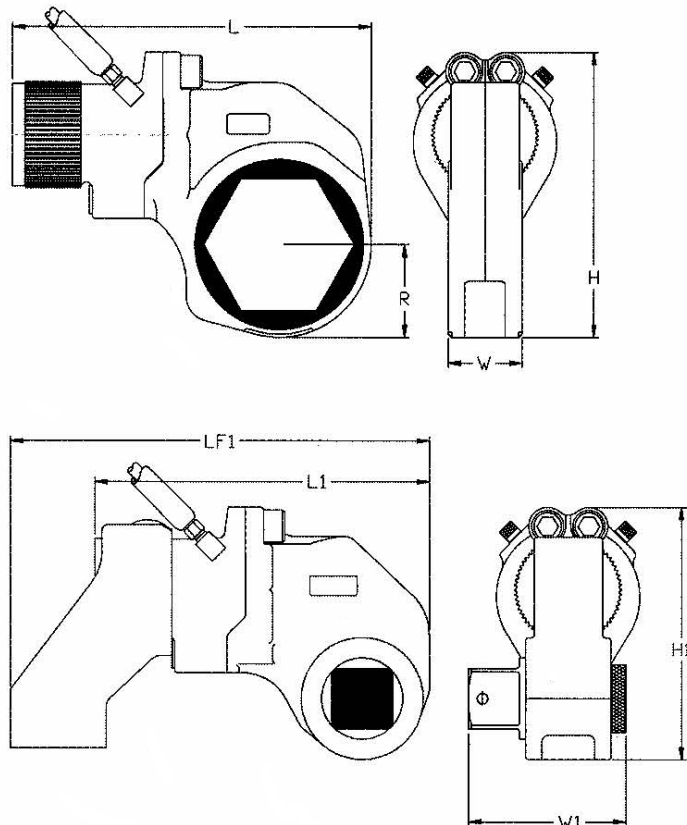
| Model | | RSL6 |
|---|-----------------|----------------|
| Torque Output (min-max) | Ft-Lb | 532-5325 |
| | Nm | 720-7220 |
| Sizes | | |
| Square Drive | Inch | 1-1/2 |
| Standard Hex & 12 PT Wrench | Inch | 1-7/8 – 3-1/8 |
| | Mm | 50-80 |
| Dimensions (In / Mm) | | |
| Width w/ Hex Head | W | 1.75/44.5 |
| Width w/ Square Drive | W ¹ | 1.93/49 |
| Height w/ Hex Head | H* | 6.62/168 |
| Height w/ Square Drive | H ¹ | 6.43/163.3 |
| Length w/ Hex Head w/o Reaction Arm | L* | 9.05/230 |
| Length w/ Square Drive w/o Reaction Arm | L ¹ | 9.24/234.7 |
| Length w/ Hex Head, w/ Reaction Arm | LF* | 11.45/291 |
| Length w/ Square Drive, w/ Reaction Arm | LF ¹ | 11.65/296 |
| Radius of Hex Head | R* | 1.58/40.1 |
| Radius of Square Drive Head | R ¹ | 1.52/38.6 |
| Other Data – Weight (Lb / Kg) | | |
| | Power Head** | Lb/Kg 8.61/3.9 |
| | Reaction Arm | Lb/Kg 3.96/1.8 |
| | Sq. Dr. Head | Lb/Kg 9.08/4.1 |
| | Hex Head* | Lb/Kg 6.63/3 |
| Accuracy | | +/-3% |
| Warranty | | 3 years |

* Weight Varies w/ Hex Head Sizes

** Weight w/ Lead Hoses

Special Sizes Available on Request

Specifications are subject to change without notice.



Sweeney RSL Hydraulic Wrenches



RSL30

RSL14

RSL8

RSL4

RSL2

Safer – The RSL is the safest hydraulic wrench on the market. The innovative design, which completely encloses all moving parts, eliminates pinch points and the need for a bulky shroud. The RSL design also avoids complicated swivel assemblies and their potential for injuries caused by high-pressure leaks.

Faster – The unique, longer-stroke design enables the operator to perform jobs quickly and safely without sacrificing accuracy. The NEVER_LOCK pawl system reduces downtime and increases overall employee productivity. This results in bottom-line savings for customers.

Lighter – Designed with the aid of state-of-the-art computer analysis technology, RSL tooling is lighter than any competing tools. Our tooling has, by far, the best weight-to-torque ratio of any hydraulic wrench system on the market.

More Versatile – Per tool, the RSL offers the widest range of interchangeable hex and square drive heads available. These wrench heads are ideal when working a wide variety of nut sizes in various applications. No longer are you forced to consider two separate tools; one tool does it all.

More Durable – With 75% fewer parts, RSL tools have re-defined tool confidence. Designed in the Select-A-Torq® tradition of dependability and ruggedness, RSL tools are engineered to outperform any competing tools in the harshest conditions.

The Most Compact – RSL tooling will fit more API, ANSI, and MSS applications than any other tools in the industry. For applications where clearance is limited, RSL tools offer reduced height and the smallest noise radii possible.

| Model | | | | RSL2 | | RSL4 | | RSL8 | | RSL14 | | RSL30 | |
|---------------------|--------------|------|----|-----------|------|---------------|------|--------------|-------|--------------|-------|-------------|-------|
| Torque Output | Ft | Lb | | 123 | 1408 | 290 | 3080 | 725 | 7862 | 961 | 11154 | 2298 | 28002 |
| | N | M | | 167 | 1909 | 393 | 4176 | 983 | 10660 | 1303 | 15123 | 3116 | 37966 |
| Square Drive Size | | Inch | | 3/4 | | 1 | | 1-1/2 | | 1-1/2 | | 2-1/2 | |
| Hex Wrench Sizes*** | Inch | | | 7/8-2-3/8 | | 1-1/8-2-15/16 | | 2-1/16-3-1/8 | | 2-9/16-4-5/8 | | 4-1/8-6-1/8 | |
| | MM | | | 24-60 | | 27-75 | | 55-80 | | 65-115 | | 80-150 | |
| Weight | Power Head* | Lb | Kg | 3.98 | 1.81 | 6.12 | 2.78 | 11.75 | 5.38 | 12.75 | 5.78 | 21.34 | 9.68 |
| | Reaction Arm | Lb | Kg | .50 | 0.23 | 1.4 | 0.63 | 3.4 | 1.55 | 3.81 | 1.73 | 11.0 | 4.99 |
| | Sq. Dr. Head | Lb | Kg | 2.53 | 1.15 | 4.75 | 2.15 | 11.25 | 5.10 | 16.62 | 7.54 | 36.75 | 16.67 |
| | Hex Head** | Lb | Kg | 2.07 | 0.94 | 3.23 | 1.47 | 8.53 | 3.87 | 12.97 | 5.88 | 25.86 | 11.73 |
| Accuracy | | | | ±3% | | ±3% | | ±3% | | ±3% | | ±3% | |
| Warranty | | | | 3 Years | | 3 Years | | 3 Years | | 3 Years | | 3 Years | |

* Weight with Lead Hoses

** Weight varies with Hex Head Size

*** Available in Maximum Torque and/or Maximum Fit Versions

Sweeney RSL Hydraulic Wrenches Cont.

Power Consoles and Readout Pendant

The digital electric and air-powered 10,000 psi power consoles provide the power and precise control to operate the full line of RSL tools. The DXIE console can be operated using the compact, hand-held, digital control pendant which allows the operator set torque limits, and to store up to 50 tools or applications definitions. All settings and readouts appear on an easy-to-read digital display.



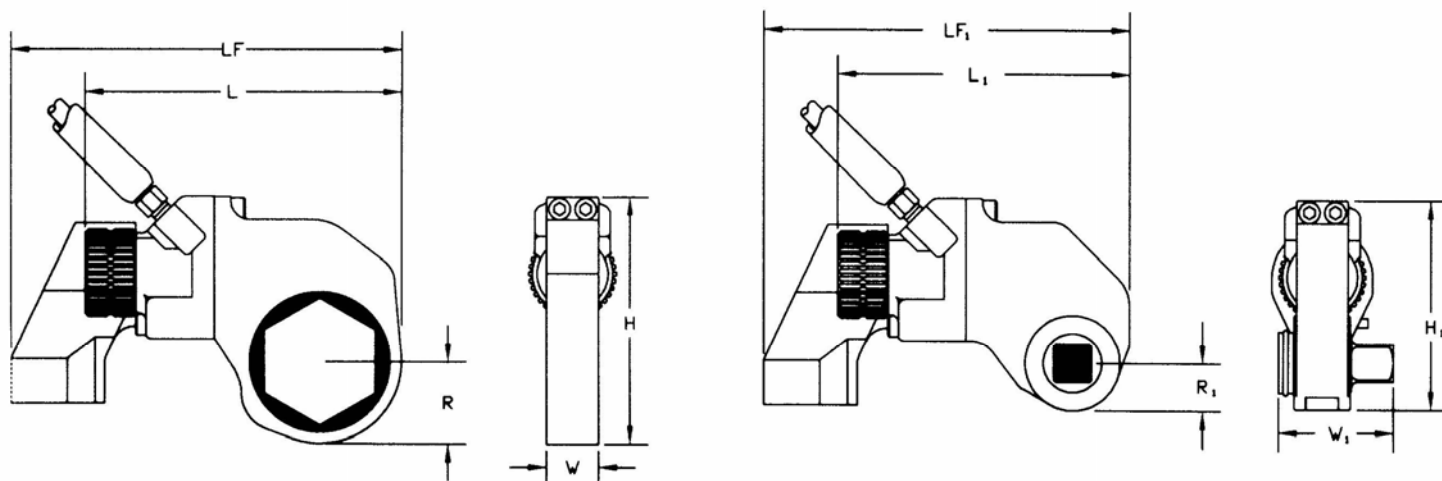
Square Drives and Hex Heads are interchangeable on all RSL tools.



**The RSL Hydraulic
Wrench System**

Sweeney RSL Hydraulic Wrenches Cont.

| Model | | RSL2 | | RSL4 | | RSL8 | | RSL14 | | RSL30 | |
|---------------------|--------------|----------|-----------|-----------|------------|------------|-------------|-------------|-------|-----------|-------|
| Torque Output | Ft-Lb | 123 | 1408 | 290 | 3080 | 725 | 7862 | 961 | 11154 | 2298 | 28002 |
| | N-M | 167 | 1909 | 393 | 4176 | 983 | 10660 | 1303 | 15123 | 3116 | 37966 |
| Square Drive Size | | Inch 3/4 | | 1 | | 1-1/2 | | 1-1/2 | | 4-1/8-1/2 | |
| Hex Wrench Sizes ** | Inch | 7/8 | 2-3/8 | 1-1/8 | 2-15/16 | 2-1/16 | 3-1/8 | 2-9/16 | 4-5/8 | 4-1/8 | 6-1/8 |
| | MM | 24 | 60 | 27 | 75 | 55 | 80 | 65 | 115 | 80 | 150 |
| Weight | Power Head * | Lb-Kg | 3.98 1.81 | 6.12 2.78 | 11.75 5.38 | 12.75 5.78 | 21.34 9.68 | 25.86 11.73 | | | |
| | Reaction Arm | Lb-Kg | .50 0.23 | 1.4 0.63 | 3.4 1.55 | 3.81 1.73 | 11.00 4.99 | | | | |
| | Sq. Dr. Head | Lb-Kg | 2.53 1.15 | 4.75 2.15 | 11.25 5.10 | 16.62 7.54 | 36.75 16.67 | | | | |
| | Hex Head ** | Lb-Kg | 2.07 0.94 | 3.23 1.47 | 8.53 3.87 | 12.97 5.88 | 25.86 11.73 | | | | |
| Accuracy | | +/-3% | | +/-3% | | +/-3% | | +/-3% | | +/-3% | |
| Warranty | | 3 Years | | 3 Years | | 3 Years | | 3 Years | | 3 Years | |



Aqua-Air Ordering Information:

| | |
|----------------------------------|---------|
| RSL Hydraulic Wrench System..... | RSL-HWS |
| Hydraulic Wrenches..... | RSL2 |
| Hydraulic Wrenches..... | RSL4 |
| Hydraulic Wrenches..... | RSL8 |
| Hydraulic Wrenches..... | RSL14 |
| Hydraulic Wrenches..... | RSL30 |

BR45 Breaker



BR45S

Rugged, Lightweight and Powerful construction of the BF45 T Handle and BR45S anti-vibration handle breakers make them ideal for use in the 35-65 pound class. Designed for light- to medium-duty operation, they excel at curb and sidewalk demolition, asphalt cutting, and are popular for ground rod driving with electric utilities. The Stanley Easi-Ride™ foot, offered on the BR45 absorbs and controls tool-bit bounce, greatly reducing operator fatigue. Spring-Isolated, Anti-Vibration Handles (BR45S) reduce operator fatigue, literally allowing the breaker to float in the user's hands. Built in Handle Stop on anti-vibration handle model (BR45S) allow operator to apply full body weight in tough applications. Feathering On/Off Valve allows the operator to control the output energy of the tool through the full range from 0 to 1,800 blows per minute, making startup and initial tool placement easy. Diaphragm-Type Accumulator design provides for ease of maintenance and extended service life of the tool. All models operate at a maximum back pressure of 250 psi (17 bar) on open-center systems.

Underwater Models Available

| Specifications | | |
|-------------------------------|---|---------------|
| ITEM | U.S.A. | METRIC |
| OUTPUT | 1800 Blows per Minute | |
| INPUT FLOW RANGE | 7 – 9 gpm | 26 – 34 lpm |
| INPUT PRESSURE | 1500 – 2000 psi | 105 – 140 bar |
| MAX. BACK PRESSURE | 250 psi | 17 bar |
| OPTIMUM FLOW | 8 gpm | 30 lpm |
| PORTING | 8 SAE O-Ring | |
| CONNECTOR | 3/8 in. Male Pipe Hose End | |
| BR45 (T Handle) | | |
| STEEL CAPACITY | 4-1/4 x 1 in. Hex*, 6 x 1-1/8 Hex & 6 x 1-1/4 in. Hex | |
| WEIGHT | 45/48 lbs. | 20/21 kg |
| LENGTH | 23.5/25.5 in. | 60/65 cm |
| WIDTH (at handles) | 14 in. | 35 cm |
| BR45S (Anti-Vibration Handle) | | |
| STEEL CAPACITY | 6 x 1-1/8 in. Hex & 6 x 1-1/4 in. Hex | |
| WEIGHT | 48/51 lbs. | 22/23 kg |
| LENGTH | 25.2/28.25 in. | 65/72 cm |
| WIDTH (at handles) | 17.5 in. | 44.5 cm |

* Not available with Easi-Ride™ foot.



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EMAIL sales@aquaairind.com

BR45 Breaker Cont.

| Accessories | | |
|--------------------------------|----------|--|
| 1 in. Hex x 4 1/2 in. Shank | PART NO. | DESCRIPTION |
| | 07702 | Moil Point, 14 in. (35.6 cm) * |
| | 07703 | Narrow Chisel, 14 in. (35.6 cm) * |
| | 07704 | Chisel, 3 in. (76 mm) blade x 14 in. (35.6 cm) * |
| | 07705 | Clay Spade, 5-1/2 in. (14 cm) blade |
| | 07706 | Asphalt Wedge, 3 in. (76 mm) blade |
| | 07707 | Ground Rod Driver, 1 in. (25 mm) rod |
| | 14931 | Digging Chisel |
| 1 1/8 in. Hex x 6 in. Shank | 02331 | Clay Spade, 5-1/2 in. (14 cm) blade |
| | 02332 | Asphalt Cutter, 5 in. (12.7 cm) blade x 11 in. (28 cm) * |
| | 02333 | Moil Point, 14 in. (35.6 cm) * |
| | 02334 | Chisel, 3 in. (76 mm) blade x 14 in. (35.6 cm) * |
| | 03990 | Chisel Point, 14 in. (35.6 cm) * |
| | 04176 | Ground Rod Driver, 1 in. (25 mm) rod |
| | 08106 | Asphalt Wedge, 12 in. (30.5 cm) * |
| | 08107 | Keen Kut, 16 in. (40.6 cm) * |
| 1 1/4 in. Hex x 6 in. Shank | 02335 | Asphalt Cutter, 5 in. (12.7 cm) blade x 11 in. (28 cm) * |
| | 02336 | Moil Point, 14 in. (35.6 cm) * |
| | 02337 | Chisel, 3 in. (76 mm) blade x 14 in. (35.6 cm) * |
| | 02338 | Heavy Duty Chisel, 1 in. (25 mm) x 14 in. (35.6 cm) * |
| | 04367 | Ground Rod Driver, 1 in. (25 mm) rod |
| | 04404 | Heavy Duty Moil Point, 18 in. (45.7 cm) * |
| | 04405 | Clay Spade, 8 in. (20.3 cm) blade |
| | 08118 | Brick Wedge |
| | 18119 | Asphalt Wedge |
| | 09262 | Clay Spade, 5-1/2 in. (14 cm) |
| | 17782 | Detachable Shank (requires no. 17783) |
| | 17783 | Tamping Pad, 6 in. (15.2 cm) pad (requires no. 17782) |

* Length measured from bottom tip of tool to bottom surface of collar.

| Test Equipment | |
|----------------|----------------------------|
| PART NO. | DESCRIPTION |
| 02835 | Accumulator Testor |
| 03189 | 20 gpm (75 lpm) Flow Meter |
| 04182 | Flow and Pressure Tester |
| 31254 | Accumulator Charge Kit |

BR45 Breaker Cont.

| Model Numbers | |
|---------------|--|
| MODEL | DESCRIPTION |
| BR45150 | BR45 T-Handle Breaker, 1 in. Hex |
| BR45120E | BR45 T-Handle Breaker, 1-1/8 in. Hex, Easi-Ride Foot |
| BR45130E | BR45 T-Handle Breaker, 1-1/4 in. Hex, Easi-Ride Foot |
| BR45125S | BR45S Anti-Vibration Handle Breaker, 1-1/8 in. Hex |
| BR45135S | BR45S Anti-Vibration Handle Breaker, 1-1/4 in. Hex |
| BR45350 | BR45 Underwater T-Handle Breaker, 1 in. Hex |

Note: All models listed above ship with hose whips.

| Service Tools | |
|---------------|-----------------------------|
| PART NO. | DESCRIPTION |
| 01120 | Tamper Sleeve Tool |
| 04595 | Seal Kit |
| 04919 | Flow Sleeve Removal Tool |
| 05640 | Accumulator Cylinder Puller |
| 04910 | Flow Sleeve Removal Tube |
| 04337 | O-Ring Tool Kit |



BR67 Breaker



BR67



BR67S

| Specifications | | |
|--------------------|---|---------------|
| ITEM | U.S.A. | METRIC |
| Input Flow Range | 7 – 9 gpm | 26 – 34 lpm |
| Input Pressure | 1500 – 2000 psi | 105 – 140 bar |
| Max. Back Pressure | 250 psi | 17 bar |
| Optimum Flow | 8 gpm | 30 lpm |
| BR67 | | |
| Steel Capacity | 6 (15.2 cm) x 1-1/8 Hex & 6 (15.2 cm) x 1-1/4 in. Hex | |
| Weight | 67 lbs. | 30 kg |
| Length | 27 in. | 68 cm |
| Width (at handles) | 16 in. | 41 cm |
| BR67S | | |
| Steel Capacity | 6 (15.2 cm) x 1-1/8 Hex & 6 (15.2 cm) x 1-1/4 in. Hex | |
| Weight | 75 lbs. | 34 kg |
| Length | 29 in. | 73 cm |
| Width (at handles) | 18 in. | 46 cm |
| Porting | 8 SAE O-Ring | |
| Connector | 3/8 in. Male Pipe Hose End | |

Features and Benefits

Stanley's line of handheld breakers is the largest in the world, with a wide selection of models suited to virtually any application. The **BR67** and **BR67S** are medium-duty tools for work in the 70-90 pound class. They are highly productive in utility construction, street maintenance, repair of water and gas mains, and general contracting jobs. Available in both a T-Handle and Anti-Vibration Handle Model. Spring-Dampened, Anti-Vibration Handles (**BR67S**) reduce operator fatigue, allowing the breaker to float in the user's hands. Built in handle stops allow operator to apply full body weight in tough applications. Easi-Ride™ foot, offered on the **BR67**, absorbs and controls tool-bit bounce, greatly reducing operator fatigue. Feathering On/Off Valve controls blow speed, making startup and initial tool placement easy. Diaphragm Accumulator provides trouble-free operation with system back pressures up to 250 psi (17 bar). Accumulator on **BR67S** can be serviced without disassembling the tool. Both models operate on open-center systems and are available in 1-1/8 or 1-1/4 in. chuck hex sizes.



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BR67 Breaker Cont.

| Accessories | |
|------------------------------------|--|
| PART NO. | DESCRIPTION |
| 1 1/8 in. Hex x 6 in. Shank | |
| 02331 | Clay Spade, 5-1/2 in. (14 cm) blade |
| 02332 | Asphalt Cutter, 5 in. (12.7 cm) blade x 11 in. (28 cm) * |
| 02333 | Moil Point, 14 in. (35.6 cm) * |
| 02334 | Chisel, 3 in. (76 mm) blade x 14 in. (35.6 cm) * |
| 03990 | Chisel Point, 14 in. (35.6 cm) * |
| 04176 | Ground Rod Driver, 1 in. (25 mm) rod |
| 08106 | Asphalt Wedge, 12 in. (30.5 cm) * |
| 08107 | Keen Kut, 16 in. (40.6 cm) * |
| 1 1/4 in. Hex x 6 in. Shank | |
| 02335 | Asphalt Cutter, 5 in. (12.7 cm) blade x 11 in. (28 cm) * |
| 02336 | Moil Point, 14 in. (35.6 cm) * |
| 02337 | Chisel, 3 in. (76 mm) blade x 14 in. (35.6 cm) * |
| 02338 | Heavy Duty Chisel, 1 in. (25 mm) x 14 in. (35.6 cm) * |
| 04367 | Ground Rod Driver, 1 in. (25 mm) rod |
| 04404 | Heavy Duty Moil Point, 18 in. (45.7 cm) * |
| 04405 | Clay Spade, 8 in. (20.3 cm) blade |
| 08118 | Brick Wedge |
| 18119 | Asphalt Wedge |
| 09262 | Clay Spade, 5-1/2 in. (14 cm) |
| 17782 | Detachable Shank (requires no. 17783) |
| 17783 | Tamping Pad, 6 in. (15.2 cm) pad (requires no. 17782) |

* Length measured from bottom tip of tool to bottom surface of collar.

| Test Equipment | |
|----------------|----------------------------|
| PART NO. | DESCRIPTION |
| 02835 | Accumulator Tester |
| 03189 | 20 gpm (75 lpm) Flow Meter |
| 04182 | Flow and Pressure Tester |
| 06545 | Accumulator Charge Kit |

BR67 Breaker Cont.

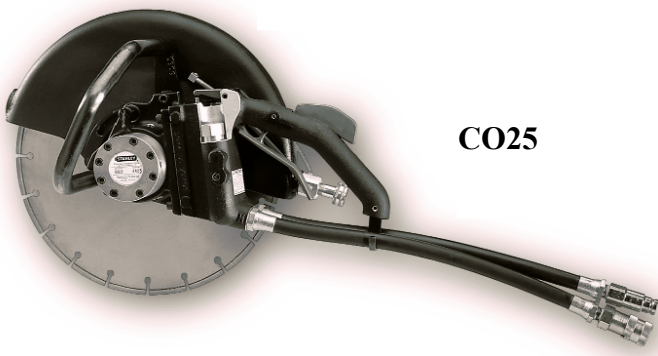
| Model Numbers | |
|---------------|--|
| MODEL | DESCRIPTION |
| BR67120 | BR67 T-Handle Breaker, 1-1/8 in. Hex |
| BR67120E | BR67 T-Handle Breaker, 1-1/8 in. Hex, Easi-Ride Foot |
| BR67130 | BR67 T-Handle Breaker, 1-1/4 in. Hex |
| BR67130E | BR67 T-Handle Breaker, 1-1/4 in. Hex, Easi-Ride Foot |
| BR67320 | BR67 Underwater T-Handle Breaker, 1-1/8 in. Hex |
| BR67330 | BR67 Underwater T-Handle Breaker, 1-1/4 in. Hex |
| BR67125 | BR67S Anti-Vibration Handle Breaker, 1-1/8 in. Hex |
| BR67135 | BR67S Anti-Vibration Handle Breaker, 1-1/4 in. Hex |

Note: All models listed above ship with hose whips.

| Service Tools | |
|---------------|---------------------------------|
| PART NO. | DESCRIPTION |
| 04596 | Seal Kit |
| 04908 | Split Ring (Auto Valve Removal) |
| 04909 | Spacer (Flow Sleeve Install) |
| 04910 | Flow Sleeve Removal Tube |
| 05508 | Accumulator Disassembly Tool |
| 05640 | Accumulator Cylinder Puller |



CO23/CO25 Cutoff Saws



Lightweight and Powerful, the Stanley **CO23** Underwater and **CO25** Cutoff Saws are ideal for cutting concrete, masonry, pipe, structural steel beams and guardrail.

CO25 Land Model

Multi-Hand Position Cast Aluminum Handle with Interlocking Safety Trigger provides ergonomic grip at a variety of tool angles for reduced operator fatigue.

Tamper-Proof Flow Control meets ANSI specification for speed control, reducing the risk of over-speeding the cutting wheel. Cutoff saws can be used with readily available standard abrasive wheels and wet or dry diamond blades. Internal Blade Brake retards spindle rotation upon release of trigger to greatly reduce wheel coast time. Adjustable Cast Aluminum Wheel Guard is designed to provide excellent durability, allow cutting near obstructions and minimize tool weight. Available Handle Extension Kit provides for upright operation to meet operator performance.

Saw Cart (*illustrated on reverse*)

Saw Cart with a **CO25** makes the ideal tool combination for accurate dimensional cutting of concrete flat work. Heavily weighted frame of the Stanley Saw Cart provides a stable platform for slab cutting. Handle-Mounted Control provides convenient adjustment of cutting depth.

CO23 Underwater

The **CO23** direct-drive Cutoff Saw is ideal for accurate dimensional cutting of concrete, structural steel, and pipe in underwater applications

| Specifications | | | | |
|------------------|----------------------------|-------------|----------------------|-------------|
| | CO25 LAND MODEL | | CO23 UNDER WATER | |
| ITEM | U.S.A. | METRIC | U.S.A. | METRIC |
| OUTPUT CAPACITY | 14 in wheel | 35.6 cm | 10 in wheel | 25.4 cm |
| INPUT FLOW RANGE | 7-9 gpm | 26-34 lpm | 10-15 gpm | 38-57 lpm |
| INPUT PRESSURE | 1500-2000 psi | 105-140 psi | 1500-2000 psi | 105-140 psi |
| OPTIMUM FLOW | 8 gpm | 30 lpm | 15 gpm | 57 lpm |
| WEIGHT | 20.00 lbs. | 9.1 kg | 23 lbs. | 10.4 kg |
| LENGTH | 21 in. | 53.3 cm | 19 ½ in. | 49.5 cm |
| WIDTH | 11 in. | 28 cm | 11 in. | 27.9 cm |
| MOTOR | HYREVZ™ Gear | | HYREVZ™ Gear | |
| PORTING | 8 SAE O-Ring | | 8 SAE O-Ring | |
| CONNECTION | 3/8 in. Male Pipe Hose End | | ½ in. Male Pipe Hose | |

CO23/CO25 Cutoff Saws Cont.

| Accessories | |
|-------------|---|
| PART NO. | DESCRIPTION |
| 03694 | 10 in/25.4 cm dia, CO23 Masonry Cutting Diamond Wheel |
| 04116 | 10 in/25.4 cm dia, CO23 Masonry Cutting Abrasive Wheel Fast Cut |
| 04117 | 10 in, 25.4 cm dia, CO23 Masonry Cutting Abrasive Wheel Long Wear |
| 02691 | 14 in, 35.6 cm dia, CO25 Metal Cutting Abrasive Wheel, 1 in arbor |
| 02692 | 14 in, 25.6 cm dia, CO25 Masonry Cutting Abrasive Wheel, 1 in arbor |
| 34175 | Handle Extension Kit |
| 33228 | Water Attachment |
| 33474 | Water Tank Kit for Saw Cart |
| 33281 | Saw Cart |

| Ordering Information | |
|----------------------|--|
| PART NO. | DESCRIPTION |
| CO23341 | Cutoff Saw Underwater, 1 in arbor |
| CO25141 | Cutoff Saw, Counter-Clockwise Rotation, 1 in arbor |
| CO25541 | Cutoff Saw, Clockwise Rotation, 1 in arbor |

Note: All above are Open-Center system.



SAWCART

CS05/CS06 Chain Saw



CS06

Features and Benefits

Stanley's hydraulic chain saws offer the highest power-to-weight ratio of any chain saw on the market today. They're ideal for bucket truck use because of their wide range of flow and pressure requirements. Used around the world by utility companies, professional tree trimmers and construction crews. Safety has been designed in – all models feature interlocking triggers, hand

guards, low kickback bars and chains. Hydraulic power doesn't require a flywheel to smooth power pulses so there is no chain coasting when you release the trigger. Kickback is also reduced without the centrifugal force from the flywheel used on gas driven saws. Features a floating rim sprocket for longer wear and easy replacement. Can be ordered in a wide variety of bar lengths. For extra flexibility, the "Dual Spool" models provide you with the ability to power the saws from either an open or closed-center hydraulic system using the same saw. Models can be special ordered for use with dedicated open or closed-center hydraulic systems. The **CS05/06** hydraulic, pistol-grip chain saws can be used for all types of pruning and cleaning applications. With an optimum input flow of only 5 gpm/20 lpm, the **CS05** is ideal for applications where the hydraulic power source is limited to 5 gpm/20 lpm. (HTMA Type I). The more powerful **CS06** is designed for use on HTMA Type II Circuits with a full 8 gpm/30 lpm output.

Underwater models available – refer to ordering information

| Operation and Performance | | | | |
|---------------------------|--------------------------|-------------|-----------------|-----------------|
| | CS05 | | CS06 | |
| ITEM | U.S.A. | METRIC | U.S.A. | METRIC |
| Capacity (Cut Length) | 12 & 15 in. | 30 & 38 cm | 12, 15 & 20 in. | 30, 38, & 51 cm |
| Weight* | 6.25 lb | 2.8 kg | 6.25 lb | 2.8 kg |
| Length* | 14 in. | 36 cm | 14 in. | 36 cm |
| Width | 9 in. | 23 cm | 9 in. | 23 cm |
| Pressure | 1500-2000 psi | 105-140 bar | 1000-2000 psi | 70-140 bar |
| Flow Range | 4-6 gpm | 15-23 lpm | 7-9 gpm | 26-34 lpm |
| Optimum Flow | 5 gpm | 19 lpm | 8 gpm | 30 lpm |
| Porting | -8 SAE O-Ring | | | |
| Connect Size & Type | 3/8 in. NPT Male Adapter | | | |
| Hose Whips | No | | | |
| Motor | Integral | | | |

* Without Bar



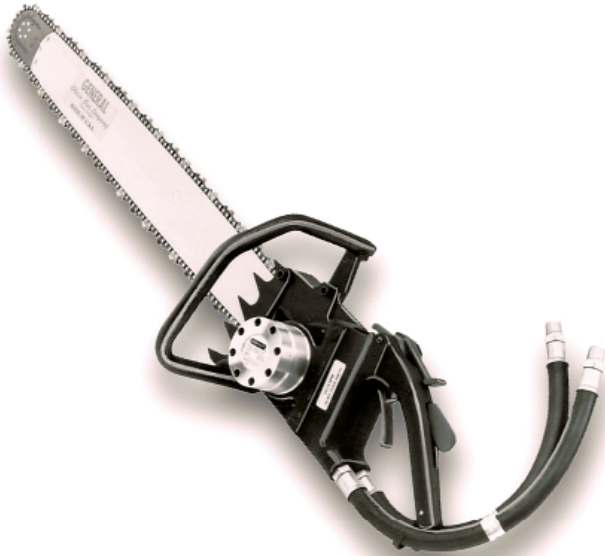
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CS05/CS06 Chain Saw Cont.

| Accessories | |
|-------------|--|
| PART NO. | DESCRIPTION |
| 08348 | Saw Chain, 12 in./30 cm Bar (.325 in. Pitch) |
| 07641 | Saw Chain, 15 in./38 cm Bar (.325 in. Pitch) |
| 07642 | Saw Chain, 20 in./51 cm Bar (.325 in. Pitch) |
| 07935 | File Guide with File – 21AP Chain (.325 in. Pitch) |
| 08347 | Saw Bar 12 in./30 cm (.325 in. Pitch) |
| 07638 | Saw Bar 15 in./38 cm (.325 in. Pitch) |
| 07639 | Saw Bar 20 in./51 cm (.325 in. Pitch) |
| 07629 | Rim Sprocket, 7-Tooth (.325 in. Pitch) |
| 11464 | Scrench (Com. Screwdriver-Bar Nut Wrench) |

| Ordering Information | | | |
|----------------------|------------|------------------|--------------|
| MODEL | PART NO. | SYSTEM | CAPACITY |
| CS05 | CS05610 | o.c/c.c | 12 in./30 cm |
| | CS05620 | o.c/c.c | 15 in./38 cm |
| CS06 | CS06610 | o.c/c.c | 12 in./30 cm |
| | CS06620 | o.c/c.c | 15 in./38 cm |
| CS06 | CS06610 | o.c/c.c | 12 in./30 cm |
| CS06 Railroad Model | CS06630S* | o.c/c.c | 20 in./51 cm |
| | CS0661001* | o.c/c.c, CE | 12 in./30 cm |
| | CS06630 | o.c/c.c | 20 in./51 cm |
| | CS06920 | o.c/c.c, U/W | 15 in./38 cm |
| | CS0692001* | o.c/c.c, CE, U/W | 15 in./38 cm |
| | CS06930 | o.c/c.c, U/W | 20 in./51 cm |

CS11 Chain Saw



Stanley's hydraulic chain saws offer the highest power-to-weight ratio of any chain saw on the market today. They're ideal for bucket truck use because of their wide range in flow and pressure requirements.

Safety has been designed in with interlocking triggers, bucking spurs and hand guards on all models. Hydraulic power doesn't require a flywheel to smooth power pulses so there is no chain coasting when you release the trigger. Kick-back is also reduced without the centrifugal force from the flywheel used on gas driven saws.

The CS11 hydraulic chain saw is designed for extreme-duty applications. With many available bar lengths (up to a 43-inch/109 cm cut), the CS11 can handle bridge pilings, railroad ties and utility poles.

| Specifications | | |
|-----------------------|----------------------------|----------------------------|
| ITEM | U.S.A. | METRIC |
| Capacity | 24, 30, 36, and 43 in. cut | 61, 76, 91 and 109 cm. cut |
| Weight | 14 lb. | 6 kg. |
| Length | 17 in. | 43 cm. |
| Width | 9 in. | 23 cm. |
| Pressure | 1500-2000 psi | 105-140 bar |
| Flow Range | 10-14 gpm | 38-53 lpm |
| Optimum Flow | 14 gpm | 53 lpm |
| Porting | 8 SAE O-Ring | |
| Hose Whips | Yes | |
| Connect Size and Type | ½ in. Male Pipe Hose End | |
| Motor | Hyrevz™ Gear | |



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CS11 Chain Saw Cont.

Part Number: CS113NO – Open Center

| Accessories | |
|-------------|--|
| PART NO. | DESCRIPTION |
| 02938 | Standard Sprocket for 3/8 in Pitch Chain |
| 01824 | 24 in/61 cm Chain |
| 03194 | 30 in/76 cm Chain |
| 03195 | 36 in/91 cm Chain |
| 03456 | 43 in/109 cm Chain |
| 02684 | 24 in/61 cm Sprocket Nose Bar |
| 03192 | 30 in/76 cm Sprocket Nose Bar |
| 03193 | 35 in/91 cm Sprocket Nose Bar |
| 03457 | 43 in/109 Chain Saw Bar |

| Service Tools | |
|---------------|-------------------------------|
| PART NO. | DESCRIPTION |
| 00850 | Bearing Pusher |
| 03325 | Seal Kit 3 Pc P/N 03045 Motor |
| 03326 | Repair Kit |
| 03327 | Seal Kit 3 Pc P/N 03272 Motor |
| 03328 | Repair Kit |
| 04337 | O-Ring Tool Kit |
| 05044 | Bearing Installation Tool |
| 05064 | Bearing Puller Kit |
| 10569 | Seal Kit 2 Pc P/N 07362 Motor |
| 10570 | Repair Kit U/W |
| 10571 | Seal Kit 2 Pc P?N 07361 Motor |
| 10572 | Repair Kit |

DL07 Underwater Drill



Stanley's DL07 can be used for wood, metal and masonry. The reliable Hyrevz gear type motor has been proven in tens of thousands of applications. The compact DL07 uses a standard ½" 12.7 mm Jacobs chuck. With the high torque generated by the internal Hyrevz motor the DL07 can handle wood, metal or masonry with the correct bits. The large feathering trigger is convenient to use and gives the operator complete control of the drill speed. For operator comfort, the DL07 handle is coated with a heat insulated, shock absorbing material. The DL07 is designed to run off a HTMA type II hydraulic circuit. Designed for heavy duty operations, it can be used by divers in any position.

| ITEM | Specifications | |
|--------------|---------------------------|-------------|
| | U.S.A. | METRIC |
| CAPACITY | ½ in. Chuck | 12 mm Chuck |
| PERFORMANCE | See Table Below | |
| FLOW RANGE | See Table Below | |
| MAXIMUM FLOW | 12 gpm | 45 lpm |
| PRESSURE | 2000 psi Max | 140 bar Max |
| PORTS | -8 SAE O-Ring | |
| WEIGHT | 6 lbs. | 2.7 kg |
| LENGTH | 9 in. | 22.90 cm |
| CONNECTION | See Ordering Information | |
| MOTOR | Stanley Hyrevz™ Gear | |
| SYSTEM TYPE | Open Center/Closed Center | |

| DL07 TORQUE AND DRILL SPEEDS | | | |
|---------------------------------------|------------------|--|-------------|
| TORQUE (proportional to oil pressure) | | DRILL SPEED (proportional to oil flow) | |
| U.S.A | METRIC | HYDRAULIC FLOW | DRILL SPEED |
| 4 ft-lb @ 500 psi | 0.5 Nm @ 35 bar | 3 gpm (11.2 lpm) | 350 rpm |
| 9 ft-lb @ 1000 psi | 1.2 Nm @ 70 bar | 4 gpm (15 lpm) | 475 rpm |
| 14 ft-lb @ 1500 psi | 1.9 Nm @ 105 bar | 6 gpm (23 lpm) | 750 rpm |
| 19 ft-lb @ 2000 psi | 2.6 Nm @ 140 bar | 8 gpm (30 lpm) | 1000 rpm |
| | | 10 gpm (38 lpm) | 1250 rpm |

GR 29 U/W Grinder



Features and Benefits

Stanley's Underwater GR29 Grinder can be used for grinding and cleaning with either cup or standard grinding wheels, wire or nylon brushes. The Integral Stanley Hyrevz™ gear motor is manufactured to exacting standards to deliver maximum efficiency. The plastisol covering the handle transmits very little heat. The plastisol gives a more comfortable grip to the tool.

There are two positions available for the assist handle to be conveniently placed by the operator. Either position is at a most comfortable handling position from the valve handle. The wheel guard is adjustable. By loosening the clamp screw the guard may be rotated to any convenient position.

| Specifications | | |
|---------------------|-----------------------------------|---------------|
| ITEM | U.S.A. | METRIC |
| Capacity | 9 in. Wheel on 5/8 in. – 11 Arbor | |
| RPM | 2700 @ 10 gpm | 2700 @ 38 lpm |
| Weight (with guard) | 14 lb. | 6.4 kg |
| Length | 11 in. | 28 cm |
| Width (with guard) | 12 in. | 30.5 cm |
| Pressure | 1000-2500 psi | 70-176 bar |
| Flow Range | 4-10 gpm | 15-38 lpm |
| Optimum Flow | 10 gpm | 38 lpm |
| Porting | -8 SAE O-Ring | |
| Hose Whips | No | |
| Motor | Stanley Hyrevz™ Gear | |



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GR 29 U/W Grinder

| Ordering Information | |
|----------------------|------------------------------------|
| MODEL | DESCRIPTION |
| GR29310 | Grinder, Underwater, less couplers |
| GR2930101 | Grinder, Underwater, couplers, CE |

| Accessories | |
|-------------|--|
| PART NO. | DESCRIPTION |
| 02587 | Grinding wheel for Metal, 9-inch diameter x 5/8-11 thread |
| 02588 | Grinding wheel for Masonry, 9-inch diameter x 5/8-11 thread |
| 03691 | Grinding wheel, 7-inch diameter x 5/8-11 thread |
| 05194 | Adapter, 5/8-11 thread, depressed center wheel |

HD45 Hammer Drill



| Specifications | | |
|--------------------|--|---------------|
| ITEM | U.S.A. | METRIC |
| Chuck Capacity | Up to 2 in. dia. or 4 in. core, 736 Skil hex | |
| Output | 0 – 300 rpm | |
| Input Flow Range | 7 – 9 gpm | 26 – 34 lpm |
| Input Pressure | 1500 – 2000 psi | 105 – 140 bar |
| Optimum Flow | 8 gpm | 30 lpm |
| Weight | 45 lbs | 20.4 kg |
| Length | 22.5 in. | 57 cm |
| Width (at handles) | 14 in. | 35 cm |
| Motor | Internal | |
| Porting | 8 SAE O-Ring | |
| Connector | 3/8 in. Male Pipe Hose End | |

Features and Benefits

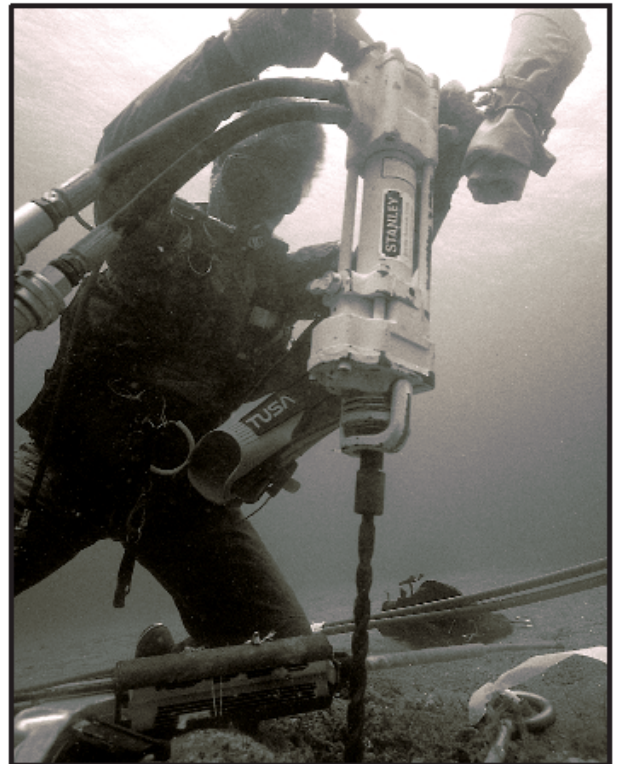
Stanley Hydraulic Tool's **HD45** Hammer Drill is a heavy duty model designed for use in medium to heavy applications. It's the ideal tool for drilling gas and water utility holes and setting anchor bolts.

Drills Holes from 3/4 in. (19 mm) to 2 in. (50 mm) in diameter and up to 29 in (73.7 cm) deep as well as core drilling up to 4 in (102 mm) in diameter.

Uses Standard Skil 736 type carbide tipped, fluted drill bits and requires no fluid to clear holes during operation.

Feathering On/Off Valve/Adjustable Bit Rotation Speed (*forward and reverse*) make the **HD45** easy to start and easy to control.

Underwater Models Available





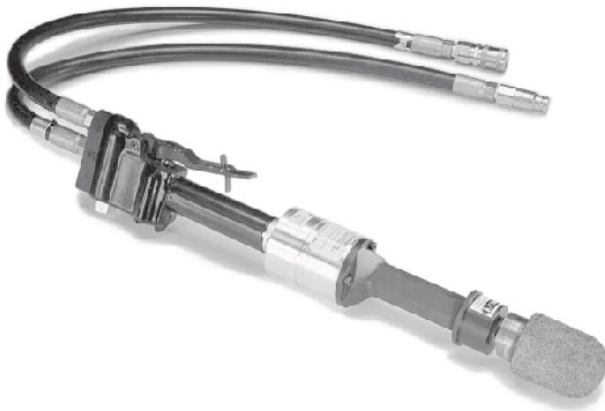
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HD45 Hammer Drill Cont.

| Accessories | |
|--|--|
| PART NO. | DESCRIPTION |
| Carbide Bits | |
| 02280 | 3/4 in. x 24 in. (61 cm) Length, 14 7/8 in (37.8 cm) Deep Hole |
| 05163 | 7/8 in. x 24 in (61 cm) Length, 14 7/8 in (37.8 cm) Deep Hole |
| 04668 | 1 in x 18 in (45.7 cm) Length, 8 7/8 in (22.5 cm) Deep Hole |
| 02281 | 1 in x 24 in (61 cm) Length, 14 7/8 (37.8 cm) Deep Hole |
| 02282 | 1-1/4 in x 24 in (61 cm) Length, 14 7/8 in (37.8 cm) Deep Hole |
| 04896 | 1-1/4 in x 36 in (91.4 cm) Length, 29 in (73.7 cm) Deep Hole |
| 05167 | 1-1/2 in x 24 in (61 cm) Length, 15 in (38.1 cm) Deep Hole |
| 02283 | 2 in x 24 in (61 cm) Length, 14 3/4 in (37.5 cm) Deep Hole |
| 30279 | Adapter to Accept Percussion Core Bits |
| Carbide Percussion Core Bits (Part Number 30279 Required) | |
| 27896 | 1 in dia. x 6 in (15.2 cm) LOA |
| 27897 | 1-1/8 in dia. x 6 in (15.2 cm) LOA |
| 27898 | 1-1/4 in dia. x 6 in. (15.2 cm) LOA |
| 27899 | 1-1/2 in dia. x 6 in (15.2 cm) LOA |
| 27900 | 1-3/4 in dia. x 6 in (15.2 cm) LOA |
| 27901 | 2 in dia. x 6 in (15.2 cm) LOA |
| 27902 | 2-1/2 in dia. x 6 in (15.2 cm) LOA |
| 27903 | 2-3/4 in dia. x 6 in (15.2 cm) LOA |
| 27904 | 3 in dia. x 6 in (15.2 cm) LOA |
| 30834 | 4 in dia. x 6 in (15.2 cm) LOA |
| 27905 | Percussion Core Bit Spline Adapter for HD45 |
| 30278 | Core Bit Pilot (recommended for 2-1/2 in and larger core bits) |

| Ordering Information | |
|----------------------|--|
| PART NO. | DESCRIPTION |
| HD45110B | HD45 Hammer Drill with Hose Whips |
| HD45310 | HD45 Underwater Hammer Drill with Hose Whips |

HG60 Bull Nose Grinder



| Specifications | | |
|----------------|-----------------------------|-----------|
| ITEM | U.S.A. | METRIC |
| Capacity | 2.5 in. Diameter x 2.75 in. | |
| Performance | 4500 rpm | |
| Flow Range | 5-10 gpm | 19-38 lpm |
| Pressure | 2000 psi | 140 bar |
| Ports | -8 SAE O-Ring | |
| Weight | 11.3 lbs | 5.13 kg |
| Length | 23 in. | 58.4 mm |
| Width | 3.3 in. | 8.4 cm |
| Height | 4 in. | 10.2 cm |
| Connection | HTMA Flush Face Couplers | |
| Hose Whips | Yes | |
| Motor | Integral | |
| Arbor | 5/8 in. - 11 | |

Features and Benefits

The Stanley HG60 Bull Nose Grinder is ideal for smoothing weld seams, de-burring drilled holes, cleaning castings, or any application where removal of unwanted metal is needed.

The HG60's hydraulic motor is specifically designed to optimize power and rpm for grinding applications. The HG60 won't bog down on those tough grinding jobs. And, its compact and lightweight design helps reduce operator fatigue.

A built-in flow control valve prevents the chance of excessive spindle speed and also protects the motor, resulting in increased tool life. An interlocking trigger assembly helps prevent accidental engagement of the tool, providing increased operator safety.

| Ordering Information | | |
|----------------------|----------|--------------------|
| MODEL | PART NO. | DESCRIPTION |
| HG60 | HG60130B | 2-1/2 in. Diameter |



ID07 Impact Drill/Wrench



| Specifications | | |
|------------------|---|------------|
| ITEM | U.S.A. | METRIC |
| Output Capacity | 7/16-in Quick Change or ½-in Square Drive | |
| Torque | 500 ft. lbs. | 675 Nm |
| Input Flow Range | 4-12 gpm | 14-45 lpm |
| Input Pressure | 750-2000 psi | 50-140 bar |
| Weight | 7.2 lb | 3.3 kg |
| Length | 8.5 in. | 21.6 cm |
| Width | 4.5 in. | 11.4 cm |
| Height | 10 in. | 25.4 cm |
| Motor | Stanley Hyrevz™ Gear | |
| Porting | -8 SAE O-Ring | |

Features and Benefits

Stanley's ID07 Impact Drill/Wrench embodies the latest product improvements in this tool. Delivering impact torque of up to 500 ft. lbs. (675 Nm), the ID07 is capable of breaking loose some of the toughest bolts and nuts. The ID07 can drive wood augers into the hardest salt-cured or creosote-treated poles. The ID07 has the work-site proven swing-hammer mechanism that will deliver high performance and long-term service. The integral Stanley Hyrevz™ gear motor is manufactured to exacting standards to deliver maximum efficiency.

Available in 7/16-inch hex quick-change chuck or ½-inch square drive. The quick-change chuck has three large detent balls to positively retain the 7/16-inch hex shanks. The rib on the chuck sleeve makes it easy to push-to-release, even with gloved hands. The new over-sized reversing spool is protected by heavy-duty wiper seals. These wiper seals clean away dirt as the spool is moved. Dirt cannot get in between the spool and housing bore to create leak-causing scratches. A clean spool always runs in the housing; the dirt is left outside.

The built-in reverse-check valve prevents operating the wrench when reverse-plumbed to the hydraulic system. Preventing reverse operation ensures a long operating life for the hydraulic seals. Coated with a thick, tough layer of foamed-plastisol, the handle transmits very little heat. The foamed plastisol gives a more comfortable grip to the tool. The forward position of the handle places more of the tool weight on your hand for better balance and control.

The cast-in lifting eye is always available, unlike screwed-in lifting rings which may come loose and fall off. The Stanley dual-spool selector is accessible under a seal plug at the rear of the tool. Setting the tool for open or closed-center operation is as simple as opening or closing a valve. The selector is not susceptible to moving under the vibration of use and is completely protected from accidental or unintentional access. The seal plug also protects the end of the trigger spool and dual-spool selector from water and dirt.



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ID07 Impact Drill/Wrench Cont.

| Ordering Information | |
|----------------------|---|
| ORDER NO. | DESCRIPTION |
| ID07810 | 7/16-in QC Chuck, No Trigger Guard |
| ID0781001 | 7/16-in QC Chuck, CE, No Trigger Guard |
| ID07810S | 7/16-in QC Chuck, Railroad, No Trigger Guard |
| ID07815 | 7/16-in QC Chuck, Trigger Guard |
| ID07820 | ½-in Square Drive, No Trigger Guard |
| ID0782001 | ½-in Square Drive, CE, No Trigger Guard |
| ID07920 | ½-in Square Drive, Underwater, No Trigger Guard |

| Accessories | |
|-------------|--|
| ORDER NO. | DESCRIPTION |
| 05117 | Adapter, 7/16 male hex x ½ male square |
| 07192 | Adapter, ½ female square x 5/8 hex QC |
| 21755 | Impact Socket Set, ½ square drive 8-point, deep sockets. Includes vinyl holder and 9 sockets – ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1, & 1-1/16 |
| 33155 | Lineman's Socket, 13/16 and 15/16 |
| 33156 | Lineman's Socket, 1 and 1-1/8 |

IW12 Impact Wrench



IW12 Shown with flush face couplers. Couplers are not included on all models. See order information on back.

| Specifications | | |
|------------------------|--------------------------|-------------|
| ITEM | U.S.A. | METRIC |
| Chuck Type – Sq. Drive | ¾ in | 1.9 cm |
| Weight | 14 lb | 6.4 kg |
| Length | 9.5 in | 24.1 cm |
| Width | 4 in | 10.2 cm |
| Hydraulic Pressure | 1000-2000 psi | 70-140 bar |
| Torque | 250-1200 ft lb | 340-1632 Nm |
| Flow Range | 4-12 gpm | 15-45 lpm |
| Optimum Flow | 5-10 gpm | 20-38 lpm |
| Porting | -8 SAE o-ring | |
| Connect Size and Type | 3/8 in Male Pipe Adapter | |
| Motor | Integral | |

Stanley's hydraulic impact wrenches are used around the world by electric and gas utilities, construction crews, municipal agencies, and railroad crews. No other tool, whether air or electric driven, can match the power, light weight and overall efficiency of our impact wrenches.

The IW12 can handle a wide variety of applications. The IW12 impact wrench features adjustable impact intensity. The rugged impact wrench mechanism is simple to maintain and has many features to give it proven reliability. Torque transmission to the operator is minimal with the swing hammer design.

Designed to run from a wide range of hydraulic circuits, the IW12 is used for nut, bolt and anchor bolt driving and is equally popular for wood boring and drilling. The larger feathering trigger is convenient to use and gives the operator complete control of the wrench. The standard reversing valve provides instant reverse. For operator comfort the IW12 handle is coated with a heat insulating, shock absorbing material.

Underwater models available, refer to ordering information.



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IW12 Impact Wrench Cont.

| Ordering Information | |
|----------------------|--|
| ORDER NO. | DESCRIPTION |
| IW12140 | Impact Wrench, $\frac{3}{4}$ in. sq. Drive |
| IW12140S | Impact Wrench, $\frac{3}{4}$ in. sq. Drive, with HTMA* Flush Face Couplers |
| IW1214001 | Impact Wrench, $\frac{3}{4}$ in. sq. Drive, with Flush Face Couplers, CE |
| IW12340C | Impact Wrench, $\frac{3}{4}$ in. sq. Drive, U/W |
| IW1234001 | Impact Wrench, $\frac{3}{4}$ in. sq. Drive, U/W, CE |

| Accessories | |
|-------------|---|
| PART NO. | DESCRIPTION |
| 01857 | Adjustable Chuck & Adapter – $\frac{3}{4}$ in. sq female x $\frac{3}{4}$ in Chuck |
| 05080 | Adapter – $\frac{5}{8}$ in hex x $\frac{1}{2}$ in sq male |
| 06790 | Adapter – $\frac{3}{4}$ in sq anvil to $\frac{5}{8}$ in hex |

IW16 Impact Wrench



| Specifications | | |
|----------------------|--------------------------|-------------|
| ITEM | U.S.A. | METRIC |
| Input Flow Range | 7-12 gpm | 26-45 lpm |
| Input Pressure | 1500-2000 psi | 105-140 bar |
| Capacity | 1 in. Square Drive | |
| Torque Range | 500-2500 ft-lb | 680-3400 Nm |
| Weight (with handle) | 45.5 lbs | 20.6 kg |
| Length | 17.5 in. | 45 cm |
| Width | 4.5 in. | 11 cm |
| Height (with handle) | 28 in. | 72 cm |
| Handle Width | 9 in. | 23 cm |
| Porting | 8 SAE O-Ring | |
| Connector | HTMA Flush Faced Coupler | |

Features and Benefits

The Stanley **IW16** Impact Wrench is available with a sturdy add-on handle mechanism for track bolt installation and removal. With the handle mechanism installed, track bolt work can be done in a comfortable, full-upright position, increasing operator comfort and reducing the risk of back injury.

Ease of Use – Set the direction of rotation to either tighten or loosen a fastener, press on the toe plate of the handle mechanism to engage the fastener, then squeeze the trigger for up to 2500 ft-lbs (3400 Nm) of torque.

Removable Handle Mechanism easily converts the **IW16** for use as a standard impact wrench. Adjustable Impact Intensity of the **IW16** makes it ideal for a wide range of uses.

Rugged Swing-Hammer impact mechanism provides easy servicing for reduced maintenance costs and greatly reduces the transmission of torque to the operator reducing fatigue through repetitive tool operation.

Large “D” Handle and Feathering On/Off Valve allow the operator to control the amount of energy to the tool, providing more control and ease of handling.

Standard Reversing Valve provides instant changeover from forward to reverse, increasing operator efficiency.



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IW16 Impact Wrench Cont.

| Accessories | |
|-------------|--------------------------------------|
| PART NO. | DESCRIPTION |
| 31201 | Adapter – 1 in. to ¾ in. drive |
| 31202 | 10 in. Extension – ¾ in. drive |
| 31203 | 10 in. Extension – 1 in. drive |
| 31916 | Remote Handle Assembly |
| 33230 | Railroad Socket Set, 1 in. sq. drive |
| 33276 | Socket Pin |
| 33277 | Socket Ring |

| Ordering Information | | |
|----------------------|----------|--|
| MODEL | PART NO. | DESCRIPTION |
| IW16 | IW16157 | 1 in. Drive Impact Wrench with upright handle and Allen Wrench |
| IW16 | IW16150S | 1 in. Drive Impact Wrench Not included – Upright Handle |

IW24 Impact Wrench



| Specifications | | |
|----------------|---------------------------|--------------|
| ITEM | U.S.A. | METRIC |
| Capacity | 1-1/2 in. Square Drive | |
| Performance | 800-3500 ft lbs | 1088-4760 Nm |
| Flow Range | 7-12 gpm | 26-45 lpm |
| Pressure | 1800-2000 psi | 124-140 bar |
| Ports | -8 SAE O-Ring | |
| Weight | 43 lbs | 19.5 kg |
| Length | 16.5 in. | 41 cm |
| Width | 5.1 in. | 13 cm |
| Connection | 3/8 in. Male Pipe Adapter | |
| Hose Whips | No | |
| Motor | Integral | |

Features and Benefits

The Stanley IW24 Impact Wrench is a heavy duty wrench ideal for nut and bolt driving, screw anchor and other heavy impact applications. Designed to run from a wide range of hydraulic circuits, the IW24 has adjustable impact intensity making it ideal for a wide range of heavy duty driving. The large “D” handle and feathering trigger are convenient and gives the operator complete control of the wrench.

The rugged swing-hammer impact mechanism provides easy servicing for reduced maintenance costs and greatly reduces the transmission of torque to the operator reducing fatigue through repetitive tool operation. Standard reversing valve provides instant change over from forward to reverse. Jet set the direction of rotation to either tighten or loosen a fastener, squeeze the trigger for up to 3500 ft lbs (4760 Nm) of torque.



| Ordering Information | | |
|----------------------|----------|------------------------|
| MODEL | PART NO. | DESCRIPTION |
| IW24 | IW24160 | 1-1/2 in. Square Drive |
| IW 24 U/W | IW24360 | 1-1/2 in. Square Drive |

SK58 Sinker Drill



| Specifications | | |
|--------------------------------|------------------------------------|-------------|
| ITEM | U.S.A. | METRIC |
| Capacity (SK58130) | 7/8 in. Hex x 4-1/4 in. Shank | |
| Capacity | 1 in. Hex x 4-1/4 in. Shank | |
| Performance | 3 in. x 20 ft. Deep Hole | |
| Flow Range | 7-9 gpm | 26-34 lpm |
| Pressure | 1500-2000 psi | 105-140 bar |
| Ports* | -8 SAE O-Ring (H), 1/2 in. NPT (A) | |
| Weight | 67 lbs | 30 kg |
| Length | 26 in. | 66 cm |
| Width | 18 in. | 46 cm |
| Connection | 3/8 in. Male NPT Hose End | |
| Hose Whips | Yes | |
| Motor | Integral | |
| * (H) = Hydraulic (A) = Air | | |

Features and Benefits

The Stanley SK58 Sinker Drill is designed for heavy-duty utility construction, blast hole drilling, leak detection for gas utilities, dowel drilling. A model is available for underwater use.

Models are available with air or water flushing to clear holes of debris.

The sinker drill features an easy start feathering trigger and a direct drive rotation motor for reliable service and fast and easy starting.

The rotation is independent of impact rate and is adjustable between 0 to 300 rpm. The sinker drill can drill up to a 3 in. (75 mm) diameter hole up to 20 ft (6 m) deep.



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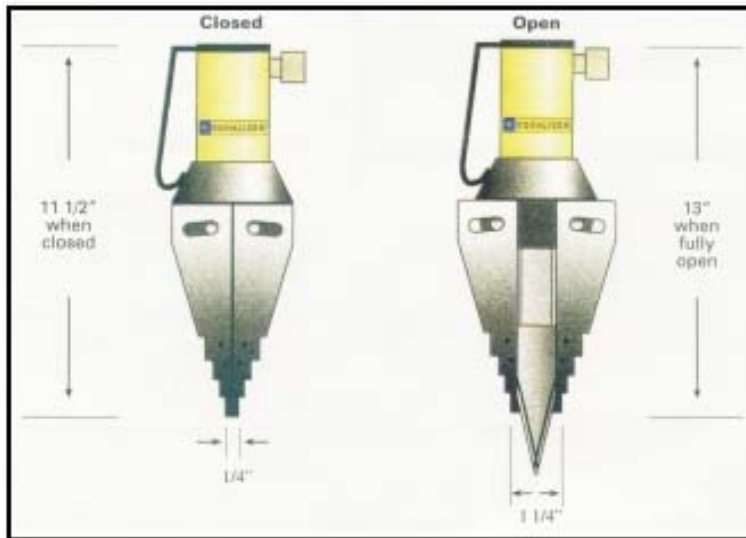
SK58 Sinker Drill Cont.

| Ordering Information | | |
|----------------------|----------|---|
| MODEL | PART NO. | DESCRIPTION |
| SK58 | SK58110 | Air, Flush Open Center System |
| SK58 | SK58120 | Water, Flush Open Center System |
| SK58 | SK58130 | Air, Flush Open Center System |
| SK58 | SK58310 | Underwater, Air, Flush Open Center System |

| Accessories | |
|--|--|
| PART NO. | DESCRIPTION |
| CARBIDE ROCK BITS SHOULDER DESIGN FOR USE WITH AIR | |
| 05177 | 1-3/8 in. Diameter, Hex Thread |
| 05178 | 1-1/2 in. Diameter, Hex Thread |
| DRILL STEELS FOR USE WITH AIR | |
| 04915 | 1 in. Hex x 4-1/4 in., Hex Thread 26 in. U/C |
| 05168 | 1 in. Hex x 4-1/4 in., Hex Thread 12 in. U/C |
| 05169 | 1 in. Hex x 4-1/4 in., Hex Thread 18 in. U/C |
| 05170 | 1 in. Hex x 4-1/4 in., Hex Thread 24 in. U/C |
| 05171 | 1 in. Hex x 4-1/4 in., Hex Thread 48 in. U/C |
| 05172 | 7/8 in. Hex x 4-1/4 in., Hex Thread 12 in. U/C |
| 05174 | 7/8 in. Hex x 4-1/4 in., Hex Thread 24 in. U/C |
| 05175 | 7/8 in. Hex x 4-1/4 in., Hex Thread 36 in. U/C |
| 05176 | 7/8 in. Hex x 4-1/4 in., Hex Thread 48 in. U/C |
| 08905 | 1 in. x 4-1/4 in., Hex Thread 6 ft U/C |
| 08906 | 1 in. x 4-1/4 in., Hex Thread 8 ft U/C |
| CARBIDE ROCK BITS FOR USE WITH WATER | |
| 05189 | 2 in. Diameter, 125 Rope Thread |
| 05190 | 2-1/4 in. Diameter, 125 Rope Thread |
| 05191 | 2-1/2 in. Diameter, 125 Rope Thread |
| STRIKING BAR AND SECTIONAL DRILL STEEL FOR USE WITH WATER | |
| 05183 | 1 in. Hex x 4 ft, 125 Rope Thread |
| 05184 | 1 in. Hex x 5 ft, 125 Rope Thread |
| 05192 | Striking Bar, 1 in. Hex x 4-1/4 in., 125 Rope Thread, 5/16 Tube Size |
| 05193 | Coupling, 125 Rope Thread |
| 06929 | Replacement Cup Seal for Striking Bar |

The Equalizer 10T(E) Hydraulic Wedge

Safe, Compact, and Effective Spreading Tool



Special Features:

- Only requires an access gap of 1/4"
- Robust Lightweight Tool – Just 12 lbs.
- Portable
- Easy to use
- Overall length – 11-1/2"
- Unique mechanical retraction
- Versatile – can be used resting on side
- 1" of spread from just 2-1/8" of stroke
- Slim, smooth-line design
- SWL – 10,000 psi generates 12 tons of separating force
- Requires minimum maintenance
- Unique interlocking first step enhances safety, giving secure holding at the tips
- Single acting ram
- Spring return
- Automatic mechanical retraction of spread plates
- Interlocking first step
- Lightweight tool – 12 lbs

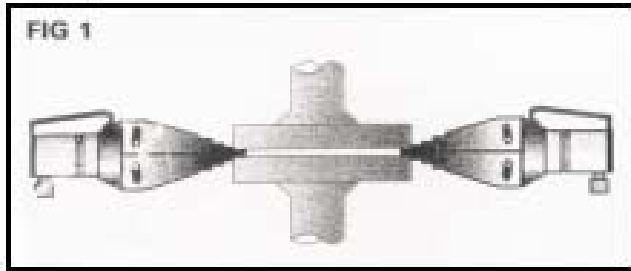
Aqua-Air Ordering Information:

Hydraulic Flange Spreader / Maxi Wedge Kit.....10TE

Lloyds Approved

The Equalizer 10T(E) Hydraulic Wedge Cont.

Safety

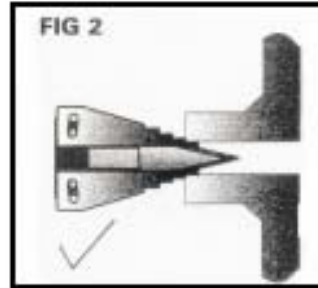


It is recommended that two wedges be used in tandem. This will give an even spread to the joint. The wedges should be set at 180° apart. **(Fig 1)**

10TE Maxi Wedge Kit:

2 – 10TE Hydraulic Wedges
2 – Safety Step Blocks
1 – Hydraulic Hand Pump
2 – Hose Assembly
1 – Manifold for 2 Wedge Hook-Up
1 – Carrying Case
Weight – 70 lbs.

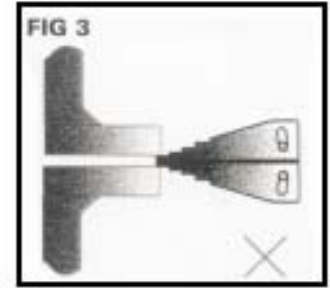
Do's and Don'ts



Ensure wedge is fully located on the step selected to spread.

A solid block may be inserted into a joint and the pressure released onto the block.

A fresh hold on a new step can then be chosen to open the joint further if required.



Never place fingers in a joint held by activated wedge unless a safety block is located into the joint.

The handle of the wedge is there to stop operators holding spread plates as the wedge is retracted. This will stop fingers becoming jammed between plates.

It is not recommended to use a hydraulic pump with a capacity of greater than 10,000 psi.

TP08 Trash Pump



| Specifications | | |
|-----------------------|--|-----------|
| ITEM | U.S.A. | METRIC |
| Capacity | 800 gpm | 3,028 lpm |
| Weight | 59 lbs | 26.7 kg |
| Height (over handle) | 16.5 in. | 42 cm |
| Length | 19 in. | 48.3 cm |
| Width | 15 in. | 38.1 cm |
| Pressure | 2,000 psi | 140 bar |
| Flow Range | 7-9 gpm | 26-34 lpm |
| Maximum Flow | 9 gpm | 34 lpm |
| Porting | #10 SAE (Press.) #12 SAE (Ret) | |
| Connect Size and Type | ½ in. Male Pipe (Press.) ¾ in. Male Pipe (Ret) | |
| Discharge Diameter | 4 in. Camlock | |
| Inlet Diameter | 4 in. | 100 mm |

The Stanley **TP08** Trash Pump is a lightweight, heavy duty pump capable of pumping high volumes of water, sand slurries, gravel, sludge and solids up to 3 in./75 mm in diameter. The **TP08** is submersible, self priming and can run dry without damage to the motor, bearings or impeller.

The **TP08** has been designed to get the most from an HTMA Type II hydraulic circuit. Using only 9 gpm/34 lpm of hydraulic flow, the **TP08** will pump over 800 gpm/3,028 lpm at a 10 ft/2.54 m head. The free-flow impeller and 4 in./100 mm inlet and outlet combine to make the **TP08** one of the most efficient pumps in the business.

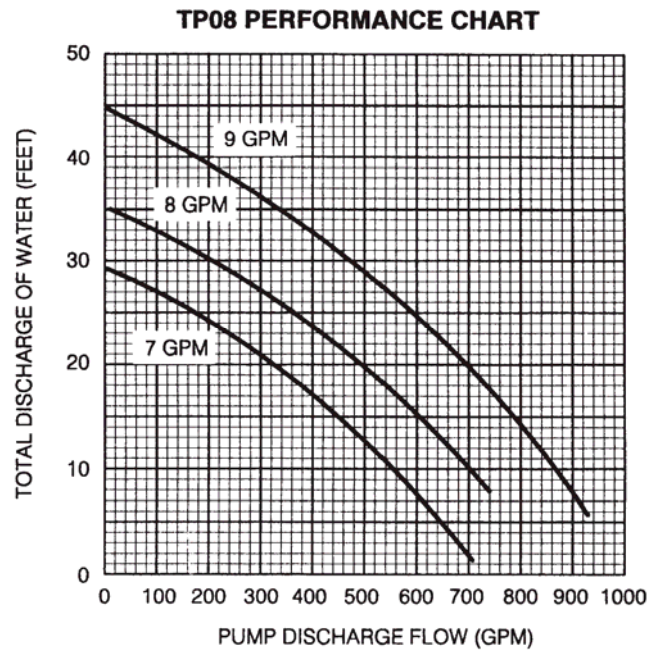
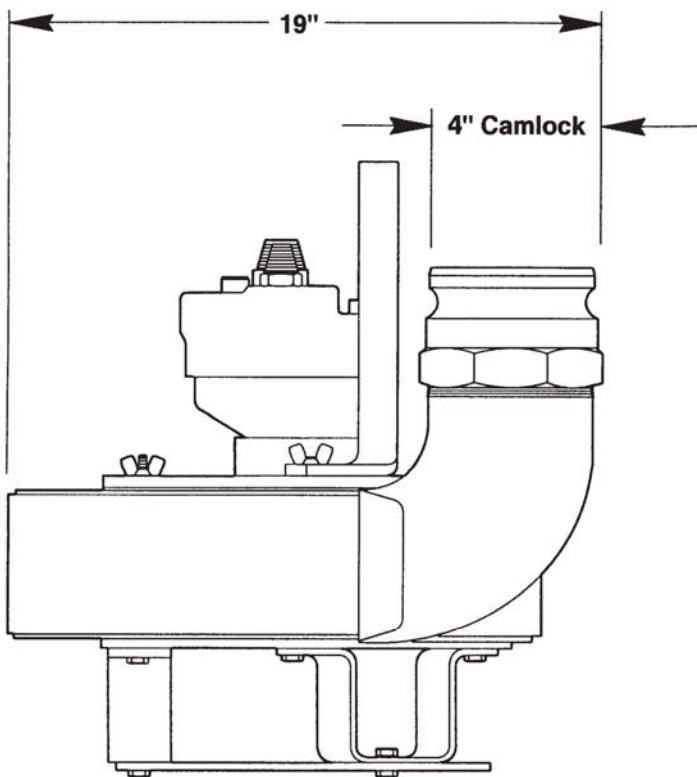
Weighing only 59 lbs/27 kg and with its convenient handle, the **TP08** can easily be handled by one operator. The **TP08** and the Stanley HP1 Compact Power Unit make a powerful, portable team for high volume de-watering and trash pump applications.

The heavy-duty construction of the **TP08** features a fabricated, all steel volute and abrasion resistant cast iron impeller. The volute uses replaceable UHMW polyethylene wear plates to reduce wear and extend pump life. The heavy-duty Stanley HYREVZ™ hydraulic motor is self-lubricating.

Routine maintenance for the **TP08** is easy. The top cover is attached to the volute with six wing nuts so cleaning and inspection can be accomplished in just a few minutes.

TP08 Trash Pump Cont.

| Ordering Information | |
|----------------------|------------------------------------|
| ORDER NO. | DESCRIPTION |
| TP08013 | 4 in. Trash Pump, 800 gom/3028 lpm |



Subsalve USA

| Part Number | Description | Actual Lift LBS / KGS |
|--|--|--------------------------|
| Quad Bags (multi-purpose bags) | | |
| QB 25 | Quad Bag 25 lb. | 25 / 12 |
| QB 50 | Quad Bag 50 lb. | 55 / 25 |
| QB 100 | Quad Bag 100 lb. | 105 / 47 |
| QB 200 | Quad Bag 200 lb. | 205 / 93 |
| Quad Bag Options | | |
| Lanyard Dump Valve | | |
| Strobe Light | | |
| CO2 Inflator | | |
| Commercial Lift Bags (open bottom) | | |
| C 100 | Commercial 100 lift bag | 132 / 55 |
| C 200 | Commercial 200 lift bag | 234 / 100 |
| C 500 | Commercial 500 lift bag | 540 / 250 |
| Professional Lift Bags (open bottom) | | |
| PF 1 | Professional 1,000 lift bag | 1,100 / 500 |
| PF 2 | Professional 2,000 lift bag | 2,200 / 1,000 |
| PF 4 | Professional 4,000 lift bag | 4,400 / 2,000 |
| PF 6 | Professional 6,000 lift bag | 6,600 / 3,000 |
| PF 12 | Professional 12,000 lift bag | 13,000 / 5,500 |
| PF 20 | Professional 20,000 lift bag | 22,000 / 10,000 |
| PF 40 | Professional 40,000 lift bag | 44,000 / 20,000 |
| PF 70 | Professional 70,000 lift bag | 77,000 / 35,000 |
| Enclosed Flotation Bags (enclosed pillows) | | |
| EFB 2 | Enclosed Flotation Bag 200 | 255 / 100 |
| EFB 5 | Enclosed Flotation Bag 500 | 525 / 250 |
| EFB 10 | Enclosed Flotation Bag 1000 | 1,100 / 500 |
| EFB 20 | Enclosed Flotation Bag 2000 | 2,200 / 1,000 |
| EFB 40 | Enclosed Flotation Bag 4000 | 4,400 / 2,000 |
| EFB 60 | Enclosed Flotation Bag 6000 | 6,600 / 3,000 |
| Salvage Pontoons (enclosed tubes) | | |
| SP 1 | Salvage Pontoon 1000 | 1,100 / 500 |
| SP 2 | Salvage Pontoon 2000 | 2,200 / 1,000 |
| SP 4 | Salvage Pontoon 4000 | 4,400 / 2,000 |
| SP 6 | Salvage Pontoon 6000 | 6,600 / 3,000 |
| SP 12 | Salvage Pontoon 12,000 | 13,200 / 5,500 |
| SP 20 | Salvage Pontoon 20,000 | 22,000 / 10,000 |
| SP 40 | Salvage Pontoon 40,000 | 44,000 / 20,000 |
| SP 70 | Salvage Pontoon 70,000 | 77,000 / 35,000 |
| Various 2000 | | |
| VRS 2000 | 2000 Vehicle Recovery System (without Air Cylinders) | |
| VRS MN | MN Two Station Manifold and Hose | |
| Military Products | | |
| ACL 12 | Aircraft Lift Bag 12 Ton Pneumatic | |
| MV 2000 | MARK V Underwater Explosive Ordnance Disposal System | |



Commercial Lift Bags



Enclosed Flotation Bags



Professional Lift Bags



Salvage Pontoons

Air Lift



Divers use a variety of dredges to move sediments, the most common being an air lift and a water venture dredge. The air lift uses the expansion of air as it passes up the dredge hose (usually 150 mm diameter) to create suction. Because it depends on air expansion, the air lift is best suited to the range of 10 feet to 82 feet. For more stability the 12' length is used.



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Anderol® 500 Synthetic Compressor Oil (ISO 100)

Applications

Cylinder and crankcase lubrication for reciprocating compressors and vacuum pumps for the following gases:

AirButadiene
Benzene Carbon Monoxide
Carbon Dioxide (dry) Furance (crack) gas
EthyleneSulfur Hexafluoride
Helium Natural Gas
MethanePropane

Anderol® 500 may also be considered for other applications requiring an oxidation resistant lubricant.

Nominal Operating Range is -15°C to 210°C.

Anderol® 500 is an ISO 100 diester-based lubricant designed to provide high temperature and long-term lubrication with minimal deposit formation.

Anderol 500 is rated H2 for use in food processing plant applications.

Advantages

- Fewer oil changes
- Lower oil consumption
- Reduces compressor maintenance
- Eliminates lacquering and deposits
- Greatly reduces fire and explosion hazard
- Reduces energy consumption
- Separates water condensate rapidly

Approvals

Anderol synthetic lubricants are the only long-life synthetic lubricants with over 20 years of successful performance. They are field tested, approved or recommended by major compressor manufacturers. Should you have any questions regarding the suitability of Anderol® 500 compressor lubricant for a specific manufacturer's model compressor, please check with your Anderol lubricant supplier or contact Anderol Company.



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Anderol® 500 Synthetic Compressor Oil (ISO 100)

| Sales Specifications | | | | |
|--------------------------|-------------|-------|-------|----------|
| Property | Test Method | Min | Max | Typical* |
| Viscosity @ 40°C, cSt | ASTM D 445 | 95 | 110 | 98.8 |
| Viscosity @ 100°C, cSt | ASTM D 445 | 9.9 | 11.5 | 10.4 |
| Pour Point, °C | ASTM D 97 | - | -30 | -35 |
| Flash Point, °C | ASTM D 92 | 240 | - | 250 |
| Specific Gravity, 15.6°C | ASTM D 1298 | 0.955 | 0.970 | 0.960 |

| Additional Information | | |
|---|-------------|------------------|
| Property | Test Method | Typical Results* |
| Autoignition Temperature, °C | ASTM E 659 | 410 |
| Conradson Carbon Residue, % | ASTM D 189 | 0.02 |
| Evaporation, 22 hrs @ 99°C, % | ASTM D 972 | <1.0 |
| Copper Strip Corrosion, 3 hrs @ 100°C | ASTM D 130 | 1a |
| Demulsibility @ 54°C Ml oil/water/emulsion (minutes) | ASTM D 1401 | 39/38/3 (<60) |
| Four-Ball Wear, 1200 rpm, 75°C, 40 kg, 1 hr, mm | ASTM D 4172 | 0.8 |

* Values for typical results are for information only and can vary; not specifications.

COMPATIBILITY – The following seals, paints, and plastics are recommended for use in contact with Anderol Company Synthetic Lubricants. Materials not recommended are also shown. For more information on other materials, see our “Compatibility Guide.”

RECOMMENDED – Viton, High Nitrile Buna N, Teflon, Epoxy Paint, Oil-Resistant Alkyd, Nylon, Delrin, Celcon, PBT

NOT RECOMMENDED – Neoprene, SBR Rubber, Low Nitrile Buna N, Acrylic Paint, Lacquer, Polystyrene, PVC, ABS



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Halocarbon 0.8 Oil

Halocarbon 0.8 oil is a low molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 0.8 is the lowest viscosity oil that is manufactured by Halocarbon Products. Halocarbon 0.8 oil is used mostly as a low temperature bath fluid. This oil has a very low pour point and not miscible with water. Halocarbon 0.8 oil can be used as a process solvent in certain applications.

| | |
|------------------------|--------------------------|
| Flash and Fire Point | NONE |
| Pour Point | -200 deg F -129 deg C |
| Viscosity Range | 0.72 to 1.00 cST |
| Viscosity, centistokes | |
| @ -65 deg F | 5.7 |
| @ 100 deg F | 0.8 |
| @ 160 deg F | 0.54 |
| ISO Grade | 1 (approx.) |
| Density, g/ml | 1.71 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor



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Halocarbon 1.8 Oil

Halocarbon 1.8 oil is a low molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 1.8 oil is one of the lower viscosity oils that is manufactured by Halocarbon Products. Some of the uses of Halocarbon 1.8 oil are as a metal working and wire drawing fluid.

| | |
|------------------------|-------------------------|
| Flash and Fire Point | NONE |
| Pour Point | -135 deg F -93 deg C |
| Viscosity, centistokes | |
| @ -65 deg F | 143 |
| @ 100 deg F | 1.8 |
| @ 160 deg F | 1.1 |
| ISO Grade | 2 (approx.) |
| Density, g/ml | 1.82 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 4.2 Oil

Halocarbon 4.2 oil is a low molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 4.2 oil is one of the lower viscosity oils that is manufactured by Halocarbon Products. The major uses of Halocarbon 4.2 oil are as an inert instrument fill fluid and for the general lubrication for pumps.

| | |
|------------------------|---------------------------|
| Flash and Fire Point | NONE |
| Pour Point | - 100 deg F - 73 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 4.2 |
| @ 160 deg F | 1.9 |
| @ 210 deg F | 1.2 |
| ISO Grade | 5 (approx.) |
| Density, g/ml | 1.85 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 6.3 Oil

Halocarbon 6.3 oil is a low molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 6.3 oil is one of the lower viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 6.3 oil is as an instrument fill fluid where chemical inertness is needed.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | -95 deg F -75 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 6.3 |
| @ 160 deg F | 2.6 |
| @ 210 deg F | 1.6 |
| ISO Grade | 10 (approx.) |
| Density, g/ml | 1.87 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 27 Oil

Halocarbon 27 oil is a medium molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 27 oil is one of the medium viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 27 oil is for general-purpose lubrication, such as bearings, compressors, gear-boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | None |
| Pour Point | -40 deg F -40 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 27 |
| @ 160 deg F | 6.8 |
| @ 210 deg F | 3.1 |
| ISO Grade | 22-32 (approx.) |
| Density, g/ml | 1.90 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 56 Oil

Halocarbon 56 oil is a medium molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and non flammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 56 oil is one of the medium viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 56 oil is for general purpose lubrication, such as bearings, compressors, gear boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | -30 deg F -34 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 56 |
| @ 160 deg F | 11 |
| @ 210 deg F | 4.9 |
| ISO Grade | 46-68 (approx.) |
| Density, g/ml | 1.92 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 95 Oil

Halocarbon 95 oil is a high molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 95 oil is one of the higher viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 95 oil is for general purpose lubrication, such as bearings, compressors, gear boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | -15 deg F -26 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 95 |
| @ 160 deg F | 16 |
| @ 210 deg F | 6.3 |
| ISO Grade | 68-100 (approx.) |
| Density, g/ml | 1.92 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 200 Oil

Halocarbon 200 oil is a high molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 200 oil is one of the higher viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 200 oil is for general purpose lubrication, such as bearings, compressors, gear boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | 10 deg F -12 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 200 |
| @ 160 deg F | 26 |
| @ 210 deg F | 9 |
| ISO Grade | 150-220 (approx.) |
| Density, g/ml | 1.95 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 400 Oil

Halocarbon 400 oil is a high molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 400 oil is one of the higher viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 400 oil is for general purpose lubrication, such as bearings, compressors, gear boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | 15 deg F -9 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 400 |
| @ 160 deg F | 40 |
| @ 210 deg F | 12 |
| ISO Grade | 320-460 (approx.) |
| Density, g/ml | 1.95 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 700 Oil

Halocarbon 700 oil is a high molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 700 oil is one of the higher viscosity oils that is manufactured by Halocarbon Products. The major application of Halocarbon 700 oil is for general purpose lubrication, such as bearings, compressors, gear boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | 40 deg F 5 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 700 |
| @ 160 deg F | 62 |
| @ 210 deg F | 17 |
| ISO Grade | 680 (approx.) |
| Density, g/ml | 1.95 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.



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Halocarbon 1000N Oil

Halocarbon 1000N oil is a high molecular weight polymer of chlorotrifluoroethylene (PCTFE). This oil is manufactured by a controlled polymerization process and then is stabilized to give it some very unique properties. This oil is safe, chemically inert, and nonflammable and can be used with oxygen or chlorine. It has good lubricity, high thermal stability, and low compressibility.

Halocarbon 1000N oil is the highest viscosity oil that is manufactured by Halocarbon Products. The major application of Halocarbon 1000N oil is for general purpose lubrication, such as bearings, compressors, gear boxes, and pumps. This Halocarbon oil can be interchanged with hydrocarbon oils with some slight modification. Please see the oil selection chart.

| | |
|------------------------|------------------------|
| Flash and Fire Point | NONE |
| Pour Point | 50 deg F 10 deg C |
| Viscosity, centistokes | |
| @ 100 deg F | 1000 |
| @ 160 deg F | 83 |
| @ 210 deg F | 22 |
| ISO Grade | 1000 (approx.) |
| Density, g/ml | 1.95 |
| Appearance | Clear, Colorless Fluid |

This oil is available with a rust inhibitor.

Halocarbon Grease



Halocarbon 25-5S is a silica-thickened chlorotrifluoroethylene grease designed for use in contact with powerful oxidizers. It is the ideal lubricant for valves, seals, and gear lubrication for high-pressure oxygen, chlorine, 90% hydrogen peroxide, 100% nitric acid, red fuming nitric acid, and other oxidizers and aggressive chemicals. The silica is subject to attack by hydrogen fluoride and other related compounds. In those cases, polymer-thickened greases (25-10M) should be used. In applications where self-thickened chlorotrifluoroethylene greases are more desirable, use Halocarbon 25-10M grease.

| Halocarbon Silica Thickened Inert Greases | | | | | |
|---|------------|------------------------|---------------------|----------------------------|--|
| Halocarbon Grease | NLGI Grade | ASTM Penetration Range | Service Temperature | Minimum Drop Melting Point | Description |
| 32 | 1 | 310-340 | -25 to 175°C | None | Softest grease with broad temperature range. |
| 28 | 2 | 265-295 | -25 to 175°C | None | Less soft grease with broad temperature range. |
| 28LT | 2 | 265-295 | -45 to 95°C | None | Ideal for low temperature applications. |
| 25-5S | 3 | 220-250 | -20 to 175°C | None | Can also be used as a thread sealant. |
| 19 | 4 | 175-205 | -25 to 175°C | None | Hardest grease with broad temperature range. |

Halocarbon Oils

Physical Properties – Halocarbon Oils¹

| Oil | 0.8 | 1.8 | 4.2 | 6.3 | 27 | 56 | 95 | 200 | 400 | 700 | 1000N |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Flash and Fire Points | None | None | None | None | None | None | None | None | None | None | None |
| Pour Point ² deg F | -200 | -135 | -100 | -95 | -40 | -30 | -15 | 10 | 15 | 40 | 50 |
| deg C | -129 | -93 | -73 | -71 | -40 | -34 | -26 | -12 | -9 | 5 | 10 |
| Cloud Point ³ deg F | <-200 | <-135 | <-125 | <-125 | <-95 | -30 | -5 | 35 | 50 | 55 | 65 |
| deg C | <-129 | <-93 | <-87 | <-87 | <-71 | -34 | -21 | 2 | 10 | 13 | 18 |
| Viscosity ⁴ | | | | | | | | | | | |
| @-65 deg F (-54 deg C) | | | | | | | | | | | |
| Centistokes | 5.7 | 143 | - | - | - | - | - | - | - | - | - |
| Centipoises | 10 | 271 | - | - | - | - | - | - | - | - | - |
| @100 deg F (37.8 deg C) | | | | | | | | | | | |
| Centistokes | 0.8 | 1.8 | 4.2 | 6.3 | 27 | 56 | 95 | 200 | 400 | 700 | 1000 |
| Centipoises | 1.3 | 3.5 | 7.8 | 12 | 51 | 108 | 182 | 390 | 780 | 1365 | 1950 |
| @160 deg F (71.1 deg C) | | | | | | | | | | | |
| Centistokes | 0.54 | 1.1 | 1.9 | 2.6 | 6.8 | 11 | 16 | 26 | 40 | 62 | 83 |
| Centipoises | 0.89 | 1.9 | 3.4 | 4.7 | 13 | 21 | 30 | 49 | 75 | 118 | 158 |
| @210 deg F (99 deg C) | | | | | | | | | | | |
| Centistokes | - | 0.8 | 1.2 | 1.6 | 3.1 | 4.9 | 6.3 | 9 | 12 | 17 | 22 |
| Centipoises | - | 1.4 | 2.1 | 2.8 | 5.6 | 8.9 | 12 | 16 | 22 | 32 | 41 |
| Density ⁵ | | | | | | | | | | | |
| @100 deg F (37.8 deg C) | 1.71 | 1.82 | 1.85 | 1.87 | 1.90 | 1.92 | 1.92 | 1.95 | 1.95 | 1.95 | 1.95 |
| @160 deg F (71.1 deg C) | 1.65 | 1.76 | 1.80 | 1.82 | 1.85 | 1.87 | 1.87 | 1.89 | 1.89 | 1.90 | 1.90 |
| @210 deg F (99 deg C) | 1.60 | 1.71 | 1.75 | 1.77 | 1.81 | 1.82 | 1.82 | 1.85 | 1.85 | 1.86 | 1.86 |
| Refractive Index | | | | | | | | | | | |
| _n 20 (typical) | 1.383 | 1.395 | 1.401 | 1.403 | 1.407 | 1.409 | 1.411 | 1.412 | 1.412 | 1.414 | 1.415 |
| D | | | | | | | | | | | |

1. Same oil grades followed by "S" indicates rust inhibitor has been added. Oil is still oxygen compatible.

2. ASTM D97; plus/minus 10 deg F or 5 deg C

3. ASTM D2500; plus/minus 10 deg F or 5 deg C

4. ASTM D44S; plus/minus 10%

5. Gay-Lussac pycnometers or equivalent; plus/minus 0.01 g(m)



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Oil Selection Chart

When replacing a conventional lubricant with a Halocarbon oil, there are practical and theoretical approaches to choosing the appropriate grade. Through experience we have found that a good choice is the Halocarbon grade numerically similar to the ISO Grade of viscosities. For example, Halocarbon 95 would be the choice to replace ISO 100 or other values in the same row. Halocarbon oils can also be blended to your desired viscosity. Please contact us.

| PCTFE Oil Viscosity (Cs @ 100 deg F) | ISO Grade | AGMA¹ Grade No. (Approx). | S.A.E. Viscosity No. (Approx.) | S.A.E. GEAR Lubricant No. (Approx.) | Viscosity SUS at 100 deg F (Approx.) |
|---|----------------------|---|---|--|---|
| 0.8 | | | | | |
| 1.8 | 2 | - | - | - | 29-35 |
| 4.2 | 5 | - | - | - | 36-44 |
| 6.3 | 10 | - | - | - | 54-66 |
| | 15 | - | - | - | 68-82 |
| | 22 | - | - | - | 95-115 |
| 27 | 32 | - | 10W | 75W | 135-165 |
| | 46 | 1 | 10 | - | 194-236 |
| 56 | 68 | 2 | 20 | 80W | 284-346 |
| 95 | 100 | 3 | 30 | - | 419-511 |
| | 150 | 4 | 40 | 85W | 630-770 |
| 200 | 220 | 5 | 50 | 90 | 900-1100 |
| 400 | 320 | 6 | 60 | - | 1350-1650 |
| | 460 | 7 | 70 | 140 | 1935-2365 |
| 700 | 680 | 8 | - | - | 2835-3465 |
| 1000 | | | | | |

¹ American Gear Manufacturers Association

Lubricants



| Part No. | Description |
|----------|---|
| 20414 | Silicone spray, 11.5 oz. |
| 25-55 | Halocarbon O2 Compatible grease, 1 oz. tube |
| 26414 | Silicone grease, Plastic Jar, 1.5 oz. |

Monolec® Air Compressor Oil



Features:

- Minimizes carbon deposits
- Offers high heat resistance
- Reduces wear
- Formulated to exceed all OEM requirements for warranty service
- Gives long life in all types of air compressors

6202-6205, 6222, 6244 Monolec® Air Compressor Oil

For reciprocating compressors, rotary screw and vane compressors, blowers, vacuum units

Features

- Combats high temperatures, water, contaminants, and heavy loads which accelerate wear
- Provides much longer equipment and oil life
- Very high natural viscosity index (VI) assures minimal viscosity change as temperatures vary, resulting in better sealing between, and separation of, metal surfaces
- Performance enhanced by an oxidation inhibitor which protects much better than ordinary commercial and most synthetic compressor oils.

Benefits

- Reduced power usage (energy cost savings)
- Reduced wear
- Lower operating temperatures
- Minimized carbon, varnish, or sludge formation
- Excellent water separation and rust control
- Longer effective oil life
- Excellent compatibility
- Versatile

Available in these ISO grades

| Part No. | Viscosity |
|----------|-----------------|
| 6202 | ISO 46, SAE 10 |
| 6222 | ISO 68, SAE 20 |
| 6203 | ISO 100, SAE 30 |
| 6244 | ISO 150, SAE 40 |
| 6204 | ISO 220, SAE 50 |
| 6205 | ISO 320 |
| 9032 | ISO 32 |
| 9068 | ISO 68, SAE 20 |
| 9100 | ISO 100, SAE 30 |
| 9150 | ISO 150, SAE 40 |

Benefits:

- Extended drain intervals
- Less make-up oil
- Cooler, cleaner operation
- Improved equipment efficiency and reduced energy consumption
- Excellent compatibility

9032-9150 Monolec® Synthetic Air Compressor Oil

100 percent synthetic oils carefully formulated to exceed all OEM requirements for air compressors, vacuum pumps and hydraulic systems, fluid power drives, oil lubricated bearing applications, above and below normal operating temperatures.

Designed to:

- Extend oil drain intervals
- Reduce wear and oil consumption
- Eliminate deposits and sludge formation in equipment operating at extreme temperatures

*** Available in: 1, 5, or 55 gallon quantities ***

BEAR PAW

Magnetic Handles



PERMANENT TYPE MAGNET – NEEDS NO RECHARGING

A SAFETY FACTOR OF TWO SHOULD BE USED TO DERATE
MAGNETIC CAPACITY FOR PRACTICAL APPLICATION

“CUB” MODEL “100”

MAXIMUM LIFT 100 LBS
Casting Dim. Approx. 3 ½” x 5”
Weight: 3 ½ lbs

FOR HANDLING 25 TO 50 LBS

MODEL “250”

MAXIMUM LIFT 250 LBS
Casting Dim. Approx. 5 ½” x 6”
Weight: 5 lbs

DESIGNED FOR USE ON
LIGHT GAUGE SHEET

MODEL “400”

MAXIMUM LIFT 400 LBS
Casting Dim. Approx. 5 ½” x 6”
Weight: 7 ¾ lbs

Maximum Magnetic Penetration: 1/8”

DESIGNED FOR USE ON
HEAVIER GAUGE SHEET

MODEL “600”

A REAL POWER HOUSE
MAXIMUM LIFT 600 LBS
Casting Dim. Approx. 6” x 7 ¾”
Weight: 9 ½ lbs

Maximum Magnetic Penetration: 1/8”

LIGHT ENOUGH FOR HAND USE

Proton 4 Professional Marine Magnetometer



The Proton 4 is the ultimate detector for iron and steel targets. It has a one gamma sensitivity, which is the maximum practical sensitivity for a towed magnetometer. Its maximum range capability of 1500 feet on each side (3000 foot total swath) lets you search a wide area quickly and completely. The mag is also a good choice to locate a variety of smaller targets such as pipelines, anchors, chains, cannons, dredge heads, etc. It is especially useful when objects are buried in the bottom and can't be found with sonar or video search systems. The detection range is unaffected by the medium between the magnetometer and the metal target. Performance does not change whether detecting through air, water, silt, sand, or solid coral. It's extremely large detection area makes this magnetometer the ideal choice for both commercial operations and professional wreck hunters. The Proton 4 is in use by military units, law enforcement agencies, and commercial diving company's worldwide.

This high performance marine magnetometer is ruggedly built and easy to operate. The topside console has both audio and visual alarms for target detection. Connect a GPS and position coordinates can be captured with the mag readout data on a built-in printer. The control box has an adjustable sensitivity switch that lets the operator select maximum sensitivity for open water searches or a lower sensitivity setting to work in rivers or harbors where steel structures may be nearby. A cycle time switch lets the operator choose a 2, 3, or 4 second cycle time. Selecting a longer time is helpful when working in an area with a weak magnetic field. An adjustable audio alarm lets the operator decide how much of a change in the baseline reading will cause the alarm to fire. When searching for small targets, low alarm settings alert the operator to small changes in the readout. Higher alarm settings cause the alarm to fire. When searching for small targets, low alarm settings alert the operator to small changes in the readout. Higher alarm settings cause the alarm to fire only when a significant ferrous metal object is detected.

Proton 4 Cont.



Optional tracker software shows the path of the boat as it moves over the search area along with a cascading waterfall of the mag readouts and the GPS position associated with each readout. When a target is detected, the readouts and coordinates change color so the operator can quickly see when and where a target is detected. At the bottom left of the screen is a graphical representation of the last 5 minutes of mag readouts. When a target is detected a spike or deep V is drawn on the graph. In addition to the mag and GPS data, other information displayed are the boat's speed, compass heading, and the sensitivity setting selected by the operator.

The system includes the towfish, 150 feet of cable, and a top-side control unit. The control unit features easy to read LCD display, audio alarm, and variable sensitivity switch (for pinpointing targets). An optional built-in printer is available which gives hard copy of mag readouts and Loran or GPS position. Options include 300 foot tow cable, UA-2 altimeter, RS232 data output, GPS interface, data collection and storage software; 500 and 1000' depth rated versions are also available. The complete system is powered by two 12 volt batteries with a total power consumption of only 40 watts.

Key Features of the Proton 4:

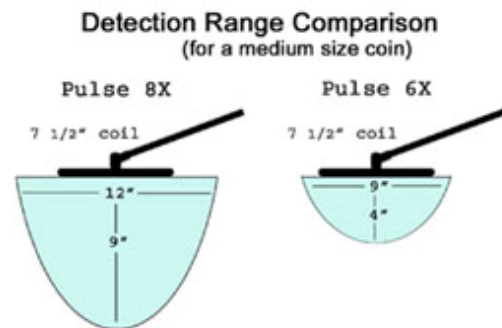
Commercial grade construction, extremely large detection range, faster towing speeds than Pulse systems, and ability to make a permanent record of mag readouts with position coordinates.

Pulse 6X



The Pulse 6X has the same top quality construction and 200 foot depth rating as the top-performing Pulse 8X, but with less detection range. The Pulse 6X not only shares many of the same features, but it can be upgraded to the Pulse 8X at any time. No other detector is available with this type of upgrade feature. The Pulse 6X is in use by military, law enforcement, commercial, and salvage divers worldwide.

The claim-to-fame of this pulse induction metal detector is its ability to ignore minerals in the environment while maintaining high sensitivity to all metal targets. The Pulse 6X is not affected by highly mineralized salt water, coral, rocks with a high iron content, or magnetic (black) sand; all of which drive conventional detectors crazy.



The Pulse 6X detects all metals from coins and jewelry, to anchors and cannons. The diver is alerted to presence of a metal target by both visual readout (shown on the meter) and an audio output (heard in the underwater earphone). The detection range for a target is unaffected by the medium between the detector's coil and the metal object. Performance does not vary whether detecting through air, water, silt, sand, or solid coral.

Powered by an internal 9 volt rechargeable battery pack, the detector will easily run all day on a full charge. Recharge the battery overnight and its ready for another full day of hunting. The Pulse 6X comes with all the accessories needed to use the detector on land and to dive to depths of over 200 feet. The standard package includes a corrosion proof PVC handle for underwater use and an anodized aluminum handle for land use. The package also includes an underwater earphone, AC and DC battery chargers, a hip-mount kit for the electronics housing, a spare parts kit, and JW Fishers *Search Team* hat.

Key Features of the Pulse 6X: Commercial grade construction, full meter readout, audio jack with detachable headphones, rechargeable batteries, and optional interchangeable coils. The variety of different coil sizes available allow this detector to be used on land, underwater, or deployed from a boat.



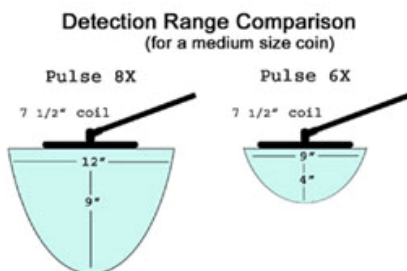
Pulse 8X



With a 200 foot depth rated housing and a 6 foot maximum detection range, the Pulse 8X is Fishers top of the line detector. It's heavy duty construction and high sensitivity make the Pulse 8X the choice of professionals everywhere. This commercial-grade metal detector is used by treasure hunters, commercial diving companies, law enforcement agencies, and military units worldwide.

The claim-to-fame of this pulse induction detection is its ability to ignore minerals in the environment while maintaining high sensitivity to all metal targets. It is not affected by highly mineralized salt water, coral, rocks with a high iron content, or magnetic (black) sand; all of which drive conventional metal detectors crazy. The Pulse 8X detects all metals from coins and jewelry, to anchors and cannons; and does it on land, or in fresh or salt water. The diver is alerted to presence of a metal target by both visual readout (shown on the meter) and an audio output (heard in the underwater earphone). The detection range for a target is unaffected by the medium between the detector's coil and the metal object. Performance does not vary whether detecting through air, water, silt, sand, or solid coral.

The Pulse 8X comes with all the accessories needed to use the detector on land or dive to depths of over 200 feet. The standard package includes a corrosion proof PVC handle for underwater use, an anodized aluminum handle for land use, underwater and land headphones. The package also includes AC and DC battery chargers, a hip-mount kit for the electronics housing, rugged Cordura carry bag, spare parts kit, and JW Fishers *Search Team* hat.



Powered by an internal 9 volt rechargeable battery pack, the detector will easily run all day on a full charge. Recharge the battery overnight, and it's ready for another full day of hunting.

A complete line of interchangeable coils are available which gives this detector tremendous versatility. Two of the coils can be deployed from a boat; the operator can be topside with the electronics unit, and have a coil on the bottom searching for metal.

The Pulse 8X has **double** the power and detection range of the Pulse 6X detector.

Pictured above: Pulse 8X with all accessories included with the detector.

Key Features: Commercial grade construction, full meter readout, audio jack with detachable earphones, rechargeable batteries, and optional interchangeable coils. The variety of different coil sizes available allow this detector to be used on land, underwater, or deployed from the boat.

Pulse 10



An economical yet powerful boat towed metal detector for ferrous and non-ferrous metals. With its 12 foot wide and 8 foot deep detection envelope this detector will locate a variety of targets including aluminum boats, brass propellers, outboard motors, steel anchors, bronze cannons, and gold bars.

The claim-to-fame of this pulse indication metal detector is its ability to ignore minerals in the environment while maintaining high sensitivity to all metal targets. The Pulse 10 is not affected by the minerals in salt water, coral, rocks with a high iron content, or magnetic (black) sand; all of which cause erratic readings in conventional detectors. Also, the detection range is unaffected by the medium between the metal detector and the metal target. Performance does not change whether detecting through air, water, silt, sand, or solid coral.

The Pulse 10 system includes an 18 inch search coil with 150 feet of cable, a towfish, and the top-side control unit. The control unit features high/low sensitivity switch (for pinpointing targets), and both meter and audio readouts to indicate the detection of metal objects. Options include 300 foot tow cable, UA-2 altimeter, and RS232 data output, 0-5 volt analog output, and the DDW-1 deep dive wing. The system is powered by two 12 volt batteries with a total power consumption of only 8 watts.

The Pulse 10 is in use by military units, law enforcement agencies, and commercial diving companies worldwide. Its low cost and large detection area make this detector an excellent choice for commercial operations, as well as recreational and professional treasure hunting.

Key Features of the Pulse 10: Commercial grade construction, large detection area, optional computer interface, and audio jack for headphones.



Pulse 12



Fisher's most powerful boat towed metal detector for ferrous and non-ferrous metals. With its 24 foot wide and 16 foot deep envelope this detector will locate a variety of targets including aluminum boats, brass propellers, outboard motors, steel anchors, bronze cannons, and gold bars. One of the key features of this detector is the control unit which can accept inputs from 3 search coils. Using three coils instead of one lets the search team cover three times the area with the same amount of time, fuel, and manpower.

The claim-to-fame of this pulse induction metal detector is its ability to ignore minerals in the environment while maintaining high sensitivity to all metal targets. The Pulse 12 is not affected by highly mineralized salt water, coral, high iron content rocks, or magnetic (black) sand, all of which cause erratic readings in conventional detectors. Also, the detection range is unaffected by the medium between the metal detector and the metal target. Performance does not change whether detecting through air, water, silt, sand, or solid coral.

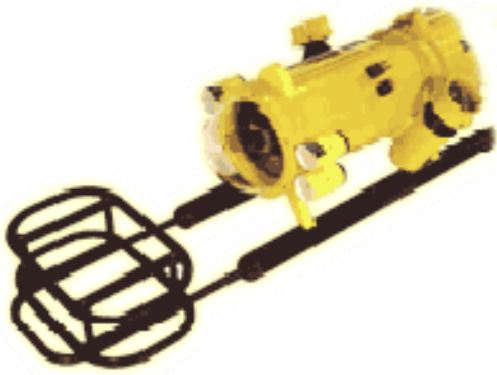
The Pulse 12 system includes a 24 by 36 inch search coil with 150 feet of cable, tow fish, and a top-side control unit. The control unit features three sets of operator controls which allow up to three coils to be towed simultaneously. Both meter and audio readouts indicate target detection from each individual coil. Options include cable lengths up to 500 feet, UA-2 altimeter, RS232 output interface, 0-5 volt analog output, and DDW-1 deep dive wing. The RS232 allows the Pulse 12 readout data along with GPS position coordinates to be displayed and stored on a computer. The system is powered by two 12 volt batteries with a total power consumption of only 12 watts.

The Pulse 12 is in use by military, law enforcement, commercial, and salvage divers worldwide. High sensitivity and a very large detection area make this detector an excellent choice for both commercial operations and professional treasure hunters.

Key Features of the Pulse 12: Commercial Grade Construction, ability to tow up to three coils for extra large detection area, optional computer interface, faster towing speeds than the Pulse 10 system, and audio jack for headphones.



RMD-1 Pulse Induction Metal Detector



A metal detector with high noise immunity that can be remotely operated. The RMD-1 is a high performance Pulse induction metal detector which can be attached to almost any ROV or towed underwater system as shown in the photo. Pulse induction technology allows the RMD-1 to detect both ferrous and non-ferrous metal object on or beneath the ocean floor while ignoring minerals in the seabed. The remote metal detector locates underwater pipelines, finds missing tools and dredge parts, locates weapons and unexploded ordnance, and finds lost treasure.

The system employs two coils molded into rugged ABS shells firmly attached to the underwater vehicle with a corrosion-proof tubular PVC frame. The frame provides a sturdy mount for the coils and positions them out in front of the ROV so as not to be affected by the ROV's metal parts. The oval coils produce a detection envelope which extends 3 to 5 feet into the bottom. The sleek, low profile coil design minimizes drag and weight on the ROV.

When the coil senses metal it sends a signal to the RMD-1 "downstairs electronics unit" attached to the underwater vehicle. The downstairs electronic unit processes the information and can produce RS232 output, 0-5 vdc output, or a proprietary signal used by the JWF topside control/readout unit. The output from the downstairs electronics unit can be transmitted through the ROV's umbilical or a separate cable. The ROV can power the downstairs electronics unit or power can be supplied from the surface through the umbilical cable.



The standard RMD-1 has a topside control box which displays the readout with both meter and audio alarm. The closer the proximity of the metal target, the stronger the reading. The topside unit can use the underwater vehicle's umbilical cable to supply voltage to the downstairs electronics unit and to receive the output signal from the downstairs unit. The RMD-1 can be powered from 120 vac (standard) or 220 vac, or 9-36 vdc.

Key Features of the RMD-1: The RMD-1 is easy to operate and readily attaches to most any underwater vehicle. Special coil sizes can be supplied.

Blackbirn-I



The **BIRNS Blackbirn-I**, Model 7701, is a complete underwater MPI/NDT system which detects oil leaks, cracks and weld defects in underwater steel structures. The Blackbirn-I saved the U.S. Navy \$180,000 on a single job! The complete system includes a powerful Model 7705 hand-held UV light with integral electronics; an integral BIRNS Snooperette™ 'white' light; a powerful Model 7703 BIRNS Articuleg™ articulating electromagnet; a 17F-036 150m power cable (on a 13C-002) steel take-up/pay-out cable reel), and a 13B-001 environmental carrying case. All underwater connectors are our heavy-duty MSG-3-CP connector for maximum durability. (Specify 120, 220 or 240 VAC when ordering.)

Features:

- Compact, Powerful Single-Diver MPI System
- Finds Cracks & Weld Defects Underwater
- Finds Oil Leaks Underwater





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Blackbirn-I Cont. Specifications

I. Physical

A. Dimensions

1. Height: 25.0 cm (9.9 inches)
2. Width: 17.3 cm (6.8 inches)
3. Length: 51.3 cm (20.2 inches)

B. Materials

- a. Housing and lens ring: Tempered cast type 357 aluminum, hard anodized per MIL-A-8625C type III class 1, housing vacuum impregnated per MIL-STD-276, enamel Painted
- b. Insert aluminum and support, Snooperette body and ring: Type 6061-T6 aluminum, hard black anodized per MIL-A-8625C type III class 2
- c. All hardware: Stainless steel type 18-8
- d. Switch shaft and receptacles: Stainless steel type 316, passivated per QQ-P-35
- e. UV Lens: Tempered type 1041 ultraviolet-filtered soda-lime glass
- f. O-rings and lens gaskets: Buna N (nitrile-NBR) acrylonitrile-butadiene
- g. Connector inserts: Glass-reinforced epoxy (GRE)
- h. Connector contacts: Pins: brass 360 per ASTM B16; sockets: heat-treated beryllium copper; both gold-plated per MIL-G-4204
- i. Snooperette lens; Tempered borosilicate glass
- j. Connector engaging nut: Naval brass type 464 per ASTM B21
- k. Cable: Type SO multi strand copper core, with styrene rubber (STR) primary insulation and black Aquaprene neoprene polychloroprene (CR) jacket

II. Electrical

- A. AC Supply Voltage: 115 +/- 15 VAC (standard); 240 VAC available on request
- B. Cable size: 14 AWG type SO, 3 conductor (standard)
- C. Cable current rating: 15 amperes maximum
- D. Cable voltage rating: 600 volts maximum

III. Lighting/Photometric

A. UV Lamp Details

1. Wattage: 100 watts
2. Lamp type: Mercury vapor PAR38 spot, admedium base
3. Spectral Peak: 360 nanometers
4. Output: 1,250 microwatt/cm² ultraviolet energy (min.)
5. Rated lamp lifetime: 16,000 hours

B. Snooperette Lamp Details

1. Voltage: 12 VAC/VDC
2. Wattage: 50 watts
3. Lamp type: Tungsten halogen with MR-16 dichroi multi mirror
4. Color Temperature: 3,050K
5. Output: 2,160 mean Candelas; 895 initial lumens
6. Rated lamp lifetime: 3,000 hours

Cygnus 1 Underwater Multiple Echo Ultrasonic Thickness Gauge

A tough, rugged Ultrasonic Thickness gauge using our Multiple-echo technology, designed for use by divers undertaking subsea surveys. The instrument is rated to a depth of 1,000 ft. (300 m). The Cygnus 1 Underwater is supplied ready to use as a complete kit in a protective carry case with 2 rechargeable batteries.

Features:

- Pressure rated to 1,000 ft. (300 m)
- Heavy duty sealed unit with double 'O' ring protection
- Remote probe with 3' (0.9 m) lead for measuring in awkward locations
- Rugged construction – shock proof
- Stable calibration n- linear accuracy – no zero adjustments
- Large bright LED display for use in poor visibility
- Self verification of the measurements to ensure accuracy
- Two rechargeable NiMH batteries
- Fixed head probe option for one handed use
- Displays sound velocity settings
- Echo strength indicator to aid measurement
- Low Battery warning
- Inch/Metric switchable
- Easy calibration using convenient buttons – **NEW FEATURE**
- "Deep-Coat" mode measuring through coatings up to 3/4" (20 mm) thick – **NEW FEATURE**
- Automatic probe recognition – **NEW FEATURE**



Kit Contents:

Instrument, heavy duty remote 2.25 MHz 1/2" (13 mm) probe, 2 rechargeable NiMH batteries and battery charger, spare membranes and 'O' rings, steel test block, lanyard, operation manual and Pelican carry case.

| Specifications: | |
|-----------------|--|
| Materials | Sound velocities between 0.059 to 0.31 in/microsec (2,000 m/s and 7,000 m/s) |
| Range in Steel | 0.110" - to 9.995" (3mm– 350mm) with 2.25 MHz probe 0.065" - to 9.995" (2mm - 150mm) with 3.5 MHz probe 0.045" – to 9.995" (1mm - 50mm) with 5.0 MHz probe |
| Accuracy | +/- 0.005" (0.1mm) OR +/- 0.002" (0.005mm) |
| Resolution | 0.005" (0.1mm) or 0.002" (0.005mm) |
| Probes | Remote single crystal soft faced compression 1/2" standard (13mm) – 2.25 MHz 3/4" (19mm) – 2.25 MHz |
| Power | 2 rechargeable NiMH batteries |
| Display | Red LED on black background with 3/8" digits |
| Size | 8 3/8" x 3" (238 x 85 mm) |
| Weight | 20.0 oz (700g) |
| Compliance | CE, RoHS, BS EN 15317 WEEE compliant |



THREE YEAR WARRANTY

Cygnus 2 Hands Free Multiple Echo Ultrasonic Thickness Gauge

The new Cygnus 2 is the smallest, lightest and most durable through coating thickness gauge available. Designed for use in rope access or belt mounted applications where the end-mounted LED display can be easily read whilst taking measurements. The Cygnus 2 is supplied ready to use as a complete kit in a protective carry case.

Features:

- Hands free operation: Belt/Harness clip and Neck Strap included
- Light, rugged, small, shock-proof within IP65 sealed aluminum enclosure
- Protective silicone sleeve offers maximum protection and versatility
- Simple keypad operation
- All measurements are error checked using 3 return echoes to give repeatable, reliable results
- Gauge senses probe type and automatically adjusts settings for optimum performance
- Accepted by all major classification societies
- Single crystal probe to ensure accurate measurements on curved and heavily corroded back walls
- Echo strength indicator to aid measurement
- Calibration to a known thickness or a known velocity of sound
- Display brightness automatically adjusts to suit ambient light conditions
- Low battery warning
- Metric/Imperial switchable



Kit Contents:

Instrument, 2.25 MHz x 13 mm diameter probe, spare membranes, 15 mm steel test block, membrane couplant, ultrasonic couplant, accessory pouch, protective silicone sleeve with belt/harness clip, neck strap, operation manual and carry case.

3 YEAR WARRANTY





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Cygnus 2 Hands Free Multiple Echo Ultrasonic Thickness Gauge

| Specifications | |
|-----------------------|---|
| Materials | Sound velocities between 3000 m/s and 7000 m/s |
| Range | 3 mm – 250 mm with 2.25 MHz probe 2 mm – 150 mm with 3.5 MHz probe 1 mm – 50 mm with 5 MHz probe |
| Accuracy | 0.005 mm (0.002") |
| Resolution | 0.05 mm (0.002") or 0.1 mm (0.005") Selectable |
| Probes | Single crystal soft-face compression 6 mm – 5 MHz 13 mm – 2.25, 3.5 or 5 MHz 19 mm – 2.25 MHz |
| Power | 2 x 'AA' alkaline batteries or rechargeable NiMH / NiCD |
| Display | Large red LED display with polarized filter. Brightness automatically adjusted to for bright light conditions. |
| Weight | 275 g (9.7 oz) Including Batteries |
| Size | 85 mm x 115 mm x 25 mm (3.3" x 4.5" x 1.0") |
| Ambient Temperature | -10 °C to +50 °C (14 °F to 122 °F) |
| Compliance | CE, British Standard BS EN 15317: 2007, RoHS, WEEE |

Applications:

- Metal thickness monitoring on cranes, marine structures and conveying systems
- Corrosion checks on ships' shell plates, bulkheads and structures
- Metal thickness safety checks on steam and pressurized water systems, transportable gas containers and compressed air systems
- Systematic wall thickness and corrosion monitoring of storage tanks and process vessels
- Quality assurance metal thickness checks
- Maintenance and safety checks on bridges and street lighting columns
- Pipeline wall thickness monitoring

Cygnus 3 Datalogger

Multiple Echo Ultrasonic Thickness Gauge

The Cygnus 3 Datalogger is versatile and easy to program with simple menu operation. Templates provide solutions to recording various geometries such as tanks, cylinders, pipes and plant.

- Single Point for Linear Records
- Multipoint for N-Readings per Point Records
- Grid Point for 2-Dimensional X-Y Records
- Key Point for Specifying Ranges of Readings with Alarms for Complex Structures

Windows Explorer style menu with measurements logged with one simple key press. The unit interfaces with a PC using our dedicated software which is Windows® compatible. The Cygnus 3 gauge has storage for up to 300,000 measurements.

Features:

- Can be carried on the waist belt for ease of climbing
- Highly water / dirt / dust resistant
- Rugged construction – shock proof
- Stable calibration – linear accuracy – no zero adjustment
- Self verification of the measurements to ensure accuracy
- Various probe options
- Echo strength displayed to aid measurement
- Dual display: Bright LED & graphical LCD displays
- Probe protected by a membrane against wear and tear
- Metric / Imperial switchable



Kit Contents:

Instrument, remote 2.25 MHz 13 mm diameter probe, spare membranes, steel test block, couplant, leather case with strap, accessory pouch, dedicated Windows® software on CD, RS232 interface cable, operation manual and carry case.

3 YEAR WARRANTY





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Cygnus 3 Datalogger Multiple Echo Ultrasonic Thickness Gauge

| Specifications: | |
|------------------------|--|
| Materials | Sound velocities between 1000 m/s and 9995 m/s |
| Range | 3 mm – 250 mm with 2.25 MHz probe 2 mm – 150 mm with 3.5 MHz probe 1 mm – 50 mm with 5 MHz probe |
| Accuracy | ± 0.1 mm OR ± 0.05 mm |
| Resolution | 0.1 mm OR 0.05 mm |
| Probes | Remote single crystal soft-faced compression 6mm: 5 MHz 13mm: 2.25, 3.5 or 5 MHz 19mm: 2.25 MHz |
| Power | 3 x AA alkaline batteries |
| Display | Backlit LCD graphical display and large clear LED display with polarized filter |
| Weight | 369 g |
| Size | 188mm x 86mm x 40mm |
| Ambient Temperature | 0 °C to +50 °C |

Applications:

- Metal thickness monitoring on cranes, marine structures and conveying systems
- Corrosion checks on ships' shell plates, bulkheads and structures
- Metal thickness safety checks on steam and pressurized water systems, transportable gas containers and compressed air systems
- Systematic wall thickness and corrosion monitoring of storage tanks, process vessels and road tankers
- Quality assurance metal thickness checks
- Maintenance and safety checks on bridges and street lighting columns
- Pipeline wall thickness monitoring in-situ

Cygnus 4 General Purpose Multiple Echo Ultrasonic Thickness Gauge

A compact general purpose Ultrasonic Thickness gauge gives accurate, error-checked, through-coating measurements using our Multiple Echo technology. High versatile for use in most hand-held industrial or shipping applications. The LCD display is easily read outdoors and perfect for use in all light conditions, with automatic white back light control. Menu-driven operation and “Deep-Coat” mode allow easy thickness gauging through coatings up to 20 mm. Cygnus 4, supplied in an IP65 rated/sealed aluminum enclosure, protective silicon sleeve and optional belt/harness clip is extremely light, tough and simple to use.

Features:

- Light, rugged, small and shock-proof within IP65 sealed aluminum enclosure
- Gauge senses probe type and automatically adjusts settings for optimum performance
- Valid thickness measurements and minimum thickness function
- LCD Graphic Display with automatic white black light
- Cygnus Echo-Strength bars assist thickness measurements
- Simple gauge and menu operation with 3 tactile keys
- Protective silicone sleeve offers maximum protection and versatility
- Secure, Twist-to-lock probe connection (BNC)
- Deep-coat mode for coatings up to 20mm thick
- Display Free function for easy measurement verification and logging



Kit Contents:

Instrument, 2.25 MHz x 13 mm diameter probe, spare membranes, 15 mm steel test block, membrane couplant, ultrasonic couplant, accessory pouch, protective silicone sleeve with neck strap, operation manual, carry case and optional belt/harness clip.

3 YEAR WARRANTY





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Cygnus 4 General Purpose Multiple Echo Ultrasonic Thickness Gauge

| Specifications | |
|--------------------------|---|
| Materials | Sound velocities between 2000 m/s and 7000 m/s – covers virtually all common engineering materials |
| Range in Steel | 3 mm – 250 mm with 2.25 MHz probe 2 mm – 150 mm with 3.5 MHz probe 1 mm – 50 mm with 5 MHz probe |
| Accuracy | ± 0.1 mm OR ± 0.05 mm (selectable) |
| Resolution | 0.1 mm OR 0.05 mm (selectable) |
| Probes | Remote single crystal soft-faced compression 6 mm: 5 MHz 13 mm: 2.25, 3.5 or 5 MHz 19 mm: 2.25MHz (Lower frequency probes offer better penetration on heavy corrosion/coatings) |
| Power | 2 x AA alkaline batteries or rechargeable NiMH/NiCD |
| Battery Life | 30 hours continuous operation with alkaline batteries (backlight on) |
| Display | Large liquid crystal display with white backlight automatically turns off in bright light conditions |
| Size | 85 mm x 115 mm x 25 mm |
| Weight | 275 g (including batteries) |
| Operation Temperature | 0 °C to +50 °C |
| Environmental Protection | IP65 |
| Compliance | CE, British Standard BS EN 15317: 2007 (Specification for the characterization and verification of ultrasonic thickness measuring equipment) |
| Environmental | RoHS, WEEE compliant |

Applications:

- Metal thickness monitoring on cranes, marine structures and conveying systems.
- Corrosion checks on ships' shell plates, bulkheads and structures
- Metal thickness safety checks on steam and pressurized water systems, transportable gas containers and compressed air systems.
- Systematic wall thickness and corrosion monitoring of storage tanks, process vessels and road tankers.
- Quality assurance metal thickness checks.
- Maintenance and safety checks on bridges and street lighting columns.

Cygnus ROV Mountable Multiple Echo Ultrasonic Thickness Gauge



Cygnus Instruments offers three versions of the ROV Mountable using the Multiple-Echo technology, designed for undertaking subsea surveys. The Deepwater is rated to 10,000 ft (3,000 m); the Shallow water is rated to 3,000 ft (1,000 m) and the Mini is rated to 1,500 ft (500 m). These units have been designed to be mounted on most types of Work Class ROV's using a manipulator facility or mounted on small inspection ROV's with or without a manipulator facility.



DEEPWATER
10,000' (3,000 m)



SHALLOW WATER
3,000' (1,00 m)



MINI ROV
1,500' (500 m)

Features:

- Three models available:
 - Deepwater pressure tested to 10,000' (3,000 m)
 - Shallow Water pressure tested to 3,000' (1,000 m)
 - Mini Pressure tested to 1,500' (500 m)
- 16' (5 m) of probe cable for routing around most Work Class ROV's with the Deepwater and Shallow water units
- 1' (0.3 m) of probe cable for the Mini
- Power supply normally taken from the ROV or one twisted pair
- Only one twisted pair is required to transfer the data to the surface
- The probe does not need to touch the surface under test, as measurements can be taken through 3/16" (5 mm) of water
- Stable calibration – linear accuracy – no zero adjustments
- Dedicated software for displaying the measured results, storing the measurements, printing 8 1/2" x 11" meaningful reports and setting the calibration of the gauge.
- Self verification of the measurements to ensure accuracy
- Echo strength indicator to aid measuring
- Inch/Metric switchable

Cygnus ROV Mountable Cont.



Optional Probe Holder

Cygnus Instruments offer a dedicated probe holder to be held by a manipulator arm or to be mounted aboard the ROV. The holder is spring loaded to help in aligning the probe and protecting the probe from excessive force exerted by a manipulator arm.



Kit Contents:

Instrument, heavy duty remote 2.25 MHz ½" (13 mm) probe with 16' or 1' cable, sealed 4-way connector with fly lead, test cable, RS422 to RS232 converter, datalogging software (Windows® compatible), spare membranes & 'O' rings, test block, operation manual, and carrying case.

THREE YEAR WARRANTY

Applications:

- Metal thickness and corrosion checks on ships, pipelines, and wrecks
- Metal thickness/wear checks on jetties, dock and dam gates, piers and pilings
- Ships classification surveys
- Maintenance and safety checks on bridges
- Metal thickness and corrosion checks on offshore platform legs, risers and piping



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Cygnus ROV Mountable Cont.

| Specifications | |
|-----------------------|--|
| Materials | Sound velocities between 0.059 to 0.31 in/microsec (2,000 m/s and 7,000 m/s) |
| Range | 0.110"- to 9.995" (3mm-250mm) with 2.25 MHz probe 0.065"- to 9.995" (2mm-150mm) with 3.5 MHz probe 0.045"- to 9.995" (1mm-50mm) with 5.0 MHz probe |
| Accuracy | +/- 0.005" (0.1mm) or +/- 0.002" (0.005mm) |
| Resolution | 0.005" (0.1mm) or 0.002" (0.05mm) |
| Probes | Remote single crystal soft-faced compression. 1/2" (13mm) 2.25 MHz probe 1/4" (19mm) 2.25 MHz probe |
| Power | |
| Display | Displayed on PC/Laptop screen |
| Size | Cygnus Deep and Shallow Water ROV 2 3/4" x 9" (70 x 236 mm) Cygnus Mini ROV 2 3/4" x 5 1/2" (66 x 142 mm) |
| Weight | Deepwater ROV – 8 3/4 lbs (4 Kg) Shallow Water ROV – 2 3/4 lbs (1.25 Kg) Mini ROV – 20.9 oz (.6 Kg) |
| Communications | Standard RS-422 |
| Cabling Requirements | One twisted pair for RS-422 communications to surface One twisted pair for D.C> power to electronics pod |
| Surface Requirements | Computer: 386 minimum with VGA screen and one free serial comms port |
| Software | Requires: Windows® Ver. (Win 3.1, 3.11, Win 95, Win 2007, Win XP Professional, Vista) |
| Depth Rating | Deepwater ROV – 10,000' (3,000m) Shallow Water – 3,000' (1,000m) Mini ROV – 1,600' (500m) |
| Weight in Air | 550g |
| Size | 237 mm x 70 mm |
| Operating Temperature | -10°C to +50°C |
| Communication | Standard RS-422 |



TEST POT

AAI is now offering testing services with its newly refurbished multi-functional test pot.

Capable of testing products with the following parameters:

- Max test pressure: 1515 psia/103atma/3368fsw
- Volume: 36 cuft
- Max object size: 34" diameter x 72" high

26-2300 Series Sensitive/Back Pressure Regulator

26-2300 Series Regulators - Relief / Backpressure

D26230694X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

0-50, 0-150, 0-250 psig / 0-3.4, 0-10.3, 0-17.2 bar

Design Proof Pressure

150% maximum rated

Leakage

Bubble-tight

Operating Temperature¹

-40°F to 165°F / -40°C to 74°C

Flow Capacity

C_v = 0.60

Maximum Operating Torque

25 in-lbs / 2.8 N•m

¹ For extended temperatures from -40°F to 400°F / -40°C to 204°C, please consult TESCOM.

MEDIA CONTACT MATERIALS

Body

303 Stainless Steel, 316 Stainless Steel, or Aluminum 2024-T351

Diaphragm

Buna-N

Main Valve Seat

Teflon®

O-Rings

Buna-N

Seals

Teflon®

Remaining Parts

300 Series Stainless Steel

OTHER

Cleaning

CGA 4.1 and ASTM G93

Weight

Stainless Model: 2.25 lbs / 1.0 kg

Aluminum Model: 1.25 lbs / 0.6 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.



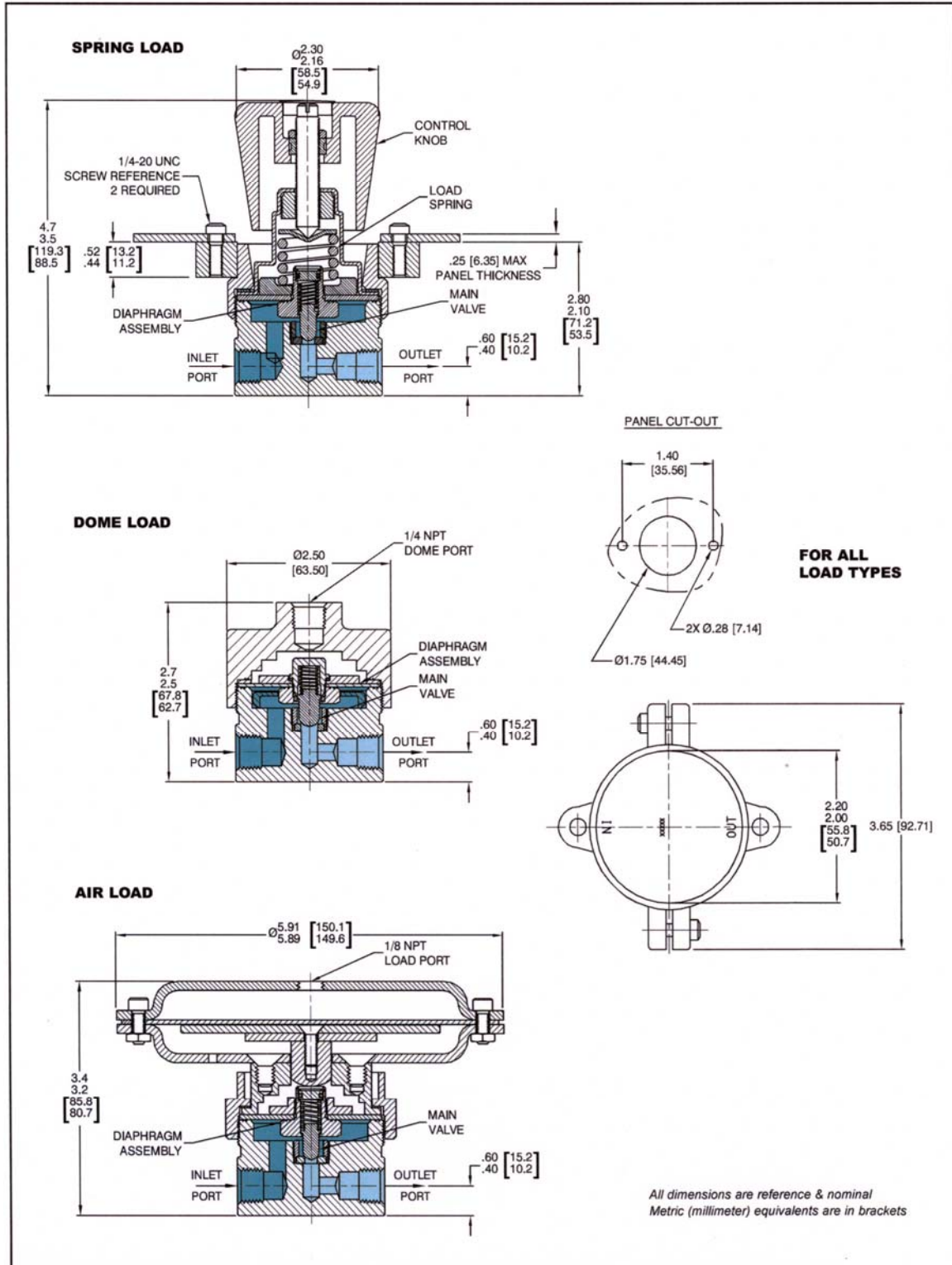
TESCOM 26-2300 Series is a highly accurate, diaphragm sensed backpressure regulator. It controls pressures up to 500 psig / 34.5 bar and offers many C_vs from 0.02 up to 1.0. Air and dome loaded versions are available for remote operation or for use with the TESCOM ER5000 Electropneumatic Controller for automation.

Applications

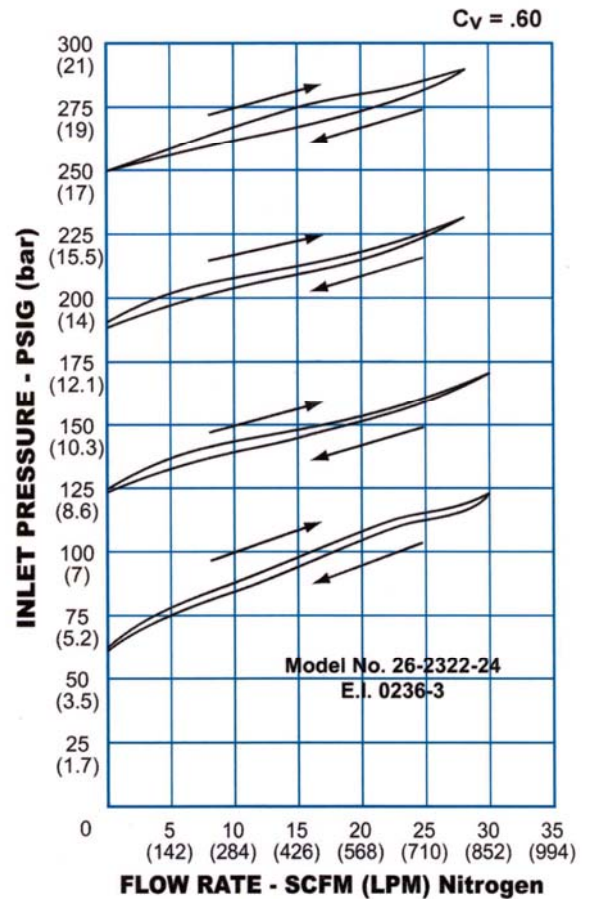
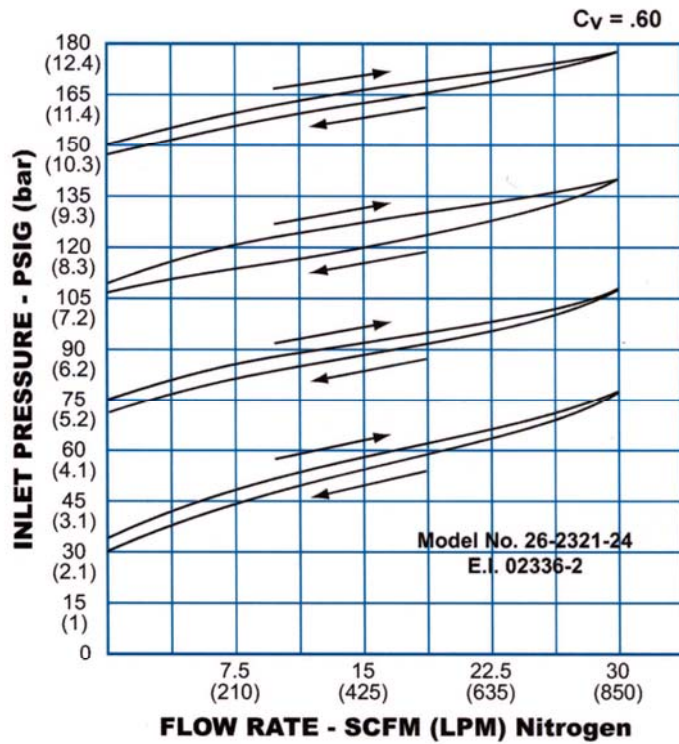
- Hydraulic or pneumatic testing
- Calibration
- Pump discharge pressure control

Features and Benefits

- Crack to reseal - 2% of set pressure
- Easily adjusted, low torque handknob control
- Bubble-tight shutoff at all reseal pressures
- Four flow capacities available:
C_v = 0.60 standard
C_v = 0.06, 0.12, 1.0 optional
- Spring, dome, and air loaded models are available
- Panel mounting is standard
- Compatible with TESCOM ER5000 Electropneumatic Controller



Flow Charts



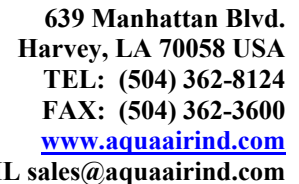
Part Number Selector

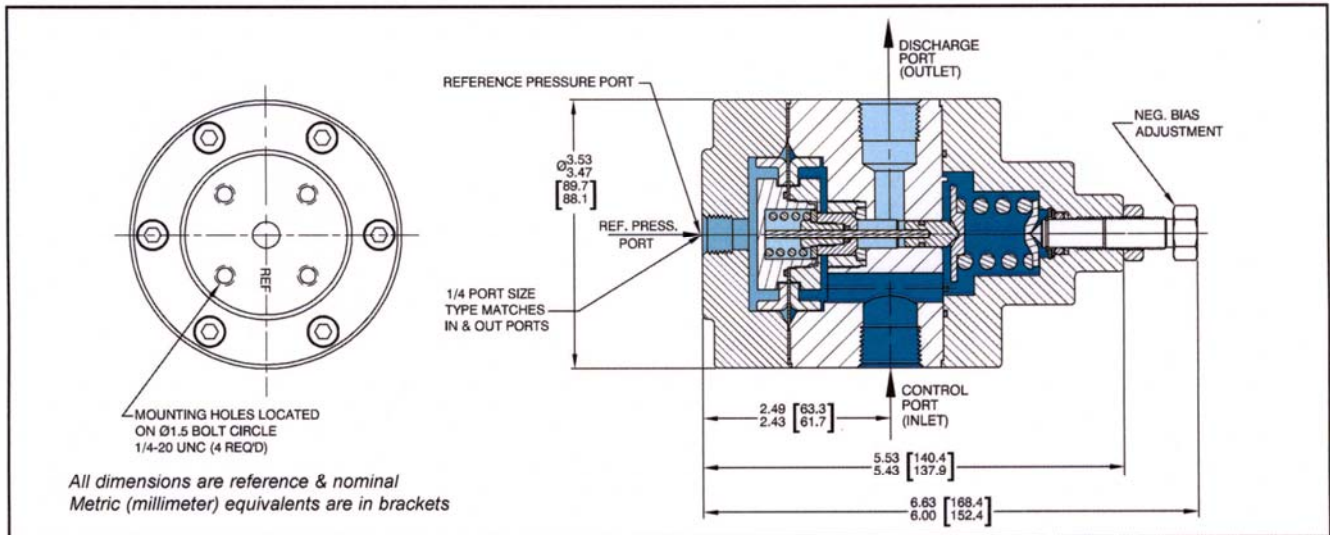
example part number:

26-23 2 1 - 2 4

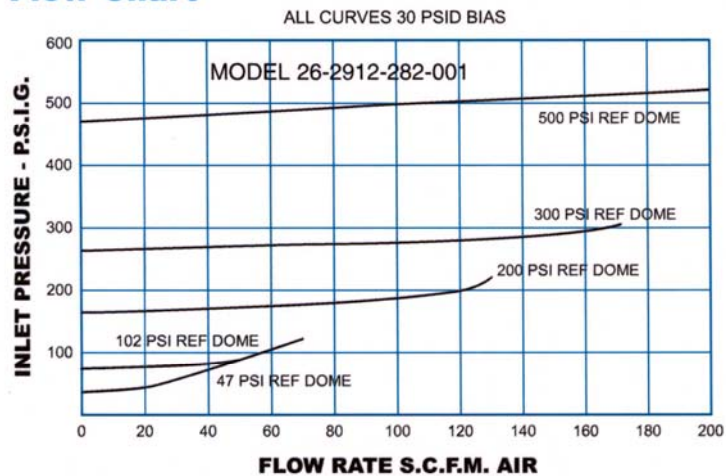
| BASIC SERIES | BODY MATERIAL | CONTROL PRESSURE RANGE | INLET & OUTLET PORT TYPE | INLET & OUTLET PORT SIZE |
|--------------|--------------------------------|------------------------------------|--------------------------|---------------------------|
| 26-23 | 2 - 303 Stainless Steel | 0 - 0-50 PSIG (0-3.5 bar) | 1 - SAE | 4 - 1/4" (.64 cm) |
| | 3 - 2024-T351 Aluminum | 1 - 0-150 PSIG (0-10.3 bar) | 2 - NPT | 6 - 3/8" (.95 cm) |
| | 6 - 316 Stainless Steel | 2 - 0-250 PSIG (0-17 bar) | 3 - MS33649 | 8 - 1/2" (1.27 cm) |

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCO for more information.

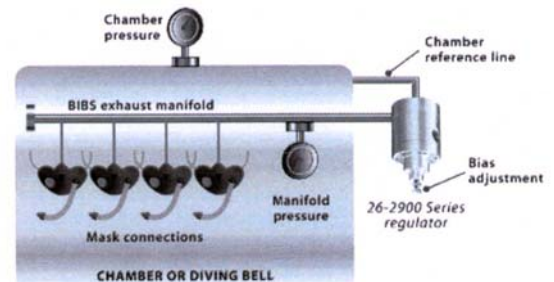




Flow Chart



Typical Installations



- Dumping exhaled breath out of a pressure chamber (BIBS)
- Constant bias applications such as offshore diving apparatus

Part Number Selector

example part number:

26-29 1 2 - 2 8 2 A

| BASIC SERIES | BODY MATERIAL | BIAS PRESSURE RANGE | INLET & OUTLET PORT TYPE | INLET & OUTLET PORT SIZE | BIAS MODE | FLOW CAPACITY |
|--------------|---|--|--|--------------------------|---------------------|----------------------|
| 26-29 | 1 - Brass 2 - 303 Series Stainless Steel | 0 - Zero bias 1 - 0-15 PSIG 2 - 0-30 PSIG Inlet pressures 0-500 PSIG 0-25 PSIG Inlet pressures 500-1000 PSIG | 1 - SAE 2 - NPT 3 - MS33649 9 - BSP | 8 - 1/2" | 2 - Negative | A - $C_v=2.0$ |

44-1100 High Pressure/Pressure Reducing Regulator

Specifications

❑ Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3
maximum rated inlet pressure:
stainless steel 10,000 PSIG
brass 6,000 PSIG
outlet pressure ranges 0-500, 0-800, 10-1500,
15-2500, 25-4000, 50-6000 PSIG
design proof pressure. . . . 150% of maximum rated inlet
leakage bubble-tight
operating temperature -40° F to +165° F
(-40° C to +75° C)
flow capacity $C_v = .06$
maximum operating torque 35 in.-lb. (3.95 Nm)

❑ Media Contact Materials

body brass, 303 or 316 Stainless Steel
filter: brass body 40 Micron (nominal) - bronze
SST body 15 Micron (nominal) - 316 SST
main valve seat Vespel®
vent valve seat CTFE
seals Buna-N
back-up rings PTFE
remaining parts 300 Series Stainless Steel

For other materials and modifications, please consult TESCOM.

❑ Cleaning CGA 4.1 and ASTM G93

❑ Weight 4.75 lbs. (2.15 kg)

Pressure Conversion 14.5 PSIG = 1 bar 145 PSIG = 1 MPa

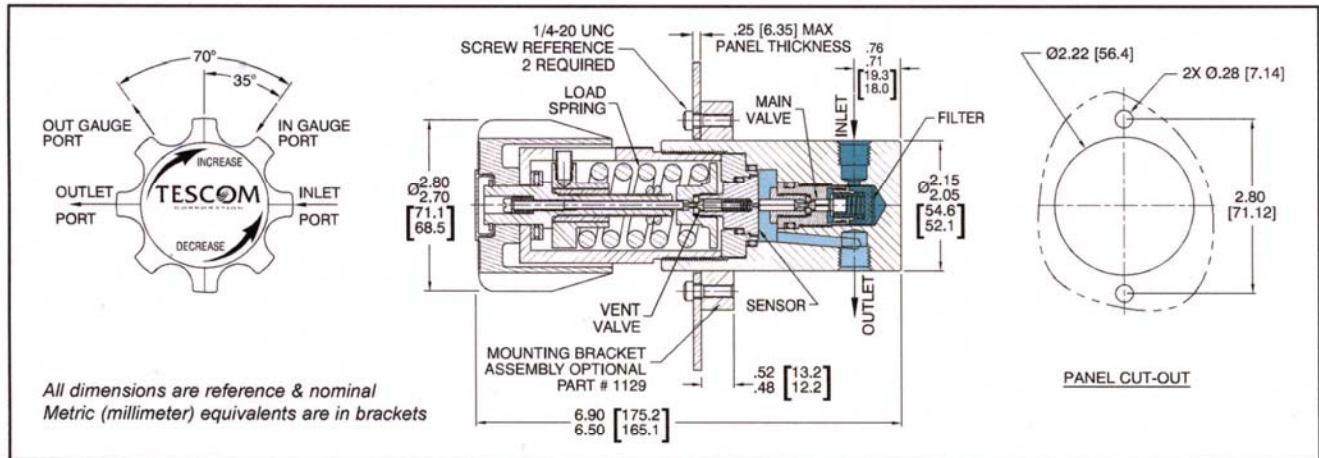
Vespel® is registered trademark of DuPont.



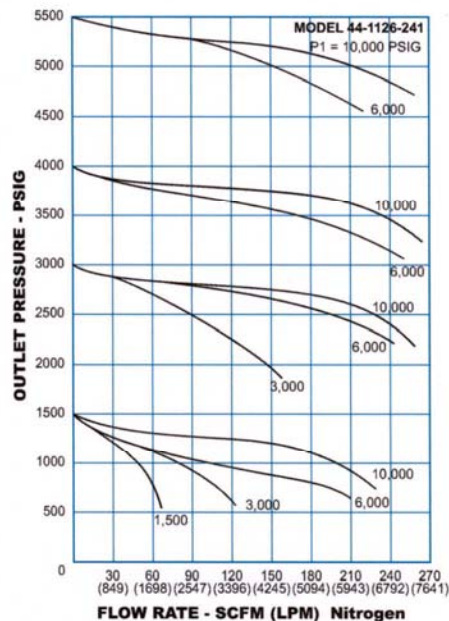
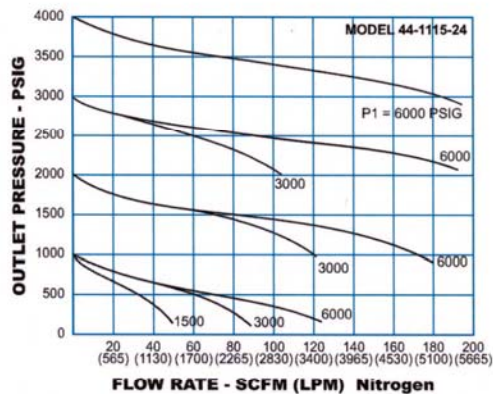
Advantages

- Removable valve assembly module permits easy repair
- Excellent sensitivity through a wide range of pressure settings
- Extra safety and reliability of piston style sensor
- Unbalanced stem assists positive shut-off
- Inlet & outlet gauge ports standard
- Available in brass or Stainless Steel
- Regulator vents to zero PSIG in all pressure ranges
- Numerous modifications available

44-1100 Series High Pressure



Flow Charts



Part Number Selector

example part number:

44-11 1 1 - 2 4 [BLANK]

| BASIC SERIES | BODY MATERIAL | OUTLET PRESSURE RANGE | PORT TYPE | PORT SIZE | OPTIONS |
|--------------|--|--|-----------|-----------|--|
| 44-11 | 1 - Brass (6000 max. inlet) 2 - 303 Stainless Steel (10,000 max. inlet) 6 - 316 Stainless Steel (10,000 max. inlet) | 1 - 0-500 PSIG 2 - 0-800 PSIG 3 - 10-1500 PSIG 4 - 15-2500 PSIG 5 - 25-4000 PSIG 6 - 50-6000 PSIG | 2 - NPT | 4 - 1/4" | [BLANK] - None - 001 - Non-Venting, Viton® O-Rings - 002 - Non-Venting, Filter Removed - 150 - Urethane O-Rings (CO ₂ Service) |

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

44-1300 Series High Flow/High Pressure Regulator

Specifications

□ Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3
maximum operating pressure:

stainless steel body 4,500 PSIG
brass body 3,750 PSIG
outlet pressure ranges 0-300, 0-600,
0-1000 & 0-1500 PSIG

design proof pressure . . . 150% of rated pressure

leakage bubble-tight

operating temperature¹ -15° F to +220° F
(-25° C to +104° C)

flow capacity:²

1/4" main valve C_v = 0.8

3/8" main valve C_v = 2.0

¹ For extended temperatures from -65°F to +400°F, consult Tescom.

² A secondary pressure drop due to the outlet cross-hole can significantly affect the rated flow capacity. Flow curves should be used for critical sizing applications.

□ Media Contact Materials

body brass, 303 or 316 Stainless Steel

seat, main valve:

300 PSIG outlet Teflon®

600, 1000 & 1500 outlet CTFE

seat, vent valve:

300 & 600 PSIG outlet Teflon®

1000 & 1500 PSIG outlet CTFE

o-rings Viton-A®

back-up rings Teflon®

gaskets CTFE

remaining parts 300 Series Stainless Steel,

17-4, 17-7 Stainless Steel, Teflon® & Brass

For other materials and modifications, please consult Tescom.

□ Cleaning CGA 4.1 and ASTM G93

□ Weight (without gauges) 6.25 lbs. (2.83 kg)

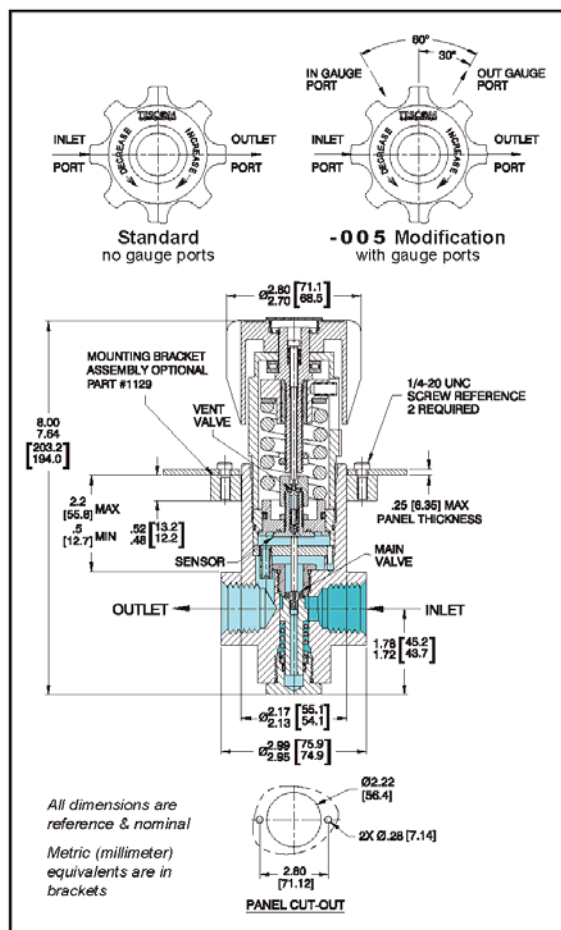
Pressure Conversion 14.5 PSIG = 1 bar 145 PSIG = 1 MPa



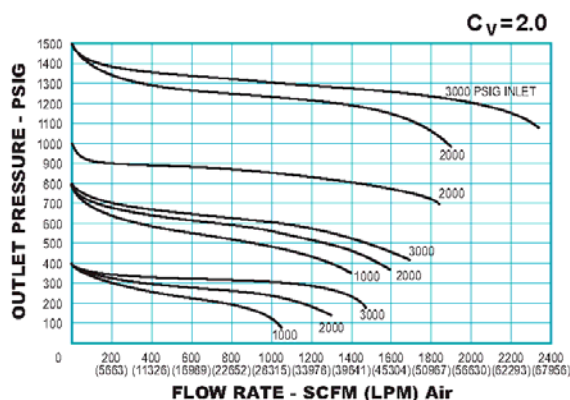
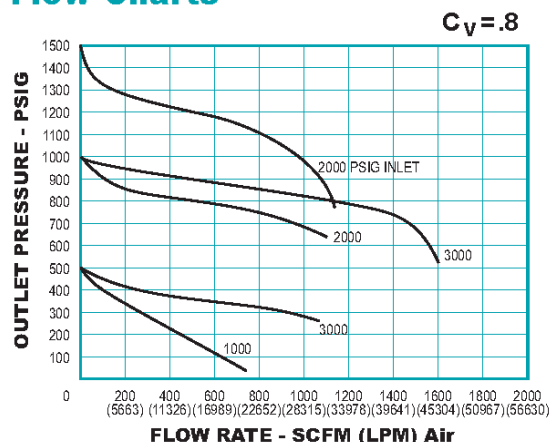
Advantages

- Large piston sensor gives excellent sensitivity
- Balanced valve design assures stable downstream pressure
- Large handknob provides fast low-torque pressure settings
- Self-venting standard
- Available with gauge ports
- Dome and Air loaded models available (non-venting only)
- Optional 6000 or 5000 PSIG inlet with 2500 PSIG outlet

44-1300 Series High Flow/High Pressure Regulator



Flow Charts



OPTIONS

- **056** Modification - 6000 or 5000 PSIG inlet pressure with 2500 PSIG outlet pressure
- **002** Modification - Non-venting, no gauge ports
- **019** Modification - Non-venting with gauge ports

Part Number Selector

example part number:

44-13 1 3 - 2 08 1

| BASIC SERIES | BODY MATERIAL | INLET PRESSURE | OUTLET PRESSURE RANGE | PORT TYPE | PORT SIZE | MAIN VALVE |
|--------------|--------------------------------|----------------|------------------------|--------------------|------------------|--------------------------------------|
| 44-13 | 1 - Brass | 3750 PSIG | 2 - 0-300 PSIG | 1 - SAE | 08 - 1/2" | 1 - 1/4" C _v = 0.8 |
| | 2 - 303 Stainless Steel | 4500 PSIG | 3 - 0-600 PSIG | 2 - NPT | 12 - 3/4" | 2 - 3/8" C _v = 2.0 |
| | 6 - 316 Stainless Steel | 4500 PSIG | 5 - 0-1000 PSIG | 3 - MS33649 | | |
| | | | 6 - 0-1500 PSIG | 9 - BSP | | |

44-2040 Series Hand Loader Pressure Regulator

- * High Purity
- * Welded Diaphragm
- * Corrosion Resistant



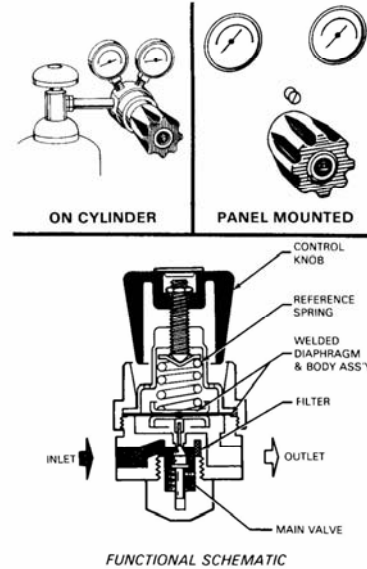
This small, accurate regulator is designed to prevent contamination of systems where high purity must be maintained. All parts exposed to the flowing media are constructed of stainless steel, KEL-F or teflon. The stainless steel diaphragm is welded to the regulator body to insure absolute minimum inboard and outboard leakage. The 44-2040 series design has been tested by an independent laboratory and found to have a leakage rate of less than 2×10^{-10} atmospheric cc per second of helium or 6.2 cc per thousand years.

Primary pressures up to 6000 PSIG can be reduced and regulated to secondary pressures of 0-50 PSIG, 0-150 PSIG and 0-250 PSIG.

- * Inboard leakage rate is less than 2×10^{-10} cc / sec. of helium
- * Repeatability: $\pm 1/2\%$ of outlet pressure range
- * Accuracy: $\pm 1\%$ of outlet pressure range
- * Welded stainless steel diaphragm
- * Long service life
- * 20-Micron filter increases operating life and reduces seat failure
- * Finger tip control for ease of pressure settings
- * Supplied with gauge ports
- * Supplied with panel mounting bracket

Typical Applications:

- * Gas Sampling Systems
- * Doping Modules
- * Regulating Rare Gases
- * Diffusion Furnaces
- * Crystal Growing
- * Chromatography
- * Research Labs



Specifications:

FLUID MEDIA — All gases and liquids, corrosive and non-corrosive, requiring high purity regulation.

Maximum rated inlet pressure.....3000 psig

Outlet pressure ranges.....0-50, 0-150, 0-250 psig

Proof pressure.....150% maximum operating

Burst pressure.....400% maximum operating

Materials.....Body — 304 Stainless Steel

Bonnet — Nickel Plated Brass

20 Micron Filter — 300 Stainless Steel

Seats — Teflon

Seals — Teflon

Diaphragm — 316 Stainless Steel

Trim — 300 Series Stainless Steel

Stem — 304 Stainless Steel, Teflon Coated

Flow Capacity.....Gases — .04 SCFM / PSIG inlet pressure

Liquids — $C_v = .08$ GPM

Operating Temperature.....Ambient — -65° to 220° F

Media — -65° to 400° F

Leakage rate (inboard).....Less than 2×10^{-10} cc / sec. Helium

Weight (w / o gauges).....3 lbs

Ports.....1/8" and 1/4" NPT inlet and outlet and 1/4" NPT gauge port(s)

Maximum operating torque.....20 in / lbs

Ordering Information

| Part # | Outlet Range | Description |
|----------------|--------------|--|
| 44-2040-22-003 | 0-50 psig | All have welded diaphragm; 1/8" NPT inlet and outlet ports, and one 1/4" outlet gauge port |
| 44-2041-22-003 | 0-150 psig | |
| 44-2042-22-003 | 0-250 psig | |
| 44-2040-24-004 | 0-50 psig | All have welded diaphragm; 1/4" NPT inlet and outlet ports; and two 1/4" gauge ports. |
| 44-2041-24-004 | 0-150 psig | |
| 44-2042-24-004 | 0-250 psig | |

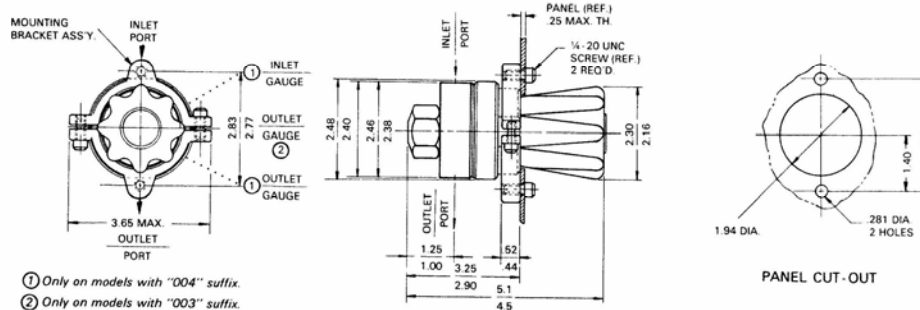
Equipment ordered for oxygen service will be supplied with oxygen compatible materials. AAJ has the capability of in-house cleaning (when requested) which is sufficient for oxygen service applications to 3000 psig. For applications over 3000 psig oxygen service, the user is responsible for the level of cleanliness. This service, through a contractor, can be supplied.

Accessories

(Optional at Extra Cost)

Soft spares kit (all models).....389-1364

Standard repair kit (all models).....389-1453



44-2200 Metal Diaphragm Sensed Regulator

Specifications

Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3
maximum rated inlet pressure . . . 400, 3500 PSIG
(27, 241 bar)
outlet pressure ranges . . . 0-25, 0-50, 0-100, 0-250 &
0-500 PSIG (0-1.7, 0-3.5, 0-7, 0-17, 0-35)
design proof pressure 150% maximum
rated pressure
leakage internal: bubble-tight
external: design to meet $\leq 2 \times 10^{-8}$ atm cc/sec He
operating temperature -15° F to +165° F
(-26° C to +74° C)
flow capacity:
3500 PSIG inlet $C_v = .06$
400 PSIG inlet $C_v = .15$
maximum operating torque . . . 30 in.-lbs. (3.4 Nm)

Media Contact Materials

body . . . 316L SST, Brass, Hastelloy-C® or Monel
bonnet 300 Series Stainless Steel, Brass
diaphragm 316 SST, Elgiloy®
seat Teflon®
remaining parts 316 SST/Brass,
Hastelloy® or Monel

For other materials and modifications, please consult TESCO.

Cleaning CGA 4.1 and ASTM G93

Weight (without gauges) 2.0 lbs. (.9 kg)

Pressure Conversion 14.2 PSIG = 1 kg/cm² 145 PSIG = 1 MPa

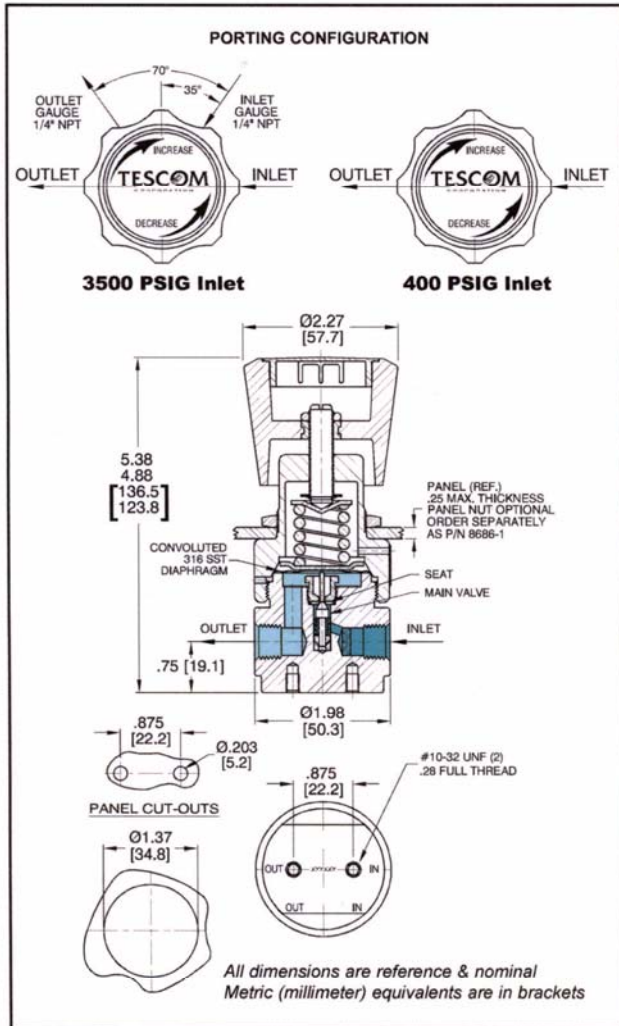
Teflon® is a registered trademark of DuPont.
Hastelloy® is a registered trademark of Haynes International, Inc.
Elgiloy® is a registered trademark of Elgiloy Specialty Metals.



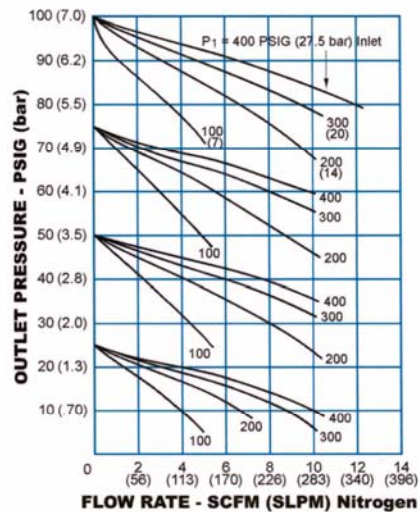
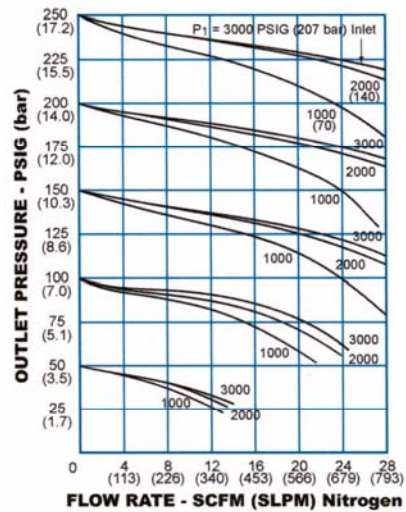
Advantages

- Compact in size
- Designed to reduce contamination and provide accurate regulation of any corrosive, non-corrosive or toxic gas
- Brass model provides added economy for control of non-corrosive media
- Metal to metal diaphragm to body seal assures minimum inboard and outboard leakage
- Convuluted diaphragm gives excellent accuracy and long life
- Panel mounting available
- 300 Series Stainless Steel or brass bonnet

44-2200 Series Metal Diaphragm Sensed/Economical



Flow Charts



| MODIFICATIONS | |
|---------------|--|
| - 010 | Outlet gauge port at 90° |
| - 115 | High temperature (400°F) |
| - 118 | Hydraulic service outlet gauge port at 90° |

Part Number Selector

example part number:

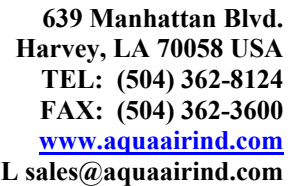
44-22 6 0 - 2 4 1

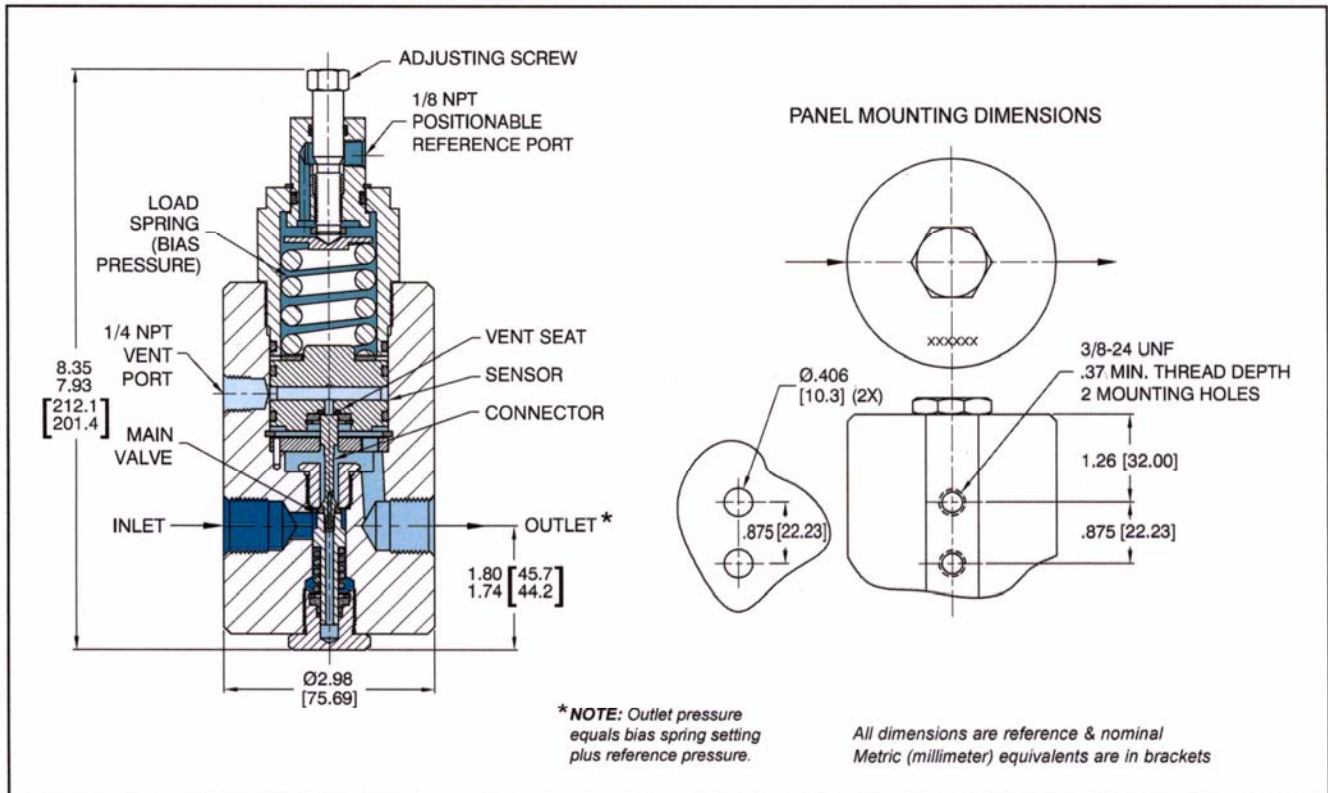
| BASIC SERIES | BODY MATERIAL | OUTLET PRESSURE RANGES | IN & OUT PORT TYPE | IN & OUT PORT SIZE | INLET PRESSURE | FLOW CAPACITY |
|--------------|------------------|---|--------------------|--------------------|---------------------------|---------------|
| 44-22 | 1 - Brass | 0 - 0-25 PSIG (0-1.7 bar) | 2 - NPT | 4 - 1/4" (6.35 mm) | 1 - 3500 PSIG (241 bar) | $C_v = .06$ |
| | 5 - Hastelloy-C® | 1 - 0-50 PSIG (0-3.5 bar) | | | 2 - 400 PSIG (27 bar) | $C_v = .15$ |
| | 6 - 316L SST | 2 - 0-100 PSIG (0-7 bar) | | | See porting configuration | |
| | 9 - Monel | 3 - 0-250 PSIG (0-17 bar) | | | | |
| | | 4 - 0-500 PSIG (0-35 bar) (with 3500 PSIG inlet only) | | | | |

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.



WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation & Operation Precautions.





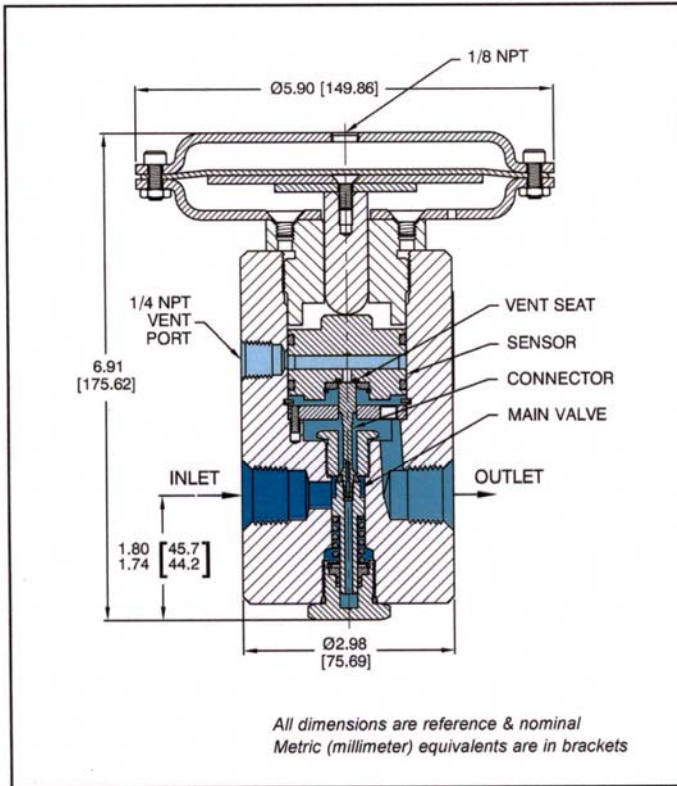
Part Number Selector

example part number:

44-40 1 9 E 2 12

MODIFICATION OPTIONS
- 002 - C_V = 2.0

| BASIC SERIES | BODY MATERIAL | MAXIMUM BIAS PRESSURE | SOFT GOODS | | | | IN & OUT PORT TYPE | IN & OUT PORT SIZE |
|--------------|--------------------------------|---|--------------------|---------|---------|-------------------------------------|--|---|
| | | | O-RING | SEAT | GASKET | TEMPERATURE | | |
| 44-40 | 1 - Brass | 1 - 100 PSIG | E - Viton® | CTFE | CTFE | 0°F to +165°F (-17°C to +73°C) | 0 - BSP 1 - SAE 2 - NPT 3 - MS33649 | 8 - 1/2" 12 - 3/4" (NPT only) |
| | 2 - 303 SST | 2 - 200 PSIG | M - E.P. | CTFE | CTFE | -40°F to +165°F (-40°C to +73°C) | | |
| | 6 - 316 SST | 3 - 350 PSIG | | CTFE | CTFE | -40°F to +165°F (-40°C to +73°C) | | |
| | 9 - Chrome Plated Brass | 4 - 120-150 PSIG (maximum) 9 - 0-15 PSIG | P - Kalrez® | CTFE | CTFE | -40°F to +165°F (-40°C to +73°C) | | |
| | | | V - Viton® | VespeI® | VespeI® | 0°F to +300°F (-17°C to +148°C) | | |



Part Number Selector

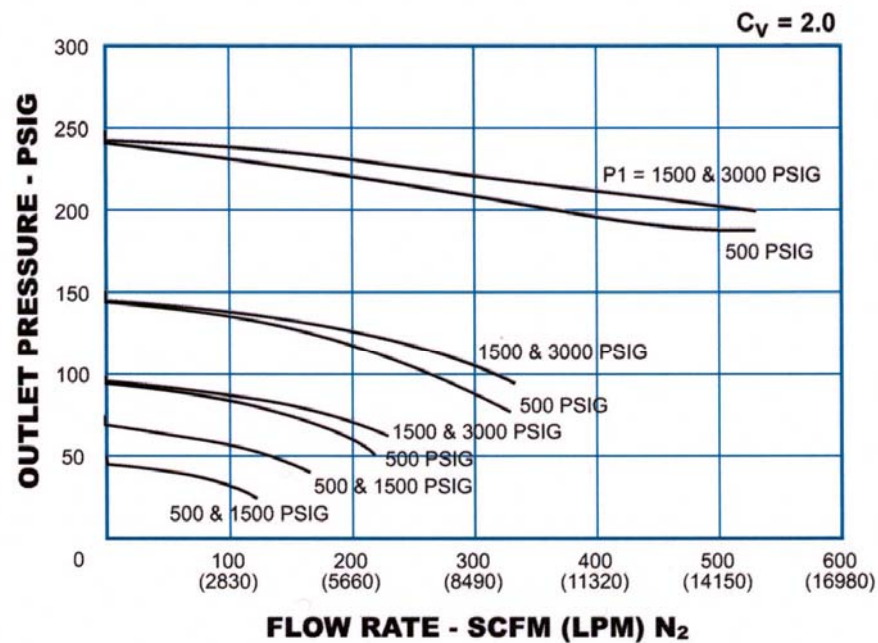
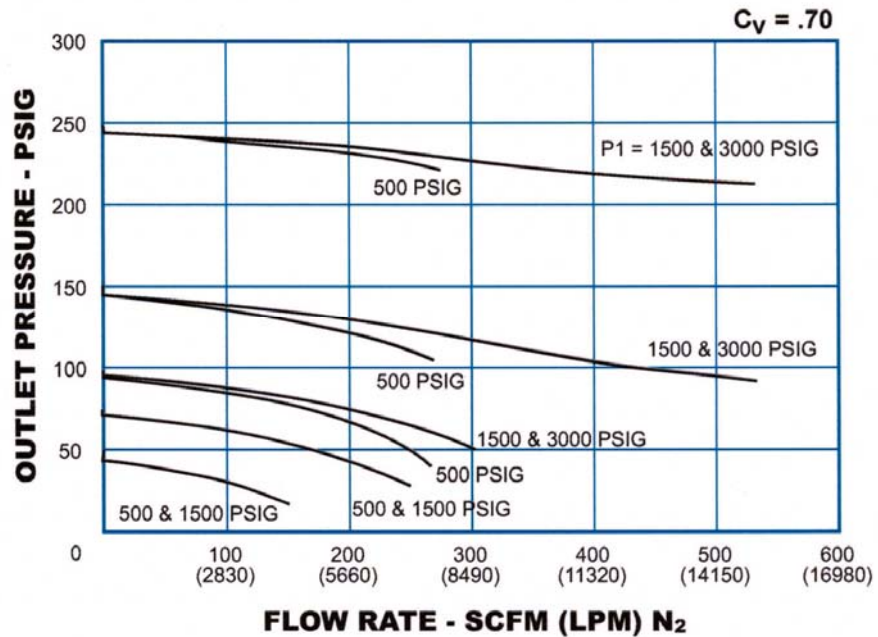
example part number:

44-40 1 9 E 2 12

| MODIFICATION OPTIONS | |
|----------------------|--|
| - 014 | - Air ratio, self-venting |
| - 015 | - Air ratio, self-venting, $C_v = 2.0$ |

| BASIC SERIES | BODY MATERIAL | OUTLET PRESSURE | SOFT GOODS | | | | IN & OUT PORT TYPE | IN & OUT PORT SIZE |
|--------------|--------------------------|-------------------------------|-------------|---------|---------|--------------------------------------|-----------------------------------|-------------------------------------|
| | | | O-RING | SEAT | GASKET | TEMPERATURE | | |
| 44-40 | 1 - Brass 2 - 303 SST | 6 - 600 PSIG 9 - 1500 PSIG | A - Buna-N | CTFE | CTFE | -40°F to +165°F (-40°C to +73°C) | 1 - SAE 2 - NPT 3 - MS33649 | 8 - 1/2" 12 - 3/4" (NPT only) |
| | | | E - Viton® | CTFE | CTFE | -15°F to +165°F (-26°C to +73°C) | | |
| | | | M - E.P. | CTFE | CTFE | -40°F to +165°F (-40°C to +73°C) | | |
| | | | P - Kalrez® | CTFE | CTFE | -15°F to +165°F (-26°C to +73°C) | | |
| | | | V - Viton® | VespeI® | VespeI® | -15°F to +400°F (-26°C to +204°C) | | |

Flow Charts



44-5800 Series Pressure Reducing Regulators

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum inlet pressure

6000 psig [414 bar]

Maximum outlet pressure

0-25, 0-50, 0-100, 0-250, 0-500 psig
[0-1.7, 0-3.4, 0-6.9, 0-17.2, 0-34.4 bar]

Design proof pressure

150% maximum rated

Operating steam pressure

650 psig [45 bar]

Inlet proof pressure

9000 psig [620 bar]

Leakage

Bubble-tight

Diaphragm 2×10^{-8} atm cc/sec He

Temperatures

Media Temperature: -40°F to 500 °F [-40°C to 260°C]

Ambient Temperature: -40°F to 167°F [-40°C to 75°C]

Heater Temperature Control: 270° Turn

122°F to 572°F [50°C to 300°C]

Heater Temperature Analog Output: 176°F to 518°F
[80°C to 270°C]

Voltage

120 or 240 VAC, maximum 265 VAC, minimum 80 VAC
50/60 Hz

Flow capacity

$C_v = .02$

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel or Monel

Seat

Vespel SP1®

Diaphragm & spring

Elgiloy®

Remaining parts

316 Stainless Steel (Stainless Steel body)

Monel (for Monel body)

OTHER

Electrical box rated

Explosion Proof Class I, Div. I

Group B, C & D, Class II

Group E, F & G

Connections

NPT

Cleaning

CGA 4.1 and ASTM G93

Weight

Electric: 6.25 lbs [2.83 kg]

Steam: 3.1 lbs [1.4 kg]

Vespel SP1® is a registered trademark of DuPont. Elgiloy® is a registered trademark of Elgiloy Corp.



The 44-5800 offers superior heat transfer technology (see heat transfer performance curves on page 3). With a high tolerance to voltage spikes and high ambient temperatures, this regulator is designed for worldwide applications.

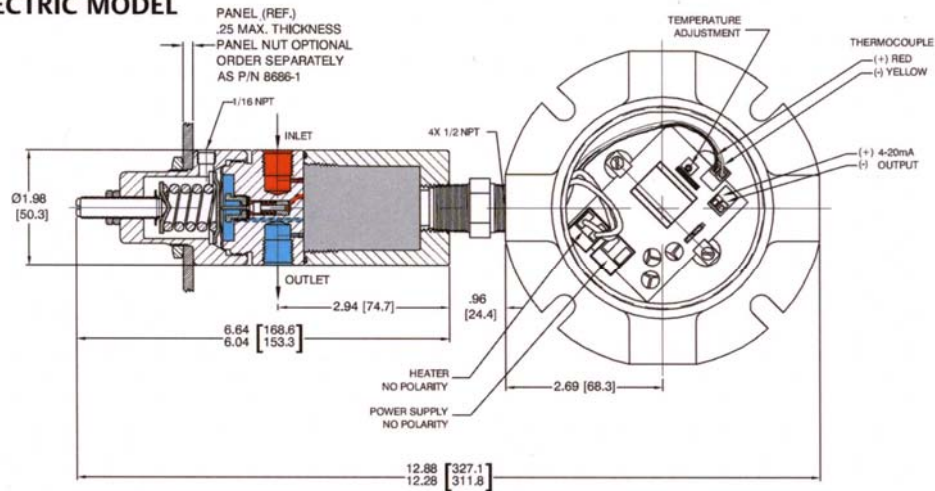
Main Applications

- Liquid Petroleum Analyzer
- Petrochemical / Refinery Analyzer
- Sampling Systems

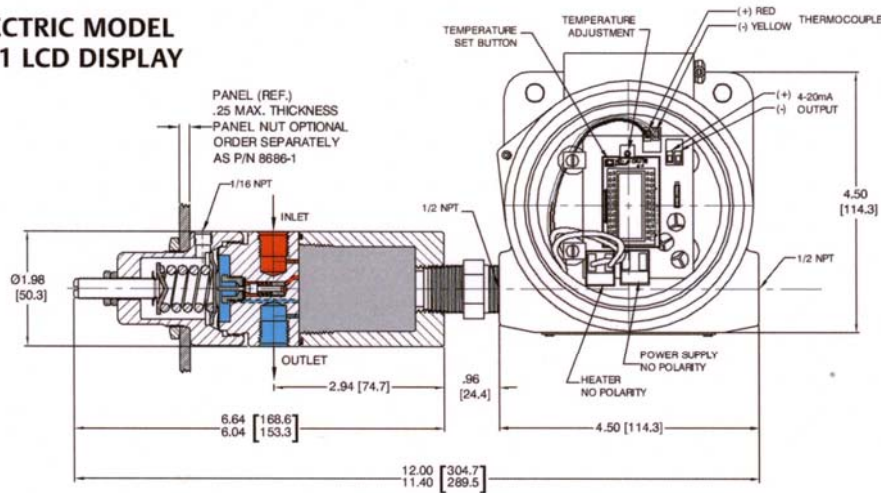
Advanced Features

- For worldwide use: Designed for 120VAC/240VAC, 50/60 Hz
- 4-20 mA analog output capability for remote temperature monitoring and data acquisition
- Optional LCD temperature display
- Durable - tolerant of power voltage spikes
- Optional heating capacity up to 400 watts for faster response to flow variations
- Patent pending heat transfer technology
- CE & hazardous location certification coming soon

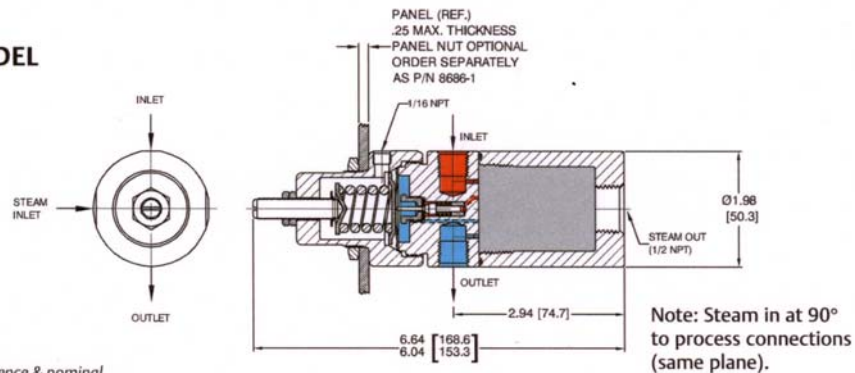
ELECTRIC MODEL



ELECTRIC MODEL -001 LCD DISPLAY



STEAM MODEL

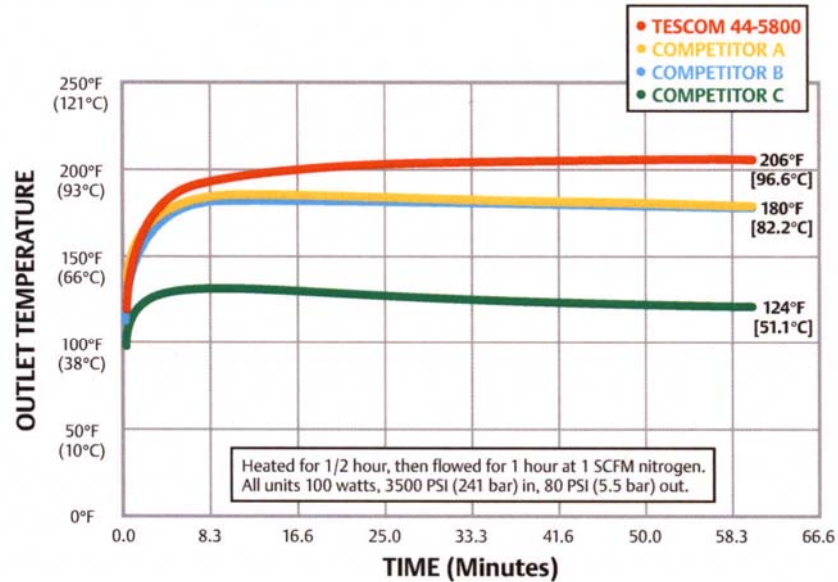


All dimensions are reference & nominal
Metric (millimeter) equivalents are in brackets

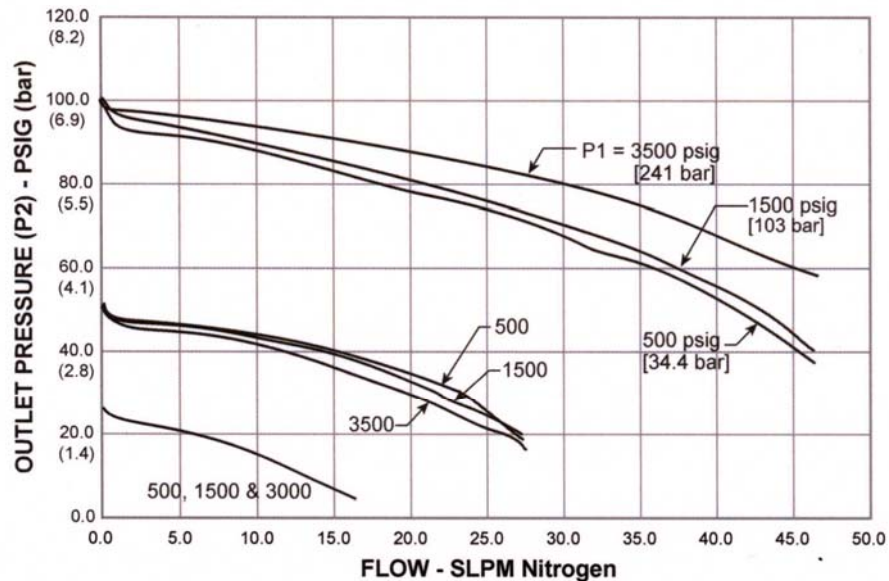


639 Manhattan Blvd.
Harvey, LA 70058 USA
TEL: (504) 362-8124
FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

44-5800 Vaporizing Competitive Comparison



Flow Chart



See back side for Part Number Selector.



639 Manhattan Blvd.
Harvey, LA 70058 USA
TEL: (504) 362-8124
FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

44-5800 Series Regulator

ELECTRIC MODEL

Part Number Selector

example part number:

44-58 6 1 D 2 4 1 E

- 001
LCD DISPLAY

| BASIC SERIES | MATERIAL | | | | OUTLET PRESSURE RANGE | HEATER WATTS | | INLET & OUTLET PORT TYPE | INLET & OUTLET PORT SIZE | INLET PRESSURE | VOLTAGE |
|--------------|-------------|-----------|----------|-----------------|------------------------------|-----------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|
| | BODY | DIAPHRAGM | SPRING | REMAINING PARTS | | 120VAC (AMPS) | 240VAC (AMPS) | | | | |
| 44-58 | 6 – 316 SST | Elgiloy® | Elgiloy® | 316 SST | 0 – 0-25 psig 0-1.7 bar | A – 12.5 (.10) | 50 (.21) | 2 – NPT | 4 – 1/4" | 1 – 6000 psig 414 bar | E – 120 VAC E1 – 240 VAC |
| | 9 – Monel | Elgiloy® | Elgiloy® | Monel | 1 – 0-50 PSIG 0-3.4 bar | B – 25 (.21) | 100 (.42) | | | | |
| | | | | | 2 – 0-100 PSIG 0-6.9 bar | C – 50 (.42) | 200 (.83) | | | | |
| | | | | | 3 – 0-250 PSIG 0-17.2 bar | D – 100 (.83) | 400 (1.67) ¹ | | | | |
| | | | | | 4 – 0-500 PSIG 0-34.4 bar | E – 200 (1.67) ¹ | | | | | |

¹ Maximum ambient temperature is 122°F [50°C].

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

STEAM MODEL

Part Number Selector

example part number:

44-58 6 1 - 2 4 1 S

STEAM

| BASIC SERIES | MATERIAL | | | | OUTLET PRESSURE RANGE | INLET & OUTLET PORT TYPE | INLET & OUTLET PORT SIZE | INLET PRESSURE |
|--------------|-------------|-----------|----------|-----------------|------------------------------|--------------------------|--------------------------|--------------------------|
| | BODY | DIAPHRAGM | SPRING | REMAINING PARTS | | | | |
| 44-58 | 6 – 316 SST | Elgiloy® | Elgiloy® | 316 SST | 0 – 0-25 psig 0-1.7 bar | 2 – NPT | 4 – 1/4" | 1 – 6000 psig 414 bar |
| | 9 – Monel | Elgiloy® | Elgiloy® | Monel | 1 – 0-50 PSIG 0-3.4 bar | | | |
| | | | | | 2 – 0-100 PSIG 0-6.9 bar | | | |
| | | | | | 3 – 0-250 PSIG 0-17.2 bar | | | |
| | | | | | 4 – 0-500 PSIG 0-34.4 bar | | | |

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

6000 PSI Back Pressure Regulator Model 211

General Information

Also known as a priority valve, the model 211 is a fully balanced, economical regulator. It serves a wide variety of uses, however its main use is on small compressors. The regulator will improve moisture separator efficiency and filter life as much as 450%. This is done by maintaining pressure in the separator and filter at 1800 PSI or more when tank pressure is lower. It has two outlet ports permitting attachment of a filling yoke and gauge directly to the regulator. This eliminates costly fittings.

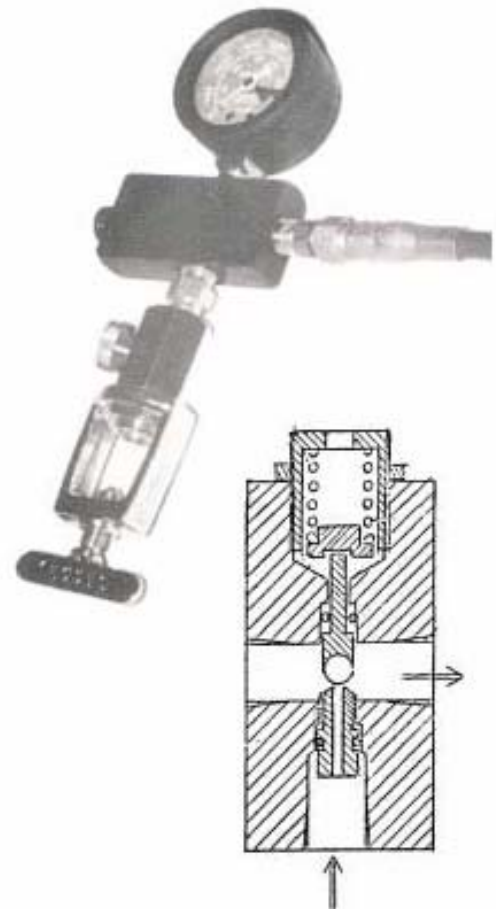


Specifications

- * Maximum rated pressure – 6000 PSI (40 MPa)
- * Set pressure – 1800 PSI (adjustable 300 to 5000)
- * Materials – Anodized aluminum body, brass, stainless steel, Viton seals
- * Flow capacity – 2 to 50 SCFM
- * Leakage – Zero external; 0.05 SCFM internal
- * Ports – 1/4" female pipe thread (NPT)
- * Size – 3-1/2" x 1-1/2" x 1"

Typical Applications

- * Separator and Filter Systems
- * Compressors
- * Control Systems
- * Cascading Systems



6000 PSI High Flow Back Pressure Regulator Model 635

General Information

Also known as a priority valve, the model 635 is a fully balanced economical regulator. It is similar to our model 211 regulator but it is capable of much higher flow rates. Its primary use is on compressors to maintain back pressure on filters and separators thus improving their efficiency as much as 1000%. The stainless steel metal to metal seat is designed to be self cleaning. It maintains constant back pressure (set pressure) independent of outlet pressure. When outlet pressure (such as in a tank being filled) reaches set pressure the regulator opens fully permitting unrestricted flow. Normally the valve is set for back pressures of 1500 to 6000 PSI. However, it can be set for pressures as low as 150 PSI. Lighter than standard springs can be ordered to improve low pressure operation.

Specifications

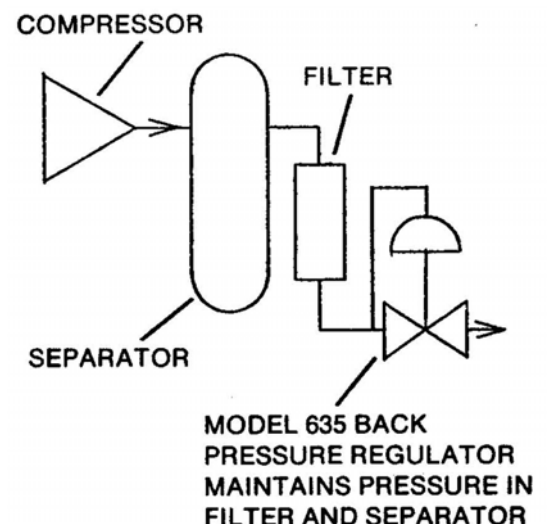
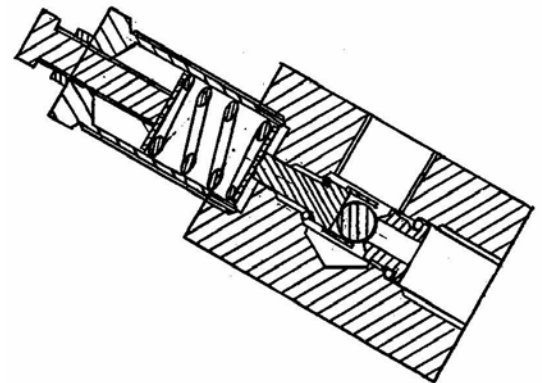
| | |
|--------------------------|---|
| * Maximum rated pressure | 6000 PSI (40 MPa) |
| * Set pressure | 1800 PSI nominal (adj. 150 to 6000 PSI) |
| * Materials | anodized aluminum body bronze, stainless |
| * Flow capacity | 2 to 300 SCFM |
| * Leakage | Zero external; about 0.1 SCFM internal |
| * Ports | ½" female pipe thread |
| * Size | 5.3" x 2" x 1.5" |

Typical Applications

- * Separator and filter systems
- * Compressors
- * Control systems
- * Cascading systems

Features

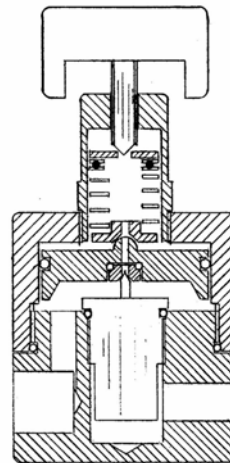
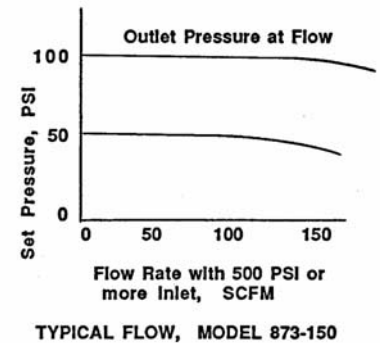
- * Fully balanced (unaffected by outlet pressure)
- * Sharp edged seat is self cleaning
- * Simple, easily maintained design



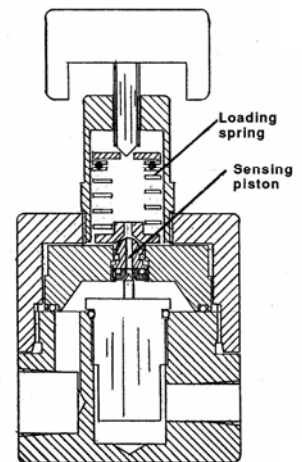
6000 PSI High Flow Reducing Regulator Model 873

General Information

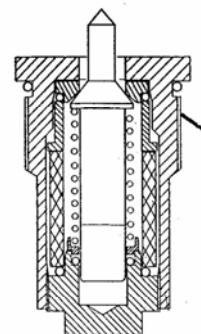
The model 873 is a piston type hand loading regulator. It utilizes a balanced poppet design for high flow and minimum effect of inlet pressure on outlet pressure. The poppet assembly is contained in a cartridge with internal filtration permitting very easy in field servicing. The low cost poppet cartridge (pictured on the opposite side of this sheet) is factory preassembled. It contains the more critical valving elements of the regulator thus eliminating in-field servicing problems. The regulator is self venting but is optionally available without the vent. This regulator design was developed for gas mixers for commercial diving where high flow, very precise pressure control and high reliability are needed. They have served this application for many years. It is available with different size sensing pistons resulting in a complete range of outlet pressures. A highly sensitive dome loaded version rated to 6000 PSI is also available.



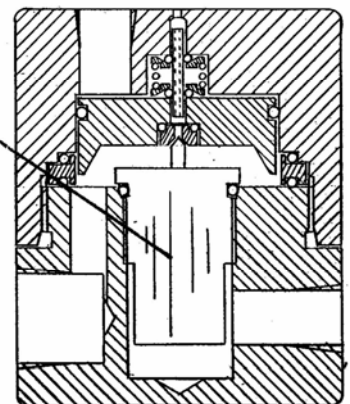
0 to 150 PSI model



0 to 5000 PSI model



Balanced Poppet Cartridge



Dome Loader model



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Harvey, LA 70058 USA
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FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

6000 PSI High Flow Reducing Regulator Model 873 cont.

Technical Specifications

| | |
|--|--|
| * Maximum inlet pressure | 6000 PSI |
| * Outlet pressure – from 0 to: | |
| model 873-150 | 150 PSI |
| model 873-100 | 400 PSI |
| model 873-1500 | 1500 PSI |
| model 873-5000 | 5000 PSI |
| model 873-D | 6000 PSI |
| * Flow coefficient (Cv) | 0.8 (0.23" orifice) |
| * Rise of outlet pressure with drop of inlet pressure | 1 PSI per 1000 PSI for model 873-150 |
| * Materials | |
| body and cap | aluminum |
| internals | brass, stainless |
| seals | Buna N, nylon |
| * Fittings | ½" NPT outlet port ¼" NPT inlet & gauge ports |
| * Size | 3 in. dia. x 5 in. long |

Typical Applications

- * Operation of high flow, low pressure equipment such as sirens from high pressure air tanks. Here use of high pressure air eliminates dependency on electrical power in an emergency.
- * Component testing
- * Air tank fill stations
- * Fire fighting air systems
- * Instrumentation and calibration panels
- * Process industry control
- * Shipboard and offshore air and gas controls
- * Aircraft service equipment
- * Electronic industry rare gas flow
- * Vehicle CNG stations
- * Precision gas mixing equipment

6000 PSI Reducing Regulator Model 415A

General Information

The model 415A is an economical, piston type, hand loan regulator. It is available in three standard outlet pressure ranges of 0 to 400 PSI, 0 to 1500 PSI, and 0 to 5000 PSI. Other pressure ranges and a dome loading version are available on special order. Maximum inlet pressure for all ranges is 6000 PSI. The regulator seats are protected by a 20 micron filter. The regulator seat, poppet assembly and filter are contained in an easily replaced valve cartridge assembly pictured in the section drawing to the right. The low cost valve cartridge is factory preassembled. This cartridge assembly permits very easy and fast in-field servicing. All units are self venting. Unvented units can be provided on special order. An optional mounting bracket (**Part No. 657**) permits panel surface. The unit is exceptionally rugged and insensitive to inlet contaminants. This, in addition to its low cost has resulted in its extensive use in fuel applications such as air and gas fill stations.

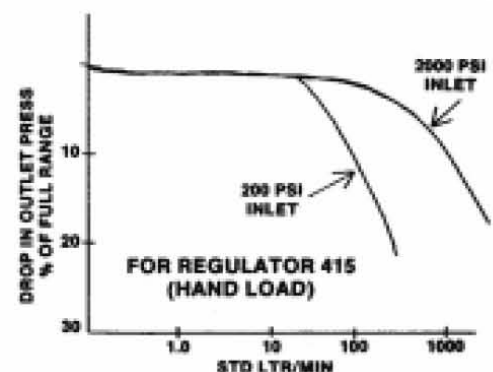
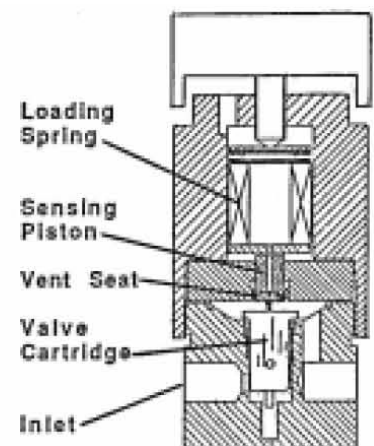


Technical Specifications

- * Maximum inlet pressure – 6000 PSI (40 MPa)
- * Outlet pressure
 - Model 415A – 400 – 0 to 400 PSI
 - 415A – 1500 – 0 to 1500 PSI
 - 415A – 5000 – 0 to 5000 PSI
- * Flow coefficient – $C_v = .03$ (.08" orifice size)
- * Materials – body and cap – anodized aluminum
internals – brass, stainless steel
seals – Viton, KEL-F
- * Size – 2.25" dia. x 5.5" high

Typical Applications

- * Component testing
- * Air tank fill stations
- * Fire fighting air systems
- * Instrumentation and calibration panels
- * Process industry control
- * Shipboard and offshore air and gas control
- * Aircraft service equipment
- * electronic industry rare gas flow
- * Vehicle CNG stations



Oxylance High Flow Regulator



The Oxylance REG-5-250 regulator was designed specifically for ½” hose and high flow requirements. This single stage regulator has a ½” NPT port on the output side so it can be used with ½” or ¾” hose without the flow restriction of a standard regulator with ¼” NPT output. From a high pressure cylinder this regulator will flow in excess of 10,000 scfh. From a high pressure (350 psi) liquid system with external vaporizer this regulator will flow in excess of 7,500 cfh. We do not recommend this regulator for use with a 235 psi liquid Dewar.

| Part # | Description |
|--|--|
| 250 PSI OUT | 250 PSI High Volume (10,000 cfh) ½” NPT Outlet Port |
| REG-5-250 | 250 psi Regulator NPT female outlet port (no outlet fitting) |
| REG-5-250 B | 250 psi Regulator with CGA “B” fitting for 3/8” hose |
| REG-5-250 C | 250 psi Regulator with CGA “C” fitting for 1/2” hose |
| REG-5-250 D | 250 psi Regulator with CGA “D” fitting for 3/4” hose |
| Regulators for Underwater Cutting | |
| 500 PSI OUT | 500 PSI High Volume (10,000 cfh) 1/2” npt Outlet Port |
| REG-5-500 | 500 psi Regulator with ½” npt female outlet port (no outlet fitting) |
| REG-5-500 B | 500 psi Regulator with CGA “B” fitting for high pressure 3/8” hose |
| REG-5-500 C | 500 psi Regulator with CGA “C” fitting for high pressure 1/2” hose |

Sta-Sea Offshore Rentals

A Service of Aqua-Air Industries, Inc.

639 Manhattan Blvd.

Harvey LA 70058 USA

Tel: (504) 362-8124

Fax: (504) 362-3600

E-mail: sales@aquaaairind.com

STA-SEA OFFSHORE RENTALS 24 HOUR SERVICE

EQUIPMENT RENTAL RATES:

PRICE PER DAY:

A. AIR COMPRESSORS (Diesel)

| | |
|------------------------|----------|
| 1. 216 - 16 cfm..... | \$ 35.00 |
| 2. 325 - 25 cfm..... | \$ 45.00 |
| 3. 390 - 90 cfm..... | \$ 85.00 |
| 4. 5120 - 120 cfm..... | \$ 85.00 |

B. CHAMBERS

| | |
|---|-----------|
| Double Lock 54" Complete with Pneumo Gauges, Oxygen Masks and Mattress..... | \$ 125.00 |
|---|-----------|

C. CORROSION CONTROL

| | |
|---|-----------|
| 1. Bathycorrometer - Complete kit with 1 bathycorrometer unit (white with red nose cone), charger - oblong box with a lead coming out of each end, 6 stainless steel pointed probe tips, a wrench to fit the probe tips, a 5 pinned rubber plug with white locking ring, a small tub of silicone grease, and an instruction manual..... | \$ 100.00 |
|---|-----------|

TO OUR CUSTOMERS:

PLEASE DO NOT HESITATE TO ASK FOR INSTRUCTIONS ON USING THE RENTAL EQUIPMENT. WE WANT YOU TO KNOW OUR EQUIPMENT LIKE IT IS YOUR OWN. KNOWLEDGE AND PROPER USAGE OF THE EQUIPMENT YOU ARE USING WILL HELP PREVENT ACCIDENTS AND/OR EQUIPMENT FAILURE DUE TO MISUSE.

ALL RENTAL RATES ARE F.O.B. OUR OFFICE IN HARVEY, LA

Sta-Sea Offshore Rentals

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Harvey LA 70058 USA

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Fax: (504) 362-3600

E-mail: sales@aquaaairind.com

STA-SEA OFFSHORE RENTALS 24 HOUR SERVICE

EQUIPMENT RENTAL RATES:

PRICE PER DAY:

D. THICKNESS GAUGE \$ 100.00

Consisting of:

Cygnus-1 Underwater complete kit with 1 each 2.25MHz 3/4" standard remote probe,
2 batteries, battery charger, calibration jumper lead, calibration trim tool, machined test block,
with travel case

E. UNDERWATER COLOR TELEVISION SYSTEM..... \$ 100.00

Consisting of:

Color Video DVD Recorder / Monitor

Color Helmet Mount Camera

Light & Camera Power Supply (Ground Fault Protected)

330 Ft. Umbilical

* Customer assumes responsibility for bulb replacement cost

ALL RENTAL RATES ARE F.O.B. OUR OFFICE IN HARVEY, LA

RENTAL RATES AND CONDITIONS

1. All rental rates are as published within the rental rate catalog.
2. Equipment rental begins at time of commitment and ends upon return of equipment to Sta-Sea Offshore Rentals - Harvey, LA. *****NEW RENTAL INCENTIVE*** Chambers & Compressors now offered on 5-day week basis.**
3. Rental equipment not returned, whether lost or stolen, will be replaced at current replacement value, and charged to customer.
4. Rental equipment returned damaged will be repaired and/or replaced and charged to customer.
5. Long term rentals may be negotiated.
6. Rental rates may change without prior notice.
7. Quotations on equipment not listed in rental rate catalog will be given upon request by customer.
8. Sta-Sea Offshore Rentals shall in no way be deemed or held responsible for any claims of personal injury, liability, shut in (down time), loss of revenue, or any other claim which may occur due to mechanical failure or improper operation of it's equipment.
9. Charges for delivery and/or pick-up of our equipment by contract truck lines are to be billed to and paid for by customer directly.
10. On items rented by the day, any part thereof constitutes a day's rental.
11. All Third Party charges will be billed back at Third Party invoice cost plus twenty percent (20%) surcharge.
12. If you should have any problems with our equipment, notify us immediately.

EQUIPMENT SWAP OUT OR EXCHANGE

1. In case of a swap out of rental equipment, the rented equipment being swapped out or replaced must be returned within 72 hours or it will be placed back on rental as a separate unit.
2. Equipment exchanged due to negligence on customers' part will be considered separate rentals and charged to customer as such.

CLEANING OF EQUIPMENT

Any cleaning required on returned rental equipment will be charged to customer at \$25.00 per hour to properly clean rental unit.

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FUEL POLICY - EQUIPMENT

1. Any rental equipment that operates on fuel (gas, diesel, etc.) and has a capacity of three (3) gallons or more shall be returned fully fueled or it will be filled by Sta-Sea Offshore Rentals and charged back to customer at current retail prices.
2. Any rental equipment that is returned with contaminated fuel will have its fuel tank drained and completely refilled and charged to customer at current retail prices.

CREDIT: Terms and Collection of Accounts

1. With approved company credit.
2. Net 30 Days: FIRM
3. All delinquent accounts will be subject to a service charge of 1 1/2% per month on past due balance.
4. Customers will be responsible for collection fees, attorney's fees, court costs, or any expense involved in the collection of account, should it become necessary.

INSURANCE REQUIREMENTS

A CERTIFICATE OF INSURANCE IS REQUIRED FOR ALL EQUIPMENT RENTALS

A Certificate of Insurance is required for all equipment rented. This insures that the equipment rented will be insured from the date it leaves our facility, until the date that it is returned. We require the Certificate of Insurance from the company renting the equipment to make sure that the equipment is covered against various hazards. The Lessee (or Customer) renting the equipment is totally responsible for the equipment.

The information required on the Certificate of Insurance must include:

1. Name Aqua-Air Industries, and Sta-Sea Offshore Rentals, 639 Manhattan Blvd., Harvey, LA 70058, as additional insured.
 - a. Waiver of Subrogation in regards to auto, workman's comp., and general liability.
3. Name Aqua-Air Industries, Inc. and Sta-Sea Offshore Rentals, 639 Manhattan Blvd., Harvey, LA 70058, as loss payee on equipment.
4. "All Risk Perils" is required.
5. The Value of the equipment must be listed in dollar amount (the replacement value).
6. Description and serial # on each piece of equipment rented.
7. The equipment must be insured from the date it leaves our facility until the date it is returned to our facility.

Normally, the customer informs their insurance company of the need to provide the lessor (our firm) with the Certificate of Insurance. The Certificate of Insurance must be received by or firm and carefully checked that it is complete (see items 1-7 above) before the equipment can leave our facility.

We will, ONLY WHEN NECESSARY, accept a facsimile message at our office in Harvey, LA from the Customer's Insurance Company faxing the Certificate of Insurance number and coverage information requested (items 1-7), providing the insurance company also informs us by facsimile that the actual certificate of insurance will follow immediately by mail to our office in Harvey, LA.



SYSTEM COMES COMPLETE AND READY
TO GO WITH 250' OF CABLE AND 15" MONITOR

- **PAN AND TILT COLOR FRONT AND REAR CAMERAS**
- **1,000 FOOT DEPTH RATED (UP TO 1,500' CABLE)**
- **50 DEGREE WIDE ANGLE LENS, 90 DEGREE TILT/PAN
(140 DEG TOTAL VIEWING AREA)**
- **15 INCH ULTRA BRIGHT COLOR MONITOR**
- **200 WATT LIGHTING**
- **FOUR HI OUTPUT MOTORS, VARIABLE SPEED, REVERSIBLE**
- **4 KNOTS FORWARD SPEED**
- **POWER BOOST CIRCUIT**
- **HIGHLY PORTABLE SYSTEM**
- **LEAK DETECTION CIRCUITRY**
- **SPARE WIRES IN UMBILICAL**
- **TWO YEAR WARRANTY**



SeaLion-2 Remote Operated Vehicle

The SeaLion-2 is the next generation of Fishers very popular SeaLion ROV. More powerful than our SeaOtter, it has more options available, and can handle 1,000 foot depths and up to 1,500 feet of cable. With pan and tilt cameras in both front and rear (with optional side cameras available), it is perfect for pipeline inspections, river and ocean searches, dam inspections, oil and gas platform work, fish farms, inspection of hazardous sites, and almost every type of underwater search or inspection operation. This ROV can dramatically reduce search time and the high costs associated with diver based inspections. With the Sealion-2 your team can locate, inspect, and video tape a target without entering the water. The SeaLion can also narrow the search area so when divers are required, their time is spent on the target, instead of swimming grid patterns. When outfitted with a metal detector (JW Fishers RMD-1), the ROV can search for weapons, unexploded ordnance, pipelines, buried treasure, or other metallic objects.

Fishers ROVs are in use around the world by US and foreign military, state and federal agencies, search and rescue groups, and many commercial diving companies. These high performance underwater camera systems make public safety search operations less dangerous by assisting in the location of drowning victims and recovery of evidence. They help eliminate the need to dive in difficult or dangerous conditions, whether it be a low visibility environment or a dive beyond no-decompression limits.

The system is very user friendly and with just a little practice time in a pool, the operator will have the SeaLion-2 moving effortlessly through the water.

(continued on back side)

SPECIFICATIONS

DIMENSIONS/WEIGHTS:

- SeaLion 23L x 16W x 12H inches 43 lbs.
- Control Box 19L x 16W x 8.5H inches 15 lbs.
- Cable5 inches Dia x 250 to 1,500 feet .. 30/180 lbs.
- Monitor (built into case) 15 inches

PERFORMANCE/DESCRIPTIONS:

- Cameras/Lens CCD color cameras/4mm 50 deg wide angle lens, 90 degree pan and tilt, auto iris.
- Monitor 15 inches, high resolution, ultra bright, color.
- Lighting Two 100w tungsten halogen (front).
Ultra bright LED ring (rear).
- Motors Four DC PM type, reversible, variable speed, proportional controlled, 7+lbs. thrust each motor, 4 knots.
- Operating Depth 1,000 feet.
- Color Yellow/black.
- Sealing Five separate housings, O-ring sealed, a leak detector in each housing, motors use "no maintenance" rotary seals.
- Power Req 120 vac, 8 amps, 900w max.

OPTIONS

- Up to 1,500 foot cable
- Spare parts kit
- Two color side cameras
- Manipulator arm
- Scan-650 scanning sonar
- Attached metal detector (RMD-1)
- Can be computer controlled*
- On screen display (time, date, heading, depth, GPS)
- DVD recorder
- Auto distance off bottom*
- Auto Depth*
- PAL camera and monitor (Europe)
- 220vac (Europe)
- Auto heading*

*available late '09
DS1

The ROV has a powerful and sophisticated four motor propulsion system; two motors for forward and reverse, and two motors for vertical and lateral thrust. The high output motors are reversible and operate at variable speeds. An off-the-shelf PS2 controller (supplied) operates the system. A joystick controls the horizontal motors (forward/reverse and turning) - it can hover "in place" and rotate 360 degrees; and the second joystick controls the vertical motors (up/down and lateral movement). A wireless PS2 controller can also be used.

When a high water current situation arises where extra power is needed, a button on the controller increases the maximum power available by 30%; significantly increasing thrust.



A PS2 Controller's joysticks and buttons control the ROV

The SeaLion-2 sends its video picture to a topside 15 inch high resolution ultra-bright color monitor which is built into the Control Box cover. A video output in the Control Box allows an additional remote monitor to be used simultaneously. An adjustable video amplifier on the Control Panel allows operator adjustment of the video picture to optimize picture quality for water clarity. A VCR/DVD can be connected to the Control Box to make a permanent record. The Control Box also contains an audio amplifier with an input jack on the Control Panel for audio recording.



Control Box cover with monitor can be removed for custom positioning or mounting

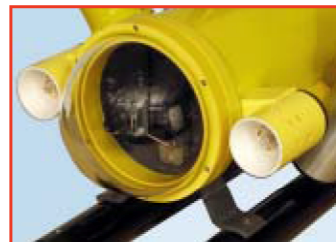
The system has two color cameras (front and back) with 4mm wide angle (50 degree) lens. The camera's 90 degree tilt allows a full 140 degree vertical viewing. The camera's 90 degree pan allows an additional 140 degrees of horizontal viewing. Both pan and tilt is controlled by pushbuttons on the PS2. Camera selection, front or back, is operator selectable from the Control Panel.

The Control Panel also contains a LCD readout which displays the overall status of the system.



Control Panel's switches, controls, and interface connectors

Illumination is provided by two, 100 watt, fully adjustable (0 to 200 watts) tungsten halogen lamps for the front camera and a "ultra-bright" LED cluster for the rear camera.



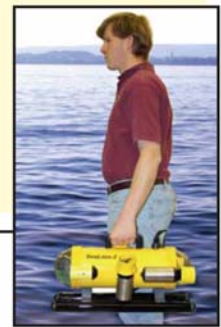
Pan and Tilt Cameras (front and back) with 200 watts of adjustable Lighting

At 43 lbs, the ROV is highly portable and very "user friendly". With the optional spare parts kit, the ROV is completely field maintainable. *JW Fishers* SeaLion-2 ROV system represents a major breakthrough in cost/performance for a commercial grade ROV. This high performance system competes with systems more than twice the price. The SeaLion-2 is covered by a TWO YEAR WARRANTY.





- PAN AND TILT COLOR FRONT CAMERA
- PAN AND TILT COLOR REAR CAMERA
- 500 FOOT DEPTH RATED HOUSING
- 50 DEGREE WIDE ANGLE LENS, 90 DEGREE TILT/PAN
(140 DEG TOTAL VIEWING AREA)
- 10.4 INCH ULTRABRIGHT COLOR MONITOR
- 100WATT LIGHTING
- FOUR MOTORS, VARIABLE SPEED, REVERSIBLE
- 3 KNOTS FORWARD SPEED
- HIGHLY PORTABLE SYSTEM
- LEAK DETECTION CIRCUITRY
- SPARE WIRES IN UMBILICAL
- TWO YEAR WARRANTY



SeaOtter-2 Remote Operated Vehicle

The SeaOtter-2 is the next generation of Fishers very popular SeaOtter ROV. With pan and tilt cameras in both front and rear, it is perfect for pipeline inspections, river and ocean searches, dam inspections, oil and gas platform work, fish farms, inspection of hazardous sites, and almost every type of underwater search or inspection operation. This ROV can dramatically reduce search time and the high costs associated with diver based inspections. With the SeaOtter-2 your team can locate, inspect, and video tape a target without entering the water. The SeaOtter can also narrow the search area so when divers are required, their time is spent on the target, instead of swimming grid patterns. When outfitted with a metal detector (JW Fishers RMD-1), the ROV can search for weapons, unexploded ordnance, pipelines, buried treasure, or other metallic objects.

Fishers ROVs are in use around the world by US and foreign military, state and federal agencies, search and rescue groups, and many commercial diving companies. These high performance underwater camera systems can make public safety search operations less dangerous by assisting in the location of drowning victims and recovery of evidence. They help eliminate the need to dive in difficult or dangerous conditions, whether it be a low visibility environment or a dive beyond no-decompression limits.

The system is very user friendly and with just a little practice time in a pool, the operator will have the SeaOtter moving effortlessly through the water.

(continued on back side)

SPECIFICATIONS

DIMENSIONS/WEIGHTS:

- SeaOtter 23L x 16W x 12H inches 43 lbs.
- Control Box 17L x 12W x 8.5H inches 15 lbs.
- Cable5 inches Dia x 250/500 feet 30/60 lbs.
- Monitor (built into case) ... 10.4 inches

PERFORMANCE/DESCRIPTIONS:

- Camera/Lens CCD color camera/4mm 50 deg wide angle lens, 90 degree tilt, auto iris.
- Monitor 10.4 inches high resolution ultra bright color.
- Lighting Two 50w tungsten halogen (front).
..... Ultra bright LED cluster (rear).
- Motors Four DC PM type, reversible, variable speed, proportional controlled, 6+lbs. thrust each motor, 3 knots.
- Operating Depth 500 feet.
- Color Yellow/black.
- Sealing Five separate housings, O-ring sealed, a leak detector in each housing, motors use "no maintenance" rotary seals.
- Power Req 120 vac, 5 amps, 600w max.

OPTIONS

- 500 foot cable
- DVD recorder
- Spare parts kit
- Scan-650 scanning sonar
- On screen display (time, date, heading, depth, GPS)
- Manipulator arm
- Attached metal detector (RMD-1)
- 220vac (Europe)
- PAL camera and monitor (Europe)

110108

The ROV has a sophisticated four motor propulsion system; two motors for forward and reverse, and two motors for vertical and lateral thrust. All motors are reversible and operate at variable speeds. An off-the-shelf PS2 controller (supplied) controls the system. A joystick controls the horizontal motors (forward/reverse and turning) - it can hover "in place" and rotate 360 degrees; and the second joystick controls the vertical motors (up/down and lateral movement). A wireless PS2 controller can also be used.



A PS2 Controller's joysticks and buttons control the ROV

The SeaOtter-2 sends its video picture to a topside 10.4 inch high resolution ultra-bright color monitor which is built into the Control Box cover. A video output in the Control Box allows an additional remote monitor to be used simultaneously. An adjustable video amplifier on the Control Panel allows operator adjustment of the video picture to optimize picture quality for water clarity. A VCR/DVD can be connected to the Control Box to make a permanent record. The Control Box also contains an audio amplifier with an input jack on the Control Panel for audio recording.



Control Box cover can be removed for custom positioning or mounting

The system has two color cameras (front and back) with 4mm wide angle (50 degree) lens. The camera's 90 degree tilt allows a full 140 degree vertical viewing. The camera's 90 degree pan allows an additional 140 degrees of horizontal viewing. Both pan and tilt is controlled by pushbuttons on the PS2. Camera selection, front or back, is operator selectable from the Control Panel.

The Control Panel also contains a LCD readout which displays the overall status of the system.



Control Panel's switches, controls and interface connectors

Illumination is provided by two, 50 watt operator controlled tungsten halogen lamps for the front camera and "ultra-bright" LED cluster for the rear camera.



Pan and Tilt Cameras with 100 watts of Lighting

At 43 lbs, the ROV is highly portable and very "user friendly". With the optional spare parts kit, the ROV is completely field maintainable. Carrying case is included. JW Fishers SeaOtter-2 ROV system represents a major breakthrough in cost/performance for a commercial grade ROV. This high performance system competes with systems more than twice the price. The SeaOtter-2 is covered by a TWO YEAR WARRANTY.

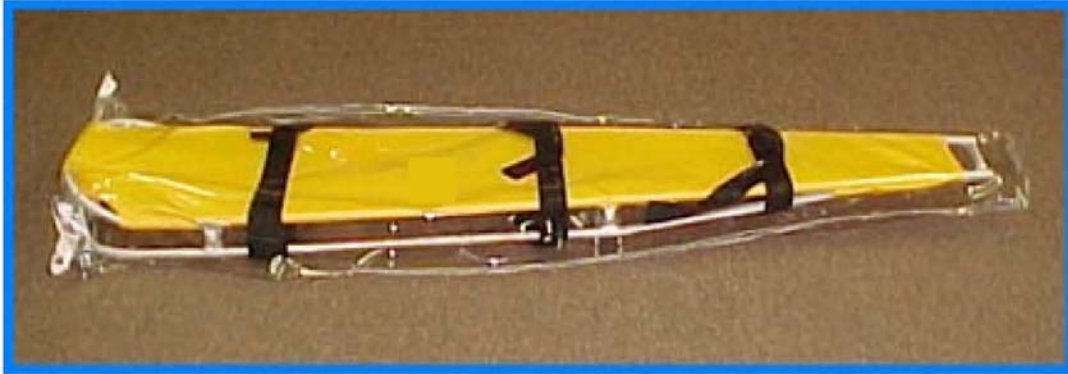


Safety Equipment



| Letter | Part No. | Description |
|--------|----------|--|
| A | 86804-6 | Steel toe, Steel Shank Safety Boot, Sizes 8-13 |
| B | WV-USCG | Work Vest, Orange – U.S. Coast Guard, Approval #160.053/70/0 |
| C | HD-505 | Hard Hat |
| D | 0281982 | Cool Brass Safety Glasses |
| E | 0282415 | Mirror Black Safety Glasses |
| F | 838FB110 | Clear Safety Glasses |
| G | 838FB119 | Black In & Out Safety Glasses |
| H | 838FB116 | Clear Crews Storms Safety Glasses |
| I | GS66 | Glow Stick, 6", Green, 12 Hour |

Stretchers and Stokes Litter Baskets



BELL 206 STRETCHER

The Bell 206 stretcher is manufactured with a ½” welded aluminum frame and comes complete with a pillow, blanket, and a set of 3 safety straps. This unit comes complete with a protective clear vinyl cover that is easily removed for quick accessibility to the unit.



STOKES LITTER BASKET

Constructed using an all-aluminum welded frame. This stretcher comes complete with a closed cell foam mattress for added comfort, pillow, blanket, and a set of 4 safety straps. An optional flotation collar is available as shown above.

ORCA II Bell



ORCA II Bell Cont.





639 Manhattan Blvd.
Harvey, LA 70058 USA
TEL: (504) 362-8124
FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

1000FT SPHERICAL BELL



BI-BELL (Side and Bottom Mate)



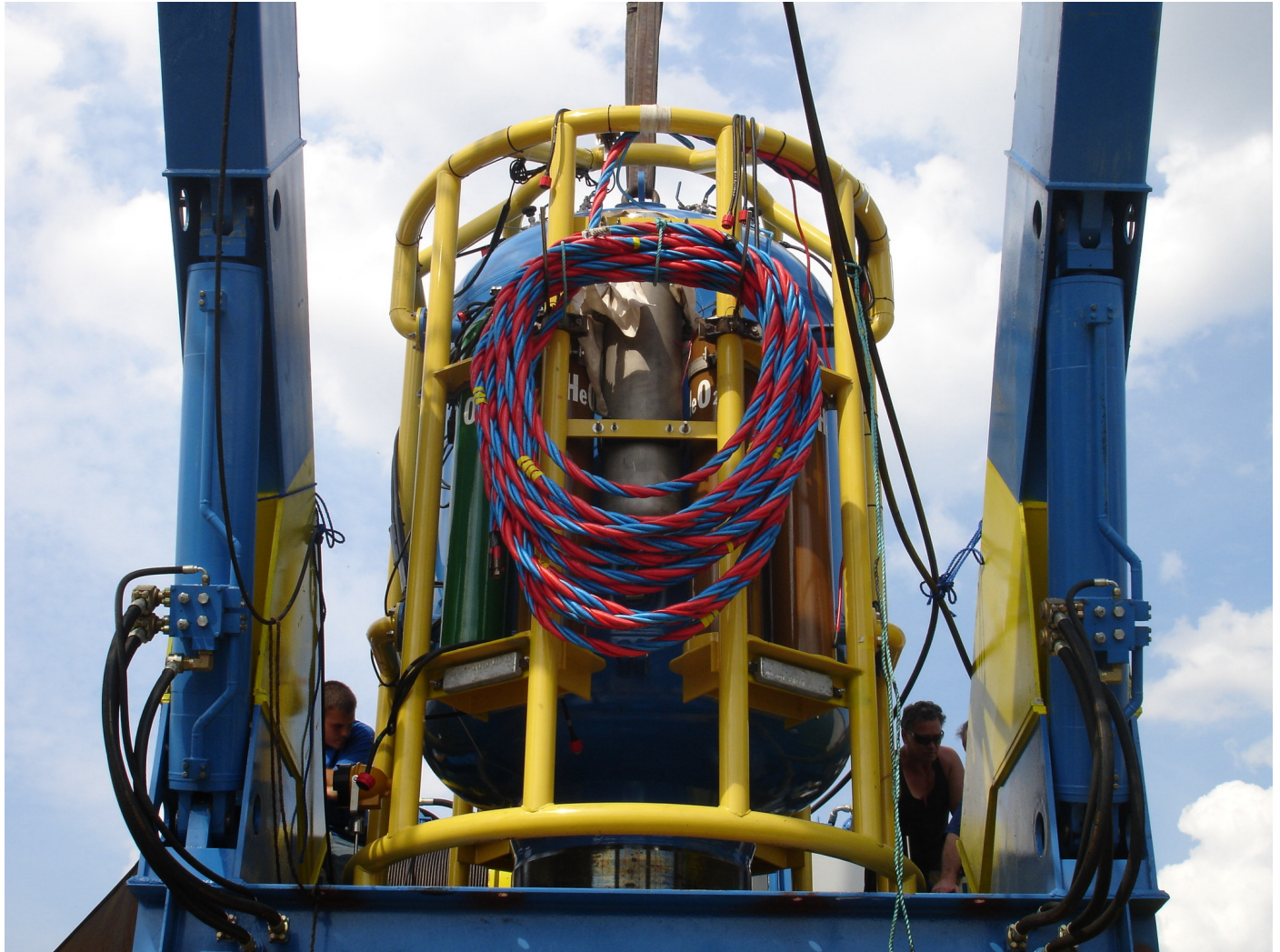


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SIDE MATED BELL



1000FT FULLY OUTFITTED BOTTOM MATE BELL





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1000FT DDC





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1000FT DDC



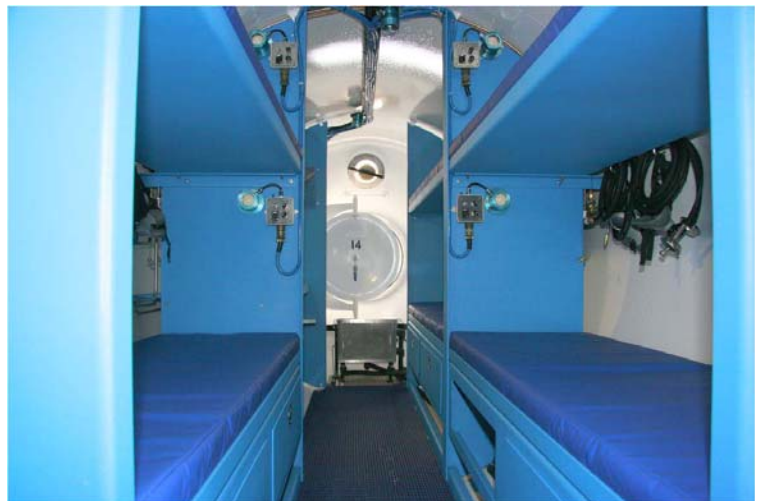
650FT DDC



Saturation DDC



Saturation DDC Bunks



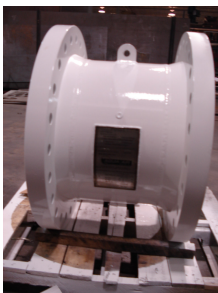


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1000FT TUP



1000FT TUP WITH SPOOL PIECES



ORCA II TUP



ORCA II TUP Cont.





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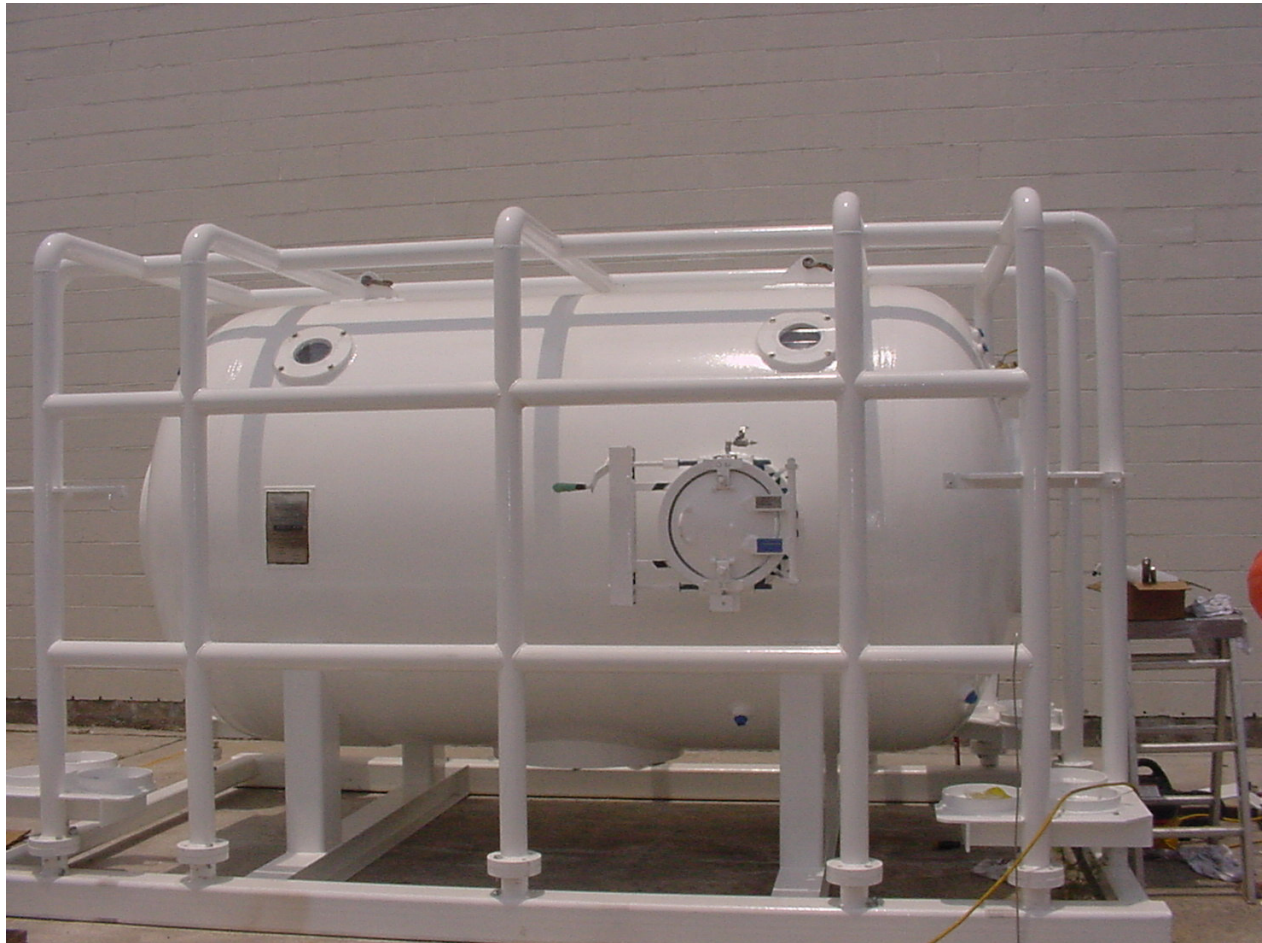
1000FT HYPERBARIC RESCUE CHAMBER (HRC)





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1000FT HYPERBARIC RESCUE CHAMBER (HRC)





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ORCA II HRC



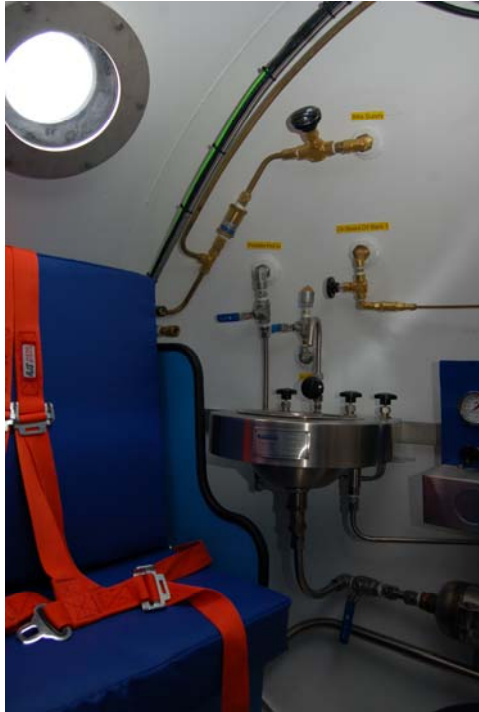
Specifications are subject to change without notice.

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ORCA II HRC cont'd



ORCA II HRC cont'd



Bell Launching System



The handling system for the bell incorporates an “A” Frame on the structure, bell winch, power sheave, and guideline winch. The winches and the spool piece with hydraulic clamp are controlled from the bell control room. The power system and support equipment are designed for 100% of the designed load.

A Frame Assembly

The A-Frame (U-frame design) Assembly will be a single part design, hinged to the Launch Foundation by stainless steel pins and bronze bushings and operated by two double acting, single rod, hydraulic cylinders (8” bore x 4.5” rod) with stainless steel rod. The overall dimensions will be such to support the handling and launch or recovery of the Saturation Diving System Bell and Clump Weight. The A-frame structure will be designed to meet USCG guidance of 150% of the yield strength of deployed wire rope. Counterbalance valves will be provided for smoothness of operation of the hydraulic cylinders. A compensation system to defray extreme vessel induced loading will be provided via shock absorbers and cylinder float for use in water depths between 0 and 125 fsw. Pad eyes, sheaves, and hardware will be provided with the assembly. The A-Frame will incorporate a catch mechanism for bell operations meeting the Customer’s requirements. All required lighting and the Bell Umbilical Sheave will be provided by the Customer. The A-frame and support mechanisms will be designed to cycle from the fully outboard (8 ft from vertical) position to the fully inboard (4 ft from vertical) position in approximately one minute. The design of the A-frame will allow for folding the A-frame back onto the Launch Foundation during transportation.

Launch Foundation

The Launch Foundation will hold the Bell Winch, Clump Winch, and HPU Assemblies and the A-Frame Assembly. This foundation will provide the modular stack up for complete system integration and bell alignment to the chambers below. The footprint of the foundation will be 10 ft W x 22 ft L and allow for lay down of the A-frame Assembly for storage and shipping. All permanent piping and hose connections will be made within the confines of the Launch Foundation. Drip pan collection for spill prevention will be inherent to the foundation design. Drains will be provided where necessary. Galvanized grating will be provided over the upper surfaces of the “drip pan” to facilitate traction and provide an upper work surface for operation and maintenance evolutions. Design will provide deck plate analysis for transferred loading to the Chamber Foundation.

Bell Launching System Cont.



Remote Control Station

The Hydraulic Power Units (HPUs) and winch foundations will fit within the footprint of the Launch Foundation. This assembly will provide hydraulic power and remote and local electrical controls to operate the HPU, the Bell Winch, the Clump Winch, the A-frame, A-frame compensation, the bell catch, the bell seal, and the umbilical roller sheave. Joystick operation will provide speed and direction of winch and A-frame movement. Selector switches will be provided for compensator operation, catch assembly operation, bell seal operation, and umbilical roller sheave operation. Control Panel indicators will include, power available, HPU operation, low oil level, motor failure, and compensator operation. The HPU system will provide for redundant operation using a primary and back-up hydraulic power sources. The specifics of each sub-system are as follows:

Bell Winch

- Description: Dual hydraulic motors, transmissions, and brakes with single band brake.
- Rated at 10-Ton SWL Normal Operation (Full Drum) w/ 15-Ton Overload Capacity
- Line Speed: 0 to 125 ft/min Normal Operation
- Bell Travel: 984 ft (300 m)
- Wire Rope: 1600 feet of 1.0" dia wire rope
- End Fitting: Open Spelter Socket, 1.0"
- Drum: 29.50" dia x 23.5" wide x 1" cable (seven wraps on drum at full drum)
- Brakes: Rated at 20 Ton

Clump Winch

- Description: Single hydraulic motor, transmission, and brake with single band brake.
- Rated at 5 Ton SWL Normal Operation
- Line Speed: 0 to 250 ft/min
- Clump Travel: 984 ft (300 m)
- Wire Rope: 3200 feet of 0.5" dia wire rope
- End Fitting: Closed Spelter Socket, 1/2"
- Drum: 17.00" dia x 19.625" wide x 1/2" cable (twelve wraps on drum at full drum)
- Brakes: Rated at 10 Ton

HPU Assemblies

- System: 5,000 psi Bell Winch and 3,000 psi Clump/A-frame Circuit
- Primary and Back-up Electric Motors – 150 HP/motor, 440 VAC, 3 Phase, 60 Hz
- Primary and Back-up Bell Winch Pump – Closed Circuit
- Primary and Back-up Clump/A-frame Pump – Open Circuit
- Primary and Back-up Motor Starters with overload protection and reset
- Primary and Back-up Hydraulic Manifolds/Valving
- Local Control Panel (NEMA 4)
- Remote Control Panel Insert (Approx. 36" L x 12" W)
- Separate reservoirs with 200-gallon capacity in each reservoir

HRC Launch & Recovery



This system will include a Double Davit Frame, Base, and latching mechanism, a Double Drum Air Winch connected to two 8:1 ½" (15 cm) block and tackle assemblies capable of 44,000 lbs. (19,958 kg.) lift each, and two Pneumatic Rams capable of a 44,000 lbs. (19,958 kg.) lift each. ABS Certification will be provided by Aqua-Air for system compliance.

Double Davit

Designed for operation with a 2:1 environmental factor of 80,000 lbs. (36,287 kg.), and a SWL of 40,000 lbs. (18,144 kg.) distributed across two davit arms and supported by two pin and bushing assemblies at the base and two pneumatic ram (actuator) pin and clevis arrangements. The Double Davit houses the Air Winch and rigging associated with raising and lowering the HRC via hooks. A latch mechanism provides for positive control of the HRC when it is raised into the davit arms. The latch is automatically set and manually released from a remote location. The davit and base dimensions will be approximately 10' W x 18' L x 10' H (3 m x 5.5 m x 3 m).

Air Winch

The air winch is a 10,000 lbs. (4,536 kg.) winch capable of speeds up to 45 m/min and operating with a normal system pressure of 90 PSIG (6.2 barg). The winch has automatic breaking capability and will be denoted as man rated for 10,000 lbs. (4,536 kg.) SWL. The winch is double drum with over and under feed for 700 ft. (213 m) total of ½" (15 cm) non-rotating wire rope. The winch feeds wire rope through an 8:1 block and tackle arrangement, producing maximum loads on the wire rope of 2.5 tons (2,268 kg) at 2:1 environmental loading.

Pneumatic Rams

The pneumatic rams will each be required to sustain design loads of 44,000 lbs. (19,958 kg) based on the conceptual design provided. The rams are approximately 8" (20 cm) bore x 3.5" (8.9 cm) rod x 70" (178 cm) stroke, double acting, single rod cylinders. The size of the cylinders requires the cylinders to operate at 1,000 psig (69 barg) air or nitrogen pressure and contain approximately 6 stages to maintain pressure and reduce leakage. Rod and cylinder bore are chromed to prevent corrosion.

AAI TURBO SCRUBBER

Part No. AAI-1300-A1



When using the Turbo Scrubber, the chamber atmosphere will have a constant circulation of Air-CO₂, Water Vapor, & Odor Absorption. The unit can be powered by an AC/DC power supply (not included) or by a 24 volt back up battery for up to 24 hrs of operation.

The stainless steel canister of the Turbo Scrubber can be configured with proper chemicals to maintain CO₂, water vapor, & odor levels generated within a chamber.

Features:

- Installed Weight Empty - 18 lbs.
- Installed Weight Filled with Absorbent – 25.5 lbs.
- Power Requirements - 1.5 AMPS 24V AC OR DC
- CO₂ Absorbent - (SOFNOLIME) 7.5 lbs.
- Flow Rate- 30 cfm (actual)
- Rugged Stainless Steel built-in mounting bracket
- Dimensions 15" L x 10" W x 8" H
- 6 Person capacity per Turbo Scrubber unit

The stainless steel Turbo Scrubber is powered by 110/24 volt “magnetic coupled” dual fans which move 30 cubic feet per minute through the scrubber canister. The fan motors are designed to work in high levels of oxygen without electrical sparks.

Turbo Scrubber Assy. Complete with Built-In Mountng Bracket –Order P/N ..AAI-1300-A1
Power Supply – Order P/N.....AS320-24

AAI BELL HEATER

Part Number: AAI-BH-A



Features:

- **Shipping Weight - 24 LBS**
- **Installed Weight Empty - 24 LBS**
- **Installed Weight Filled with Coolant- 30 lbs**
- **Power Requirements - 1.5 AMPS 24V DC**
- **Depth Rating - 1200FSW**
- **Flow Rate- 30 cfm**
- **Mounting Pattern is the same as Kinergetics DH12, DH21 and Aquabreeze Models**
- **Stainless Steel mounting bracket**
- **½" Female Ports**
- **.045 Copper Fin Tube-Silver Soldered Heater Tube Nest**

Bell-200 Wireless Through-Water Communications

Bell-200 Underwater Telephone

The Aquacom® Bell-200 is a compact, self-contained, through-water acoustic underwater telephone. This state-of-the-art transceiver packs a 70 watt amplifier ensuring communications under virtually all circumstances. The Bell-200 is commonly used in diving bells and/or submersible's.

We have many surface transceivers that will operate with the Bell-200 but we suggest our MAG-1001S which also supports a 70 watt amplifier. In all, these field proven systems will ensure communications when you need them.



Specifications:

| | |
|---------------------|--|
| Range: | Calm seas: Up to 2 miles lateral range with 25 kHz transducer, 7 miles range with optional 8.0875 kHz transducer. |
| Transmission: | 25 kHz upper sideband (optional 8.0875 kHz upper sideband available). |
| Output Power: | 70 watts |
| Automatic Gain: | 100 dB dynamic range |
| Controls: | Volume, Push-to-Talk, Fuse (spare/main), Power On/Off |
| Speaker: | Heavy duty front panel or optional headset with boom microphone |
| LED: | Green for Power ON, Yellow for Xmit |
| Operating Depth: | Standard up to 1,600 fsw. Optional depth transducer, over 1,600 fsw. |
| Supply Voltage: | 24 VDC@ 10 amps |
| Housing Dimensions: | Height: 4.70 Width: 8.65 (OVL width with knobs & connects 10.20) Depth: 3.55 (OVL width with knobs & connects 4.50) Weight: 4.5 lbs |

BELL COMMUNICATIONS BOX MODEL 3120



Model 3120 Bell Box is designed to be used in diving bell applications. Materials and components used are well suited to the hostile environment of the bell. This is a unit designed to survive.

- Five separate circuits, three for diver's comm, one for bellman's headset, and one for bell speaker
- Diver and bellman headset circuits are 4-wire, bell speaker is 2-wire
- Talk back speaker, bellman's headset connector, three diver's umbilical connectors
- Connections on bellman's headset and diver's umbilicals are identical and interchangeable. Allows bellman's headset to substitute for diver's umbilical or helmet

BUNK BOX COMMUNICATOR 3112



Provides communication and two entertainment channels to individual bunks. A headset is required. Communication can be push-to-talk or Simulcom. A push-to-call switch activates an indicator on an Amron Comm Routing Panel. Input connector is MS type 14 pin, male (MIL-C-5015). Headset connector is 4 pin audio, female. Housing is die cast zinc with gray epoxy powdercoat and stainless steel front panel.

DISCLAIMER NOTICE: Amron's communications equipment is designed to be used in air chambers where oxygen concentrations remain below 23.5%. Our communications products (including communicators, speakers, entertainment systems, and other communications accessory items) are NOT designed for oxygen service, are not intrinsically safe, and do not meet the criteria given in NFPA-99, Chapter 20 and other applicable definitions. Use of our products in high-concentration Oxygen environments may result in serious injury and/or death.



Headset

Light and comfortable headset for extended wear. Boom microphone pivots up and down only. Vinyl cushioned adjustable ear pads and rubber coated adjustable headband. Includes approximately 4 ft. straight cord.

Part # 2460-31R

Model 3110 Remote Two-Way Speaker With Push-To-Talk Switch



Details:

Remote two-way speaker provides paging (both calling and answer pages) by activating push-to-talk switch. Eliminates unnecessary monitoring of high-noise areas. 15 watt, 8 ohm. Optional headset reduces ambient noise interference. Housing is die cast zinc with gray epoxy powdercoat.

Dimensions:

- Height: 5.5 in. (14 cm)
- Width: 5.5 in. (14 cm)
- Depth: 4 in. (10.2 cm)
- Weight: 5 lbs. (2.3 kg)

Includes:

- 7 Pin MS Connector - P/N: MS-3106A-16S-1S
- MS Cable Clamp 16S-1 - P/N: MS-3057-8A

LUNG POWERED SCRUBBER™

Part No. LPS-1000



Bag is 6 ½" Dia. x 18" L
Weight of entire unit is 4 lbs.

The Lung Powered Scrubber™ was designed for removing carbon dioxide from a chamber atmosphere. The silicone mask and canister are stored in a nylon storage bag. This technology has been used in the commercial diving industry and military submarines for over fifty years. The Lung Powered Scrubber™ can be used without any extensive training and will protect the user for many hours on one canister. The canister has a built-in PH indicator. The chemical is white and will turn violet in color while being used. The unit is "lung powered" and requires very little maintenance & no electricity. The old canister can be changed by simply removing the hose clamp and installing a fresh canister. A Lung Powered Scrubber™ should definitely be a standard part of your chamber emergency backup system.

Canister Detail – Canister & contents are CE approved:
Part No. LPS-1000-SC

Sofnolime Carbon Dioxide Absorbant:

- 1) White to violet USP Grade
- 2) 2.5-5.0
- 3) >100 litres CO₂/Kg absorption capacity
- 4) Chemical weight - 2.5 lbs.

Carbon Based Filter Media

- 1) Soft moldable material with very high air flow
- 2) Ref MP 1005
- 3) Carbon 20%
- 4) Alumina 20%

Bell Seat with Seat Belt



- Fabricated with 316 Stainless Steel
- Designed to support a completely outfitting diver
- Space saver design can be removed or folded in upright position



Non-Retractable Seat Belt has 2" belt that extends up to 60". These lap belts are manufactured to exceed specifications as set forth by SFI, FIA, USAC, SCCA & FMVSS and are Federal Motor Vehicle Safety Standards (FMVSS) #209 approved. Color provided in Saturation application is "safety orange".

O2 Buffer Panel



The AAI Oxygen Buffer Panel is used to safely operate the O2 Injection Panel that is located in a Sat Bell or HRC through a set of metering valves and a small expansion cylinder.

Features:

- Sulfinert® Treated Swagelok® Sample Cylinders
- 1,000 cc Cylinder D.O.T. rated to 1800 PSI at room temperature
- All cylinders are made of 316 stainless steel, and have 1/4" female NPT threads on both ends

O2 Injection Panel with O2 Buffer in Bell



O2 Injection Panel with O2 Buffer in HRC



Multi-Purpose Pressure Gauges



Part # EMSI/D-50-1/8" NPT
Dry-2" Diameter-Back Mount

0-100 PSI
Engine oil replacement gauge



Part # PD20N2C4P17-1/8" NPT
Dry-2" Diameter-Back Mount

0-60 PSI Compressor oil
replacement gauge



Part # MGS-10/3A63-1/4" NPT
Glycerin filled – 2 1/2" Diameter-
Bottom/Back Mount

0-400 PSI
Stainless case/Brass internals



Part # PD4002C4P-1/4" NPT
Dry – 2 1/2" Diameter-Back Mount

0-400 PSI
Ideal for portable Pneumo cases



Part # MGS-10/3A64-1/4" NPT
Glycerin filled – 2 1/2" Diameter-
Bottom/Back Mount

0-5000 PSI
Stainless case/Brass internals

Certified Hygrometer and Temperature Indicator

Shows Relative Humidity & Temperature in both Fahrenheit & Centigrade at a glance



The Certified Hygrometer, **HTAB-176**, is certified to be accurate within +/- 3% RH. The dial indicates the complete range of 0 to 100% relative humidity. Each instrument has been tested at three different positions of the dial at temperatures ranging from 32 to 230 F. The calibration and certification are done under ISO-9001 control. The bi-metallic thermometer on the model HTAB-176 is accurate to 1% of scale w/ a range of -20 to 100 C and 0 to 210 F. Graduations are 1 for Centigrade and 1% RH.

This is the only humidity indicator that we know of that has a 1 year guarantee and a 5-year warranty. Some of our humidity indicators are working on the same principle as this improved instrument has been in use for over 10 years and is giving satisfactory service day after day, month after month, and year after year. Both the humidity and temperature are directly read without any calculations whatsoever. Solid 6" overall brass case drilled for wall mounting.

Shipping weight: 3 lbs.
Color differentiated
5" dial

Caisson Gauge



Important Features for Diving Industry

A gauge having the pressure element enclosed within a sealed chamber providing a fixed reference so that the gauge indicates pressure relative to this reference pressure datum.

The “Caisson” application is where the gauge is exposed to water pressure with the gauge being in the ambient caisson atmosphere. The gauge reading will then always be relative to the datum pressure.

The 3D Caisson Gauge employs an exclusive magnetic coupling. This magnetic coupling permits the pressure element to drive the pointer through the sealed chamber wall, without shaft seals. This coupling is “direct” in the sense that the drive is positive within the accuracy tolerance of the gauge. By employing this unique magnetic coupling the capsule can be sealed hermetically without adding friction error.

- Accuracy of 1/4 of 1%
- **Dial Size** – 6, 8.5, and 12 inches
- **Connection Locations** – at back or at bottom

Water Trap for Caisson Gauge

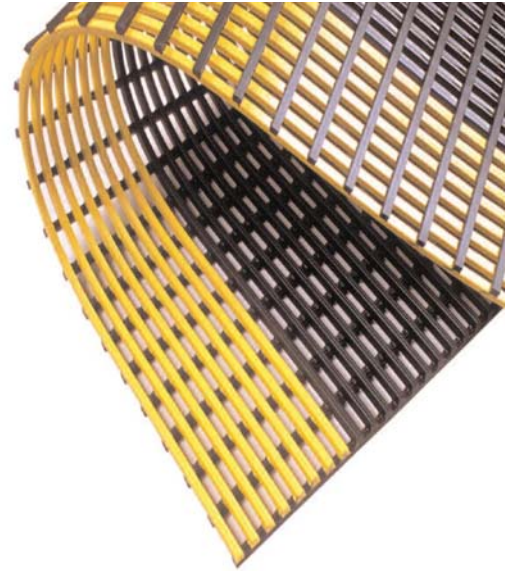


AAI Water Trap is designed to protect the Caisson Gauge that registers external pressure. The water is trapped in an acrylic cylinder so it does not reach the internal parts of the caisson gauge preventing corrosion.

Anti-Static Floor Matting

Safety Grid™ has a welded duckboard that creates an elevated platform for safety and keeps traffic away from moisture making it the perfect choice for locker rooms, showers, and pool areas. The PVC vinyl compound resists chemicals, while providing an anti-slip surface and basic fatigue relief.

- Solid PVC vinyl construction: highly resistant to industrial chemicals
- Top of rails feature a saw-tooth design to minimize slipping
- Overall thickness: ½"
- Stock size: 3' x 40'.
- Custom sizes available in 2', and 4' widths



| Test | Test Description | Results |
|---|---|-------------------------|
| Compression Deflection | Test specimen is subjected to varying compression load levels and the resulting deflection was measured. The greater the deflection, the better the anti-fatigue properties. (Inches) | .089" (40 lbs/sq. inch) |
| Coefficient of Friction ASTM C1028-96 | A neolite heel assembly with a predetermined load is pulled horizontally with a dynamometer to measure the force required to cause the assembly to slip. | 0.62 |
| Abrasion Resistance ASTM D3884-01 | Test specimen is subjected to the rubbing action of two abrading wheels under controlled conditions. Results measured in weight loss. (Grams) | 1.91 Grams |
| Elongation ASTM D412 | Test specimen is stretched at a specified rate until breaking point. The results are measured in % of size increase at breaking point. | N/A |
| Order AAI Part Number: SAFETY#531-BLUE | | |

Hy-Fex Hyperbaric Fire Extinguisher



| Specifications | | |
|----------------------------|---------------|---------------|
| <u>HY-FEX MODEL</u> | <u>SE480</u> | <u>SE481</u> |
| Cylinder Volume | 7.5 liters | 3.0 liters |
| Height | 600 mm | 450 mm |
| Diameter | 150 mm | 120 mm |
| Weight Charged | 12 kg | 7 kg |
| Foam Discharge | 50 liters | 22 liters |
| Discharge Time | 50 secs | 22 secs |
| Discharge Distance | 6 m | 6 m |
| Effective Discharge | 99% | 99 % |
| Cylinder T.P. | 200 Bar | 200 Bar |
| Cylinder W.P. | 133 Bar | 133 Bar |
| Temperature Rating | -15 to +55 °C | -15 to +55 °C |
| Tested Depth | 450 MSW | 450 MSW |

** Mounting Brackets Optional **

- Two sizes available
- Instant response
- Easy to maintain
- Smaller and lighter than two cylinder designs

HY-FEX HYPERBARIC FIRE EXTINGUISHERS

Are simple, easily handled and have been designed to be fitted in hyperbaric diving and medical therapy chambers.

They are available in two sizes to facilitate easy mounting as appropriate in the different compartment sizes found in hyperbaric systems.

The 3 liter Hy-Fex extinguisher will typically be found in air dive chambers, entry and transfer compartments. The 7.5 liter Hy-Fex will suit main living chambers and large treatment chambers.

These extinguishers are of the foam stored pressure type charged-up to 133 Bar, with a suitable chamber gas – usually air or heliox.

The gas charge propels the water/AFFF mixture through a venturi outlet nozzle to give a strong jet of foam.

Hy-Fex units utilize only one robust aluminum cylinder containing the foam mixture and pressurized gas. This is in contrast to the old-fashioned and cumbersome two cylinder extinguishers used in the past which required frequent maintenance of both cylinders and pressure relieving valve.

The Hy-Fex control valve/handle is similar to standard industrial units and permits immediate actuation and control – no delays in pressurizing the ‘foaming’ cylinder as in the old-fashioned models (up to eight seconds was quite common).

AAI FUSE VALVE



Detail:

3" I.D. valve assembly is constructed of stainless steel with spring loaded internal electro-nickel plated dampner for quick "slam shut" operation. The 90° - 2" I.D. port located near the bottom threaded section is perforated to protect the valve from clogging with any foreign material

Survival Kit (For Use in Bell & HRC)



Kinergetics Bell Survival Kit

- 24 Hour Passive Survival Suit
- One Piece Suit
- Thermal Survival Bag
- Thermal Regenerator
- Two easily stored bags

The Kinergetics Stranded Bell Diver Survival System is totally passive, life prolonging survival equipment for cold hyperbaric heliox environments.

The system consists of two separate bags. The first contains a thermal protection suit and sleeping bag. This is now of similar design to the unit used in the SSS Bell Survival suit.

A one-piece insulated suit is donned by the diver prior to entering the heavily insulated survival bag. AN integral harness prevents the diver falling forwards when fatigued. The kit is available packaged in two different formats (shown below), to suit various), to suit various diving bell configurations.

The second bag (TRS-Thermal Regeneration Scrubber) contains the combined thermal regenerator/lung powered carbon dioxide scrubber – as shown in the photograph above.

The system has been trialed successfully in most experimental dives since 1986, and is one of the most commonly installed units in saturation diving facilities worldwide.

Emergency Rations (MRE)



What is an MRE?

The MRE is a totally self-contained completed meal. One MRE = one meal. The packing of an MRE is designed to withstand rough conditions and exposure to the elements. Inside each MRE bag is an entrée and a variety of other food and drink items. MREs come packaged in cases with 12 MREs per case. There are currently 24 different “menus” or varieties of MREs. Menus 1-12 are packaged in a case designated Case A and menus 13-24 are packaged in Case B.



What's in an MRE?

The military makes a few changes to the menus every year so you will find a different menu listening for each year. In general, though, each MRE contains the following:

Entree – the main course, such as Spaghetti or Beef Stew

Side dish – rice, corn, fruit, or mashed potatoes, etc.

Cracker or Bread Spread – peanut butter, jelly, or cheese spread

Dessert – cookies or pound cakes

Candy – M&Ms, Skittles, or Tootsie Rolls

Beverages – Gatorade-like drink mixes, cocoa, dairy shakes, coffee, tea

Hot sauce or seasoning – in some MREs

Flameless Ration Heater – to heat up the entrée

Accessories – spoon, matches, creamer, sugar, salt, chewing gum, toilet paper, etc.



Each MRE provides an average of 1,250 calories (13% protein, 36% fat, and 51% carbohydrates) and 1/3 of the Military Recommended Daily Allowance of vitamins and minerals. A full day's worth of meals would consist of three MREs.

How do you eat an MRE?

True to its name, the MRE is “ready to eat” and everything can be consumed without cooking or heating (but the beverages are much better when water is added to the drink mixes). While the entrees and sides are fine to eat cold, they usually taste much better when heated up with the included Flameless Ration Heater or by boiling in water.

How long do MREs last?

Officially, MREs are designed to have a shelf life of three years when stored at 80 degree F. These times can be lengthened or shortened depending on their storage temperature. Higher temperatures = shorter MRE life spans.

External Conditioning Units – All Models



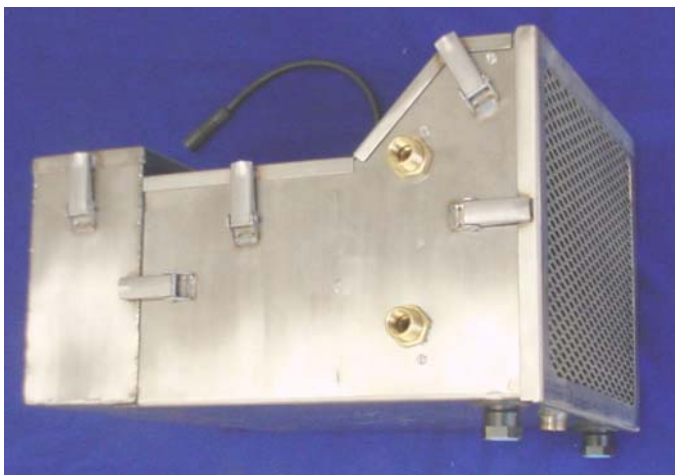
- Available in Air Cooled or Fresh Water Cooled Models
Ranging from 4,000 BTU to 92,000 BTUs
- Cool only or Heat and Cool Models Available
- Wired for 230V/60 Cycle/1 Phase or
460V/60 Cycle/3 Phase
- Stainless Steel Housing Cabinet
- Aluminum Air Intake Filter
- Slim Vertical Design for Easy Installation into Life Support Containers
- All units recirculate 50% water/glycol
- Digital Temperature Controllers
- ABS Approval Optional

AAI INTERNAL ENVIRONMENTAL CONDITIONING UNIT (AQUA-MEX)
Part No. AAI-IECU-24HC-A (Heat and/or Cool)



Details:

Actual unit – 16 ¼” L x 20” W x 14” H
Blower/Condenser - 42 lbs.
Scrubber Can – 8 lbs.
½” FNPT ports – Qty 4
24 Volts DC
2.40 Amps



The AAI **Internal Environmental Conditioning Unit** was designed to cool and/or heat a DDC-SDC-TUP or hyperbaric chamber by using 50% glycol fluid mixture. The cooled or heated fluid is pumped into the condensing coils and the temperature is transferred into the chamber.

The 600 cubic feet per minute magnetic coupled blower also draws the air inside the chamber through a scrubber basket mounted on the unit. The scrubber can be filled with absorbing chemicals that will absorb carbon dioxide, humidity, and odors.

Chemical Scrubber Can:

Holds 22 lbs. Material

Chemicals are CE approved:

Sofnolime – CO₂ Absorbant
Sofnosiv – Humidity Control
Sofnofil – Odor Removal

Optional Accessories:

| AAI Part No. | Description |
|-----------------|-------------------------------|
| AS320-24 | 24 VDC - 12.5amp Power Supply |
| RM2-FS-12FT | 12 ft. Power Cord |
| AAI-IECU-BASKET | Spare Scrubber Basket |

AAI HY-LITE FOR SAT CHAMBERS Hyperbaric Chamber Light



Specifications:

LEDs – 24 Cool White
Voltage – 24V
Hardware – 316 Stainless Steel
Housing – 6061 Blue Anodized Aluminum
Connector – 2-pin male waterproof connector
with stainless steel locking sleeve
Weight – 1.5 lbs.



The AAI HY-LITE was designed for installation within the Saturation Chamber DDC-SDC-TUP . It comes standard with a 2ft power cord.

This unit comes with a certificate of compliance as well as a pneumatic test certificate.

Aqua-Air Ordering Information

AAI Hy-Lite Chamber Light Assembly for Sat with LEDs.....AAI-500-S-A

AAI SANITARY FACILITY COMPONENTS



Stainless Steel Sink Features:

- Commercial Heavy Gauge 18/10 Stainless Steel
- 5 Quart Capacity
- Commercial Grade Sink

Hand-Held Shower Head Features:

- Full cone coverage
- Trickle value saves water and energy
- Self-sealing gaskets
- 60 inch vinyl hose



Stainless Steel Toilet Features:

- 1-1/2" NPT Inlet Connection
- All units factory tested for proper operation
- All cabinet materials, including interior piping are Type 304 stainless steel
- Heavy gauge stainless steel with seamless welded surfaces
- Elongated die-drawn bowl
- Toilet assembly meets ANSI/ASME A112.19.2
- Complete with 4" O.D. x 12" L 304 SS Expansion Manifold
- There are spring loaded dead man valves (qty 2 – one inside & one outside) installed on Sat Tankage which cannot be reached by toilet occupants.
- The safety feature in our system requires 2 independent people in order to make the toilet flush.

Sound Powered Telephone



The **Sound Powered Telephone** is commonly used for back-up communications from the internal hyperbaric environment to and from the external support technicians. A manual sound/call generator is mounted on the rear of the handset. This safe and simple communications system requires no power. A mounting bracket is also available.

Sound Powered Telephones

Handsets are available with or without push buttons and with coiled cordsets, straight cordsets or armored cable. Coiled (**R**) and straight (**S**) cordsets terminate in either alligator clips (**C**) or a phone plug (**P**). Armored cable (**AR**) models terminate in tinned wires. The handset pictured to the right is **MODEL SPT-550 RP**.

| Description | Model Number |
|---------------------------------------|--------------|
| No Push Button, coiled cord, plug | SPT-525 RP |
| No Push Button, coiled cord, clips | SPT-525 RC |
| No Push Button, straight cord, plug | SPT-525 SP |
| No Push Button, straight cord, clips | SPT-525 SC |
| No Push Button, armored cable | SPT-525 AR |
| Push Button, coiled cord, plug | SPT-550 RP |
| Push Button, coiled cord, clips | SPT-550 RC |
| Push Button, straight cord, plug | SPT-550 SP |
| Push Button, straight cord, clips | SPT-550 SC |
| Push Button, coiled cord, plug, PTT | SPT-552 RP |
| Push Button, straight cord, plug, PTT | SPT-552 SP |



The handset push button is the equivalent to a hang-up switch. Handsets without push buttons are therefore always on and are best limited to applications involving simple pair-phone operation. Handsets with push buttons are off-line until the push button is depressed and are intended for multi-phone set-ups. The PTT handset is wired so that only the transmitter is activated by the push button. The receiver is always on. This configuration is required by certain fire codes relating to high rise buildings.

Avox Pressur-Vak II



The Avox Pressur-Vak II is designed to administer oxygen or gas mixtures to a diver or patient in a hyperbaric chamber environment. The demand regulator assembly provides breathing gas on demand (inhalation). The regulator is designed to operate with a constant inlet pressure of 65 to 125 psig over chamber pressure.

For chamber depths over 60 FSW, a secondary vacuum regulator must be installed (see Tescom Regulator 26-2912-282A). A hull-stop valve should be an integral part of the system as a safety device to shutdown the vacuum should a pressure loss occur. The optional pressure reducing regulator is a small reliable regulator assembly with an oxygen coupling. The vacuum regulator allows the exhaled gases to be carried to the outside of the chamber thereby eliminating oxygen buildup or contamination of the chamber environment. The vacuum of the exhaled gas is a direct function of the differential pressure of the chamber and the ambient environment.

Options

- 1st Stage Regulator
- Pressure Reducing Regulator (PR Reg)
- Microphone
- Available without a Face Seal and Harness Assembly

Warning: The Pressur-Vak II is designed for surface decompression in a recompression chamber and is not intended for underwater use. It may also be used for other applications which require overboard discharge of exhaled gas.



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Avox Pressur-Vak II Cont.

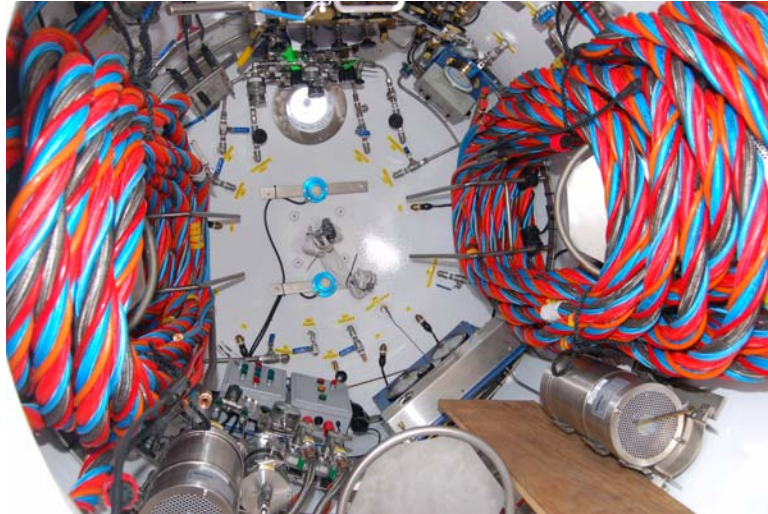
Features

- Now Available with 150 ohm dynamic microphone
- Face seal is available in FIVE sizes
- Quick disconnect face seal allows easy cleaning
- Optional full head harness for added comfort during long administration
- Exhausts exhaled gases overboard, permitting minimum ventilation of the chamber
- Demand regulator permits constant flow operation
- Optional 300 to 1800 psi first stage regulator maintains constant inlet pressure to the demand regulator.

Item List

| | |
|---|--------------|
| Med Short Seal-1 st Stage Reg-w/o Mic | 803139-00-01 |
| Med Seal-1 st Stage Reg-w/o Mic | 803139-00-02 |
| Med Long Seal-1 st Stage Reg-w/o Mic | 803139-00-03 |
| X-Long Seal-1 st Stage Reg-w/o Mic | 803139-00-04 |
| X-Short Seal-1 st Stage Reg-w/o Mic | 803139-00-05 |
| No Seal or Harness-PR Reg-w/o Mic | 803139-00-XX |
| P-Vak II Medium Short Face Seal w/o 1 st Stage Reg and Mic | 803139-01-01 |
| P-Vak II Medium Face Seal w/o 1 st Stage Reg and Mic | 803139-01-02 |
| Med Long Seal-w/o Reg-w/o Mic | 803139-01-03 |
| X-Long Seal-w/o Reg-w/o Mic | 803139-01-04 |
| X-Short Seal-w/o Reg-w/o Mic | 803139-01-05 |
| No Seal or Harness-w/o Reg-w/o Mic | 803139-01-XX |
| Med Short Seal-PR Reg-w/ Mic | 803140-00-01 |
| Med Seal-PR Reg-w/ Mic | 803140-00-02 |
| Med Long Seal-PR Reg-w/ Mic | 803140-00-03 |
| X-Long Seal-Pr Reg-w/ Mic | 803140-00-04 |
| X-Short Seal-Pr Reg-w/ Mic | 803140-00-05 |
| Med Short Seal-w/o Reg-w/ Mic | 803140-01-01 |
| Med Seal-w/o Reg-w/ Mic | 803140-01-02 |
| Med Long Seal-w/o Reg-w/ Mic | 803140-01-03 |
| X-Long Seal-w/o Reg-w/ Mic | 803140-01-04 |
| X-Small Seal-No Reg-w/ Mic | 803140-01-05 |

Bell Excursion Umbilicals



Bell Excursion Umbilical for Diver

Nominal Mechanical Properties:

| | |
|----------------------|----------------------|
| Finished diameter: | 45.0 mm \pm 3.0 mm |
| Weight in air: | 1,450 kg/km |
| Weight in sea-water: | -100 kg/km (note 1) |
| Minimum bend radius: | 295 mm (static) |
| Minimum bend radius: | 440 mm (dynamic) |

Note 1: Assumed sea-water density = 1,026 kg/m³

Assembly Detail:

- 1 of FRH08 ½" NB Fibroflex collapse and recover reclaim hose. Color: Black
- 1 of FDH08H ½" NB Fibroflex hot-water hose. Color: Red
- 1 of FDH06G ¾" NB Fibroflex gas hose. Color: Blue
- 1 of FDH04P ¼" NB Fibroflex Pneumo hose. Color: Yellow
- 1 of DCS0001 two pair comm's cable. Color: Red
- 1 of DCS0005 miniature TV cable. Color: Orange

Bell Excursion Umbilical for Bellman

Nominal Mechanical Properties:

| | |
|----------------------|----------------------|
| Finished diameter: | 40.0 mm \pm 3.0 mm |
| Weight in air: | 920 kg/km |
| Weight in sea-water: | -70 kg/km (note 1) |
| Minimum bend radius: | 260 mm (static) |
| Minimum bend radius: | 390 mm (dynamic) |

Note 1: Assumed sea-water density = 1,026 kg/m³

Assembly Detail:

- 1 of FDH08H ½" NB Fibroflex hot water hose. Color: Red
- 1 of FDH06G ¾" NB Fibroflex gas hose. Color: Blue
- 1 of FDH04P ¼" NB Fibroflex Pneumo hose. Color: Blue
- 1 of DCS0001 two pair comm's cable. Color: Red

Kirby Morgan 37 Helmet



The Kirby Morgan® 37 is similar to the SuperLite 27 but with a larger shell. It also includes our Quad-Valve™ Exhaust System.

The Kirby Morgan 37 Diving Helmet continues with our long tradition of providing the highest quality, and superior performance, that divers have come to expect in a Kirby Morgan product. The new Quad-Valve™ exhaust system, which retrofits to most previous Kirby Morgan Helmets, has less breathing resistance than the older single valve exhaust while providing an extremely dry hat. This system is recommended for diving in biologically contaminated water. Our SuperFlow® regulator is a proven design that provides excellent breathing characteristics over a wide range of depths. The Kirby Morgan 37 is one of the most popular designs in the world. It's considered the standard of the commercial diving industry. Choose the Kirby Morgan 37 if you want a rugged diving helmet with a traditional design.

KIRBY MORGAN EXO-BR

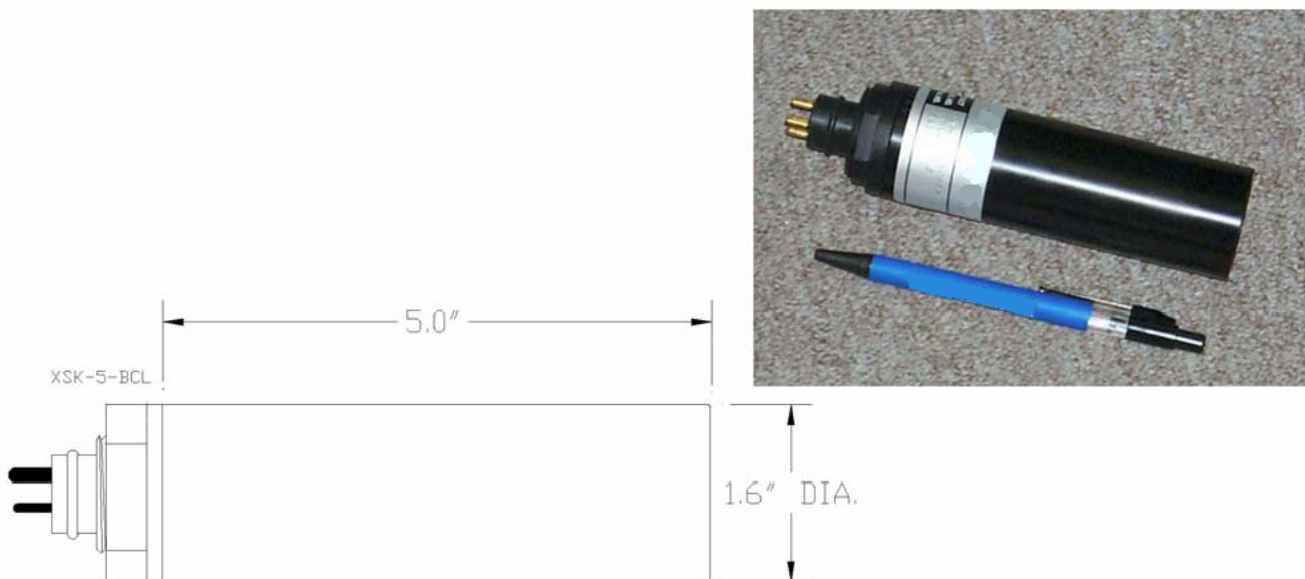


The EXO Full Face Mask was designed for both surface supplied and scuba diving.

By enclosing the diver's eyes, nose and mouth, the EXO permits nearly normal speech when used in conjunction with most wireless, and all hardwire underwater communication systems. Its light weight design allows divers to work long dives without jaw or neck fatigue. This mask has a modular communications design that permits rapid and simple maintenance. An optional Hard Shell gives added surfaces for mounting lights, cameras etc. The ear equalization device, a nose block which is adjustable to several different heights, fits a wide variety of noses and faces. The oral nasal helps keep the CO₂ levels to a minimum and improves breathing and communications.

Mini Cameras Model UWC-300/P, & 325/P

Helmet Mountable Underwater Color and Black & White Video Cameras



USES INCLUDE: HELMET MOUNT, MANIPULATOR ARM, HAND-HELD, DROP CAMERA, ETC.

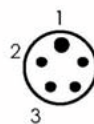
| MODEL# | UWC-300 (BLACK & WHITE) | UWC-325 (COLOR) |
|-----------------|--|---|
| Image Device | 1/3" Exview CCD Sensor 411,000, Pixels. | 1/3" Exview CCD Sensor 379,000 Pixels. |
| Sensitivity | .0003 lux @f1.2 | 0.01 lux |
| Resolution | 600 Horz. lines. | 480+ Horz. lines |
| PWR (12-24 VDC) | @ 110 ma. | @ 120 ma. |
| Lens | E-Iris, 3.6mm f1.4 | E-Iris, 3.6mm f1.4 |
| Horz. FOV | 70 deg. | 70 deg. |

MECHANICAL:

Length..... 5 in. (125mm)
(excluding connector).
Diameter..... 1.58 in. (40mm)
Weight..... Dry 6 oz. (.2kg)
Wet 3 oz. (.08kg)
Depth Rating..... 1000 ft. (300 m)
Housing..... Black Delrin

CONNECTOR:

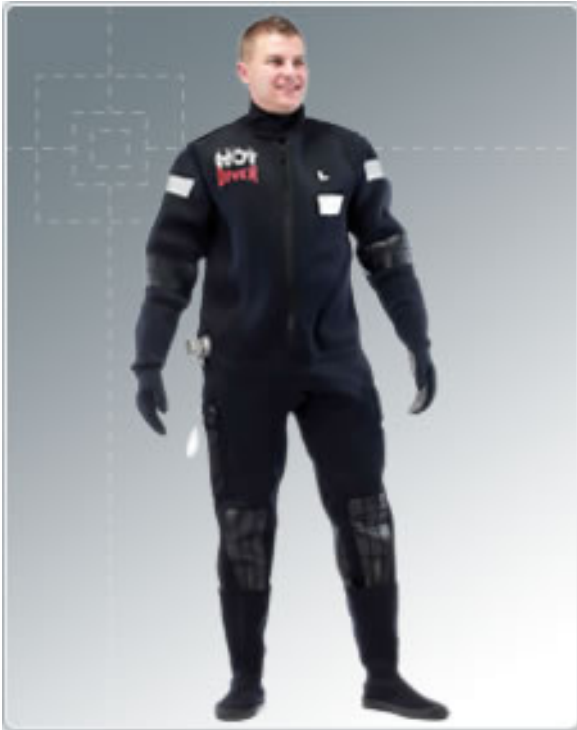
Standard Connector..... XSK-5-BCL
(Mate is RMK-5-FS)



OPTIONS:

1. Video (White)
 2. Ground/Common (Black)
 3. +12-24 VDC (Green)
-
1. CCIR (PAL) Format
 2. Customer specified connector
 3. Stainless housing, (2k & 6km)

Hot Water Suits



Developed over the past 20 years – The suit is based around a unique heavy anodized aluminum water distribution valve, with its unique 360 degree stainless steel quick-connector. The water flows along an anti-kink rubber pipe profile.

The pipes are held in place by a padded neoprene cover for comfort. All pipe runs are directed for comfort during those long bell runs.

The arms and legs can be trimmed to length and the pipe passed backwards through the ladder hole adjusters. There is the facility on the pipe, for the front chest and back neck, to take a hot water feed to the mask to heat the faceplate.

The suit is supplied with either a CPC ¼" quick-connect plastic coupling (male and female part) or a ¼" inline double-barb plastic connector.

The shell body is constructed from high grade non-shrink neoprene with a high rubber solids content, lined on the outside with a durable Swiss pique canvas fabric.

Suit Features:

- Polymer reinforced knee and shin pads. This and the adjacent polymer reinforced embossing which circles the legs in the calf area is ideal for duct and taping boots or socks to the suit.
- 2 deep pockets with drain holes and equipment attachment eyelets. On the right pocket is small safety knife (80mm blade) in a webbing sheath with bungee cord retaining lanyard.
- Suit closure is by a heavy-duty Vislon YKK zip, 6 teeth to the inch.
- Wrap-over neoprene neck with fleece lining.
- Velcro attached name patch for suit identification (2 supplied with suit).
- Neoprene shoulder epaulettes – can be used as shoulder harness retainers (prevents harness from slipping off the shoulders).
- Light reflective strips on upper arms.
- Plastic embossed elbow area which continues round the arm, which is ideal for duct taping gloves to the suit.
- Write area has two pieces of diagonal Velcro for glove attachment.

Available in
Sizes: S – M – ML – L – LR – LT
XL – XLT – XXL – XXLT

Dead Man Lift

Part#: AAI-595720



This is the easiest and quickest way to get your crewmember back onboard without the use of a winch. Lifting tackle has a 5:1 purchase, since powerboats generally lack winches, and a triple block with downward facing cam cleat for securing the line.

- Large carabiner snaps allow attachment to Dead Man Lift and vessel
- Includes 100' of 3/8" dacron braid, a vinyl storage bag and instructions

Dead Man Valve 76-500 Series Stainless Steel Ball Valve with Spring Return Handle



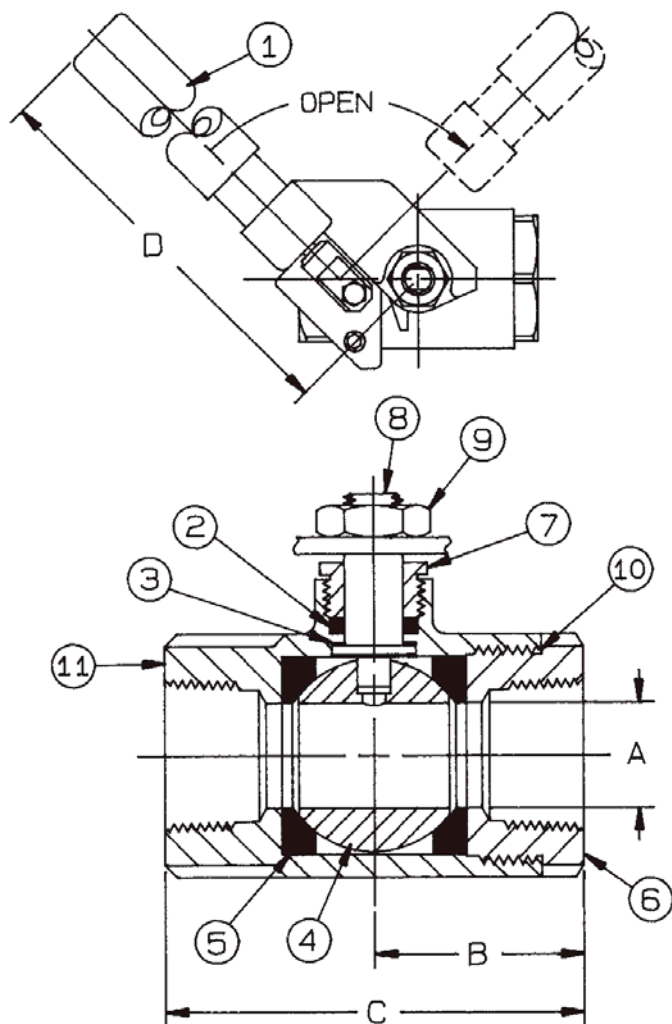
Threaded, 1/4" to 1" 2000 psig WOG, 1-1/4" to 2" 1500 psig WOG
Cold Non-Shock. 150 psig Saturated Steam,
Vacuum Service to 29 inches Hg.
Federal Specification: WW-V-35C, Type: II,
Composition: SS, Style: 3. MSS SP-110; Ball Valves Threaded,
Socket-Welding, Solder Joint, Grooved and Flared Ends.

Features:

- Spring return to close (-01)
- Spring return to open (-08)
- RPTFE seats and stuffing box ring
- All components of lever are stainless steel
- Operating torque is approximately three times standard valve torque
- Blow-out-proof stem design
- Adjustable packing gland
- Meets NACE MR-01-75
- Investment cast components

| Options Available: | | |
|--------------------|------------------------------------|------------|
| (SUFFIX) | OPTION | SIZES |
| -08- | 90° Reversed Stem | 1/4" to 2" |
| -14- | Side Vented Ball (Uni-Directional) | 1/4" to 2" |
| -21- | UHMWPE Seats (Non-PTFE) | 1/4" to 2" |
| -24- | Graphite Packing | 1/4" to 2" |
| -35- | VTFE Trim | 1/4" to 2" |
| -49- | Assembled Dry | 1/4" to 2" |
| -57- | Oxygen Cleaned | 1/4" to 2" |
| -60- | Grounded Ball & Stem | 1/4" to 2" |
| -P01- | BSPP (Parallel) Thread Connection | 1/4" to 2" |
| -T01- | BSPT (Tapered) Thread Connection | 1/4" to 2" |

Dead Man Valve Cont.



Standard Material List:

| | |
|-----------------|---|
| 1. Handle | SS w/vinyl |
| 2. Stem packing | Multifill PTFE |
| 3. Stem bearing | RPTFE |
| 4. Ball | A276-316 |
| 5. Seat (2) | Multifill PTFE |
| 6. Retainer | A276-316 (1/4" to 1") A351-CF8M (1-1/4" to 2") |
| 7. Gland nut | A276-316 |
| 8. Stem | A276-316 |
| 9. Lever nut | 18-8SS |
| 10. Body seal | PTFE (1-1/4" to 2") |
| 11. Body | A351-CF8M |

STAINLESS STEEL BALL VALVE WITH SPRING RETURN HANDLE

| NUMBER | SIZE | A | B | C | D | WT. |
|-----------|--------|------|------|------|------|------|
| 76-501-01 | 1/4" | .37 | 1.03 | 2.06 | 7.00 | 1.26 |
| 76-502-01 | 3/8" | .37 | 1.03 | 2.06 | 7.00 | 1.25 |
| 76-503-01 | 1/2" | .50 | 1.12 | 2.25 | 7.00 | 1.31 |
| 76-504-01 | 3/4" | .68 | 1.50 | 3.00 | 7.00 | 1.98 |
| 76-505-01 | 1" | .87 | 1.68 | 3.37 | 7.00 | 2.35 |
| 76-506-01 | 1-1/4" | 1.00 | 2.00 | 4.00 | 9.00 | 3.96 |
| 76-507-01 | 1-1/2" | 1.25 | 2.18 | 4.37 | 9.00 | 4.78 |
| 76-508-01 | 2" | 1.50 | 2.75 | 5.50 | 9.00 | 6.66 |

AAI SPECIFICATION FOR MAIN BELL UMBILICAL WITH GAS RECLAIM



Nominal Mechanical Properties:

| | |
|----------------------------|-------------|
| Overall Diameter: | 3.62" |
| Min. Bend Radius (static) | 22.6" |
| Min. Bend Radius (dynamic) | 34.0" |
| Weight in air | 4425 lb/kft |
| Weight in seawater* | -40 lb/kft |

*Assumes seawater SG @ 1.025
Hot water hose full

Details:

- 3/4" NB non collapse gas reclaim hose
- Comms/video cable comprising 6 x 75ohms coaxial cables, 3 x 16 awg screened twisted quads, 7 x 16 awg cores and 15 x 16 awg screened twisted pairs
- HDF0112 3/4" NB Flexflow gas hose
- HDF0108 1/2" NB Flexflow gas hose
- Power cable comprising 36 x 14 awg cores
- 5 x HDF0104 1/4" NB Flexflow pneumo hoses
- HDF0112 3/4" NB Flexflow hot water hose
- Polyethylene Braided jacket



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MAIN BELL UMBILICAL



Chinese Finger Standard Pulling Grips Model G

Model G – heavy duty grips manufactured of Hi-Fatigue plastic coated Aircraft Strand steel cable in a continuous quad weave process. Plastic coated strands increase the life of the grip, provide a bearing surface on underground pulls and increase the ease and safety of installation and removal for workmen. Patented pulling eye is flexible and stress relieving.



| Part No. | Size | Work Load | Approx. Brk. Strength | Weight | Weave | Mesh (M) | Eye (E) |
|----------|-------------------|---------------|-----------------------|-------------|--------|----------|---------------|
| G-QW-64 | 4 7/8"– 5 1/2" | 8,300 Lbs. | 24,900 lbs. | 9.6 lbs. | 4 wire | 64" | 6" Braided |

SATURATION DIVING SYSTEMS DIVISION

AAI COMMUNICATIONS POD

Part # AAI-SSCP-A

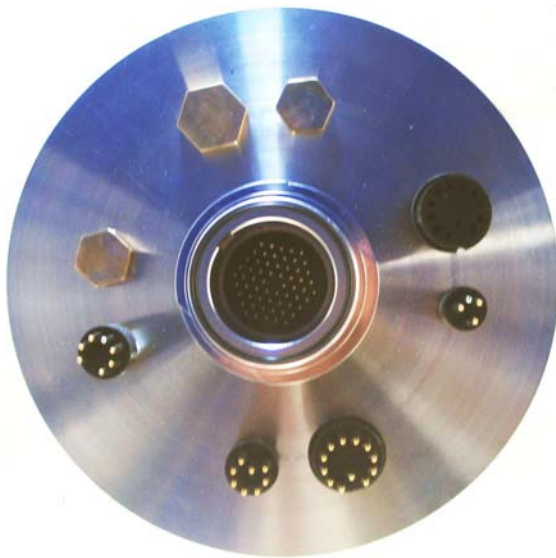
This communications pod is designed to serve as the distribution center for topside services through the diving bell umbilical. The unit is made to withstand external pressure, and the shell is fabricated from stainless steel material to provide protection from corrosive atmospheres. The pod attachment has u-bolts with a vulcanized rubber cushion that will allow mounting to the bell framework. The double canister allows easy access for maintenance on its internal components and wiring.



Pod



U-Bolt Attachment



Connector Detail

Distribution Features

| | | | |
|------------------|--|---------------------|--|
| 60 pin connector | Communication | | MSSQ60BCR-SSA |
| 12 pin connector | Communication | 5/8 | BH12F |
| 3 pin connector | Bell video | 7/16 | BH3M |
| 8 pin connector | Diver 1 &2 video | 5/8 | BH8M |
| 6 pin connector | Jumper | 5/8 | BH6M |
| 12 pin connector | Emergency Phone, Bell Signal Lights, Bellman's Comm. | 5/8 | BH12M |
| (3) plugs | Spare | 7/16 7/16 5/8 | AAI-7/16-20BHLWOR AAI-7/16-20BHLWOR AAI-5/8-18BHLWOR |

SATURATION DIVING SYSTEM DIVISION

AAI Battery Pod Part # AAI-SSBP-A



This Battery Pod is designed to provide emergency battery supply and serve as the distribution center for topside services through the diving bell umbilical. The unit is made to withstand external pressures and the shell is fabricated from stainless steel material to provide protection from corrosive atmospheres.



Battery Features:

Parallel Battery Bank
(6) 12 V 30 Amp/HR Gel Cell

DC Contactor
Optimum of 72 HR battery supply
in emergency conditions

Distribution Features

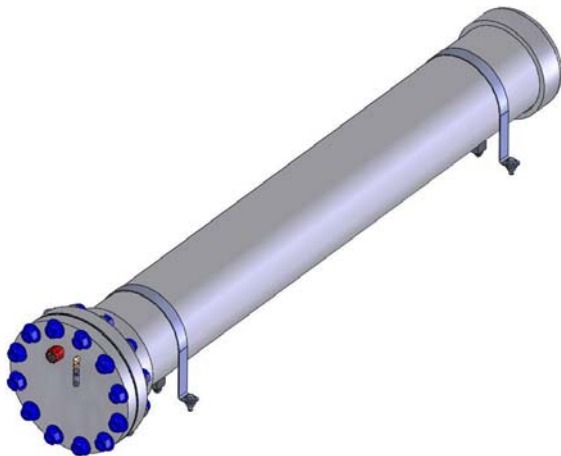
| | | | |
|------------------|------------------------|------|-------------|
| 36 pin connector | Power cable | | MSSQ 36 BCR |
| 8 pin connector | Wireless communication | 5/8 | BH85 |
| 6 pin connector | Jumper | 5/8 | BH6F |
| 3 pin connector | Snooper | 7/16 | BH3F |
| 8 pin connector | Helmet lighting | 5/8 | BH8F |
| 3 pin connector | Snooper | 7/16 | BH3F |
| (3) plug | Spare | 5/8 | |
| | | 5/8 | |
| | | 7/16 | |

SATURATION DIVING SYSTEM DIVISION



AAI HRC Battery Pod Part # AAI-PVCBP

This Battery Pod is designed to provide emergency battery supply. The unit is made to withstand water ingress and the shell is fabricated from PVC material to provide protection from corrosive atmospheres. It mounts on the HRC cage frame with quantity 2 SS U brackets. Unit comes with a charger mounted on the HRC but can also be charged by being hooked up with the umbilical to the rescue flyaway module.



Battery Features:

Parallel Battery Bank
(16) 12 V 26 Amp/HR Gel Cell

DC Contactor
Optimum of 36 HR battery supply
in emergency conditions.
Qty (2) required for 72 hours
service.

Distribution Features

| | | |
|------------------|---|-----------------------|
| Female Connector | 6-Point 5/8"-18 NF Thd. Sealed Female Connector | BH6F .625 in |
| Male Connector | 6-Point 5/8"-18 NF Thd. Sealed Male Connector | BH6M .625 in |
| Circuit Breaker | 30 Amp Short Stop Circuit Breaker | 72705 Circuit Breaker |
| Rectifier | SI, Industrial Rectifier, Stud Mount | NTE5994 Rectifier |

Birns Underwater Lights



SNOOPER

The Model 5567 **BIRNS Snooper** (NSN 6230-01-025-5628) is the world's most durable and dependable underwater light—many from the 1960's are still in use! Includes your choice of lamp, lens, and mount; available handgrip is now detachable, and the BIRNS Snooper can now mount on its new mounting boss for maximum space savings! Instant ON/OFF and hot-restrike capability; no ballast necessary. Detachable CEF3S power cable assembly. Excellent “white light” color.

The BIRNS Snooper features:

- **Extreme durability:** Bulletproof lens; reinforced, tempered cast body with mechanical impact protection and four sealing operations.
- **Brilliance:** Highly polished internal parabolic reflector, with high-output Tungsten-Halogen lamp in focal point
- **Versatility:** Options include 4 lenses, 3 mounts, and 6+ lamps



**SNOOPERWIDE
FLOODLIGHT**

The versatile **BIRNS Snooperwide** is available with 3 interchangeable beam angle lamps. The medium beam lamp gives a bright 90° coverage excellent for vehicles and TV. For powerful forward projection, the “spot” lamp provides a 25° angle and 75,000 center-beam candlepower, while the wide-angle lamp provides a 150° beam for close-up work.

The BIRNS Snooperwide Floodlight features:

- Extremely wide-angle underwater light
- Instant ON/OFF; ballast-free operation
- Brilliant illumination, true-white color
- 3 interchangeable beam angles

Bell External Lights

**1,000 METER DEPTH
RATING**

**VARIABLE BEAM
PATTERNS**

**AVAILABLE IN
ALUMINUM,
STAINLESS STEEL,
OR TITANIUM**

**COMPACT &
LIGHT WEIGHT**

**ECONOMICALLY
PRICED**



The **Multi SeaLite®** fills the void of high performance light at a reasonable price. The multitude of configurations makes this light truly multi-purpose. Options include three different reflectors, lamps in varying wattage and voltages, and four types of connectors.

Three different DeepSea-designed, user-interchangeable reflectors tailor the light's output from a spot to even, "hot spot"-free medium and wide angle flood beam patterns. An external lens retaining cowl protects the borosilicate glass dome and acts as a baffle to prevent stray light from entering the water column, thus minimizing backscatter. The **Multi SeaLite®** is 1,000 msw (3,280 fsw) rated and available in Aluminum, Stainless Steel, and Titanium housings. The aluminum version has a hard anodized body and an Ultern plastic cowl for increased corrosion resistance.

STROBE LIGHT LOCATION DEVICE



MF-1117 requires a customer own inline ON/OFF switch. High intensity xenon flash strobe light. Requires external power, 12-24V DC. Water resistant to IP 68. Flash rate: 90 flash per minute as standard. Clear lens as standard. Optional colour lenses available.

For marking and distress lights on top of masts or wheel houses, as an alert light in engine room or on deck, as an anti-collision light in harbours or to mark factory pipes or large antennas.

GlobalFix™ iPro 406 MHz GPS EPIRB

The all new GlobalFix™ iPRO Emergency Position Indicating Beacon (EPIRB) is the next generation in marine safety electronics. The GlobalFix™ iPRO is a breakthrough product that boasts a digital display and dual GPS technology.

GlobalFix™ iPRO sports a digital display that allows you to see all of the beacon's operational activities. The screen displays GPS LAT/ LON, operating instructions, usage tips, transmission bursts as well as battery power. iPRO makes self-testing your beacon simple and easy to understand with the digital display visually walking you through the self test step by step. No more relying on listening to beeps and LEDs.

The GlobalFix™ iPRO is also the first EPIRB that offers Dual GPS Technology. Interface your iPRO to your onboard GPS to ensure that your LAT/LON is stored inside so the coordinates are transmitted in the first data burst. iPRO's internal GPS is optimized for cold starts and is tested and refined at ACR's GPS Stimulation Center so that it will pin-point your exact location faster than standard GPS enabled EPIRBs.



| Specifications | |
|------------------------|--|
| Part Number | 2486.0 Category I, Class 2 / 2848.0 Category II, Class 2 |
| Digital Display | 1" diagonal (3.81 cm) resolution |
| Material | High impact UV resistant polymer |
| Waterproof | Tested to 10 min @ 33 ft. (10m) |
| Buoyant | Yes |
| Battery | Non-Hazmat lithium battery, Class 2 48 hrs minimum @ -4° F (-20° F) |
| Frequencies | 406 MHz with 121.5 MHz homing |
| Strobe | White, 1 effective candela Flash rate: 30 ± min |
| Approvals | FCC, COSPAS-SARSAT, USCG, MEO Meets IMO, GMOSS, RTCM standards |
| Warranty | 5 years |



PINGER RECEIVER LOCATION SYSTEMS

The DPR-275 Diver Operated Pinger Receiver is extremely rugged, reliable, and intended for use in the hostile marine environment. Used by both military and commercial customers worldwide, the DPR-275 can track and locate any underwater acoustic beacons operating between 5 to 80 kHz.

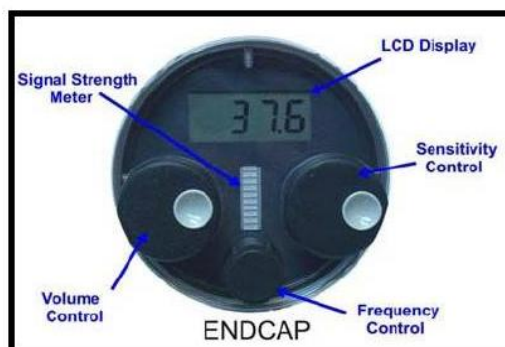
The DPR-275 Diver Pinger Receiver can be converted to operate from the surface quickly by removing the hydrophone for the DPR-275 and attaching it to the adjustable surface hydrophone assembly. The hydrophone's sensitivity and directionality allows the operator to swiftly and effectively navigate a vessel to any beacon source. Converting the DPR-275 back to a diver configuration completes the recovery operation.

The PRS-275 Pinger Receiver System consists of the DPR-275 Diver Pinger Receiver, Surface Hydrophone Housing, Staff Assembly, Underwater Headset, and Carrying Case.

SPECIFICATIONS

| | |
|----------------------------------|---|
| Frequency Range | 5 to 80 kHz |
| Bandwidth | 1 kHz |
| Sensitivity | 80db |
| Hydrophone Directivity | Typically 30° at 3db Limits |
| Transducer Beam Pattern | 30° @ 27Khz 25° @ 37.5Khz |
| LCD Display | Frequency and Low Battery Indication |
| LED Display | Signal Strength Meter |
| Power Source | Two Alkaline "C" Cells |
| Battery Life | 30 Hours |
| Hydrophone Staff Assembly | PVC, Length 5Ft, (152cm) |
| Hydrophone Cable Length | 20ft (6m) |
| Operating Depth | 660 ft (200 m) |
| Weight in Air | 6.5 lbs (2.9 kg) |
| Weight in Water | 12 oz. (190 gr) |
| Housing Material | Corrosion Resist Aluminum |
| Housing Dimension | Length 9.75 in. (24.8 cm) Diameter 4.5 in. (11.4 cm) |

Specifications are subject to change without notice



Operating the DPR-275 is simple!

- 1 The diver tunes in the frequency of the beacon to be located and adjusts the volume and sensitivity controls to the maximum position.
- 2 Then, the operator scans the area by moving the DPR-275 through the water while listening for the beacon's signal and monitoring the signal strength indicator.
- 3 Once a signal is detected, the operator adjusts the sensitivity control for optimal directionality to determine the pingers true bearing and then moves in the direction of the strongest signal.

PRS-275 PINGER RECEIVER LOCATION SYSTEM

- **DIVER OR SURFACE OPERATIONS IN ONE COMPLETE SYSTEM**
- **SMALL AND LIGHTWEIGHT**
- **SIGNAL STRENGTH INDICATOR**
- **DUAL HANDLE CONFIGURATION**
- **AUTO INVERTING DISPLAY**

The PRS-275 Pinger Receiver System uses the latest technology, versatility, and ease-of-use for locating and tracking underwater acoustic pingers. It is extremely rugged, reliable, and intended for use in the hostile marine environment. This system guides the user to acoustic pingers that operate between 5 to 80 kHz from either a small boat or by a diver in one complete system. The PRS-275 Pinger Receiver System consists of the DPR-275 Diver Pinger Receiver, Surface Hydrophone Housing, Staff Assembly, Underwater Headset, and Carrying Case.

Underwater or for the surface, operating the DPR-275 is simple. The operator tunes in the frequency of the pinger to be located, and adjusts the volume and sensitivity controls to maximum. Then, the operator scans the area by moving the DPR-275, or surface hydrophone assembly, through the water while listening for the pinger's signal, which is heard through the underwater headset as an audible "ping", and monitoring the signal strength indicator. Once a signal is detected, the operator adjusts the sensitivity control for optimal directionality to determine the pinger's true bearing and then moves in the direction of the strongest signal. Optional handle configurations for the DPR-275 insures the diver can swim long distances comfortably.

The DPR-275 Diver Pinger Receiver can be converted to operate from the surface quickly by removing the hydrophone for the DPR-275 and attaching it to the adjustable surface hydrophone assembly. The hydrophone's sensitivity and directionally allows the operator to swiftly and effectively navigate a vessel to any pinger source. Converting the DPR-275 back to a diver configuration completes the recovery operation.



SPECIFICATIONS

| | |
|---------------------------|---|
| Frequency Range | 5 to 80 kHz |
| Bandwidth | 1 kHz |
| Sensitivity | 80db |
| Hydrophone Directivity | Typically 30° at 3db Limits |
| Transducer Beam Pattern | 30° @ 27Khz 25° @ 37.5Khz |
| LCD Display | Frequency and Low Battery Indication |
| LED Display | Signal Strength Meter |
| Power Source | One Alkaline "C" Cell |
| Battery Life | 15 Hours |
| Hydrophone Staff Assembly | PVC, Length 5Ft, (152cm) |
| Hydrophone Cable Length | 20ft (6m) |
| Operating Depth | 660 ft. (200 m) |
| Weight in Air | 6.5 lbs (2.9 kg) |
| Weight in Water | 12 oz. (190 gr) |
| Housing Material | Corrosion Resist Aluminum |
| Housing Dimension | Length 9.75 in. (24.8 cm) Diameter 4.5 in. (11.4 cm) |

Specifications are subject to change without notice

ULB-364 SERIES UNDERWATER LOCATION BEACONS



The ULB-364 Series Underwater Location Beacon is a cost-effective acoustic relocation pinger designed for rigorous offshore use. Using off-the-shelf 9V alkaline or lithium batteries, the ULB-364 is ideal for marking underwater sites or equipment where cost is a factor.

Flexibility is a key factor in the design of the ULB-364 series beacons. The ULB-364 can be ordered to meet unique needs with options for different frequencies, acoustic outputs and different activation methods.

The ULB-364EL Extended Life Beacon is the right choice when deployment lengths are longer than 6 months. A longer housing which holds four additional 9 volt batteries extends the operational life of the ULB-364EL to 18 months.

ULB-364EL SPECIFICATIONS

| | |
|------------------|--|
| Frequencies* | 27, 37, 45kHz |
| Acoustic Output* | 0.125, 0.5, 2 Watts |
| Pulse Length | 5 ms |
| Pulse Repetition | 1 Pulse/Sec. |
| Activation | Battery Installation |
| Power Source | Six(6) 9V Alkaline or Six(6) 9V Lithium |
| Operating Depth | 4,125 feet (1,250 m) |
| Housing Material | Aluminum |
| Dimensions | |
| Length | 12.70 in. (32.20 cm) |
| Diameter | 2.50 in. (6.35 cm) |
| Battery Life | <u>0.125W</u> <u>0.5W</u> <u>2W</u> |
| 9V Alkaline | 150 Days 45 Days 16 Days |
| 9V Lithium | 350 Days 130 Days 48 Days |

**Specify at time of order*

*Note: Non-standard frequencies and acoustic power outputs available.
Specifications are subject to change without notice*



Radar Reflector for HRC

The Radar Reflector is a passive device. It provides a surface for radar to bounce from, generating a return which can clearly be seen on radar screens.

The Radar Reflector makes the floating Hyperbaric Rescue Chamber (HRC) more visible on radar and presents a more efficient signal.

- Extendable mast: 2ft – 4ft above water line
- Four – section pyramid type
- Aluminum – coated, USCG – orange
- Reduces navigational hazards



**1/3" COLOR BULLET D/N CAMERA
PART # WP-350C**



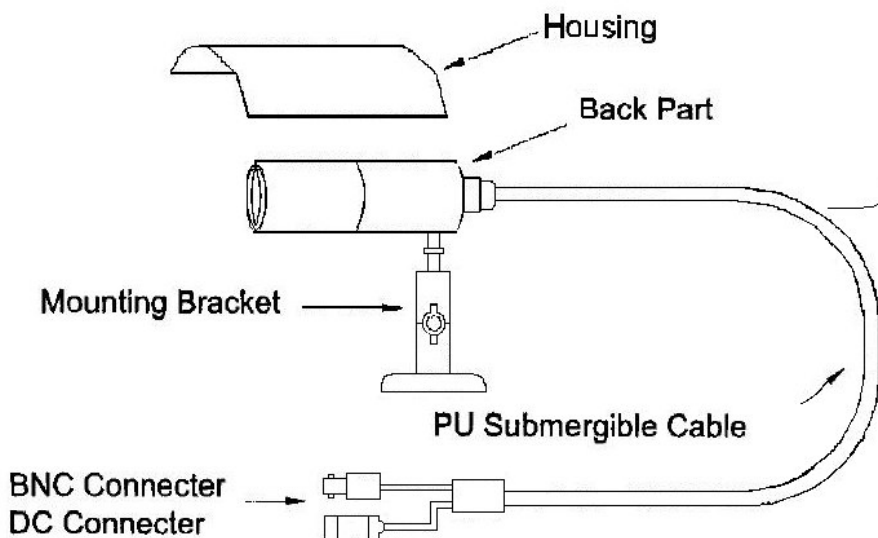
| | |
|--------------------------------|---|
| SENSOR | 1/3" SONY CHIP |
| NUMBER OF PIXELS | NTSC: 512(H)*492(V)/PAL :512(H)*582(V) |
| HORIZONTAL RESOLUTION | More than 420 TV line |
| SCANNING SYSTEM | 2:1 Interface |
| SENSITIVITY | 0.1 Lux / F1.2 |
| SYNCHRONIZATION | Internal |
| S/N RATIO | More than 48dB |
| GAMMA CORRECTION | D.45 |
| ELECTRONIC SHUTTER | Auto and up to 1/100,000 |
| VIDEO OUTPUT | 1 Vp-p. 75 Ohm Load |
| LENS | 3.6mm(standard), 4.3mm, 6mm, 8mm(option) |
| POWER SUPPLY | DC 12V (±10%) |
| POWER CONSUMPTION | 150mA ±10% under DC 12V |
| AUTO WHITE BALANCE | MCT-AWB (MULTI COLOR TEMPERATURE AWB) |
| AUTO GAIN CONTROL | Full Auto |
| BACK LIGHT COMPENSATION | Full Auto |
| APERTURE CORRECTION | 2H Mode of H.V aperture correction |
| DIMENSION L*W mm | 31mm*100mm |
| NET WEIGHT | 150g |
| STORAGE TEMPERATURE | -30 TO +60 Degree C |
| OPERATING TEMPERATURE | -10 TO +45 Degree C |

1/3" COLOR BULLET D/N CAMERA

WP-350C

Features:

- *High quality picture, aesthetic, and easy to install
The camera is a good complement for your line of CCTV system.
- *Auto Gain Control (AGC)
This AGC function provides a clear image in low light conditions.
- *Auto Exposure (AE)
Camera can use any light source condition.
- *Aperture Correction
Adding aperture correction makes the picture clearer.
- *Anti Color Rolling
Use the advanced technology to reduce color rolling under a fluorescent lamp.



- *Connect the power line and the video signal line, and check that the power is DC 12V and the monitor is on 75 Ohm state.
- *Turn on the power and then you can see the video displayed on the monitor.

CAUTION:

1. Please do not unscrew the camera, because it will cause malfunction of weatherproof.
2. Strong impacts may deform the unit and may cause malfunction of weatherproof.
3. Please use DC12V/350mA as the power supply to avoid heat damage or insufficiency of power.
4. If water or smoke enters the unit or lens, or if unusual heat or smells are found, please contact your distributor.
5. Designs and specifications are subject to change without notice.

1560ex Color Ex View CCD Weatherproof Bullet Camera



Need a high quality color bullet camera, but don't need infrared? This weatherproof, outdoor rated camera is packed with all the features you'll need in a compact, easy to mount package. Features aside, this camera uses a quality Sony ExView CCD element that will provide you with a great high quality picture with 420 lines of resolution! Plus, for low light conditions, this camera needs only 0.01 lux to operate! This camera includes an easy to mount base that will allow you to point your camera exactly where you want it.

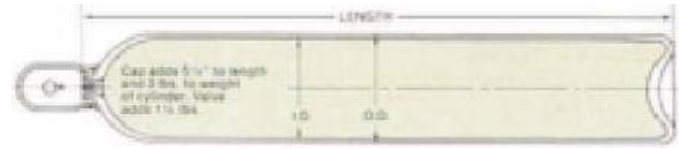
| Specifications | |
|-----------------------------|--------------------------------------|
| Image Sensor | 1/3" Sony High Resolution ExView CCD |
| Resolution | 420 TV Lines |
| Minimum Illumination | 0.01 Lux/F2.0 |
| Lens Furnished | F3.6mm @f2.0 |
| Power Supply | 12V DC |
| Power Consumption | 110mA |
| Electronic Shutter | 1/60 (1/50) to 1/100,000 sec. |
| Video Output | 1 Vp-p / 75 Ohms. |
| S/N ratio | More than 46dB |
| Scanning System | Interlace 2:1 |



High Pressure Gas Cylinders



Cylinders are manufactured to permit 10% overfilling in compliance w/ DOT regulations and are so marked (+) when specified by customer.



| Medical | | | | | | | | | | | | |
|-----------------------------|---------|--------------------|---------|--------|------|---|------------------|----------------|-----------------|------|----------------|------|
| NWSA Item Code Number | Type | Nominal Dimensions | | | | Nominal Weight Incl. Collar (Lbs) | Capacity | | | | Pressure (psi) | |
| | | | | | | | Gallons | | Water (cu. in.) | | | |
| | | ID | OD | Lgth. | Wall | | N ² O | O ² | Min | Max | Work | Test |
| 31622 | D Spun* | 3-15/16 | 4.220 | 16-3/4 | .115 | 9 | 250 | 95 | 171 | 180 | 2015 | 3360 |
| 32522 | E Spun* | 3-15/16 | 4.220 | 25-3/4 | .115 | 12-1/2 | 420 | 165 | 283 | 303 | 2015 | 3360 |
| 11022 | M | 6-5/8 | 7 | 43 | .190 | 62-1/2 | 2000 | 800 | 1320 | 1355 | 2015 | 3360 |
| 05122 | G | 8-1/2 | 8-1/2 | 51 | .205 | 96 | 3200 | 1400 | 2340 | 2400 | 2015 | 3360 |
| 22022 | H | 8-61/64 | 8-61/64 | 51 | .215 | 109 | | 1650 | 2640 | 2710 | 2015 | 3360 |

| Ultra High-Pressure | | | | | | | | | | |
|-----------------------|---------|--|--------------------|---------|--------|------|----------------------------------|---------------------|----------------|-------|
| NWSA Item Code Number | DOT 3AA | Approx. Nitrogen Capacity @70° (cu. ft.) | Nominal Dimensions | | | | Nominal Weight Incl Collar (lbs) | Min. Water Capacity | Pressure (PSI) | |
| | | | ID | OD | Length | Wall | | | Work | Test |
| 35023 | 3500 | 336 | 8-1/2 | 9-1/4 | 51 | .375 | 188 | 2640 | 3500 | 5840 |
| 36023 | 3600 | 345 | 8-1/2 | 9-1/4 | 51 | .375 | 188 | 2640 | 3500 | 6000 |
| 60023 | 6000 | 480 | 8-1/2 | 9-51/64 | 51 | .645 | 300 | 2579 | 6000 | 10000 |

| Industrial | | | | | | | | | | |
|-----------------------|--------------------------------------|--------------------|------------|--------|------|-----------------------------------|----------------|------|----------------|------|
| NWSA Item Code Number | Approx. Oxygen Cap. @ 70°F (cu. ft.) | Nominal Dimensions | | | | Nominal Weight Incl. (Collar lbs) | Water Capacity | | Pressure (psi) | |
| | | ID | OD | Length | Wall | | Min | Max | Work | Test |
| 02020 | 20 Spun* | 4-7/8 | 5.188 | 14-1/4 | .140 | 12-1/4 | 218 | 225 | 2015 | 3360 |
| 04020 | 40 Spun* | 6 | 6.3135-3/4 | 21 | .160 | 24 | 480 | 500 | 2015 | 3360 |
| 05520 | 55 Spun* | 5-1/2 | 5-3/4 | 32 | .156 | 30 | 660 | 696 | 2015 | 3360 |
| 08220 | 80 | 6-5/8 | 7 | 32-1/2 | .190 | 53 | 960 | 1010 | 2015 | 3360 |
| 09020 | 90 | 6-5/8 | 7-3/64 | 33-1/4 | .205 | 57 | 980 | 1030 | 2215 | 3700 |
| 11020 | 110 | 6-5/8 | 7 | 43 | .190 | 63 | 1320 | 1355 | 2015 | 3360 |
| 12520 | 125 | 6-5/8 | 7-3/64 | 43 | .205 | 69 | 1320 | 1355 | 2265 | 3775 |
| 15020 | 150 | 7 | 7-13/32 | 46-1/8 | .185 | 75 | 1630 | 1690 | 2015+ | 3360 |
| 16020 | 160 | 7 | 7-13/32 | 49 | .172 | 79 | 1740 | 1810 | 2015+ | 3360 |
| 22020 | 220 | 8-1/2 | 8-61/64 | 51 | .215 | 109 | 2640 | 2710 | 2015 | 3360 |
| 25020 | 250 | 8-1/2 | 9 | 51 | .240 | 120 | 2640 | 2710 | 2265 | 3775 |
| 30020 | 300 | 8-3/4 | 9-1/4 | 55 | .270 | 141 | 2990 | 3060 | 2400 | 4000 |
| 40020 | 400 | 10 | 10-5/8 | 56 | .310 | 191 | 3985 | 4066 | 2400 | 4000 |

*Furnished without collar and cap

NOTE – D & E Types furnished w/ 1/2-14 NGT internal thread, unless otherwise specified

All other cylinders furnished w/ 3/4-14 NGT internal thread, unless otherwise specified

Cylinder Cradle Assemblies

With many thousands in use throughout the United States, cylinder assemblies are a proven, field tested, task rated design for applications requiring high volume gas usage. These units provide the orderly grouping and manifold of single large cylinders. The cradling of cylinders makes a neat, compact, safe maneuverable gas supply that can be easily exchanged for re-charging. Designed to carry standard 244-330 cubic foot cylinders, these cradle assemblies are constructed of formed 7 gauge steel and are supplied with $\frac{3}{4}$ " diameter threaded tie down rods, heavy-duty hex nuts, drain out holes and have a 2000 lb maximum load capacity. Features a positive placement top that secures each cylinder at the collar, a double-welded $\frac{3}{4}$ " diameter bar formed with the new hard coat, gray enamel pain process. NOTE: When ordering any of the cylinder cradles below, the size and type of the cylinders to be mounted must be specified.

CB6-4



Height: 74" Depth: 28-3/4"
Width: 24" Weight: 136 lbs.

The CB6-4 is the most versatile six cylinder cradle on the market today. NO other equipment is needed to roll this unit on and off trucks, loading docks, etc. Designed to handle six 244 cubic foot cylinders and is equipped with two 6" x 2.00" double race, steel, swivel casters and two 6" x 2.00" steel, rigid casters with grease fittings.

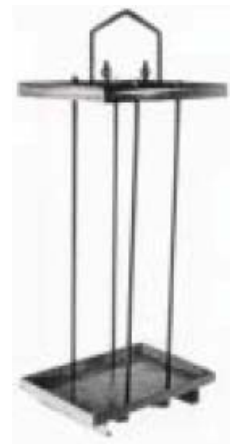
CB6-2



Height: 74" Depth: 28-3/4"
Width: 19-1/2" Weight: 129 lbs.

The CB6-2 carries six 244 cubic foot cylinders or six 330 cubic foot cylinders and is equipped with two 6" x 2.00" steel, rigid casters with grease fittings for use with a separate lever action third wheel assembly. **The lift and pull pin dimension must be specified as 5th wheel assemblies vary in size**

CB-6



Height: 66" Depth: 28-3/4"
Width: 19-1/2" Weight: 121 lbs.

The CB-6 will handle six 244 cubic foot cylinders or six 330 cubic foot cylinders and is designed for shipping or stationary use. This unit has no casters; can be lifted with a forklift.

CB12-4



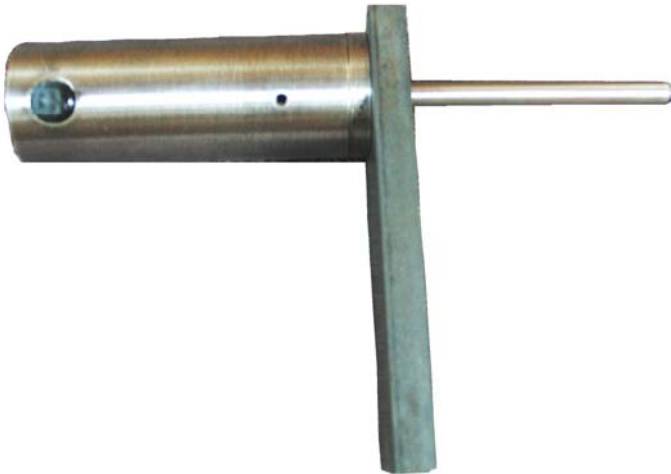
Height: 74" Depth: 38-1/2"
Width: 28-3/4" Weight: 196 lbs.

The CB12-4 carries twelve 244 cubic foot cylinders and is equipped with two 6" x 2.00" double race, steel, swivel casters and two 6" x 2.00" steel, rigid casters with grease fittings.



INTERLOCK RAM

Part number AAI-IR-500 or AAI-IR500.716



The AAI Interlock Ram is a positive safety locking and unlocking device used in securing closures designed with double yokes. The cylinder is stainless steel with an internal spring-loaded brass piston and a 7/16" diameter shaft. Max air pressure of 500 PSI is used to operate the cylinder. The unit comes with 1/2" thick mounting plate.

Weight: 2 ¼ lbs.
Stroke – 2"
Port ¼" FNPT

Working Pressure: 500 psi
Dimensions - Inches
Material TH 174 HH 1150 SS

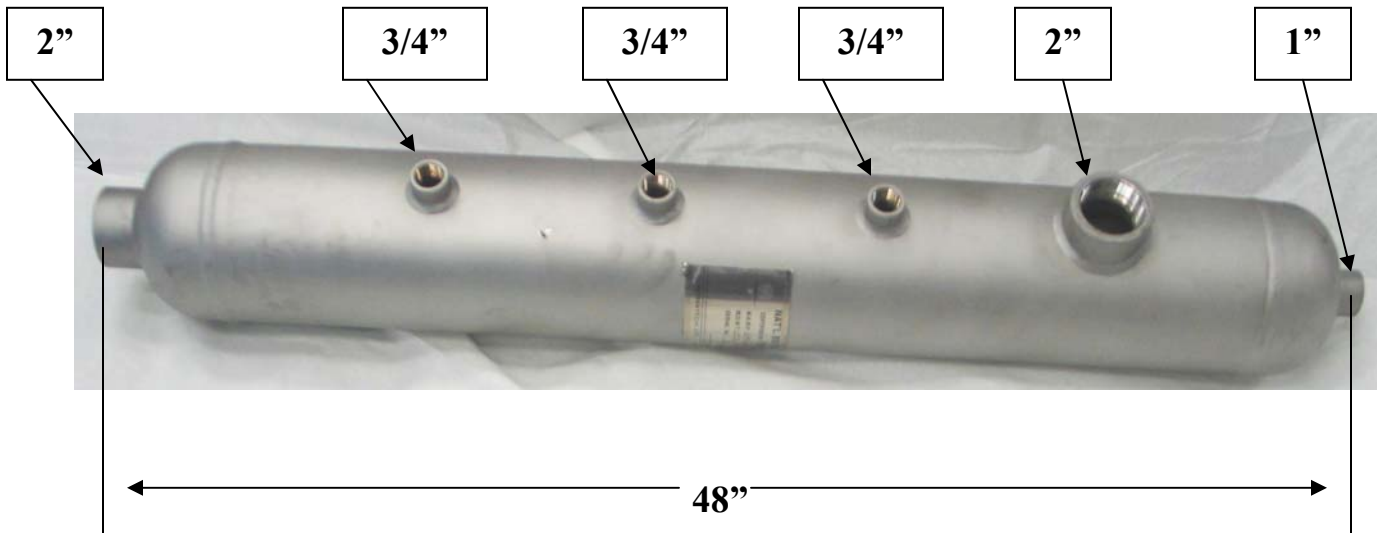
AAI Ordering Information:

**AAI-IR500.....INTERLOCK RAM - 1/2" DIAMETER ROD, COMPLETE
WITH 1/2" THICK MOUNTING PLATE**

**AAI-IR500.716.....INTERLOCK RAM - 7/16" DIAMETER ROD, COMPLETE
WITH 1/2"**

AAI SEWERAGE RECEIVING TANK

Part. AAI-SS-6"VST



Model T-1495

Type SS-312

600psi - 450 F

5 Gallon Capacity

OPENINGS: 2 – 2” Female Couplings
3 – ¾” Female Couplings
1 – 1” Female Couplings

The AAI sewerage receiving tanks can be mounted horizontally or vertically.

RC-Series, Single-Acting Cylinders

ENERPAC
Hydraulic Technology Worldwide

▼ From left to right: RC-506, RC-50, RC-2510, RC-154, RC-10010, RC-55, RC-1010



- Collar threads, plunger threads and base mounting holes enable easy fixturing (on most models)
- Designed for use in all positions
- Removable strap handles for unobstructed fixturing (RC-5013, RC-7513 and both 95 ton models)
- High strength alloy steel for durability
- Heavy duty return springs
- Baked enamel finish for increased corrosion resistance
- CR-400 coupler and dust cap included on all models
- Plunger wiper reduces contamination, extending cylinder life

▼ Stage lifting set up in Greece, where assembled pipes, 25 meters in length, were stage lifted with six RC-2514 cylinders.



The Industry Standard General Purpose Cylinder



Saddles

All RC cylinders are equipped with hardened removable grooved saddles. For tilt and flat saddles, see the RC-Series accessory page.



Base Plates

To ensure the stability of cylinders for lifting applications, base plates are available for 10, 25 and 50 ton RC cylinders.



Specialty Attachments

For solving all kinds of application problems, specialty attachments are available for 5, 10 and 25 ton RC cylinders.

▼ RC cylinder mounting attachments greatly extend the application possibilities (available for 5, 10, 15 and 25 ton cylinders).




Single-Acting, General Purpose Cylinders

80% Think Safety
Manufacturer's rating of load and stroke are maximum safe limits.
Good practice encourages using only 80% of these ratings.

▼ QUICK SELECTION CHART

For complete technical information see next page.

| Cylinder Capacity ton (kN) | Stroke (mm) | Model Number | Cylinder Effective Area (cm ²) | Oil Capacity (cm ³) | Collapsed Height (mm) |  (kg) |
|----------------------------------|----------------|--------------|---|------------------------------------|--------------------------|---|
| 5 (45) | 16 | RC-50** | 6,5 | 10 | 41 | 1,0 |
| | 25 | RC-51 | 6,5 | 16 | 110 | 1,0 |
| | 76 | RC-53 | 6,5 | 50 | 165 | 1,5 |
| | 127 | RC-55* | 6,5 | 83 | 215 | 1,9 |
| | 177 | RC-57 | 6,5 | 115 | 273 | 2,4 |
| | 232 | RC-59 | 6,5 | 151 | 323 | 2,8 |
| 10 (101) | 26 | RC-101 | 14,5 | 38 | 89 | 1,8 |
| | 54 | RC-102* | 14,5 | 78 | 121 | 2,3 |
| | 105 | RC-104 | 14,5 | 152 | 171 | 3,3 |
| | 156 | RC-106* | 14,5 | 226 | 247 | 4,4 |
| | 203 | RC-108 | 14,5 | 294 | 298 | 5,4 |
| | 257 | RC-1010* | 14,5 | 373 | 349 | 6,4 |
| | 304 | RC-1012 | 14,5 | 441 | 400 | 6,8 |
| | 356 | RC-1014 | 14,5 | 516 | 450 | 8,2 |
| 15 (142) | 25 | RC-151 | 20,3 | 51 | 124 | 3,3 |
| | 51 | RC-152 | 20,3 | 104 | 149 | 4,1 |
| | 101 | RC-154* | 20,3 | 205 | 200 | 5,0 |
| | 152 | RC-156* | 20,3 | 308 | 271 | 6,8 |
| | 203 | RC-158 | 20,3 | 411 | 322 | 8,2 |
| | 254 | RC-1510 | 20,3 | 516 | 373 | 9,5 |
| | 305 | RC-1512 | 20,3 | 619 | 423 | 10,9 |
| | 356 | RC-1514 | 20,3 | 723 | 474 | 11,8 |
| 25 (232) | 26 | RC-251 | 33,2 | 86 | 139 | 5,9 |
| | 50 | RC-252* | 33,2 | 166 | 165 | 6,4 |
| | 102 | RC-254* | 33,2 | 339 | 215 | 8,2 |
| | 158 | RC-256* | 33,2 | 525 | 273 | 10,0 |
| | 210 | RC-258 | 33,2 | 697 | 323 | 12,2 |
| | 261 | RC-2510 | 33,2 | 867 | 374 | 14,1 |
| | 311 | RC-2512 | 33,2 | 1033 | 425 | 16,3 |
| | 362 | RC-2514* | 33,2 | 1202 | 476 | 17,7 |
| 30 (295) | 209 | RC-308 | 42,1 | 880 | 387 | 18,1 |
| | 51 | RC-502 | 71,2 | 362 | 176 | 15,0 |
| | 101 | RC-504 | 71,2 | 719 | 227 | 19,1 |
| 50 (498) | 159 | RC-506* | 71,2 | 1131 | 282 | 23,1 |
| | 337 | RC-5013 | 71,2 | 2399 | 460 | 37,6 |
| 75 (718) | 156 | RC-756 | 102,6 | 1601 | 285 | 29,5 |
| | 333 | RC-7513 | 102,6 | 3417 | 492 | 59,0 |
| 95 (933) | 168 | RC-1006 | 133,3 | 2239 | 357 | 59,0 |
| | 260 | RC-10010 | 133,3 | 3466 | 449 | 72,6 |

* Available as set, see note on this page.

** RC-50 cylinder has a non removable grooved saddle and no collar thread.

RC Series



Capacity:

5 - 95 ton

Stroke:

16 - 362 mm

Maximum Operating Pressure:

700 bar



Ultra-Lightweight Aluminium Cylinders

If you need a higher cylinder capacity-to-weight-ratio the RAC-Series are the perfect choice.



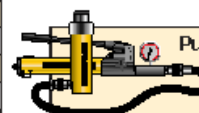
High Temperature and Corrosion Resistant Cylinders

Some cylinders are available with Viton seals and nickel plating for use in extreme environments.



Gauges

Minimize the risk of overloading and ensure long, dependable service from your equipment. Refer to the System Components Section for a full range of gauges.



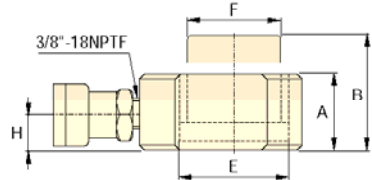
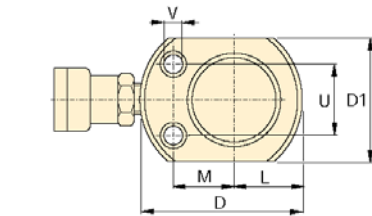
Pump and Cylinder Sets

All cylinders marked with an * are available as sets (cylinder, gauge, couplers, hose and pump) for your ordering convenience.

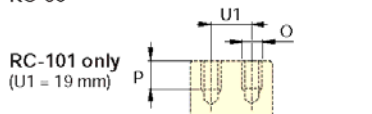
ENERPAC

RC-Series, Single-Acting Cylinders

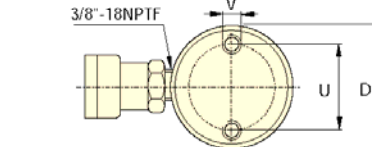
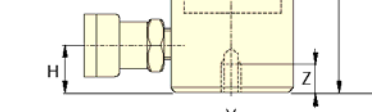
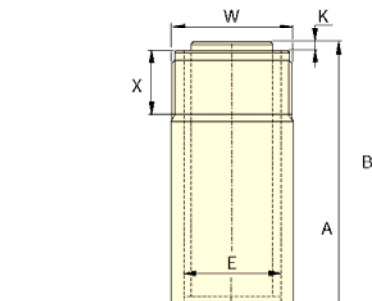
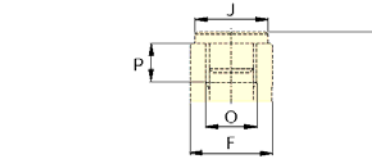
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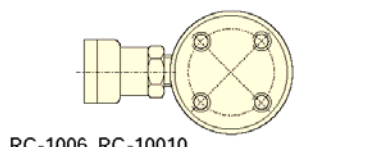
RC-50



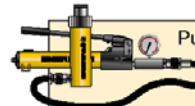
RC-101 only
(U1 = 19 mm)



RC-51 - RC-7513



RC-1006, RC-10010



Pump and Cylinder Sets

All cylinders marked with an * are available as sets (cylinder, gauge, couplers, hose and pump) for your ordering convenience.

◀ For full features see previous page.

| Cylinder Capacity ton (kN) | Stroke (mm) | Model Number | Cylinder Effective Area (cm ²) | Oil Capacity (cm ³) | Collapsed Height A (mm) | Extended Height B (mm) | Outside Dia. D (mm) |
|----------------------------------|----------------|--------------|---|------------------------------------|-------------------------------|------------------------------|---------------------------|
| 5 (45) | 16 | RC-50** | 6,5 | 10 | 41 | 57 | 58*** |
| | 25 | RC-51 | 6,5 | 16 | 110 | 135 | 38 |
| | 76 | RC-53 | 6,5 | 50 | 165 | 241 | 38 |
| | 127 | RC-55* | 6,5 | 83 | 215 | 342 | 38 |
| | 177 | RC-57 | 6,5 | 115 | 273 | 450 | 38 |
| | 232 | RC-59 | 6,5 | 151 | 323 | 555 | 38 |
| 10 (101) | 26 | RC-101 | 14,5 | 38 | 89 | 115 | 57 |
| | 54 | RC-102* | 14,5 | 78 | 121 | 175 | 57 |
| | 105 | RC-104 | 14,5 | 152 | 171 | 276 | 57 |
| | 156 | RC-106* | 14,5 | 226 | 247 | 403 | 57 |
| | 203 | RC-108 | 14,5 | 294 | 298 | 501 | 57 |
| | 257 | RC-1010* | 14,5 | 373 | 349 | 606 | 57 |
| | 304 | RC-1012 | 14,5 | 441 | 400 | 704 | 57 |
| | 356 | RC-1014 | 14,5 | 516 | 450 | 806 | 57 |
| 15 (142) | 25 | RC-151 | 20,3 | 51 | 124 | 149 | 69 |
| | 51 | RC-152 | 20,3 | 104 | 149 | 200 | 69 |
| | 101 | RC-154* | 20,3 | 205 | 200 | 301 | 69 |
| | 152 | RC-156* | 20,3 | 308 | 271 | 423 | 69 |
| | 203 | RC-158 | 20,3 | 411 | 322 | 525 | 69 |
| | 254 | RC-1510 | 20,3 | 516 | 373 | 627 | 69 |
| | 305 | RC-1512 | 20,3 | 619 | 423 | 728 | 69 |
| | 356 | RC-1514 | 20,3 | 723 | 474 | 830 | 69 |
| 25 (232) | 26 | RC-251 | 33,2 | 86 | 139 | 165 | 85 |
| | 50 | RC-252* | 33,2 | 166 | 165 | 215 | 85 |
| | 102 | RC-254* | 33,2 | 339 | 215 | 317 | 85 |
| | 158 | RC-256* | 33,2 | 525 | 273 | 431 | 85 |
| | 210 | RC-258 | 33,2 | 697 | 323 | 533 | 85 |
| | 261 | RC-2510 | 33,2 | 867 | 374 | 635 | 85 |
| | 311 | RC-2512 | 33,2 | 1033 | 425 | 736 | 85 |
| | 362 | RC-2514* | 33,2 | 1202 | 476 | 838 | 85 |
| 30 (295) | 209 | RC-308 | 42,1 | 880 | 387 | 596 | 101 |
| 50 (498) | 51 | RC-502 | 71,2 | 362 | 176 | 227 | 127 |
| | 101 | RC-504 | 71,2 | 719 | 227 | 328 | 127 |
| | 159 | RC-506* | 71,2 | 1131 | 282 | 441 | 127 |
| | 337 | RC-5013 | 71,2 | 2399 | 460 | 797 | 127 |
| 75 (718) | 156 | RC-756 | 102,6 | 1601 | 285 | 441 | 146 |
| | 333 | RC-7513 | 102,6 | 3417 | 492 | 825 | 146 |
| 95 (933) | 168 | RC-1006 | 133,3 | 2239 | 357 | 525 | 177 |
| | 260 | RC-10010 | 133,3 | 3466 | 449 | 709 | 177 |

* Available as set, see note on this page.

** RC-50 cylinder has a non removable grooved saddle and no collar thread.

*** D1 = 41 mm, L = 20 mm, M = 25 mm.

Single-Acting, General Purpose Cylinders



Speed Chart

See the Enerpac Cylinder Speed Chart in our 'Yellow Pages' to determine your approximate cylinder speed.

Capacity:

5 -95 ton

Stroke:


16 -362 mm

Maximum Operating Pressure:

700 bar

RC Series






| Cylinder Bore Dia. E (mm) | Plunger Dia. F (mm) | Base to Adv. Port H (mm) | Saddle Dia. J (mm) | Saddle Protr. from Plgr. K (mm) | Plunger Internal Thread O | Plunger Thread Length P (mm) | Base Mounting Holes | | | Collar Thread W | Collar Thread Length X (mm) |  (kg) | Model Number |
|---------------------------------|---------------------------|--------------------------------|--------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------|--------------|-------------------------|--------------------|-----------------------------------|--|--------------|
| | | | | | | | Bolt Circle U (mm) | Thread V | Thd. Depth Z (mm) | | | | |
| 28,7 | 25,4 | 19 | ** | ** | ** | ** | 28 | 5,6 mm | — | — | — | 1,0 | RC-50** |
| 28,7 | 25,4 | 19 | 25 | 6 | 3/4" - 16 | 14 | 25 | 1/4" - 20UN | 14 | 1 1/2" - 16 | 28 | 1,0 | RC-51 |
| 28,7 | 25,4 | 19 | 25 | 6 | 3/4" - 16 | 14 | 25 | 1/4" - 20UN | 14 | 1 1/2" - 16 | 28 | 1,5 | RC-53 |
| 28,7 | 25,4 | 19 | 25 | 6 | 3/4" - 16 | 14 | 25 | 1/4" - 20UN | 14 | 1 1/2" - 16 | 28 | 1,9 | RC-55* |
| 28,7 | 25,4 | 19 | 25 | 6 | 3/4" - 16 | 16 | 25 | 1/4" - 20UN | 14 | 1 1/2" - 16 | 28 | 2,4 | RC-57 |
| 28,7 | 25,4 | 19 | 25 | 6 | 3/4" - 16 | 16 | 25 | 1/4" - 20UN | 14 | 1 1/2" - 16 | 28 | 2,8 | RC-59 |
| 42,9 | 38,1 | 19 | — | — | #10 - 24UN | 6 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 26 | 1,8 | RC-101 |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 28 | 2,3 | RC-102* |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 26 | 3,3 | RC-104 |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 28 | 4,4 | RC-106* |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 26 | 5,4 | RC-108 |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 28 | 6,4 | RC-1010* |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 26 | 6,8 | RC-1012 |
| 42,9 | 38,1 | 19 | 35 | 6 | 1" - 8 | 19 | 39 | 5/16" - 18UN | 12 | 2 1/4" - 14 | 26 | 8,2 | RC-1014 |
| 50,8 | 41,4 | 19 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 3,3 | RC-151 |
| 50,8 | 41,4 | 19 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 4,1 | RC-152 |
| 50,8 | 41,4 | 19 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 5,0 | RC-154* |
| 50,8 | 41,4 | 25 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 6,8 | RC-156* |
| 50,8 | 41,4 | 25 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 8,2 | RC-158 |
| 50,8 | 41,4 | 25 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 9,5 | RC-1510 |
| 50,8 | 41,4 | 25 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 10,9 | RC-1512 |
| 50,8 | 41,4 | 25 | 38 | 9 | 1" - 8 | 25 | 47 | 3/8" - 16UN | 12 | 2 3/4" - 16 | 30 | 11,8 | RC-1514 |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 19 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 5,9 | RC-251 |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 6,4 | RC-252* |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 8,2 | RC-254* |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 10,0 | RC-256* |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 12,2 | RC-258 |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 14,1 | RC-2510 |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 16,3 | RC-2512 |
| 65,0 | 57,2 | 25 | 50 | 10 | 1 1/2" - 16 | 25 | 58 | 1/2" - 13UN | 19 | 3 5/16" - 12 | 49 | 17,7 | RC-2514* |
| 73,2 | 57,2 | 57 | 50 | 10 | 1 1/2" - 16 | 25 | — | — | — | 3 5/16" - 12 | 49 | 18,1 | RC-308 |
| 95,2 | 79,5 | 33 | 71 | 2 | — | — | 95 | 1/2" - 13UN | 19 | 5" - 12 | 55 | 15,0 | RC-502 |
| 95,2 | 79,5 | 33 | 71 | 2 | — | — | 95 | 1/2" - 13UN | 19 | 5" - 12 | 55 | 19,1 | RC-504 |
| 95,2 | 79,5 | 35 | 71 | 2 | — | — | 95 | 1/2" - 13UN | 19 | 5" - 12 | 55 | 23,1 | RC-506* |
| 95,2 | 79,5 | 35 | 71 | 2 | — | — | 95 | 1/2" - 13UN | 19 | 5" - 12 | 55 | 37,6 | RC-5013 |
| 114,3 | 95,2 | 30 | 71 | 5 | — | — | — | — | — | 5 3/4" - 12 | 44 | 29,5 | RC-756 |
| 114,3 | 95,2 | 30 | 71 | 5 | — | — | — | — | — | 5 3/4" - 12 | 44 | 59,0 | RC-7513 |
| 130,3 | 104,9 | 41 | 71 | 2 | — | — | 139 | 3/4" - 10UN | 25 | 6 7/8" - 12 | 44 | 59,0 | RC-1006 |
| 130,3 | 104,9 | 41 | 71 | 2 | — | — | 139 | 3/4" - 10UN | 25 | 6 7/8" - 12 | 44 | 72,6 | RC-10010 |

ENERPAC®

RC-Series, Cylinder Accessories



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▼ SELECTION CHART

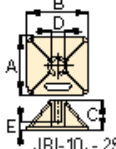
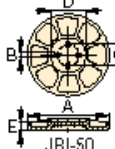
| For use with Cylinder Capacity ton (kN) | Saddles | | | Base Plate | Mounting Block | Clevis Eyes | |
|---|---|---|---|------------|---|---|---|
| | Flat | Grooved ¹⁾ | Tilt | | | Base ²⁾ | Plunger |
| |  |  |  | | |  |  |
| 5 (45) | A-53F ³⁾ | A-53G ³⁾ | - | - | RB-5 ⁴⁾ AW-51 ⁴⁾ , AW-53 ⁴⁾ | REB-5 ⁴⁾ | REP-5 ⁴⁾ |
| 10 (101) | A-12 ³⁾ , A-102F ³⁾ | A-102G ³⁾ | CAT-10 ³⁾ | JB1-10 | RB-10, AW-102 | REB-10 | REP-10 ³⁾ |
| 15 (142) | - | A-152G | CAT-10 | - | RB-15 | REB-15 | REP-10 |
| 25 (232) | A-29 ³⁾ | A-252G | CAT-50 | JB1-25 | RB-25 | REB-25 | REP-25 |
| 30 (295) | A-29 ³⁾ | A-252G | CAT-50 | - | RB-25 | - | REP-25 |
| 50 (498) | - | - | CAT-100 | JB1-50 | - | - | - |
| 75 (718) | - | - | CAT-100 | - | - | - | - |
| 95 (933) | - | - | CAT-100 | - | - | - | - |


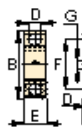
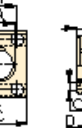
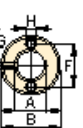
¹⁾ Standard on 5-30 ton RC-cylinders ²⁾ Except RC-50 ³⁾ Except RC-101 ⁴⁾ Mounting screws are included. ⁵⁾ Used with Bender Sets.

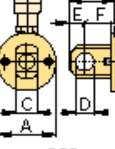
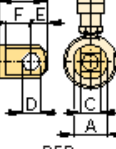
▼ DIMENSION CHARTS

| Model Nr. | Saddle Dimensions (mm) | | | A-53F, A-102F |  |
|-----------|------------------------|----|-----------|------------------|---|
| | A | B | C | | |
| | Flat | | | | |
| A-53F | 25 | 6 | 17 | A-12, A-29 |  |
| A-102F | 35 | 6 | 22 | | |
| A-12 | 51 | 48 | 1"-8UNC | | |
| A-29 | 51 | 48 | 1½"-16UNC | | |
| Grooved | | | | | |
| A-53G | 25 | 6 | 17 | | |
| A-102G | 35 | 6 | 22 | | |
| A-152G | 38 | 9 | 22 | | |
| A-252G | 50 | 9 | 35 | | |

| Model Nr. | Tilt Saddle Dimensions (mm) | | |  |
|-----------|-----------------------------|----|----|---|
| | A | B | C | |
| | Tilt | | | |
| CAT-10 | 35 | 15 | 22 |  |
| CAT-50 | 50 | 23 | 35 | |
| | | | | |
| | | | | |
| Tilt | | | | |
| CAT-100 | 71 | 24 | - | |
| | | | | |
| | | | | |
| | | | | |

| Model Nr. | Base Plate Dimensions (mm) | | | | | Diagram |
|-----------|----------------------------|-----|-----|-----|----|---|
| | A | B | C | D | E | |
| JB1-10 | 228 | 228 | 135 | 58 | 20 |  |
| JB1-25 | 279 | 279 | 140 | 86 | 26 | |
| JB1-50 | 304 | 15 | 95 | 131 | 31 |  |

| Model Nr. | Mounting Block Dimensions (mm) | | | | | | | | Diagram |
|-----------|--------------------------------|-----|-----|----|----|----|----------|----|---|
| | A | B | C | D | E | F | G | H | |
| RB-5 | 1 1/2"-16 | 88 | 76 | - | 25 | - | - | - |  |
| AW-51 | 1 1/2"-16 | 70 | 89 | 10 | 24 | 54 | 1/4"-20 | 41 | |
| AW-53 | 1 1/2"-16 | 72 | 7 | 7 | 19 | 57 | 1/4"-20 | 10 |  |
| RB-10 | 2 1/4"-14 | 114 | 88 | - | 25 | - | - | - | |
| AW-102 | 2 1/4"-14 | 100 | 82 | 16 | 30 | 76 | 7/16"-20 | 58 |  |
| RB-15 | 2 3/4"-16 | 101 | 114 | - | 38 | - | - | - | |
| RB-25 | 3 5/16"-12 | 127 | 165 | - | 50 | - | - | - |  |

| Type | Model Nr. | Clevis Eye Dimensions (mm) | | | | | | Diagram |
|--------------------|-----------|----------------------------|----|----|----|----|----|---|
| | | A | B | C | D | E | F | |
| Base ²⁾ | REB-5 | 44 | 47 | 14 | 16 | 16 | 25 |  |
| | REB-10 | 63 | 66 | 25 | 22 | 25 | 35 | |
| | REB-15 | 76 | 66 | 25 | 22 | 25 | 35 | |
| | REB-25 | 95 | 79 | 38 | 31 | 31 | 41 | |
| Plunger | REP-5 | 28 | 41 | 14 | 16 | 16 | 19 |  |
| | REP-10 | 42 | 61 | 25 | 22 | 25 | 28 | |
| | REP-25 | 57 | 74 | 38 | 31 | 31 | 35 | |

i See our
'Yellow Pages'
for application
information
on these
accessories.

Hand Pumps

▼ Shown from left to right: P-84, P-80, P-462, P-39



- Two-speed operation for reduced operator fatigue (except P-39)
- 4-way valving on the P-84 and P-464 for operation of double-acting cylinders
- External load release valve on remaining models for single-acting cylinder operation
- Internal pressure relief valve for overload protection
- Large oil capacity to power a wide range of cylinders or tools

▼ In the absence of a power supply, the P-80 Hand Pump offers a powerful solution.



The Solution for Tough Jobs



Two Speed

Recommended for applications where cylinder plunger must advance rapidly to contact load, and applications where greater oil capacities are required, such as multiple cylinder hook-ups.



Foot Pump Conversion Kits

Convert your P-39 to foot power with the **PC-10 Kit**. Includes instructions for easy conversion.



Gauges

Minimize the risk of overloading and ensure long, dependable service from your equipment. Refer to the System Components section for a full range of gauges.



4-Way Control Valve

P-84 and P-464 feature a manual 4-way control valve, designed for use with one double-acting or two single-acting cylinders. For system set-up information:

| Pump Type | Usable Oil Capacity (in ³) | Model Number | Pressure Rating* | | Oil Displacement per Stroke (in ³) | | Max. Handle Effort (lbs) |
|-----------|---|--------------|-----------------------|-----------------------|---|-----------------------|-----------------------------|
| | | | 1 st stage | 2 nd stage | 1 st stage | 2 nd stage | |
| Single | 40 | P-39 | N/C | 10,000 | N/C | .16 | 111 |
| Two-Speed | 134 | P-80** | 350 | 10,000 | .99 | .15 | 104 |
| | 249 | P-801 | 350 | 10,000 | .99 | .15 | 104 |
| | 134 | P-84*** | 350 | 10,000 | .99 | .15 | 104 |
| | 453 | P-462** | 200 | 10,000 | 7.69 | .29 | 110 |
| | 453 | P-464*** | 200 | 10,000 | 7.69 | .29 | 110 |

* Contact Enerpac for applications where operating pressure is less than 10% of pressure rating.

** Available as a set, see note on next page.

*** For use with double-acting cylinders.

Hand Pumps

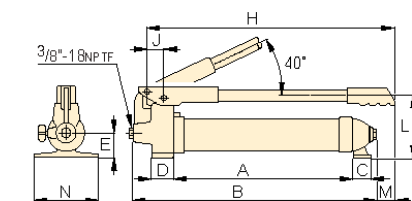
P Series



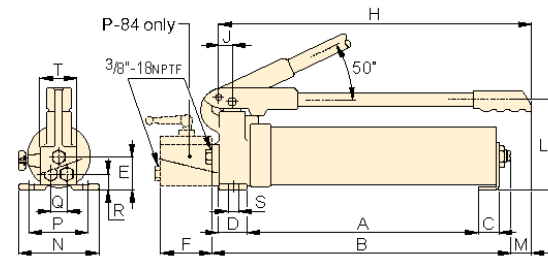
Reservoir Capacity:
40-453 in³

Flow at Rated Pressure:
.15-.29 in³/stroke

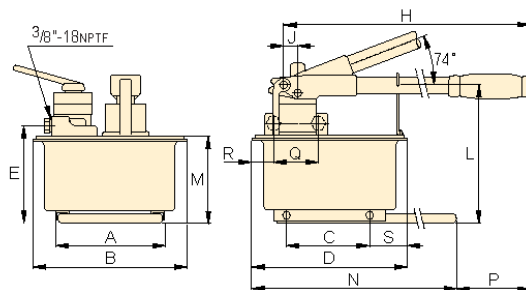
Maximum Operating Pressure:
10,000 psi



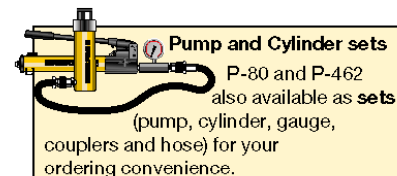
P-39



P-80, P-801, P-84



P-462, P-464



Speed Chart

To determine how a specific pump will operate your cylinder, see the Pump-Cylinder Speed Chart in the "Yellow Pages".



Cylinder Matching Chart

For help in selecting the correct hand pump for your application, please refer to the Cylinder Matching Chart located in the "Yellow Pages".

| Piston Stroke | Dimensions (in) | | | | | | | | | | | | | | | | | Weight (lbs) | Model Number |
|---------------|-----------------|-------|-------|------|-------|------|------|-------|------|-------|------|------|------|------|------|------|------|--------------|-----------------|
| | (in) | A | B | C | D | E | F | H | J | L | M | N | P | Q | R | S | T | | |
| .81 | | 15.5 | 20.47 | 1.28 | 1.50 | 1.25 | - | 18.25 | 1.18 | 4.69 | 2.56 | 5.25 | - | - | - | - | - | 13 | P-39 |
| 1.00 | | 16.75 | 21.22 | 1.00 | 1.75 | 2.13 | - | 20.75 | 1.14 | 6.88 | .75 | 5.75 | 4.76 | - | .83 | .31 | - | 24 | P-80** |
| 1.00 | | 25.94 | 30.78 | 1.00 | 1.75 | 2.13 | - | 30.43 | 1.14 | 6.88 | - | 5.75 | 4.76 | - | .83 | .31 | - | 31 | P-801 |
| 1.00 | | 16.75 | 21.22 | 1.00 | 1.75 | - | 2.52 | 20.75 | 1.14 | 6.88 | .75 | 5.75 | 4.76 | 1.50 | 1.69 | .31 | 2.64 | 29 | P-84*** |
| 1.50 | | 8.25 | 12.13 | 6.42 | 12.63 | 7.68 | - | 26.44 | .98 | 10.63 | 6.89 | 25.6 | 3.63 | - | - | 3.13 | - | 61 | P-462** |
| 1.50 | | 8.35 | 12.13 | 6.42 | 12.63 | 7.68 | - | 26.44 | .98 | 10.63 | 6.89 | 25.6 | 3.63 | 3.50 | 2.68 | 3.13 | - | 61 | P-464*** |

ENERPAC®

LIFE SUPPORT MODULE 1 COMPONENTS INSTALLED



LIFE SUPPORT MODULE 2 COMPONENTS & PIPING



HIGH PRESSURE COMPRESSOR BAUER K20V-E3



Standard Features - 5000/6000 PSI

- BAUER Breathing Air Purification System
- Automatic Condensate Drain System (Standard on 6000 PSI Units & K26V - K60V)
- HI Temp/ Low Oil Pressure Switches with Panel Mounted Light
- BAUER PLC Based Controller
- UL Listed Electrical Assembly with NEMA 4 enclosure
- Emergency Stop Button
- Gauge Panel
- Hourmeter
- SECURUS® - (Standard on 6000 PSI Units & K60)

Optional Features

- Automatic Condensate Drain for K20
- Purification Upgrade
- Other Features Available

Quincy Tanked Mounted Industrial Compressors QR-25 Series



| Model No. | Horse Power | Bore L.P. (in.) | Bore H.P. (in.) | Stroke (in.) | No. Cyl. | RPM ** | CFM Piston Disp. | †ACFM ** | Std.Press. Switch Set (PSIG) | Tank Size (Gallons) | Approx. Shipping Weight (lb) | LxWxH (in.) |
|-----------|-------------|-----------------|-----------------|--------------|----------|------------|------------------|----------------|------------------------------|---------------------|------------------------------|----------------------------------|
| F210* | 1 1 ½ | 2.50 | - | 2.00 | 2 | 440 691 | 5.00 7.90 | 3.30 4.80 | 80-100 | 30 60 | 290 480 | 42x16x37 53x22x42 |
| V210 | 1 1 ½ | 2.50 | - | 2.00 | 2 | 440 691 | 5.00 7.90 | 3.30 4.80 | 80-100 | 30 | 275 | 27x18x47 |
| F310 | 2 | 3.50 | 2.00 | 2.50 | 2 | 628 | 8.70 | 6.30 | 135-175 | 60 | 560 | 53x22x48 |
| V310 | 2 | | | | | 628 | 8.70 | | | 80 | 600 | 31x24x75 |
| F325 | 3 5 | 4.50 | 2.50 | 3.00 | 2 | 459 796 | 13.60 22.00 | 10.40 17.40 | 135-175 | 60 80 120 | 710 770 975 | 53x26x51 68x26x50 73x26x56 |
| V325 | 3 5 | 4.50 | 2.50 | 3.00 | 2 | 492 796 | 13.60 22.00 | 10.40 17.40 | 135-175 | 60 80 | 675 775 | 36x26x78 36x26x78 |
| F340 | 7 ½ | 5.25 | 3.00 | 3.50 | 2 | 786 | 34.50 | 26.00 | 135-175 | 80 120 | 1095 1120 | 68x28x56 73x28x61 |
| F350 | 10 | 6.00 | 3.25 | 3.50 | 2 | 859 | 49.20 | 33.40 | 135-175 | 120 | 1225 | 73x30x62 |
| F370 | 15 | 6.00 | 3.25 | 4.00 | 2 | 1060 | 69.40 | 49.30 | 135-175 | 120 | 1285 | 73x30x62 |
| F390 | 20 | 7.50 | 4.00 | 4.00 | 2 | 877 | 95.80 | 67.00 | 135-175 | 120 200 | 1680 2010 | 73x35x66 77x35x72 |
| F5120 | 25 | 6.00 | 3.25 | 4.00 | V4 | 951 | 124.50 | 90.40 | 135-175 | 120 200 | 2140 2140 | 73x34x72 77x34x72 |

*Single-stage model

** RPM and ACFM shown at 100 PSI for single-stage models, 175 PSI for two-stage models

† All compressor performance data is rated with 230/460, 60 Hz, 3ph, EPAct high efficiency motors

AAI POTABLE WATER SYSTEM Part Number: AAI-PWS-H



Front View

This potable water system is designed to product hot and cold water to the deck decompression chamber internal environment at 103 PSI (7 BAR) over its working pressure in continuous operation.

Cold Water:

- Water inlet
- Pressure compensated manifold
- Recounted sensors and valves
- Cold water outlet

Hot Water:

- 15-gallon hot water heater
- Water inlet
- Pressure compensate manifold
- Regulated sensors and valves
- Hot water outlet

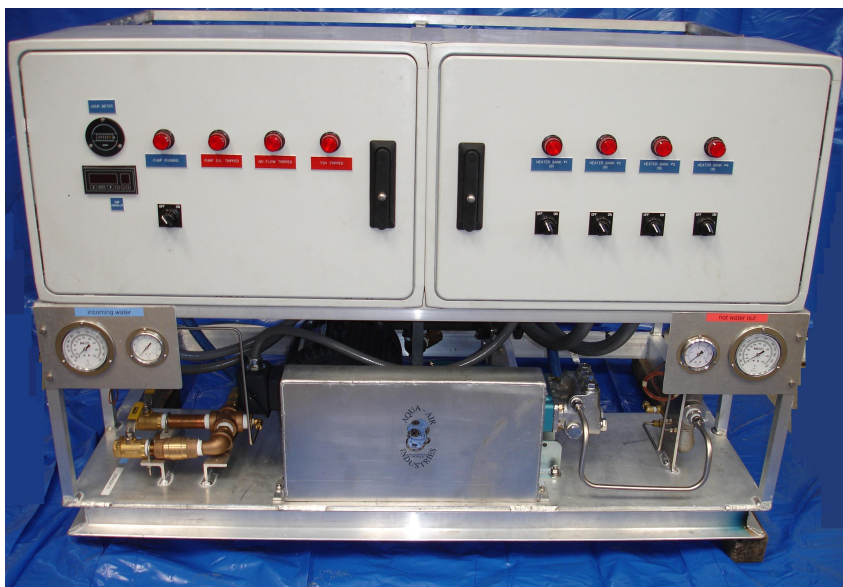


Side View

Features:

Two SS receivers 600 PSI working pressure
Two piston pumps with 500 PSI working pressure
Two pressure switches
Two pulse restrictors
One 15-gallon hot water unit
Power requirements - 240 V, 60 Cycle, Single Phase
Adjustable temperature controller

**AAI ELECTRIC HOT WATER UNIT FOR SAT (FULL)
“HEAT WAVE”
Part # AAI-PEHWS-9000**



This heater unit is electrically powered and capable of heating seawater and freshwater with a flow of 12 GPM with 58 PSI (4 Bars) inlet water pressure. It has a single boiler heat exchanger pressure vessel with over pressurization devices. A CAT pump is incorporated to boost the hot water supply to the diver at 450 PSI (31 Bars).

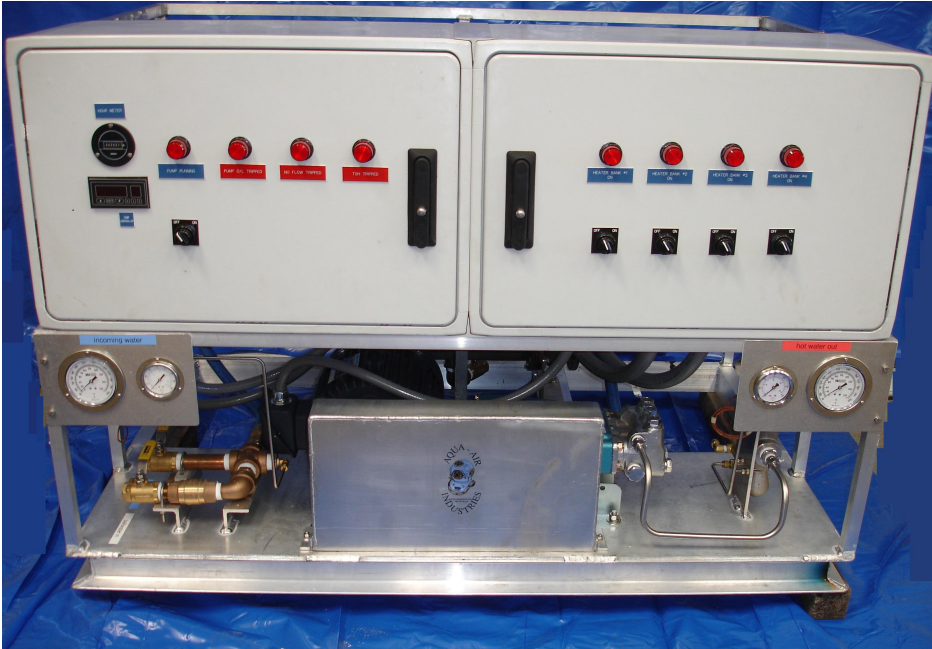
FEATURES:

- Temperature range – 72° F to 137° F \pm 20° F control (30°C to 66° C \pm 2° C)
- Inline Water Filtration
- Electrical Isolation Control
- Earth Leakage trip System
- Low Flow Alarm
- High temperature Alarm
- Pump Motor Start/Stop Delay
- Digital Temperature control and Display
- Power Requirements: 200 KW, 440 V, 3 Phase

OPTIONAL FEATURE:

- 15 Gallon Feed Pump – 40 PSI

AAI ELECTRIC HOT WATER UNIT FOR SAT (HALF) Part # AAI-PEHWS-9000.5



This heater unit is electrically powered and capable of heating seawater and freshwater with a flow of 6.5 GPM with 58 PSI (4 Bars) inlet water pressure. It has a single boiler heat exchanger pressure vessel with over pressurization devices. A CAT pump is incorporated to boost the hot water supply to the diver at 450 PSI (31 Bars).

FEATURES:

- Temperature range – 72° F to 137° F \pm 20° F control (30°C to 66° C \pm 2° C)
- Inline Water Filtration
- Electrical Isolation Control
- Earth Leakage trip System
- Low Flow Alarm
- High temperature Alarm
- Pump Motor Start/Stop Delay
- Digital Temperature control and Display
- Power Requirements: 200 KW, 440 V, 3 Phase

OPTIONAL FEATURE:

- 15 Gallon Feed Pump – 40 PSI

AAI EXTERNAL REGENERATION SYSTEM



| | |
|-----------------------------|-----------------------|
| Depth Rating | 1,000' Sea Water |
| Pressure Rated | 450 psi |
| Temperature Control-Digital | 15°F to 120°F |
| Humidity Control | 50 to 70% RH |
| Power | 460V/60HZ/3PH |
| Discharge Volume | 51 a.c.f.m. |
| Dry Weight: | 3,500 lbs. |
| Dimensions: | 80" L x 32" W x 63" H |

- Skid mounted with 2" isolation valves on blower, scrubber pods, & discharge
- To be used with Aqua-Air Chiller/Heater Unit
OC-500R-HC-ECU or
OC-500RW-HC ECU

Components:

- 1 – Silica Gel
- 1 – Soda Lime 12" Dual Scrubber Baskets SS
- 1 – Heater - Stainless steel 8" with cupro-nickel coils
- 1 – Cooler – Stainless steel 10" with cupro-nickel coils
- 1 – Blower assembly with 5HP external magnetic coupled drive assemblies

Flow Path –

Blower to 12" Sodasorb
12" Sodasorb to 8" Silica Gel
8" Silica Gel to 10" Chiller
10" Chiller to 8" Heater

AAI External Regeneration System.....Part No. AAI-6M-RG

AAI- CUSTOM HYDRAULIC POWER UNIT



Part number LPU2019

This unit will operate underwater tools requiring up to 12gpm @ 2800psi systems.

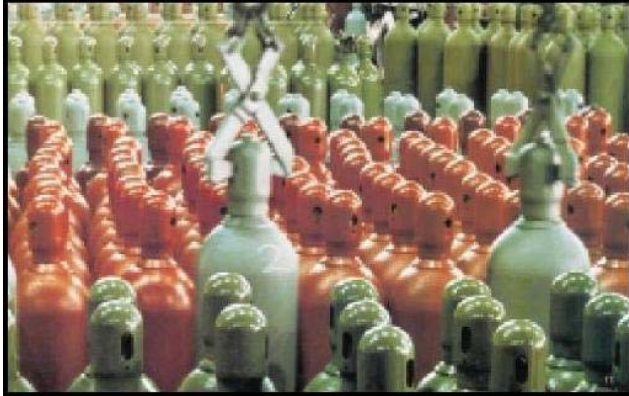
- 01) Electric drive 440V 3 phase 60 Hz
- 02) 12 GPM
- 03) Electric Starter
- 04) Safety pressure switch

External Conditioning Units – All Models

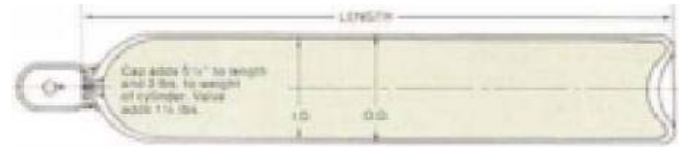


- Available in Air Cooled or Fresh Water Cooled Models
Ranging from 4,000 BTU to 92,000 BTUs
- Cool only or Heat and Cool Models Available
- Wired for 230V/60 Cycle/1 Phase or
460V/60 Cycle/3 Phase
- Stainless Steel Housing Cabinet
- Aluminum Air Intake Filter
- Slim Vertical Design for Easy Installation into Life Support Containers
- All units recirculate 50% water/glycol
- Digital Temperature Controllers
- ABS Approval Optional

High Pressure Gas Cylinders



Cylinders are manufactured to permit 10% overfilling in compliance w/ DOT regulations and are so marked (+) when specified by customer.



| Medical | | | | | | | | | | | | |
|-----------------------------|---------|--------------------|---------|--------|------|---|------------------|----------------|-----------------|------|----------------|------|
| NWSA Item Code Number | Type | Nominal Dimensions | | | | Nominal Weight Incl. Collar (Lbs) | Capacity | | | | Pressure (psi) | |
| | | | | | | | Gallons | | Water (cu. in.) | | | |
| | | ID | OD | Lgth. | Wall | | N ² O | O ² | Min | Max | Work | Test |
| 31622 | D Spun* | 3-15/16 | 4.220 | 16-3/4 | .115 | 9 | 250 | 95 | 171 | 180 | 2015 | 3360 |
| 32522 | E Spun* | 3-15/16 | 4.220 | 25-3/4 | .115 | 12-1/2 | 420 | 165 | 283 | 303 | 2015 | 3360 |
| 11022 | M | 6-5/8 | 7 | 43 | .190 | 62-1/2 | 2000 | 800 | 1320 | 1355 | 2015 | 3360 |
| 05122 | G | 8-1/2 | 8-1/2 | 51 | .205 | 96 | 3200 | 1400 | 2340 | 2400 | 2015 | 3360 |
| 22022 | H | 8-61/64 | 8-61/64 | 51 | .215 | 109 | | 1650 | 2640 | 2710 | 2015 | 3360 |

| Ultra High-Pressure | | | | | | | | | | |
|-----------------------|---------|--|--------------------|---------|--------|------|----------------------------------|---------------------|----------------|-------|
| NWSA Item Code Number | DOT 3AA | Approx. Nitrogen Capacity @70° (cu. ft.) | Nominal Dimensions | | | | Nominal Weight Incl Collar (lbs) | Min. Water Capacity | Pressure (PSI) | |
| | | | ID | OD | Length | Wall | | | Work | Test |
| 35023 | 3500 | 336 | 8-1/2 | 9-1/4 | 51 | .375 | 188 | 2640 | 3500 | 5840 |
| 36023 | 3600 | 345 | 8-1/2 | 9-1/4 | 51 | .375 | 188 | 2640 | 3500 | 6000 |
| 60023 | 6000 | 480 | 8-1/2 | 9-51/64 | 51 | .645 | 300 | 2579 | 6000 | 10000 |

| Industrial | | | | | | | | | | |
|-----------------------|--------------------------------------|--------------------|------------|--------|------|-----------------------------------|----------------|------|----------------|------|
| NWSA Item Code Number | Approx. Oxygen Cap. @ 70°F (cu. ft.) | Nominal Dimensions | | | | Nominal Weight Incl. (Collar lbs) | Water Capacity | | Pressure (psi) | |
| | | ID | OD | Length | Wall | | Min | Max | Work | Test |
| 02020 | 20 Spun* | 4-7/8 | 5.188 | 14-1/4 | .140 | 12-1/4 | 218 | 225 | 2015 | 3360 |
| 04020 | 40 Spun* | 6 | 6.3135-3/4 | 21 | .160 | 24 | 480 | 500 | 2015 | 3360 |
| 05520 | 55 Spun* | 5-1/2 | 5-3/4 | 32 | .156 | 30 | 660 | 696 | 2015 | 3360 |
| 08220 | 80 | 6-5/8 | 7 | 32-1/2 | .190 | 53 | 960 | 1010 | 2015 | 3360 |
| 09020 | 90 | 6-5/8 | 7-3/64 | 33-1/4 | .205 | 57 | 980 | 1030 | 2215 | 3700 |
| 11020 | 110 | 6-5/8 | 7 | 43 | .190 | 63 | 1320 | 1355 | 2015 | 3360 |
| 12520 | 125 | 6-5/8 | 7-3/64 | 43 | .205 | 69 | 1320 | 1355 | 2265 | 3775 |
| 15020 | 150 | 7 | 7-13/32 | 46-1/8 | .185 | 75 | 1630 | 1690 | 2015+ | 3360 |
| 16020 | 160 | 7 | 7-13/32 | 49 | .172 | 79 | 1740 | 1810 | 2015+ | 3360 |
| 22020 | 220 | 8-1/2 | 8-61/64 | 51 | .215 | 109 | 2640 | 2710 | 2015 | 3360 |
| 25020 | 250 | 8-1/2 | 9 | 51 | .240 | 120 | 2640 | 2710 | 2265 | 3775 |
| 30020 | 300 | 8-3/4 | 9-1/4 | 55 | .270 | 141 | 2990 | 3060 | 2400 | 4000 |
| 40020 | 400 | 10 | 10-5/8 | 56 | .310 | 191 | 3985 | 4066 | 2400 | 4000 |

*Furnished without collar and cap

NOTE – D & E Types furnished w/ 1/2-14 NGT internal thread, unless otherwise specified

All other cylinders furnished w/ 3/4-14 NGT internal thread, unless otherwise specified

Cylinder Cradle Assemblies

With many thousands in use throughout the United States, cylinder assemblies are a proven, field tested, task rated design for applications requiring high volume gas usage. These units provide the orderly grouping and manifold of single large cylinders. The cradling of cylinders makes a neat, compact, safe maneuverable gas supply that can be easily exchanged for re-charging. Designed to carry standard 244-330 cubic foot cylinders, these cradle assemblies are constructed of formed 7 gauge steel and are supplied with $\frac{3}{4}$ " diameter threaded tie down rods, heavy-duty hex nuts, drain out holes and have a 2000 lb maximum load capacity. Features a positive placement top that secures each cylinder at the collar, a double-welded $\frac{3}{4}$ " diameter bar formed with the new hard coat, gray enamel pain process. NOTE: When ordering any of the cylinder cradles below, the size and type of the cylinders to be mounted must be specified.

CB6-4



Height: 74" Depth: 28-3/4"
Width: 24" Weight: 136 lbs.

The CB6-4 is the most versatile six cylinder cradle on the market today. NO other equipment is needed to roll this unit on and off trucks, loading docks, etc. Designed to handle six 244 cubic foot cylinders and is equipped with two 6" x 2.00" double race, steel, swivel casters and two 6" x 2.00" steel, rigid casters with grease fittings.



CB6-2



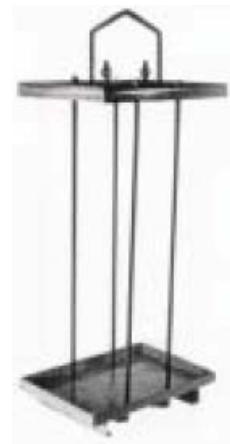
Height: 74" Depth: 28-3/4"
Width: 19-1/2" Weight: 129 lbs.

The CB6-2 carries six 244 cubic foot cylinders or six 330 cubic foot cylinders and is equipped with two 6" x 2.00" steel, rigid casters with grease fittings for use with a separate lever action third wheel assembly. **The lift and pull pin dimension must be specified as 5th wheel assemblies vary in size**

Height: 74" Depth: 38-1/2"
Width: 28-3/4" Weight: 196 lbs.

The CB12-4 carries twelve 244 cubic foot cylinders and is equipped with two 6" x 2.00" double race, steel, swivel casters and two 6" x 2.00" steel, rigid casters with grease fittings.

CB-6



Height: 66" Depth: 28-3/4"
Width: 19-1/2" Weight: 121 lbs.

The CB-6 will handle six 244 cubic foot cylinders or six 330 cubic foot cylinders and is designed for shipping or stationary use. This unit has no casters; can be lifted with a forklift.

CB12-4



HASKEL OXYGEN BOOSTER

Model 26968

This model will pump from high or medium pressure sources and will also function effectively to collect and transfer the gas from partially depleted supply cylinders to "top off" other cylinders to maximum pressure. Conventional industrial, shipboard or contractor type compressed air sources are normally used for power. All motive power and controls are completely pneumatic with no electrical connections required.

The basic booster is two-stage, rated for continuous duty compression ratios of over 15:1, intermittent to 40:1.

A pneumatic control package continually monitors both inlet cylinder pressure and outlet receiver pressure, stopping the booster automatically when desired outlet or minimum inlet pressure is reached, permitting unattended operation.



32" long x 14" wide x 24" high
Approx. weight 115 lbs.

FEATURES

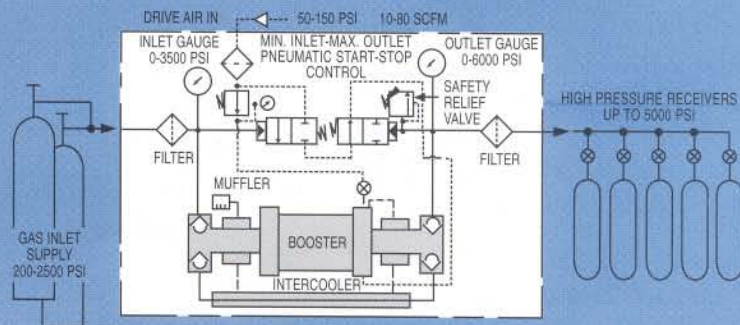
- Drive is a low friction, slow speed cycling air cylinder, designed for continuous duty without airline lubrication. Vented distance pieces insure hydrocarbon-free gas section operation. High pressure oxygen seals are wear compensating, immune to sudden failure and operate completely non-lube, oil free.
- Very cold air (as low as -20° F) is a natural by-product from the air powered drive exhaust.

This frigid exhaust air is channeled through a system of cooling jackets and interstage cooler, resulting in high pressure cylinder temperatures well below limits needed for long life of critical parts.

- Inlet gas supply pressure acts directly through the opposed piston construction to assist the air drive during the compression stroke, conserving power required by the drive in direct proportion to the gas supply pressure.

TYPICAL APPLICATION

BASIC SCHEMATIC HASKEL OXYGEN BOOSTER UNIT MODEL 26968



CAUTION High pressure gas can be dangerous if improperly handled

Air Driven Oxygen Boosters Model 26968



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FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

HASKEL OXYGEN BOOSTER (continued) Model 26968

Air Driven Oxygen Boosters Model 26968

SPECIFICATIONS

- **Booster:** Air driven, balanced opposed piston type, two stage.
- **High pressure Oxygen Chambers:** Non-lube, hydrocarbon-free, triple sealed and vented from the drive air chest.
- **High Pressure Tubing & Fittings:** Stainless steel, 5,000 psi maximum oxygen working pressure.
- **Air Drive Section:** No oiling required, corrosion resistant factory lubed at assembly, 150 psi max. drive pressure.
- **Particle Filters:** Inlet and outlet gas: 5 micron. All stainless steel.
- **Gauges:** Stainless steel tube, solid front 4-1/2" dial size.
- **Port Sizes:** Inlet and outlet gas: 1/2" NPT female; Air Drive: 1/2" NPT female.
- **Control Range Adjustment:**
Inlet minimum: 150 to 850 psi cutout
Outlet maximum: 800 to 5,000 psi cutout
Safety relief (outlet): 800 to 5,000 psi
- **Cooling:** With air exhaust to both stages and intercooler.
- **Noise:** 80 db range pulses, depending on working pressure (measured at 30 inches from booster).
- **Maintenance:** Simple seal kit replacement.
- **Installation:** No special foundation, no tie down required, and no electrical connections.

PERFORMANCE

| EXAMPLES OF PERFORMANCE WITH AIR DRIVE POWER OF 50 SCFM (C) AIR FLOW AT AIR DRIVE PRESSURE INDICATED | | | | |
|--|------------|-------------------------------|------|------|
| OXYGEN GAS PRESSURE — PSI | | OXYGEN OUTLET GAS FLOW — SCFM | | |
| INLET | OUTLET (B) | Air Drive PSI | | |
| | | 60 | 80 | 100 |
| 250 | 1500 | 3.5 | 4.0 | 4.0 |
| 250 | 2000 | 2.1 | 3.6 | 3.6 |
| 250 | 3000 | (A) | (A) | 2.5 |
| 1000 | 1500 | 8.7 | 14.7 | 15.0 |
| 1000 | 2500 | (B) | 9.7 | 13.7 |
| 1000 | 3500 | (B) | 9.6 | 13.6 |
| 1500 | 2000 | (B) | 14.7 | 20.7 |
| 1500 | 2500 | (B) | (B) | 16.1 |
| 1500 | 3000 | (B) | (B) | (B) |
| 2000 | 2500 | (B) | (B) | 21.6 |

- (A) Outlet stall (maximum gas outlet pressure is: Air Drive psi x 30 plus 2x gas inlet psi).
- (B) Interstage stall (maximum gas inlet pressure is air drive psi x 15 if outlet exceeds air drive psi x 30. If it does not, maximum gas inlet is air drive psi x 30).
- (C) If less air flow is available, outlet gas rates will decrease about in proportion.



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DIVE/SATURATION CONTROL MODULE



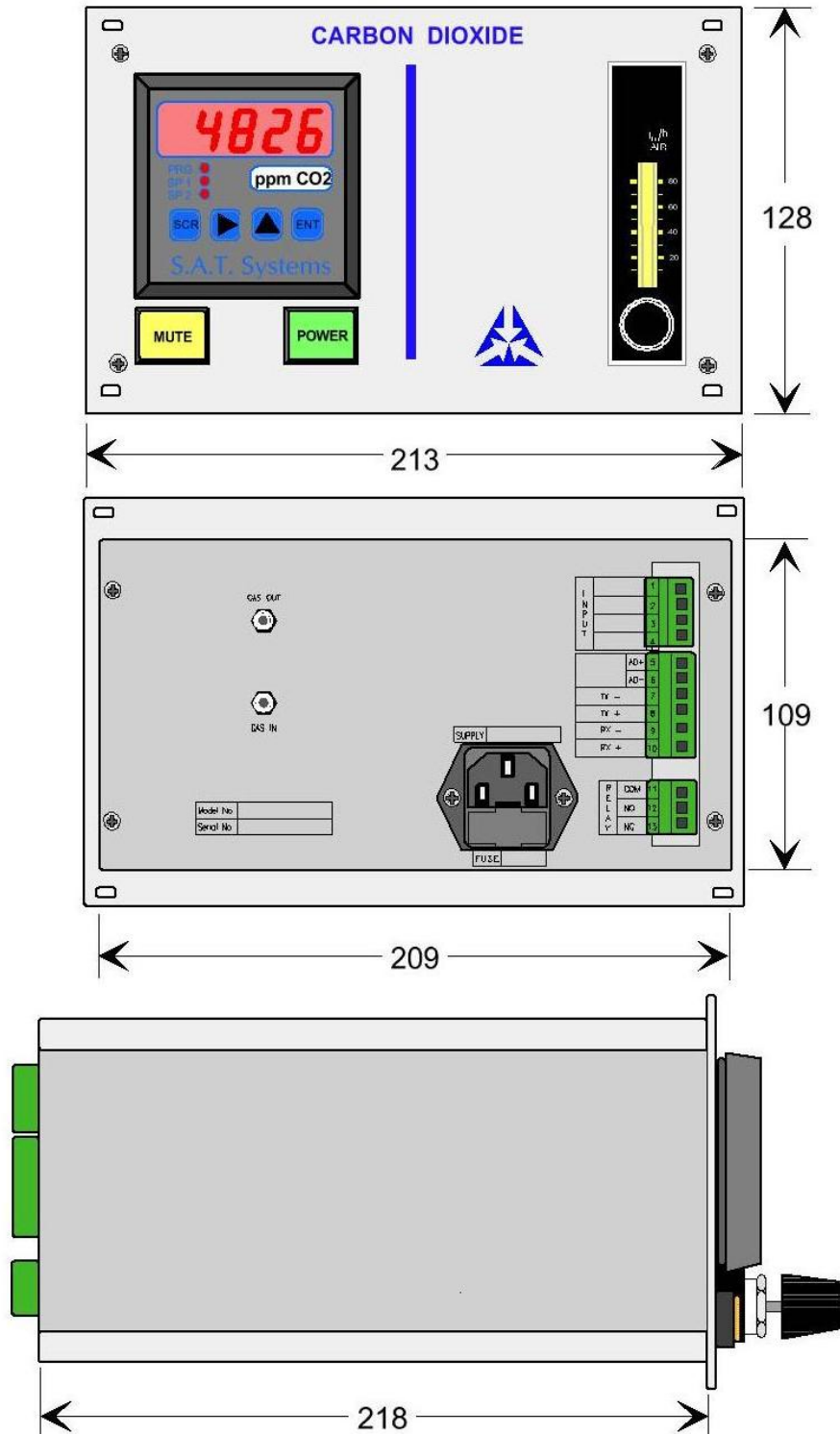
Standard Features:

8' x 20' Steel Container - Fully insulated with fire retardant panels, (2) tinted windows, double doors for egress of the equipment, entrance/exit door, (2) mini split A/C units, completely wired with lighting/power outlets, with ceramic coated roof.

DIVE/SATURATION CONTROL MODULE COMPONENTS



DPM72 CO2 – Carbon Dioxide Analyzer





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DPM725 CO₂ – Carbon Dioxide Analyzer

The DPM72 CO₂ Carbon Dioxide analyzer is a self contained modular unit housed in a custom 3u x ½ rack width case, that can also be panel mounted.

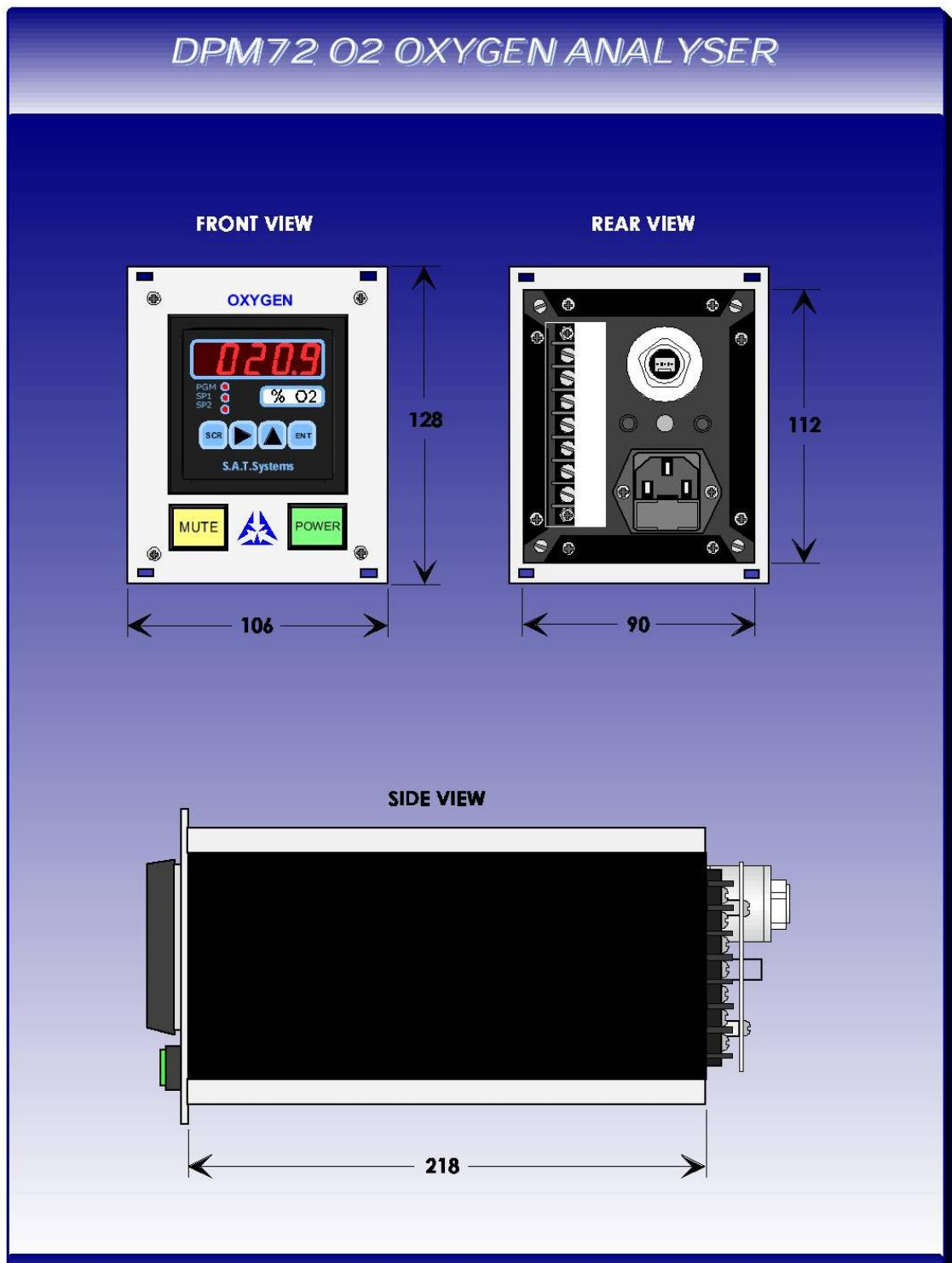
The unit uses a high stability dual wavelength infra-red sensor, it has a built in sample gas drier and flow meter with regulating valve. The display module has both high and low user programmable set points with an audio visual alarm and mute circuit.

Day to day calibration is carried out via the front panel keyboard. All the calibration and alarm parameters are retained in non volatile memory.

| SPECIFICATIONS | |
|----------------|--|
|----------------|--|

| | |
|---------------------|---|
| OPERATING PRINCIPLE | Dual wavelength Infra-red Absorption |
| RANGE | 0 to 0.5% CO ₂ (5000 ppm) Other ranges on request |
| ACCURACY | +/-% of Full Scale |
| ZERO DRIFT | <+/-2 % FSD over 12 Months |
| TEMPERATURE EFFECT | < 0.4% of F.S.D. per Deg. C. |
| RESPONSE TIME | 90% in 10 Sec. |
| WARM UP TIME | <3 Minutes |
| SAMPLE FLOW | 10 to 300 ml/min |
| HOUSING | 3U X 42HP (1/2 Rack) |
| RELAY OUTPUT | 8 Amp change-over relay |
| OPTIONS | Analogue/Serial output |
| WARRANTY | 12 Months |
| POWER REQUIREMENTS | 110, 220 VAC or 24 VDC 6 W |

DPM72 O2 – OXYGEN ANALYZER





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Model No. DPM 72 O2 OXYGEN ANALYSER

The DPM72 O2 Oxygen analyser in a self contained unit housed in a custom 3u x 1/4 rack width case, that can also be panel mounted.

This unit uses a high stability electro-chemical sensor with built in temperature compensation.

The display has high and low set points with audio visual alarm and mute circuit.

Day to day calibration is carried out from the front panel. All the calibration and alarm parameters are retained in non volatile memory.

SPECIFICATIONS

| | | |
|----------------------|---|---|
| OPERATING PRINCIPLE | : | Electro-chemical |
| RANGE | : | 0 to 100 % oxygen |
| RESOLUTION | : | 0.1% oxygen |
| ACCURACY | : | 1% of Full Scale |
| RESPONSE TIME | : | 90% in 10 Sec |
| SAMPLE FLOW | : | 10 to 300 ml/min |
| HOUSING | : | 3U X 21HP (1/4 Rack) |
| RELAY OUTPUT | : | 8 Amp changeover relay |
| POWER REQUIREMENTS | : | 110, 230 VAC or 24 VDC 6 W |
| OPTIONS | : | Analogue/Serial output |
| WARRANTY | : | 12 Months |
| EXPECTED SENSOR LIFE | : | 1.5 * 10 ⁶ % oxygen hours @ 20°C |

RACK MOUNT COMMUNICATOR



Amron's line of Rack Mount Communicators are the most versatile and powerful communicators on the market today. The most unique feature is the design of separate channels and volume controls for each diver and the tender, both for the up-link and the down-link paths. Comes standard with rear mounted MS connector, providing connections to diver and tender inputs and outputs. All rack mount radios include a hand-held push-to-talk microphone.

You can set the volume for each diver and tender to their individual comfort level. Both divers can be set up on Simulcom or push to talk, or one diver on Simulcom and the other diver on push-to-talk mode, or any combination of the two modes

WIRELESS COMMUNICATIONS



AquaCom® STX-101 Transceiver

The AquaCom® STX-101 surface transceiver is a 5-watt, multichannel, single sideband underwater telephone designed with the Professional Search & Rescue Teams in mind. The STX-101 offers four channels that match the SSB-2010. This system is tough, powerful and a must for any serious Search & Rescue Team.

3222 Bell Communication Routing Panel



Amron's Bell Communication Routing Panel **connects divers and bellman operating from a diving bell**, to one of two helium unscramblers. Dive Control operator is **able to select either helium speech unscrambler at the flip of a switch**. **Terminal board inputs** are provided for bell umbilical and through water unit. **Interface connections** to helium unscrambler is a single cable with MS connectors which provides **easy installation and maintenance**.

Details:

- Channels, 3 Divers, Bell man, Bell Speaker, Through- Water-Comms, and 2 Helium Unscramblers
- Inputs: Through Water, 3 Divers, Bell-man, and a Bell Speaker
- Enclosure: 19 inch Retma Rack Mount, anodized aluminum

Specifications:

- | | |
|----------|-----------|
| • Height | • 3.5 in. |
| • Width | • 19 in. |
| • Depth | • 13 in. |
| • Weight | • 7 lbs. |

AAI AIR & GAS DRYING UNIT WITH SS CLAMP



Part # 26800

Air & Gas Drying Unit

This Air and Gas Drying unit is an all-purpose drier. This unit is suitable for most applications. It will dry air to a dew point of -100°F at atmospheric pressure or pressures up to 90 psig. A simple connection by rubber hose to the bottom inlet of the dryer provides an immediate flow of dry air or gas. This unit is also available with $\frac{1}{8}$ inch SS NPT fittings. Plastic coated mounting clips may be purchased separately.

Continuous flows are possible with two units in the line and the necessary valves so that the exhausted column may be refilled while the alternate column remains in use.

Note: *Not to be used in the presence of vapors or liquids containing phosphate esters, synthetic lubricants, hydrocarbon solvents, methanol, acetone, lacquer solvents, or other organics.*

Color Change

The indicating granules give constant visual assurance of active desiccant. When active, indicating granules are a distinct blue color. When exhausted, it turns pink. The zone between the two colors in the column may be a purple color and should be a sharp narrow band when the flow rate is at equilibrium. Regeneration will restore the drying capacity.

Refilling/Regeneration

The Air & Gas Drying Unit can be refilled with fresh indicating granules or they can be removed from the column and regenerated.

SPECIFICATIONS

| | |
|------------------------|---|
| Construction: | Column is molded polycarbonate. Desiccant supports and coil spring is stainless steel. Polycarbonate cap is fitted with o-ring gasket. Indicating granules are held firmly in place between felt filters |
| Dimensions: | 2 $\frac{5}{8}$ " x 11 $\frac{3}{8}$ " |
| Max working pressure: | 90 psig |
| Connections: | Hose barbs for flexible tubing ($\frac{1}{4}$ " – $\frac{3}{8}$ " i.d.) $\frac{1}{8}$ " SS NPT fittings |
| Desiccant: | 1 $\frac{1}{4}$ lb. 8 mesh indicating granules |
| Water Capacity: | 50 grams |
| Recommended flow rate: | 200 liters per hour or 0.1 scfm for maximum efficiency |
| Pressure drop: | <.01 psi at 200 lph |

APPLICATIONS

The Air & Gas Drying Unit can be used anywhere to provide dry air or gas for applications such as:

- Blanketing
- Sample preparation
- Instrument protection
- Reaction mixtures
- Purging
- Vacuum release
- Venting with dry air

HIGH PRESSURE FLOW METER

Part No. AAI-HP

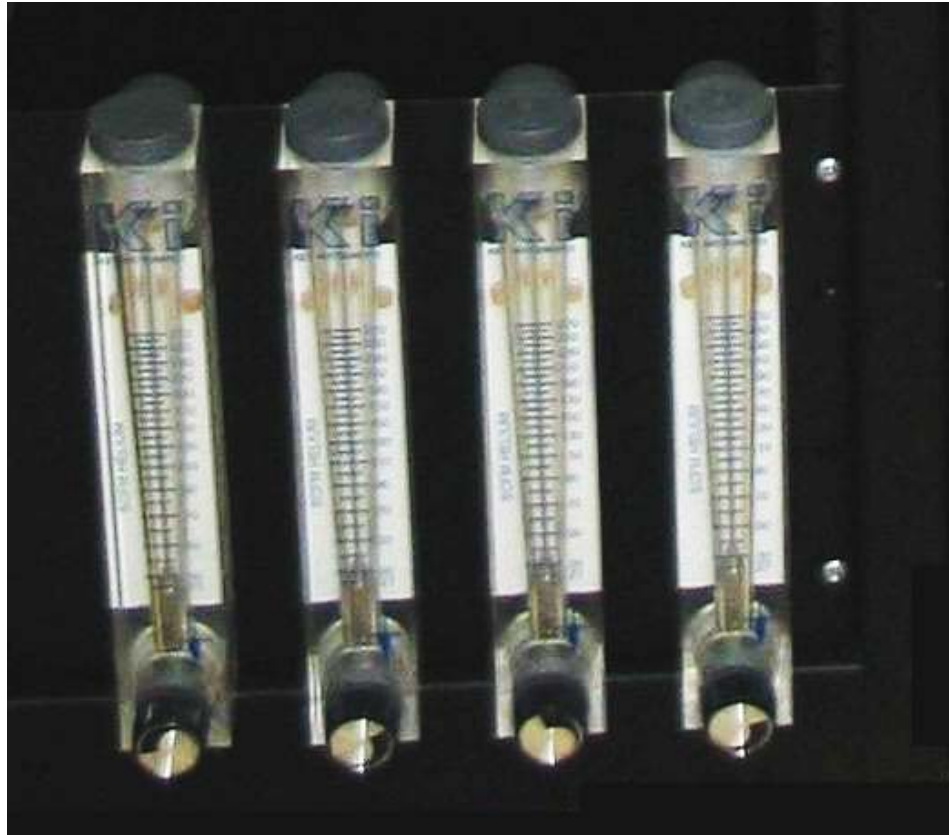


Components

- ❑ Acrylic tube built to ASME/PVHO-1 standards – 600 psi working pressure with tapered bore
- ❑ Float – Jeweled design sapphire ball
- ❑ Stainless Steel End Caps with – Machined with O-ring groove, indentations for acrylic tube, keeper bar, 3/8" NPT tapped hole, 3/16" NC tapped hole for mounting
- ❑ O-Ring (Buna N) 90 durometer
- ❑ Stainless Steel Assembly Hardware

Note: Unit is used to indicate flow only.

EXHAUST FLOWMETER



AAI ACRYLIC EXHAUST FLOWMETER

GAS: HELIUM
FLOAT: BLACK GLASS
SCALE: HELIUM MEDIA
FLOW RANGE: 27-270 SCFM
ACCURACY-(+/-) 10 PERCENT FULL SCALE
1 INCH FNPT PVC FITTING
STANDARD VALVE AT THE INLET
BUNA O-RING
PANEL MOUNT

HIGH POWER DC POWER SUPPLY



Model: VSP4030

High Power DC Power Supplies - Product Detail

EW-26868-62

High Power DC Power Supplies



EW-26868-62

High Power DC Power Supply, 40
VDC/30 A

- **Compact design provides up to 1.2 kilowatts of power**
- Switching power supplies provide noise levels below 20 mV
- Front to back venting allows power supplies to be stacked

Along with the rack-mount chassis, the 1 3/4" height allows multiple units to be stacked and mounted into a standard 19" instrument rack. Connect up to nine power supplies to produce up to 10 kilowatts of power. Power supplies provide the option of manual control (potentiometers) or remote control via RS-232 interface through a PC. Operate constant voltage or constant current output to suit your application. Program over voltage protection through potentiometer or PC.

What's included: three-prong, 6-ft power cord.

Specifications

| | |
|------------------------|-------------------------|
| Load regulation | ±0.1% full scale |
| Line regulation | ±0.1% full scale |
| Power | 95 to 264 VAC, 50/60 Hz |
| Output | 0 to 40 VDC, 0 to 30 A |
| Ripple | < 10 mV |
| Display | Digital |
| Dimensions | 19"W x 1 3/4"H x 18"D |

OFFICE POWER 115 AVR POWER SUPPLY



The unit features 2 built in serial ports to allow for control of two computers during a power failure. This model features Automatic Voltage Regulation to insure that your connected equipment receives only regulated, consistent power. The battery-pack has four (4) 7AH batteries for extended runtime and is hot-swappable to minimize downtime. This model is ideal for corporate servers, departmental servers, Unix servers, as well as mission-critical network components.

FEATURES:

- Battery Run-times from 65 to 135 minutes
- Innovative Design Allows Rack-mount or Stand-up Usage
- Automatic Voltage Regulation Controls over-voltages, Blackouts and brownouts
- All outlets are surge-protected at 1800 joules
- PowerPanel Plus™ Software saves your open files and automatically shuts down your computer when power is lost.
- \$500,000 Connected Equipment Warranty
- Contains Hot-swappable Battery Pack with four 7AH Batteries for Extended Run-Times.

| | |
|--|---|
| Connectivity | |
| Qty AC Outlets | 6 |
| Power | |
| Output Power Capacity (VA - Voltage Amperes) | 1500 |
| Energy Rating (Joules) | 1800 |
| Dimensions | |
| Form Factor ? | rack-mount |
| Additional Details | |
| Audible Alarm Included ? | Yes |
| Alarm Details | Battery on, Low battery, UPS overload |
| Management Software Details | PowerPanel Plus Software saves your open files and automatically shuts down your computer when power is lost. |
| Additional details | Contains Hot-swappable Battery Pack with four 7AH Batteries for Extended Run-Times. |
| Manufacturer Information | |
| Parts Warranty | 3 years |
| Labor Warranty | 3 years |

DVS 9120S – DVR Recorder



DVS 9120 is our best selling DVR from our product line. It supports up to 16 video channels with a crystal clear high-res picture quality and a maximum 120 frames per second. The high compression MPEG4 CODEC provides more recording time with the same size hard disk drive than the previous MJPEG CODEC. The built-in video motion detector logic helps the DVR system from storing unnecessary video. By connecting the DVR to the Internet, you are able to view live or archived videos from a remote location. Or you can connect to multiple DVR's from different locations and view them all at the same time also. (Monitor not included)

Features:

- 16 channel video input
- 4 channel audio input
- 120 fps display frame rate
- 120 fps record frame rate
- MPEG4 high compression CODEC
- 640x480/640x240/320x240 Resolution
- Intel® Genuine Pentium® Dual Core™ Processor
- 512MB DDR2 memory
- Built-in CD-Burner
- HDD Installation available with 500GB/1000GB/1500GB/2000GB
- Microsoft Windows® XP Installed
- Tower Case/Server Case

| Specifications | |
|---------------------|---|
| Camera Input | 16 Channel |
| Audio Input | 4 Channel |
| Loop out | N/A |
| Spot Monitor Output | 1 Port (RCA) |
| Spot Out Type | Switching |
| Alarm Output | 8 |
| Sensor Input | 16 |
| Total Display | 120 fps (Real-time) |
| Total Recording | 120 fps |
| CODEC | MPEG4 |
| Resolution | 640x480/640x240/320x240 Resolution |
| Screen Set | 1/4/7/8/13/16/Sequential |
| Triplex Recording | Yes |
| Network | LAN, Cable, DSL, MODEM (optional) |
| Remote Viewing | Via Client software or Web Browser (Active-X must be enabled) |
| Backup | Data Transfer/JPEG or BMP image Remote site backup/Schedule Backup AVI standard movie clip (Windows Media Player compatible) |
| Recording Mode | R: Recording continuously M: Recording only with motion detection S: Recording only with sensor detection H: Recording continuously but higher frame rate recording when triggered |

| Specifications | |
|-------------------|---|
| PTZ Control | Via RS232 Port (RS485 to RS232 Converter Required) |
| Software Included | Server/Client/Backup Viewer/ Watermark Viewer/Multi-clie |
| CPU | Genuine Retail Intel® Pentium® Dual Core™ Processor |
| Memory | 512 MB DDR2 |
| Hard Disk Drive | Installation available with 500GB/1000GB/1500GB/2000GB |
| Motherboard | Built with Intel® Chipset |
| Network Adaptor | Included (10/100 Mbps) – RJ45 |
| MODEM | High Quality US Robotic 56K V.90 (Optional) |
| Operating System | Windows® XP Home Edition™ |
| Backup Device | 52x Write/32x Re-Write/ 52x Read CD-RW Drive (DVD±RW 0) |
| Casing | Tower Case, Rack Mountable Case |
| Dimensions | Tower: 8" (W) x 17" (H) x 18 5/8" (D) Server: 19" (W) x 7" (H) x 23" (D) |
| Weight | Tower: Approx. 27 lbs Server: Approx. 40 lbs |

AVOX 803600 Inhalator



The Avox Series 803600 Inhalator is designed for dry atmosphere decompression in a compression chamber and other applications where it is desirable to breathe mixtures other than ambient and is not critical if the exhaled gas is vented directly to the chamber atmosphere. This mask is used for surface decompression of persons in a recompression chamber.

Features

- Optional first stage pressure reducer maintains a constant inlet pressure to the demand regulator above chamber pressure
- Exhalation is vented directly to ambient atmosphere through a mask check valve

Item List

| | |
|--|-----------|
| w/ First Stage Regulator and Microphone Assembly | 803600-00 |
| w/ First Stage Regulator w/out Microphone Assembly | 803600-01 |
| w/out First Stage Regulator w/out Microphone Assembly | 803600-02 |
| w/out First Stage Regulator w/out Microphone w/out Hose Assembly | 803600-03 |
| w/out First Stage Regulator w/ Microphone Assembly | 803600-04 |

Avox Pressur-Vak II



The Avox Pressur-Vak II is designed to administer oxygen or gas mixtures to a diver or patient in a hyperbaric chamber environment. The demand regulator assembly provides breathing gas on demand (inhalation). The regulator is designed to operate with a constant inlet pressure of 65 to 125 psig over chamber pressure.

For chamber depths over 60 FSW, a secondary vacuum regulator must be installed (see Tescom Regulator 26-2912-282A). A hull-stop valve should be an integral part of the system as a safety device to shutdown the vacuum should a pressure loss occur. The optional pressure reducing regulator is a small reliable regulator assembly with an oxygen coupling. The vacuum regulator allows the exhaled gases to be carried to the outside of the chamber thereby eliminating oxygen buildup or contamination of the chamber environment. The vacuum of the exhaled gas is a direct function of the differential pressure of the chamber and the ambient environment.

Options

- 1st Stage Regulator
- Pressure Reducing Regulator (PR Reg)
- Microphone
- Available without a Face Seal and Harness Assembly

Warning: The Pressur-Vak II is designed for surface decompression in a recompression chamber and is not intended for underwater use. It may also be used for other applications which require overboard discharge of exhaled gas.



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Avox Pressur-Vak II Cont.

Features

- Now Available with 150 ohm dynamic microphone
- Face seal is available in FIVE sizes
- Quick disconnect face seal allows easy cleaning
- Optional full head harness for added comfort during long administration
- Exhausts exhaled gases overboard, permitting minimum ventilation of the chamber
- Demand regulator permits constant flow operation
- Optional 300 to 1800 psi first stage regulator maintains constant inlet pressure to the demand regulator.

Item List

| | |
|---|--------------|
| Med Short Seal-1 st Stage Reg-w/o Mic | 803139-00-01 |
| Med Seal-1 st Stage Reg-w/o Mic | 803139-00-02 |
| Med Long Seal-1 st Stage Reg-w/o Mic | 803139-00-03 |
| X-Long Seal-1 st Stage Reg-w/o Mic | 803139-00-04 |
| X-Short Seal-1 st Stage Reg-w/o Mic | 803139-00-05 |
| No Seal or Harness-PR Reg-w/o Mic | 803139-00-XX |
| P-Vak II Medium Short Face Seal w/o 1 st Stage Reg and Mic | 803139-01-01 |
| P-Vak II Medium Face Seal w/o 1 st Stage Reg and Mic | 803139-01-02 |
| Med Long Seal-w/o Reg-w/o Mic | 803139-01-03 |
| X-Long Seal-w/o Reg-w/o Mic | 803139-01-04 |
| X-Short Seal-w/o Reg-w/o Mic | 803139-01-05 |
| No Seal or Harness-w/o Reg-w/o Mic | 803139-01-XX |
| Med Short Seal-PR Reg-w/ Mic | 803140-00-01 |
| Med Seal-PR Reg-w/ Mic | 803140-00-02 |
| Med Long Seal-PR Reg-w/ Mic | 803140-00-03 |
| X-Long Seal-Pr Reg-w/ Mic | 803140-00-04 |
| X-Short Seal-Pr Reg-w/ Mic | 803140-00-05 |
| Med Short Seal-w/o Reg-w/ Mic | 803140-01-01 |
| Med Seal-w/o Reg-w/ Mic | 803140-01-02 |
| Med Long Seal-w/o Reg-w/ Mic | 803140-01-03 |
| X-Long Seal-w/o Reg-w/ Mic | 803140-01-04 |
| X-Small Seal-No Reg-w/ Mic | 803140-01-05 |

SCBA - Air-Pak 50i

Cutting Edge Protection for Firefighting Applications



Features:

- Time-tested record of reliable performance and rugged dependability
- Tactile feel end-of-service indicator
- Includes Scott's workhorse E-Z Flo® Regulator
- Unique pressure reducer acts as two reducers in one, allowing a constant supply of air if one happens to get clogged
- Available in 2216, 3000, and 4500 PSI operating pressures
- Cylinder duration available in 30, 45, and 60 minutes
- Top-Down Convertibility™ with AV-2000® and AV-3000™ face piece
- AV-2000 and AV-3000 allows for interface with Scott's full range of communication devices
- A lightweight, ergonomically designed harness system
- Places bulk of weight on hips instead of the shoulders
- Harness incorporates quick release take-up with parachute style hardware
- Freedom of movement, reduced fatigue
- Advanced safety features
- Best warranty in the industry – full 8 years, plus a full 15 years on the pressure reducer assembly
- Lowest overall ownership cost

Public Address System



The AC/DC 15 watt public address amplifier comes complete with a microphone. It has inputs for microphone, auxiliary, phone, and microphone auxiliary. It also has a built-in siren.
Chassis size: 6.5" (L) x 6" (W) x 2.75" (H).

Specifications:

- Power Source: DC 12V (11-16V standard 14.4V)
- Input Impedance: Mic. 200-50k ohm adaptable / Aux. 10K
- Input Level: Mic-50dB / Aux. -22 dB \pm 1 dB (for rated output)
- Output Impedance: 4 ~ 16 ohm Ω
- Power Consumption: Less than 3A at max. output
- Siren: Electronic operated automatic waving type
- Fog-horn: Electronic fog-horn
- Dimensions: 155 mm (W) x 150 mm (D) x 65 mm (H)
- Weight: 0.78 kg

HRC Flyaway Module



(Ladder Optional)

Hyperbaric Control “Flyaway” Module includes the main power distribution system and necessary components required to maintain divers under pressurized condition. These components consist of the heating and cooling system, high pressure water, power supply, waste disposal unit, automatic temperature with humidity controls, and environmental monitoring system and gas storage rack.

Weight.....4,650 lbs.
Container Foot Print.....10’ L x 8’ W x 8’ H
Rear Door Opening.....90” H Right 46” W, Left 45” W
Front Window Viewing Area.....45” W x 39” H
Side Door.....26” W x 80” H

Standard Features:

- All Steel Construction
- Ceramic Coated Roof
- Fully insulated Fiberglass Wall Cover
- Stainless Steel Hardware
- External Access Ladder – Optional
- Waterproof Door – Aluminum
- Large Viewing Window – 3/8” Tempered Glass, Tinted
- Recessed Panel – Gas Inputs/Electrical
- Breaker Panel
- 50’ Power Cable – AWG-6-4 SEOW – 600 Volts
- Mini-Split
- Day Light/Night Light Interior Lighting System



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EMAIL sales@aquaairind.com

Package Includes:

- Control Console
- CO2 Analyzer
- O2 Analyzer
- Potable Water Unit
- Connection Umbilical
- 3 Diver Helium Unscrambler
- Gas Storage Cylinders
- External Conditioning Unit



Potable Water Unit



External Conditioning Unit



Control Console



Connection Umbilical



Gas Storage Cylinders



O2 Analyzer



CO2 Analyzer



3 Diver Helium Unscrambler

Flyaway Package Connection Umbilical



The Connection Umbilical consists of the following components:

- Main Pressure Hose
- Main Exhaust Hose
- Potable Hot Water Hose
- Potable Cold Water Hose
- O2 Injection Hose
- Bibs Supply Hose
- Pneumo Hose
- Analysis Hose
- ICU In Hose
- ICU Out Hose
- Main Power Cable
- Video/Comm./Temp./Humidity Cable

GAS STORAGE KELLY TUBES 8 PACK



Details:

Unit Service Pressure - 3600 PSI

Total Water Volume-356 cu. ft.

Length - 34 ft.

Diameter –18 in.

**Manifold - Each cylinder's valve tied to central manifold
with additional valve at each end**

Helium – 78,376 cu.ft.@ 3600 PSI

Nitrogen – 80,160 cu.ft. @ 3600PSI

Air – 70,832 @ 3600 cu.ft. PSI

GAS STORAGE KELLY TUBES 6 PACK



Details:

Unit Service Pressure - 3185 PSI

Total Water Volume -267 cu. ft.

Length - 34 ft.

Diameter –18 in.

**Manifold - Each cylinder's valve tied to central manifold
with additional valve at each end**

Helium – 49,872 cu.ft. @ 3000 PSI

Nitrogen – 51,774 cu.ft. @ 3000PSI

Air – 53,124cu.ft. @ 3000 cu.ft. PSI

GAS STORAGE KELLY TUBES 3 PACK



Details:

Unit Service Pressure - 3600 PSI

Total Water Volume –133.5 cu. ft.

Length - 34 ft.

Diameter –18 in.

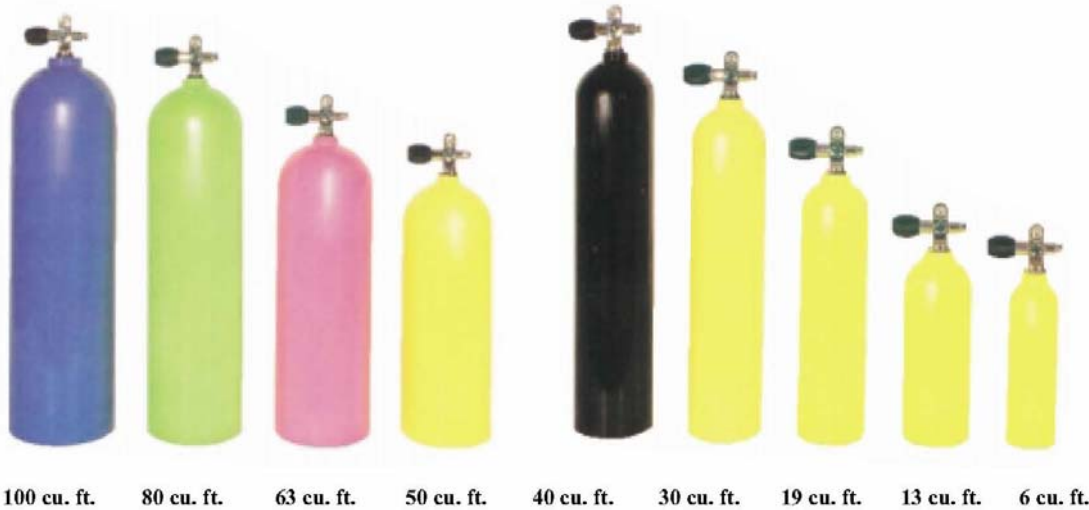
**Manifold - Each cylinder's valve tied to central manifold
with additional valve at each end**

Helium – 29,391 cu.ft. @ 3600 PSI

Nitrogen – 30,060 cu.ft. @ 3600PSI

Air – 30,915 cu.ft. @ 3600 cu.ft. PSI

Cylinders



| Part # | Service Pressure PSI | Capacity (Cu. Ft.) | Outside Diameter (in.) | Length (in.) | Weight (lbs.) | Buoyancy Empty (lbs.) |
|---------|----------------------|--------------------|------------------------|--------------|---------------|-----------------------|
| AC6YL | 3000 | 6.0 | 3.20 | 11.2 | 2.6 | 0.0 |
| AC13YL | 3000 | 13.3 | 4.40 | 12.9 | 5.8 | -0.6 |
| AC19YL | 3000 | 19.0 | 4.38 | 17.1 | 7.5 | +0.2 |
| AL30YL | 3000 | 30.0 | 4.40 | 21.8 | 11.8 | +1.0 |
| AL40BK | 3000 | 40.0 | 5.25 | 24.8 | 15.3 | +2.1 |
| AL50YL | 3000 | 48.5 | 6.90 | 19.0 | 21.2 | +1.2 |
| AC63XX | 3000 | 63.0 | 7.25 | 21.8 | 26.9 | +2.3 |
| AC80XX | 3000 | 77.7 | 7.25 | 26.0 | 31.7 | +3.9 |
| AC100XX | 3300 | 100.0 | 8.00 | 26.2 | 40.8 | +3.5 |



Pony Bag
available for 6 to 30 cu. ft.
PSS10X



Deluxe "K" Valve
KA-XX



Genesis Valve Tool
TL001



Portable Oxygen System
O2-C

Snorkels



- | | |
|---|---|
| <p>45 FLEX-SERIES DIVE SNORKELS Large bore flex-purge with soft silicone swivel mouthpiece Black, Blue, Clear, Lime, Purple, Pink</p> <p>46 FLEX-SERIES DIVE SNORKELS Large bore flex with soft silicone swivel mouthpiece Black, Blue, Clear, Lime, Purple, Pink</p> <p>52 DIVE SNORKELS Large bore with soft silicone swivel mouthpiece Black, Blue, Clear, Lime, Pink, Purple, Red</p> <p>53 DIVE SNORKELS Plastic purge, large bore with replaceable mouthpiece Black, Blue, Clear, Lime, Pink, Purple, Red</p> <p>26 DRY SNORKEL FOR TAPERED BARRELS Proven water detection keeps airway dry with purge top bottom Fits on snorkels: 58, 59 Gray, Clear (not shown) available</p> | <p>54 DIVE SNORKELS Plastic purge, large bore with replaceable mouthpiece Black, Blue, Clear, Lime, Purple, Pink</p> <p>55 CLASSIC RUBBER DIVE SNORKEL Large bore with soft rubber swivel mouthpiece Black</p> <p>58 TAPERED BARREL DIVE SNORKELS Tapered barrel flex with silicone swivel mouthpiece Black, Blue, Clear, Lime, Purple, Pink</p> <p>59 TAPERED BARREL DIVE SNORKELS Tapered barrel flex-purge with silicone swivel mouthpiece Black, Blue, Clear, Lime, Purple, Pink</p> <p>28 DRY SNORKEL ADAPTER Proven water deflection system keeps airway dry Removable threaded cover for easy cleaning Fits on snorkels: 45, 46, 52, 53, 54, 55</p> |
|---|---|

Maximus® Regulator SRB5600



An extremely comfortable and compact regulator, the Maximus offers great performance. Our first stage, with its patented Primary Air Sensing Channel System, boosts breathing efficiency at high flow. Additional ports allow multiple set-ups of regulator connections. A smaller and lighter second stage relieves drag and jaw fatigue. A simple device (patent pending) that adjusts the moisture retention fins allows the diver to direct the air flow and optimize breathing characteristics to match diving conditions.

Significant features also include the comfortable underarm hose that reduces the diver's underwater profile and minimizes the possibility of snagging. The adjustable orifice allows the diver to adjust the cracking resistance and fine tune the effort required to initiate air flow. This adjustability, combined with the moisturizing and heat retention features in the Maximus, makes it easy to "personalize" this regulator to the prevailing dive conditions.

Minimus® Regulator SR3108



The first regulator designed specifically as a backup air source, this reliable, economical safe-second octopus is 35% smaller than standard octopus. Compact design includes an omni-directional mouthpiece for quick access or exchange.

Standard Octo Regulators SR3107

Our standard octopus line is designed and precision-engineered to provide the same dependable air flow as your primary Sherwood regulator. It is designed with a unique lever assembly that resists free flow when not in use. Rugged, reliable and affordable, depend on these in case of emergency.



Shadow® + Regulator



All of the Minimus features in an inflator-integrated design that links directly to your BC. This easy-to-grab backup air source lies flat against your chest, with no dangling hose.

Titan 1st Stage Regulator



#1031-00

In-line balanced diaphragm mechanism

Constant breathing comfort at any cylinder pressure or depth, combined w/ compact size

New high pressure seat

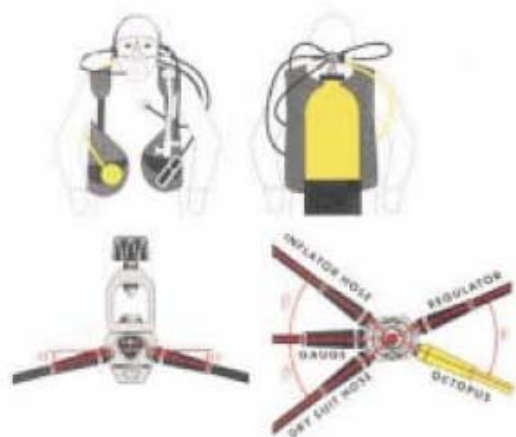
The new seat material ensures improved sealing of the valve/seat system, giving stable performance under all climatic conditions (polar or tropical).

Air Turbo System

This breathing assistance guarantees improved MP stability and increases air flow during periods of high demand.

Perfect direction angles for the LP and HP hoses

Simple and easy hose management.



4 Low Pressure ports and 1 High Pressure port

To match all situations and to allow the fitting of all accessories (BC inflator, dry suit inflator, octopus and HP gauge).



Titan DIN 1st stage

#1031-30



Titan D 1st stage

#1031-90

Available in 230 bar yoke or 300 bar DIN versions (*).
Conversion from one version to the other needs a kit.

2 Gauge Console



This console comes with a depth and pressure gauge/thermometer and lets you add a compass on the back when you need it.

Pressure Gauges

These durable gauges offer high-visibility luminescent dials, color indicator, and 360 degrees swivel rotation for easy reading. Impact-resistant thermoplastic or optional brass housing. Includes thermometer in thermoplastic case only. In standard or metric.

| Part No. | Description |
|----------|---|
| CG2155 | Standard pressure gauge/150 ft. depth gauge |
| CG2210 | Standard pressure gauge/200 ft. depth gauge w/ max – depth indicator |
| CG2215 | Standard pressure gauge/200 ft. depth gauge w/ max – depth indicator |
| CG2245M | Standard pressure gauge/45 meter depth gauge |
| CG2260M | Standard pressure gauge/60 meter depth gauge w/ max – depth indicator |

Armada (Jacket-Style Rear Inflation BCD)



Designed for the avid traveling diver in mind, the Armada rear inflation BC is both compact and light-weight to allow easy packing in a suitcase. Underwater this BC design translates into streamlined fit and low profile maneuverability that makes diving truly effortless.

Features:

- 3-D rear inflation aircell design for increased buoyancy
- Detachable aircell – replaceable in case of damage
- Patented SLQR (Secure-Lock-Quick-Release) weight-integrated release system
- Two quick-release weight pockets (max integrated weight 10 lbs per side)
- Two rear weight pockets (max 5 lbs per side)
- Rugged 840 Denier TPU nylon aircell construction
- Balanced Superior Inflator inflates and deflates at a touch of a button
- Lower rear pull dump valve and integrated shoulder pull dump airway valve
- Stable padded hard pack with built-in carry handle
- Rolled neoprene neck collar
- Quick-release adjustable shoulder buckles
- Flexible cummerbund with quick-release buckles
- Adjustable integrated chest strap with quick-release buckles
- Two large 1000 Denier Nylon zippered pockets w/ YKK #10 zippers
- 5 stainless steel and 2 Delren D-rings
- Integrated knife mounting grommet

Iconic (Jacket-Style BCD)



Features:

- Patented SLQR (Secure-Lock-Quick-Release) weight-integrated release system
- Two quick-release weight pockets (max integrated weight 10 lbs per side)
- Two rear weight pockets (max 5 lbs per side)
- 840 Denier TPU nylon aircell
- Balanced Superior Inflator inflates and deflates at a touch of a button
- Right shoulder and rear pull dump valves
- Stable padded hard pack with built-in carry handle
- Rolled neoprene neck collar
- Quick-released adjustable shoulder buckles
- Flexible cummerbund with quick-release buckles
- Two zippered pockets
- 7 stainless steel D-rings

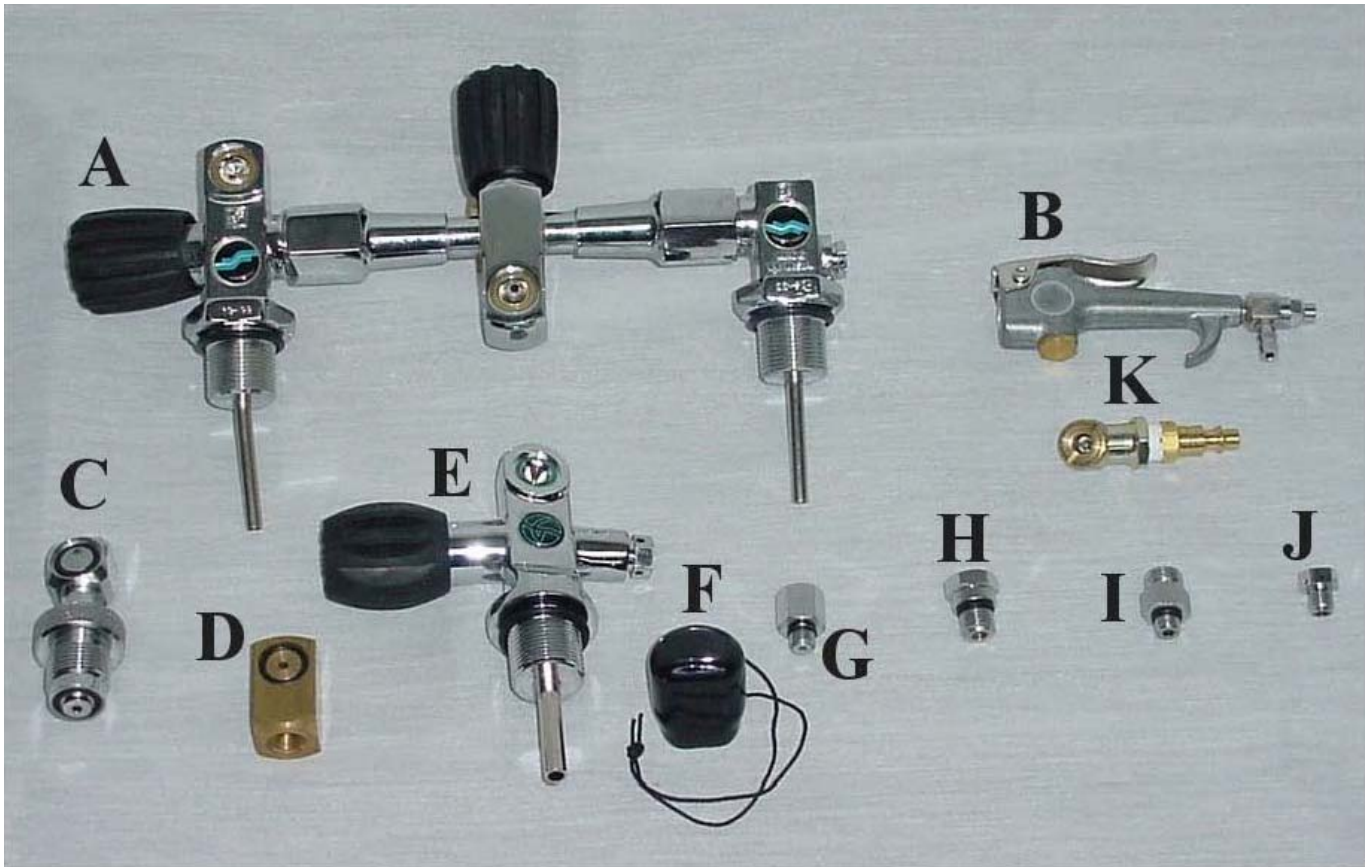
Mission (Jacket-Style BCD)



Features:

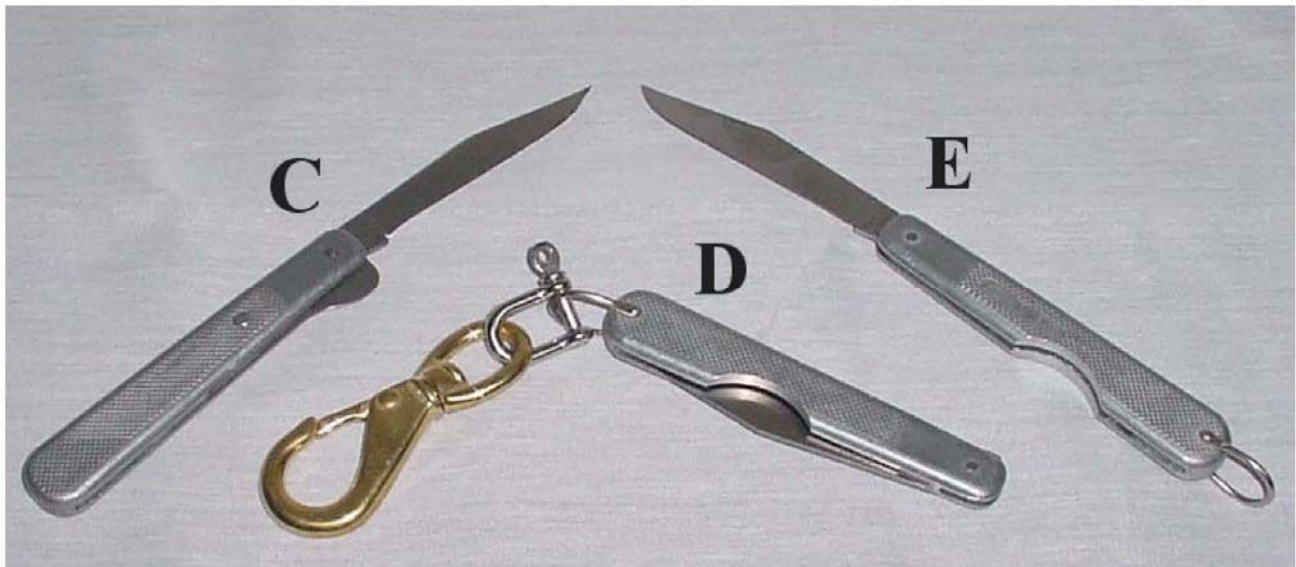
- Tough fast drying/low weight property 420 denier
- Balanced Superior Inflator inflates and deflates at a touch of a button
- Stable padded hard pack with built-in carry handle
- Two expandable Velcro pockets
- Quick-release adjustable shoulder buckles
- Flexible cummerbund with quick-release buckles
- Rear pull dump valve
- 4 stainless steel D-rings

Adaptors



| Letter | Part No. | Description |
|--------|--------------|---|
| A | SVB4000KDE48 | Sherwood Double tank manifold, with Dual outlet |
| B | AA03 | Blow Down Valve |
| C | SAA5301 | DIN Fill adapter |
| D | 9-3030-1 | Scuba block x 1/4" NPT Female |
| E | KA-30 | K-Valve, Standard 3/4" O-Ring Seal |
| F | 56180 | Valve Protectors, Scuba |
| G | 57270 | Adapter, Male 3/8" to Female 7/16" |
| H | 57290 | Adapter, Male 1/2" to Female 3/8" |
| I | #230 | First stage Male threads w/ O-ring x O2 Male, Nickel Plated |
| J | VP26-30 | 3000 psi Burst Disk Safety Ring |
| K | AA-01 | Inflator Quick couple nipple w/ tire inflator |
| | | <u>Not Pictured</u> |
| * | AA02 | Air Blower |

Flags & Knives



| Letter | Part No. | Description |
|--------|-----------|---|
| A | DF-121-23 | Standard Diver Down Flag, 2' x 3' Diver Down Flag, 3' x 5' |
| B | DF-121-35 | Alpha Diver Down Flag, 2' x 3' Alpha Diver Down Flag, 3' x 5' |
| C | Q1307 | Big Chief Easy open w/ serrated locking blade |
| D | R45EO | Rigged Big Chief, #2 Brass Swivel Clip, Stainless steel shackle, 4" Blade |
| E | 45EO | Big Chief Easy open 4" Blade |

Knives



- | | |
|---|---|
| <p>180 DROP POINT MINI DIVE KNIFE 3" drop point tip – 304SS Sharp cutting blade, serrated edge and line cutter Locking plastic sheath attaches to BCD Plastic storage case included Black, Blue, Clear, Lime, Pink</p> | <p>188 BLUNT TIP DIVE KNIFE – 402SS (w/ BUTT CAP) 4-1/2" blade with serrated edge and line cutter Black, Blue, Lime, Pink</p> |
| <p>181 BLUNT TIP MINI DIVE KNIFE Blunt tip blade – 304SS Black, Blue, Clear, Lime Pink</p> | <p>189 DROP-POINT TIP DIVE KNIFE (w/ BUTT CAP) 4-1/4" blade with serrated edge and line cutter Secure locking sheath with easy release button 420 Stainless Steel Black, Blue, Lime Pink</p> |
| <p>182 DROP-POINT DIVE KNIFE – 304SS (w/ BUTT CAP) 4-1/4" blade with serrated edge and line cutter Secure sheath with two finger release mechanism Black, Blue, Lime, Pink</p> | <p>190 BLUNT TIP DIVE KNIFE (w/ BUTT CAP) Black, Blue, Lime, Pink</p> |
| <p>183 BLUNT TIP DIVE KNIFE – 420 SS (w/ BUTT CAP) 4-1/4" blade with serrated edge and line cutter Black, Blue, Lime, Pink</p> | <p>197 DROP POINT TIP DIVE KNIFE 4-1/4" blade with serrated edge and line cutter Secure locking sheath with easy release button 420 Stainless steel Black, Blue, Lime, Pink</p> |
| <p>187 DROP-POINT DIVE KNIFE – 304SS (w/ BUTT CAP) 5" blade with serrated edge and line cutter Secure sheath with two finger release mechanism Black, Blue, Lime, Pink</p> | <p>198 BLUNT TIP DIVE KNIFE Black, Blue, Lime, Pink</p> |

Wetsuit Boots and Knives



B7000 Titanium Molded Sole Boot
Material: 7mm Nylon II
Color: Black



**B7320 Heavy-Duty
Vulcanized Boot**
Material: 7mm Nylon II
Color: Black
Men's Sizes: 7-13



Titanium Vulcanized Zip Boot
Material: 5mm Nylon II or
3mm Nylon II
Color: Black
Men's Sizes:
B5225 : 5-14 : 5mm Nylon II
B3225 : 4-13 : 3mm Nylon II

B3230 Vulcanized Beach Boot
Material: 3mm Nylon II
Color: Black, Black/Blue
Men's Sizes: 5-13



B3240 Pull-On Sock
Material: 3mm Nylon II
Color: Black
Sizes: XS-XXXL



K800-1 Deluxe Blunt Tip Knife
Material: 420 Stainless Steel
Color: Black, Blue, Clear



K600 Standard Blunt Tip Knife
Material: 420 Stainless Steel
Color: Black, Blue, Lime



K900-1 Deluxe Drop Point Knife
Material: 420 Stainless Steel
Color: Black, Blue, Clear



K700 Standard Drop Point Knife
Material: 420 Stainless Steel
Color: Black, Blue, Lime



H6010 Standard Hood
Material:
6mm Skull Area,
3mm Neck and Face
Color: Black
Sizes: XS-XL

Dive Ladder – 10 FT.

Specifications:

- Durable 6061T6 aluminum material
- Frame – Rectangular tubing 1" x 2" x 1/8" thick
- Rungs – 1" dia. Round tubing
- 14" wide
- 20' extension option



Formula 8 Oxygen-Safe Thread Sealant



FORMULA-8 is specifically made for use as a thread sealant in dry conditions.

FORMULA-8 uses PTFE in a white thixotropic paste to seal threaded joints. The seals are formed over the entire thread length instead of just a fraction of the total convolutions. Unlike thread-sealing tapes, the size or length of the tread is not a limiting factor.

FORMULA-8 is perfect for natural gas applications! It is also chemically compatible with diesel fuel, liquid propane gas, oxygen, and in hydraulic systems. Even fine threads in instrumentation systems are sealed effectively over the entire thread length.

Applications:

- Natural gas applications
- Oxygen cylinders to eliminate leaks
- Plumbing in federally inspected food-processing areas (not for direct food contact)
- Hydraulic and fuel systems (use in pressures up to 10,000 psi)
- Moderate vacuum service
- Fine instrument threads
- Oxygen systems below 125°C
- Valves in bottle gases

* FORMULA-8 is available in 3.5 ounce squeeze tubes.

FORMULA-8 SPECIFICATIONS

| | |
|--|-------------|
| Auto-ignition Temperature (ASTM E659) – Hot Flame Minimum Ignition Temperature, °F Ignition Delay, seconds Barometric Pressure, torr | >1000 - 746 |
| Reaction Treshold Temperature for Pre-flame reaction Minimum Reaction Temperature, °F | >1000 |
| Appearance: white, light paste | |
| Texture: smooth light paste mixture, free of foreign matter | |

FORMULA-8 won't deteriorate from -400°F to +500°F, it's stable in pressures up to 3,500 psi and in vacuums 10-3 Torr.

FORMULA-8 required no curing time. Systems may be put back into service immediately. The paste “wets” the threaded surface and cannot be accidentally dislodged, making it especially useful in those hard-to-reach places.

LOX-8 Oxygen-Safe Thread Sealant



Some of the ideal applications for LOX-8 are as follows:

- Oxygen and chlorine systems
- Cryogenics
- Diving gear
- Nitrous oxide systems
- Medical equipment
- Pulp and paper processing
- Waste-water processing
- Welding

LOX-8 oxygen-safe thread sealant is available in both grease and paste, specifically formulated for wet conditions.

The excellent lubricity of LOX-8 results from our formulation of jelled oil of polychlorotrifluoroethylene (PCTFE), containing a high percentage of .5 to .05 micron polyterafluoroethylene (PTFE).

LOX-8 pipe joint thread sealant is highly recommended where oxygen, aggressive chemicals such as chlorine, or powerful oxidizers are present.

| LOX-8 Specifications | Paste | Grease |
|--|------------|------------|
| Worked Penetration @ 77°F, 60 strokes | 257 | 341 |
| Dropping Point, °F | 500+ | 500+ |
| Oil Separation (ASTM D1742) 24 hours @ 25°C and .25 psi, % | 0.05 | .57 |
| Shear Stability (Extended worked penetration) @77°F 10,000 strokes 100,000 strokes | 268 213 | 334 309 |
| Oxidation Stability (ASTM D942) – Pressure drop, PSI 100 hours 400 hours | 1 1 | 0 0.5 |
| 4-Ball Wear Test (ASTM D2266) 40kg, 1200rpm, 167°F, 1 hour (average wear scan) Diameter, mm | 0.81 | 0.95 |
| Texture: Paste – Pasty, free of lumps and foreign matter Grease – Smooth, homogeneous mixture | | |
| Appearance: Paste – Opaque light green in color Grease – Opaque light green in color | | |

*** LOX-8 paste and grease are available in 100 gram jars, 100 gram plungers and in one pound jars. ***

LOX-8 is odorless, non-corrosive and hydrophobic (waterproof). It is totally non-migrating and remains where it is applied. LOX-8 is ideal where repetitive assembly and disassembly are required, even after long periods of time.

Use LOX-8 where wet/humid conditions exist, in pressures up to 10,000 PSI. LOX-8 remains stable up to 450°F; it is nonflammable and nontoxic.

Scotchcast Inline Resin Splice Kit



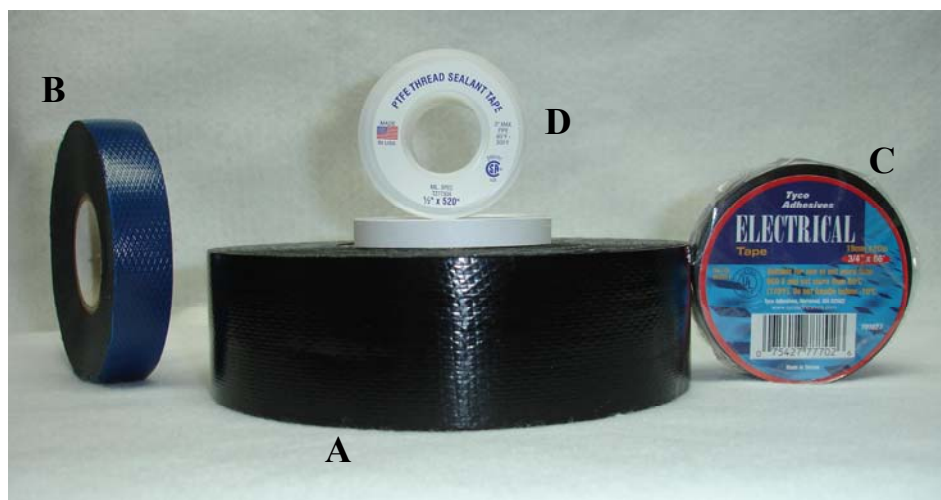
Part Number: 82-A1

The 82-A Series is UL Listed 486D, File Number E102356. Each kit makes one splice. Use the 3M™ Scotchcast™ Inline Resin Splice Kits 82-A Series to insulate and seal single conductor, unshielded cable splices through 5 kV and multiple conductor cables through 1 kV.

Sealants



| Letter | Part No. | Description |
|--------|----------|---|
| A | 14853 | ScotchKote 3M Electrical Coating |
| B | 732 | DOW 732 RTV Silicone Sealant, Clear, 3 fl. oz. Tube |
| C | DOW111 | DOW 111 Silicone Lube, 5.3 oz. Tube |

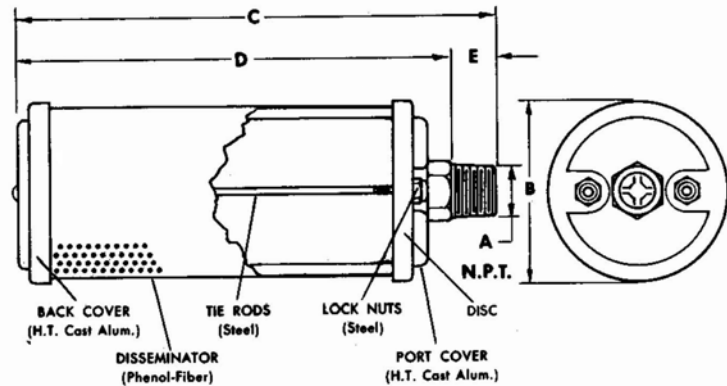


| Letter | Part No. | Description |
|--------|----------|----------------------------------|
| A | 229 | Black Duct tape 2", Case Lots |
| B | VALTARE | Rubber Splicing Tape, 3/4" x 22' |
| C | 70027 | Electrical Tape, 3/4" x 66' |
| D | 513W | Teflon Tape, TFE 1/2" x 520 |

Mufflers

Air Exhaust Muffler

EP Type – Single Chamber



Thoroughly proven by users on thousands of installations, the World Class Atomuffler superbly quiets Exponentially Perceived Noise (EPNdB). The Atomuffler satisfies the need to muffle explosive air exhaust noise discharged from valve exhaust ports to a comfortable quiet zone with optimized CV Flow Factor, thus substantially improving equipment performance.

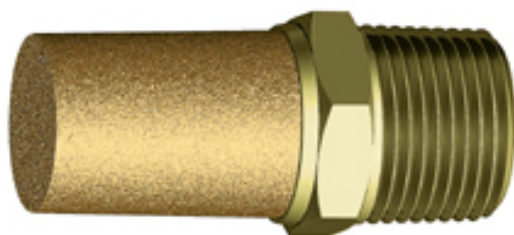
Constructed with a unique expansion chamber, completely free of obstruction, exhaust air flows softly to atmosphere free of noise, oil fog, and contaminants, providing a clean comfortable productive work environment.

Constructed entirely of corrosion resistant material for long life and maintenance-free performance, units are provided with a hex head, making it easy to attach exhaust ports. They should be mounted in a protective position, free from excess vibration.

| Model | M01 | M02 | M00 | M05 | M07 | M10 | M12 | M15 | M20 |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| A | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 |
| B | 1-7/8 | 1-7/8 | 2-5/8 | 3-1/4 | 3-3/8 | 3-7/8 | 3-7/8 | 5-1/8 | 5-1/8 |
| C | 3 | 4 | 4-3/4 | 5-1/2 | 6-3/4 | 8 | 8-1/4 | 13-1/4 | 13-1/4 |
| D | 2-5/8 | 3-1/2 | 4-1/4 | 5 | 6-1/8 | 7-1/4 | 7-1/4 | 12 | 12 |
| E | 3/8 | 1/2 | 1/2 | 1/2 | 5/8 | 3/4 | 1 | 1-1/4 | 1-1/4 |
| Wght./lb. | .25 | .31 | .50 | .62 | .75 | 1.0 | 1.0 | 4.0 | 5.0 |
| Exhaust Surface Area/in ² | 4.6 | 7.1 | 12.2 | 16.9 | 24.1 | 31.8 | 39.9 | 79.5 | 119.3 |

Mufflers Cont.

Porous Metal Filter & Muffler Male Pipe Thread Connection



**Selective Permeability, Optimum Filtering and Diffusion for Air, Fuels, and other Liquids,
Disperses Noise Tough, cellular sintered metal structure, secured to metal ferrule,
Provides desirable combination of strength and performance.**

Porous Metal units are effective for many applications including muffling of air valve noise; exhaust and intake filtering; cryogenic phase separation; coalescing of oil mist; water vapor, etc.; pressure or vacuum equalization; and many others.

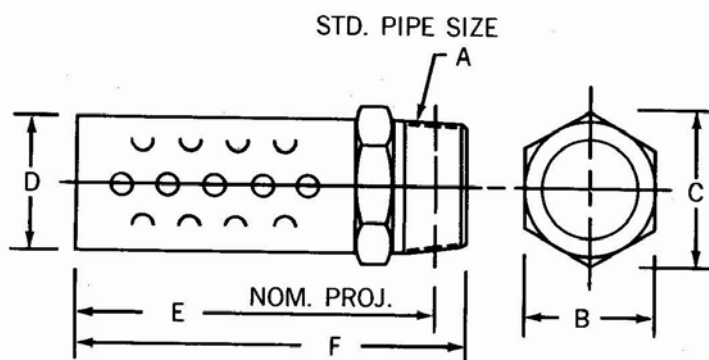
Compact and inexpensive, they are easy to install and maintain. Particularly suitable where space is limited. Unit should be mounted in a protective position free from exposure to excessive vibration and abuse. Use wrench on hex head to tighten unit to the device.

Standard Units are 40m filtration – 10m, 20m, 90m, and other micron ranges are available.

| Model | P18 | P28 | P38 | P48 | P68 | P88 | P108 | P128 | P168 |
|----------------|-------|---------|---------|---------|--------|---------|---------|-------|-------|
| Connection | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 |
| Overall Length | 27/32 | 1-13/64 | 1-29/64 | 1-57/64 | 2-1/8 | 2-27/32 | 3-7/16 | 4 | 4-3/4 |
| Hex | 7/16 | 9/16 | 11/16 | 7/8 | 1-1/16 | 1-5/16 | 1-11/16 | 2 | 2-3/8 |

Mufflers Cont.

Bantam Muffler BN Type



Tough, compact, and ideally suited for use where space is limited, Bantam Mufflers are durably constructed of corrosion resistant metal to withstand shocks and continuous heavy duty use under all sorts of conditions.

Designed with a precise distribution of peripheral openings, the Bantam Mufflers softly disperses exhaust air uniformly over a 360° pattern to provide completely effective reduction of objectionably air exhaust noise.

Supplied with a standard pipe thread fitting. Bantam Mufflers can be attached directly to the exhaust ports of air-operated equipment. Units should be mounted in a protective position, free from excessive vibration. Use wrench on the hex head to tighten unit to the device.

| Model | B18 | B28 | B38 | B48 | B68 | B88 | B108 | B128 | B168 |
|--------------|--------|---------|-------|---------|---------|---------|---------|---------|--------|
| A | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 |
| B | 7/16 | 9/16 | 11/16 | 7/8 | 1-1/16 | 1-5/16 | 1-11/16 | 2 | 2-3/8 |
| C | 1/2 | 21/32 | 13/16 | 1 | 1-1/4 | 1-1/2 | 1-31/32 | 2-5/16 | 2-3/4 |
| D | 7/16 | 9/16 | 11/16 | 7/8 | 1-1/16 | 1-5/16 | 1-11/16 | 2 | 2-3/8 |
| E | 1-7/32 | 1-17/32 | 2 | 2-13/32 | 2-13/16 | 3-15/32 | 4-5/32 | 4-19/32 | 5-1/16 |
| F | 1-3/8 | 1-3/4 | 2-1/4 | 2-23/32 | 3-5/32 | 3-7/8 | 4-1/2 | 5 | 5-1/2 |
| Weight (lbs) | .10 | .14 | .20 | .25 | .42 | .85 | 1.3 | 1.7 | 2.5 |

Norgren Air Silencers Quietaire Heavy Duty Mufflers



Features

- Reduce the noise levels of pneumatic equipment
- Prevent open line exhaust dangers
- Corrosion resistant
- High flow capacity with low back pressure
- Brass mesh screen and aluminum construction provide improved flow, longer life and cleanable element
- Prevent metal chips, abrasive grits, dust and other contaminants from entering open exhaust ports

Female thread

| Model | Port size | Flow factor Cv*/C** | kg |
|--------|-----------|------------------------|------|
| PTF | | | |
| MA001A | 1/8" | 0.8 / 3.26 | 1.05 |
| MA002A | 1/4" | 2.4 / 9.79 | 1.05 |
| MA003A | 3/8" | 5.7 / 23.3 | 3.53 |
| MA004A | 1/2" | 6.9 / 28.1 | 3.17 |
| MA006A | 3/4" | 18.0 / 73.4 | 15.9 |
| MA008A | 1" | 20 / 81.6 | 14.0 |
| MA010A | 1-1/4" | 42 / 171.4 | 21.9 |
| MA012A | 1-1/2" | 39 / 159.1 | 21.2 |
| MA016A | 2" | 59 / 241.0 | 26.8 |

*Cv measured in US/gall/min **C measured in dm³/(s.bar)

Technical Data

Operation: Exhaust Silencer

Medium: Compressed air, filtered, lubricated and non-lubricated inert gases.

Maximum Pressure: 300 psig (20.7 bar)

Maximum Temperature: 176°F (80°C)

Element: Brass wire

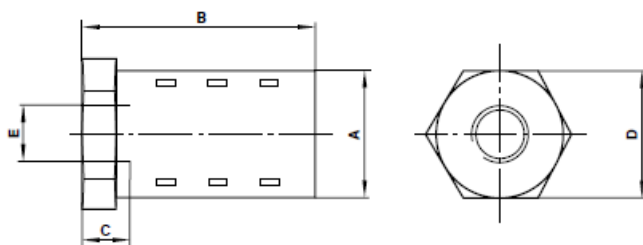
Base: Aluminum

Shell: Aluminum

Female thread dimensions

| Model | A | B | C | D | E* |
|--------|------|------|------|------|--------|
| MA001A | 0.83 | 1.65 | 0.24 | 0.81 | 1/8" |
| MA002A | 0.83 | 1.77 | 0.35 | 0.81 | 1/4" |
| MA003A | 1.26 | 3.07 | 0.35 | 1.25 | 3/8" |
| MA004A | 1.26 | 3.27 | 0.47 | 1.25 | 1/2" |
| MA006A | 2.01 | 4.65 | 0.47 | 2.00 | 3/4" |
| MA008A | 2.01 | 4.65 | 0.59 | 2.00 | 1" |
| MA010A | 2.52 | 5.67 | 0.59 | 2.50 | 1-1/4" |
| MA012A | 2.52 | 5.67 | 0.59 | 2.50 | 1-1/2" |
| MA016A | 2.99 | 6.61 | 0.63 | 3.00 | 2" |

For MA***A PTF-SAE SHORT according to ANSI-B1.20.1



Side Scan Sonar



Side scan sonar is one of the most effective tools for underwater exploration because it can search a large area quickly and produce a detailed picture of anything on the bottom, regardless of water clarity. When looking at a side scan image it appears as if the water has been removed and the operator is getting an unobstructed view of the ocean floor, lake bottom, or river bed. High resolution images are sent from the towfish to a topside computer (included with the system) for display and storage. An optional Splash-proof computer is available for small, open boat operations. Fishers SONAR VIEW software gives the operator complete control over the systems operating parameters. Choose between 10 different scan ranges and 8 color schemes to display images. Connect a GPS and position coordinates are automatically captured with the side scan data. Click the mouse on a target and the position coordinates are displayed on the screen.

Fishers offer three different side scan systems the SSS-100K, the SSS-600K, and the SSS-100K/600K dual frequency side scan.

The 600K single frequency side scan is ideal for law enforcement, and dive rescue operations. It produces very high resolution images at ranges up to 200' (400' swath). This high frequency sonar can show small, soft targets like a drowning victim, clothing, etc. that lower frequency (100K to 300K) sonar's have difficulty detecting. The 600K side scan is also popular with wreck hunters and archaeologists searching for old wood vessels that may be broken up or decomposing. The limitation of the 600K is its shorter range as compared to the 100K side scan.

The SSS-100K single frequency side scan is best for wreck hunting or general search applications such as locating pipelines, logs, rocks, and reef structures, large propellers, and sunken vessels. It has excellent long range capabilities (up to 1,800' per side/3,600' swath) for locating large wrecks. When operating in the shorter ranges it clearly shows objects less than 1 foot in diameter.

The SSS-100K/600K side scan has both low and high frequency transducers in one towfish. It offers the best features of both systems. The operator can switch between 100K and 600K at any time during operation. Typically a search begins using the 100K on one of the longer range settings. When a target is spotted, the operator switches to the 600K and makes a closer pass to get the highest resolution image. **NOTE:** Some side scan manufacturers have separate towfish for each frequency. To switch frequencies, one towfish must be reeled into the boat and another deployed; an inconvenient and time consuming operation. With Fishers dual frequency side scan, both high and low frequency transducers are mounted in one towfish.



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Harvey, LA 70058 USA
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FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

Side Scan Sonar Cont.

All of Fishers side scan sonar's come with a 500 foot depth rated towfish, 150 feet of cable, a laptop computer and Fishers SONAR VIEW software. The computer displays a real time color image of the ocean floor. The screen is split down the middle with the right side showing the ocean bottom on the right side of the vessel, and the left side of the screen shows the ocean bottom on the left side of the vessel.

The SONAR VIEW software gives the side scan operator complete control of all system functions with easy to use pull-down menus and icons on the screen. The operator can change colors, ranges, amplifier gain, and other controls with a click of the mouse. With the computer, side scan images can be stored in memory for playback and post processing at any time in the future. Small file sections including screen shots can be copied for emailing. A GPS system can also be connected to the computer to capture position coordinates with the side scan data. Once GPS is connected the mouse cursor can be placed on any screen object and its position coordinates will be displayed. Sonar files can be stored on the computer's hard drive or to DVD.

An optional mapping feature shows the boat's path as it travels over the search area and the sonar coverage swath. It's all displayed on the grid with altitude and longitude as the X and Y axis. This option makes it easy to search even large areas and ensures no part of the area is missed. The map can be shown in a separate window on the same screen as the side scan image, or the map can be displayed on a separate computer. The user can also control the size of the map.

An optional splash proof computer with ultra bright display is also available for small, open boat operations. The splash proof computer is not only great when it's wet; on sunny days the ultra bright display makes the screen much easier to see. The splash proof comes with a DVD recorder for file storage.



PRO-AM 1050 Dry Suit



The PRO-AM is a vulcanized rubber suit manufactured from an NR/EPDM blend. This medium weight suit features good stretch characteristics for comfort, and a three layer construction for durability.

PRO-AM suits are ideal for sports, military, and light commercial applications.

- Average material weight 1200 gm/m²
- Easy to clean and repair
- Vulcanised seams, lifetime seam warranty
- Carbon black reinforced sole and crotch area
- Pyramid reinforced shoulders, waist and knee/shin areas
- Heavy duty manchette wrist seals
- Optional fitted neoprene, latex or rubber hoods
- Glove ring systems available
- Boot size options, and safety boots available

PRO-HD 1500 Dry Suit



The PRO-HD is a tough NR/EPDM blend rubber suit made to endure the harshest conditions.

The PRO-HD features extensive reinforcements, and OVERSIZE BOOTS made to accommodate extra undersocks for extended cold water immersion. PRO-AM boot sizes can be fitted if the suit is to be used with fins.

The PRO-HD can be fitted with a variety of helmet yoke options.

- Average material weight, 1600 gm/m²
- BDM 6 pitch heavy duty zip
- Extensive shoulder waist and knee/shin reinforcements
- Smooth exterior for easier decontamination
- Yokes available for all leading helmets
- Glove ring systems available
- Choice of smaller volume boots for sports diving
- Neoprene, latex or rubber hood options
- Each suit supplied with hold all, repair kit, and manual

PRO-HD 1500
with 12 bolt
helmet yoke



PRO-SBX 400 Dry Suit



This lightweight, but hardwearing suit is manufactured from polyester trilaminate material which is extremely comfortable to wear. The price is astounding for a suit of this quality, when you consider that it also includes Hunter vulca-seam technology. Another first is the availability of colored printed shoulder and knee panels. Colors currently available are blue or grey “water effect” prints, and a yellow and grey “bubble” pattern.

- Average material weight, 400gm/m²
- Durable, abrasion resistant polyester trilaminate material
- Vulcanised seams, lifetime seam warranty
- Hunter latex dipped neoprene lined boots
- Detachable braces included

Colors:

- All Black, Black/Blue, Black/Grey, Black/Yellow

PRO-VSN 1100 Dry Suit



The PRO-VSN is a hybrid stretch trilaminate suit, manufactured by, and unique to Hunter. The material comprises of an inner & outer layer of 'Armatex' jersey nylon, with a mid-ply of specifically compounded rubber. The overall material gauge is approximately 2mm. The material is non-compressible, therefore you will experience absolutely no loss of buoyancy or insulation. This tough wearing, comfortable suit features our Vulca-Seam jointing technique for peace of mind, and includes Gates own 5mm lined neoprene latex covered boots. There are a variety of accessory options including pockets, relief zips, warm neck collar or attached hood.

- Average material weight 1100 gm/m²
- Unique hybrid stretch material
- Armatex jersey nylon exterior
- Non compressible stretch material
- Vulcanised seams, lifetime seam warranty.
- Flexible, warm 5mm neoprene lined latex covered boots
- Glove ring systems available
- Complete with adjustable removable braces
- Durable rubber knee pads



PRO-VSN TEK

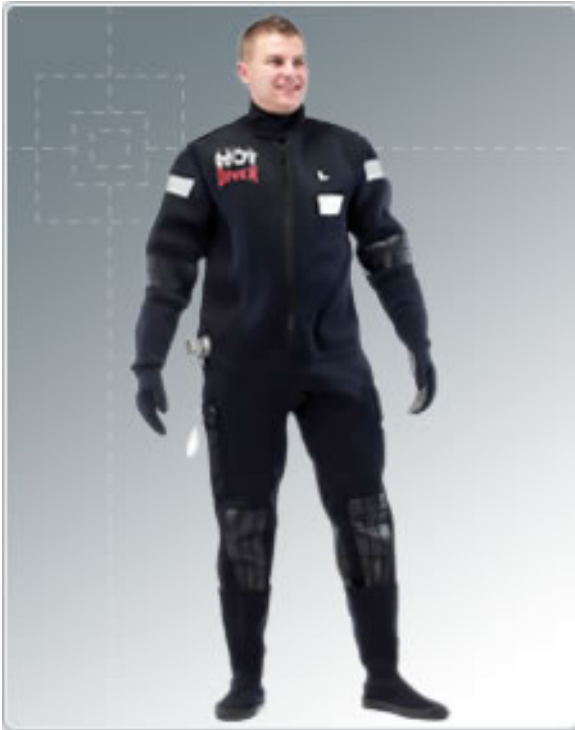


Vulcanised Seams



Flexible Boots

Hot Water Suits



Developed over the past 20 years – The suit is based around a unique heavy anodized aluminum water distribution valve, with its unique 360 degree stainless steel quick-connector. The water flows along an anti-kink rubber pipe profile.

The pipes are held in place by a padded neoprene cover for comfort. All pipe runs are directed for comfort during those long bell runs.

The arms and legs can be trimmed to length and the pipe passed backwards through the ladder hole adjusters. There is the facility on the pipe, for the front chest and back neck, to take a hot water feed to the mask to heat the faceplate.

The suit is supplied with either a CPC ¼" quick-connect plastic coupling (male and female part) or a ¼" inline double-barb plastic connector.

The shell body is constructed from high grade non-shrink neoprene with a high rubber solids content, lined on the outside with a durable Swiss pique canvas fabric.

Suit Features:

- Polymer reinforced knee and shin pads. This and the adjacent polymer reinforced embossing which circles the legs in the calf area is ideal for duct and taping boots or socks to the suit.
- 2 deep pockets with drain holes and equipment attachment eyelets. On the right pocket is small safety knife (80mm blade) in a webbing sheath with bungee cord retaining lanyard.
- Suit closure is by a heavy-duty Vislon YKK zip, 6 teeth to the inch.
- Wrap-over neoprene neck with fleece lining.
- Velcro attached name patch for suit identification (2 supplied with suit).
- Neoprene shoulder epaulettes – can be used as shoulder harness retainers (prevents harness from slipping off the shoulders).
- Light reflective strips on upper arms.
- Plastic embossed elbow area which continues round the arm, which is ideal for duct taping gloves to the suit.
- Write area has two pieces of diagonal Velcro for glove attachment.

**Available in
Sizes: S – M – ML – L – LR – LT
XL – XLT – XXL – XXLT**

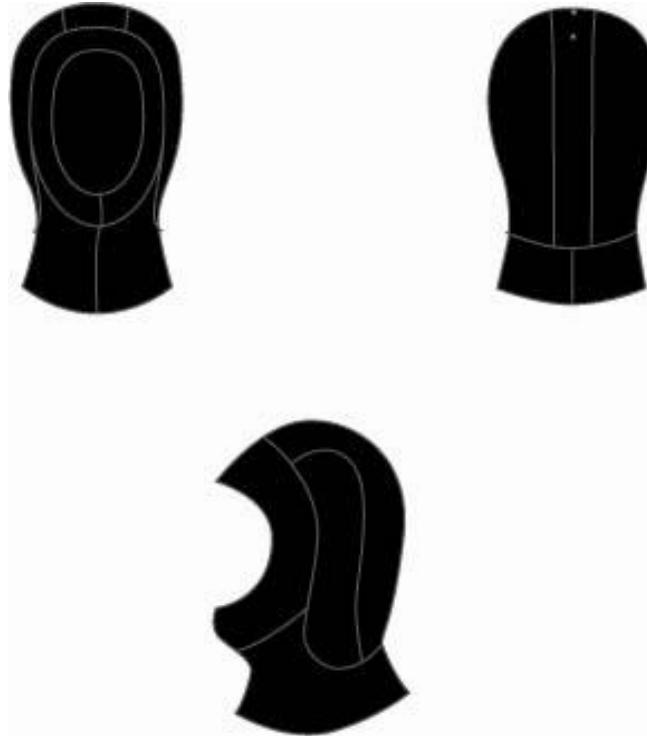
6.5MM Standard Step-In Wetsuit (Male)



Jacket + Farmer John

- Titanium coated neoprene
- Spine pad
- Duraguard kneepads
- Blindstitched outside & inside entire suit
- Model: S6026 (Male)

7/5 MM Advance Stretch Short Hood



- 7mm Advance 4-Way Stretch skull
- 5mm Advance 4-Way Stretch smooth skin face seal
- 5mm Advance 4-Way Stretch neck
- Watertight blind-stitched throughout
- Multiple vents that vent excess air inside hood
- Model: H7059

Wetsuit Gloves



G5038
5mm Tatex Sealed Glove
Black
XS-XL



GK524
5mm Kevlar Velcro Glove
Black
XS-XL



G5656
5mm PL Grip Glove
Black
L-XL



G3038
3mm Tatex Sealed Glove
Black
XS-XL



G5446
5mm Supratex Velcro Glove
Black
XS-2XL



G3636
3mm PL Grip Glove
Black
XS-XL



GK324
3mm Kevlar Velcro Glove
Black
XS-XL

Wetsuit Gloves Cont.



G3346
3mm Titanium Velcro Glove
Black
XS-2XL



G2068
2mm Superstretch Glove
Black
XS-XL



G1366
1.5mm Mesh Reef Glove
Black
XS-2XL



G1366
1.5mm Mesh Reef Glove
Black/Blue, Black/Yellow
2XS-2XL



G1316
1.5mm Reef Glove
Black
XS-2XL



GK156
1.5mm Kevlar Velcro Glove
Black
S-2XL



G1550
1.5mm Supratex Velcro Glove
Black
XS-XL

6.5 MM Glideskin Expressway Molded Color Sole Zip Boot



- 6.5mm GlideSkin top
- Water barrier YKK #8 zipper
- ExpressWay molded color sole
- Comfort arch design
- Glued and blindstitched
- Model: BP750

Wetsuit Boots and Knives



B7000 Titanium Molded Sole Boot
Material: 7mm Nylon II
Color: Black



Titanium Vulcanized Zip Boot
Material: 5mm Nylon II or
3mm Nylon II
Color: Black
Men's Sizes:
B5225 : 5-14 : 5mm Nylon II
B3225 : 4-13 : 3mm Nylon II



K800-1 Deluxe Blunt Tip Knife
Material: 420 Stainless Steel
Color: Black, Blue, Clear



K900-1 Deluxe Drop Point Knife
Material: 420 Stainless Steel
Color: Black, Blue, Clear



**B7320 Heavy-Duty
Vulcanized Boot**
Material: 7mm Nylon II
Color: Black
Men's Sizes: 7-13

B3230 Vulcanized Beach Boot
Material: 3mm Nylon II
Color: Black, Black/Blue
Men's Sizes: 5-13



B3240 Pull-On Sock
Material: 3mm Nylon II
Color: Black
Sizes: XS-XXXL



K600 Standard Blunt Tip Knife
Material: 420 Stainless Steel
Color: Black, Blue, Lime



K700 Standard Drop Point Knife
Material: 420 Stainless Steel
Color: Black, Blue, Lime



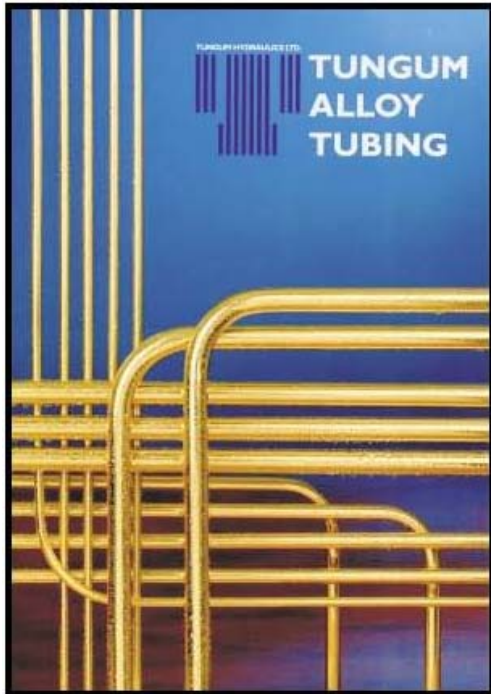
H6010 Standard Hood
Material:
6mm Skull Area,
3mm Neck and Face
Color: Black
Sizes: XS-XL

Diver Drop Point



- 5" Stainless Steel blade
- Comfortable handle with thumb guard and finger notches for secure grip
- Sharp tip with smooth, serrated & line cutter edge
- Includes locking sheath
- Includes two rubber straps
- Disassembles for cleaning
- Model: K601

Tungum Alloy Tubing



Tungum Alloy (Aluminum-Nickel-Silicon-Brass) combines an unusually high strength to weight ratio, w/ ductility, excellent corrosion resistance and first class fatigue properties. Highly resistant to sea water and its atmosphere, Tungum resists both stress and crevice corrosion to offer outstanding serviceability, even at intermittent duty in the highly corrosive “splash” zone.

Non-magnetic and non-sparking properties make Tungum invaluable in piping high pressure gases, particularly oxygen where its thermal conductivity/diffusivity characteristics virtually eliminate the potential dangers present when lesser materials are employed. Tungum Alloy is a cryogenic material, suitable for chemical engineering and low temperature processes. Its corrosion resistance often enables its use in conveying fluids and gases containing corrosive elements.

Tungum is uncommon among copper alloys, in that heat treatments include precipitation hardening. This enables its physical properties to be increased or decreased as required, to suit the circumstances prevailing. Tungum’s high proof to ultimate stress ratio enables system proof tests to be conducted well above working pressure,

without risk of permanent set taking place. When used in high pressure hydraulic or pneumatic circuits, these features together w/ inherent “clean bore” characteristics, combine in affording an easily constructed, high integrity system, requiring a minimum of purging and no external protective treatment.

Maximum Working Pressure

In engineering installations, convention and common sense both demand that a factor of safety be applied when establishing the sections of materials to be used. The maximum working pressure will be the minimum theoretical burst pressure of the particular section divided by the desired factor of safety. BS1306 recommends a factor of safety of 4:1 for copper alloy tubes used in pressure vessels. If during fabrication a tube has to be heated to a temperature in excess of 700, its original properties may be resorted by a precipitation hardening treatment carried out at 500 for 1 hour and air cooling.

System Proof Testing

The high proof to ultimate strength ratio of Tungum Alloy enables Tungum systems to be hydrostatically tested at pressure well above those at which the system will ultimately work. No tube should, however, be tested at more than 43% of the appropriate burst pressure.

Length of Tungum Tubing

Tubes supplied to DTD Specifications are in random lengths of 15/17 feet. Tube to Specification TCL100 is supplied in random lengths of 13 feet and over average length 18/20 feet. Subject to prior agreement, longer lengths of tubing can be supplied.

Divers Umbilical Assemblies



5-Part Umbilical



4-Part Umbilical



3-Part Umbilical
* Shown with
optional sheathing

NOTE: Fitting shown ONLY for picture – no pneumo fittings required for divers end.

| Standard Features | 5-Part Umbilical Part No: 5PTUMB | 4-Part Umbilical Part No: 4PTUMB | 3-Part Umbilical Part No: 3PTUMB |
|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Gates 33HB Hose | * | * | * |
| Spiral – 4 comm wire | * | * | * |
| Pneumo Hose – 1/4" #3630 | * | * | * |
| Hot Water Hose – 1/2" #1154 | * | | |
| Polypro Rope – 3/8" | * | * | |
| Diver D-Ring | * | * | * |
| O ₂ Fittings | * | * | * |
| Bare wire comm. Connection | * | * | * |
| Taped every 6-8" – 6-8 wraps | * | * | * |
| 2" wide Black Duct tape | * | * | * |
| Pressure test certificate | * | * | * |

| Options | |
|-----------------------------|---|
| Fittings | 3/8" Hose x #6 JIC Reusable 3/8" #6 JIC Barb with SS Bands 3/8" x O ₂ Barb with SS Bands |
| Communications | Divers End – 4-pin Female Marsh Marine Topside: (2) Dual Banana Plugs |
| Sheathing Protection | High-density weave (variety of colors available) |
| Snap Shackles | 5000 lb |
| Light-Power cable | 2 conductor, 16 gauge |
| Video Cable | Conductor: 14 #22 awg & 1 mini RG-59 coax |

Note: Divers end

6' extra Pneumo & comm.
wire.

20' extra topside Pneumo
& comm.. wire

Gates 33HB Diver's Air Hose



Industrial Hose Products



Air and Multi-Purpose Hose

33HB (Divers' Air) (Specification 3333)

| Nom. I.D. | ⊖ | Nom. O.D. | ⊕ | Max. W.P. | ⊕ | Suction | ⊖ | Min. Bend Radius | ⊕ | Wt. Per Ft. | ⊕ | Standard Pack | Stock (X) or Minimum Order Qty. | Gates Item No. |
|-----------|------|-----------|------|-----------|-------|----------|---------|------------------|------|-------------|------|---------------|---------------------------------|----------------|
| (In.) | (mm) | (In.) | (mm) | (psi) | (MPa) | (In. Hg) | (mm Hg) | (In.) | (mm) | (Lbs.) | (Kg) | | | |
| 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .19 | .09 | 600-699 ft. | X | 3333-0015 |
| 3/8 | 9.5 | .75 | 19.1 | 1125 | 7.76 | 30.0 | 762 | 4.0 | 102 | .19 | .09 | 1000-Plus ft. | X | 3333-0017 |
| 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.90 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 50-299 ft. | X | 3333-0038 |
| 1/2 | 12.7 | .94 | 23.9 | 1000 | 6.90 | 30.0 | 762 | 5.0 | 127 | .29 | .13 | 1000-Plus ft. | X | 3333-0035 |

RECOMMENDED FOR: Handling mixtures of oxygen, helium and nitrogen gases customarily used in diving applications as air breathing hose. The kink resistant hose is designed for extra long wear under normal operating use.

TEMPERATURE: -40°F to +120°F (-40°C to +49°C) continuous service.

CONSTRUCTION: **Tube:** Type C (Nitrile). Black.
Reinforcement: Braided, high tensile synthetic textile cord.
Cover: Type A (Neoprene). Black. All sizes are perforated.

COUPLINGS: Corrosion resistant couplings supplied and applied by diving contractors.

PACKAGING: 3/8" and 1/2": Packaged 300' and longer lengths. One continuous length on a reel.

BRANDING: Continuous ink print label. Example: "GATES® 33HB DIVERS" AIR 3/8 INCH (9.5mm) MADE IN U.S.A."

SPECIAL ORDER REQUIREMENTS: Contact Gates Corporation for special orders. Special production runs require minimum order quantities of 10,000 feet per size. Special production runs for SPECIFIC LENGTHS require minimum order quantities of 10,000 feet per size and a 35% (x 1.35) premium to price.

REMNANT LENGTHS: None.

STANDARDS: Meets MIL-H-2815G Section 3.12.2 off-gassing for air breathing applications, especially diving.



639 Manhattan Blvd.
Harvey, LA 70058 USA
TEL: (504) 362-8124
FAX: (504) 362-3600
www.aquaairind.com

EMAIL sales@aquaairind.com

Communications and Power Cable

| | |
|--|--|
| Number of strands per Conductor and Gauge (AWG) of strand | 7/26 – 18 Gauge Stranded PCW, 7 pcs 0.406mm |
| Number of Conductors | 4 |
| Twisting Type | Back twisted to prevent bleeding. Isolated conductors are to be twisted like a four side start and a 0.93mm Ø central filler is put in the middle and twisted to the lefthand side which creates a back twist every 100mm max. Conductors must not be fused. |
| Conductor Material | Standard Copper – 0.40mm |
| Outer Jacket Material | PVC Type II A |
| Nominal outside diameter | 10.10mm |
| Thickness | .80mm |
| Color | RAL2007 Hellorange |
| Braid Material | 304 Stainless Steel |
| | 0.32mm, 16 Strands |
| Tape Material | Carbon cloth 0.13mm thickness, 25.0mm width |
| Inner Jacket Material | Polyethylene |
| Thickness | 0.762mm |
| Colors | Red, Black, Green & Brown |
| Central Filler | Transparent Polyethylene 0.93mm |
| Outer Marking – Color Black | CX1066 AQUA-AIR (504) 362-8124 CE RATED #023356 |
| Length | Meter markings required |
| Standard reel | 5,000+ ft. continuous length |
| * Both ends of cable must be exposed and continuity test cert. must be included with each reel * | |
| Net Weight | |
| Reel | 800mm x 400mm |
| 5,000 ft. Cable | 171kg |
| Shipping Weight | |
| 5,000 ft. with Reel | 215kg |
| Shipping Dimensions of 5,000 ft. reel | |
| Diameter | 800mm |
| Width | 400mm |
| <u>Optimum Electrical Measurements</u> | <u>Standard Value</u> |
| Function Control | Open Short Circuit |
| DC Conductor Resistance | Max 19.7 Ohms/Km |
| Insulation Resist (500VDC) | Min 5000 M Ohms/Km |
| Part Number | CX 1066 |
| CE Rated #023356 | |

Specifications are subject to change without notice.

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AAI Pneumo Hose



A general service PVC air and water hose for indoor or outdoor applications requiring a lightweight hose that can operate at lower temperatures.

Construction:

- Tube – Black PVC compound
- Reinforcement – High tensile strength yarn
- Cover – PVC compound

Features:

- Economical, lightweight, low temperature alternative to rubber hose
- Excellent abrasion resistance
- 300 PSI working pressure on all sizes
- U.V. and weather resistant
- Non-marking pin –pricked cover
- Complies with RMA's Class B designation for medium/high oil resistance
- One piece lengths
- Formulated for low temperature flexibility

Specifications

| | |
|--|------------------------------|
| Temperature Range | -15 to 150° F -26 to 65°C |
| Nominal ID Size | 3/8 Inches 9.5 mm |
| Nominal OD Size (Inches/mm) | 0.600 (15.2) |
| Max. Working Pressure at 70° F (20° C) | 300 PSI |
| Max. Working Pressure at 122° F (50° C) | 150 PSI |
| Std. Length | 500 ft. |
| Approx. Weight | 48.4 lbs. |
| Hose Assembly Fittings (M NPT) | 3/8 x 1/4 Inches |

O₂ Hose/Hot Water Hose



Construction:

Series K1154/K1156

- Tube – Black PVC compound
- Reinforcement – High tensile strength yarn
- Cover – PVC compound, available in two colors: K1154 – red & K1156 – blue

Features:

- Economical, flexible and lightweight
- Excellent abrasion resistance
- U.V. and weather resistant
- Non-marking pin-pricked cover
- Silicone-free core and cover
- Complies with RMA's Class B designation for medium/high oil resistance
- One piece packaging, no random lengths

Service Temperature Range: +14°F (-10°C) to 150°F (+65°C)

| Series No. | | Size Code | Nominal ID | | Nominal OD | | Max. Working† Pressure (PSI) | | Standard Length Reels | Approx. Wt. per Pkg. |
|------------|------------|-----------|------------|------|------------|------|------------------------------|----------------|-----------------------|----------------------|
| K1154 Red | K1156 Blue | | (in) | (mm) | (in) | (mm) | @ 70°F (20°C) | @ 122°F (50°C) | | |
| √ | √ | 06 | 3/8 | 9.5 | .625 | 15.9 | 300 | 150 | 500 ft. | 56 lbs. |
| √ | √ | 08 | 1/2 | 12.7 | .750 | 19.1 | 300 | 150 | 500 ft. | 77 lbs. |

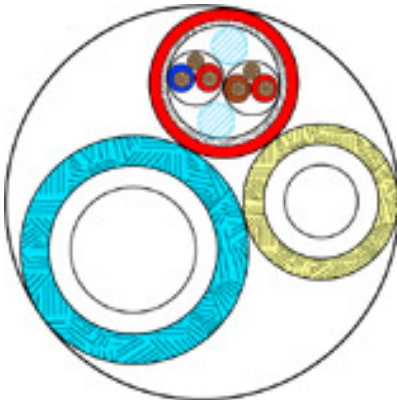
Fibron Umbilical's

Bell Umbilical's



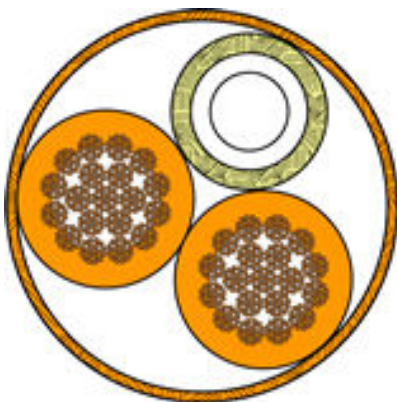
This product range includes umbilical's for Life Support applications such as Main Bell, Wet Bell and Habitat diving. Hoses and cables are incorporated providing services such as gas and hot water supply, gas reclaim, depth monitoring, power supply, communications, and video transmission. All umbilical's are of a rope like twisted construction and are supplied with either polyethylene monofilament over braid or extruded jacket. All design and manufacture, testing and termination takes place in-house specifically for the required application. Cortland Fibron has a proven track record in the supply of umbilical's to the highest standards. Approval is available as required, e.g. Lloyds Register of Shipping, Det Norske Veritas, American Bureau of Shipping, etc.

Diver Umbilical's



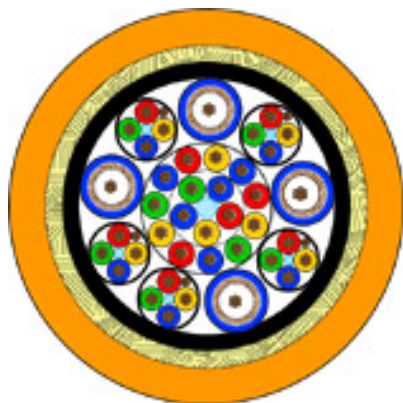
Cortland Fibron has many years experience in the design and manufacture of Divers Umbilical's for both Surface Demand and Bell Excursion applications. Hose types are available to suit specific applications considering pressure rating, flexibility, and abrasion resistance. Hoses are twisted with cables to provide all power, communications, and video requirements, and lifelines can be incorporated where required. Various end fitting and electrical terminations are available to suit specific requirements.

Welding and Burning Umbilical's



Umbilical's are custom built to combine gas and electrical supply for all welding and burning applications. Welding cable is available in either copper or aluminum in various sizes to suit specific requirements. Gas supply hoses are combined with cables in a twisted construction and over braided with polyethylene monofilament. Communications, video and power cables can also be included. Terminations can be supplied for both hose and electrical components.

Fibron Umbilical's Cont.



One Atmosphere Diving Suit Cables

Designed and manufactured in-house, these life support cables are built to provide all required power, communications, and video to the diver. Armored and neutrally buoyant variants are available. With many years design and manufacturing experience Cortland Fibron is able to supply fully terminated cables in accordance with your specific requirements. Using the extensive facilities at our disposal rigorous test programs can be implemented to ensure that only the highest standard or product is supplied.



Tooling Umbilical's

Umbilical's can be designed and manufactured to accommodate the requirements of various hand held and other subsea tools for such applications as cutting, riveting, hull cleaning, etc. Hydraulic or pneumatic hoses can be supplied along with any control, power or video cables in a compact and robust package. All umbilical's come with terminations and full testing as required.

AAI Float Hose



A high-quality, yellow PVC braided hose made from ingredients listed in the FDA Code of Federal Regulations, Title 21. Made to strict standards, TB130 offers a high quality hose in both FDA and industrial markets.

| Physical Properties | |
|---------------------|-----------|
| Safety Factor | 4-1 |
| Hardness | 75 A |
| Color | Yellow |
| Specific Gravity | 1.21 |
| Gravity in Water | Buoyant |
| Tensile Strength | 2330 psi |
| Working Pressure | 300 psi |
| Bend Radius | 2 inches |
| Continuous Lengths | 2500 ft |
| Brittle Temperature | -38° |
| Nominal I.D. | 3/8" |
| Nominal O.D. | 5/8" |
| Fitting Type | Long Barb |

Options: Can be made into a 3, 4, or 5 part divers umbilical.
Custom colors are available as well as custom printing on the hoses.
(Minimum orders may apply)

Super SeaCam® 5000 Low-Light CCD Camera



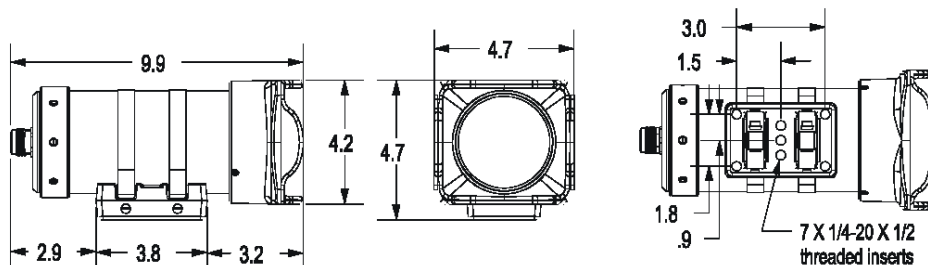
The Super **SeaCam®** 5000 underwater monochrome video camera produces excellent images at affordable prices and is designed for either low-light or long range viewing applications at depths to 6000 meters (20,000 feet). The Super **SeaCam®** 5000 is particularly suited for use as a primary navigation camera for any type of ROV application.

The Super **SeaCam®** 5000 is available with Titanium (6000m) or Aluminum (3000m) housings to suit your depth application. TO ensure razor sharp image quality, the glass port is polished to optical standards and treated with an anti-reflective coating. A sturdy mounting bracket and Delrin™ crashguard are included.

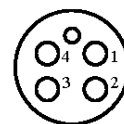
DeepSea's lights, cameras, batteries, lasers and temperature sensors are used daily in the most demanding environments on planet Earth. The Super **SeaCam®** family of cameras continues our commitment to designing best-value products for the user who demands uncompromising quality, reliability and service.

- 0.001 Lux Sensitivity
- 1/3 the Cost of a SIT Camera
- CCD Reliability – Burn Resistant
- 108 Degree Angle of View with Dome Port
- Automatic Backlight Compensation

Super SeaCam® 5000 Specifications



Pin-out



BH4MP
1 = Ground
2 = Power
3 = Video
4 = Not Used

MECHANICAL

| | |
|------------------|--|
| Material: | Titanium, Aluminum |
| Overall Length: | 25.20 cm (9.90 in.) |
| Outer Diameter: | 9.45 cm (3.75 in.) |
| Port: | Optically polished glass |
| Weight in Air: | Ti – 2.95 kg (6.50 lbs) Al – 1.86 kg (4.11 lbs) |
| Weight in Water: | Ti – 1.54 kg (3.41 lbs) Al – 0.43 kg (15 oz) |

OPTICAL

| | |
|-------------------------|---------------------------------------|
| Lens: | 3.8 mm, f 0.80 |
| Focus: | Fixed |
| Working Dist: | 60 cm to infinity |
| Field of View in Water: | |
| With Dome Port: | 108 deg (D) x 96 deg (H) x 78 deg (V) |
| With Flat Port: | 80 deg (D) x 69 (H) x 53 (V) |

VIDEO

| | |
|------------------|---|
| Image Sensor: | 1/2 – inch CCD Sensor |
| Pixels: | EIA: 768 (H) x 494 (V) CCIR: 752 (H) x 582 (V) |
| Resolution: | 570 lines horizontal |
| Sensitivity: | 0.001 Lux @ f 0.80 |
| Signal to Noise: | More than 46 dB |
| Video Out: | Composite, 1.0 volt (peak to peak) |
| Video Formats: | EIA, CCIR |

ELECTRICAL

| | |
|----------|------------|
| Power: | 9 – 30 VDC |
| Current: | 160 mA |

ENVIRONMENTAL

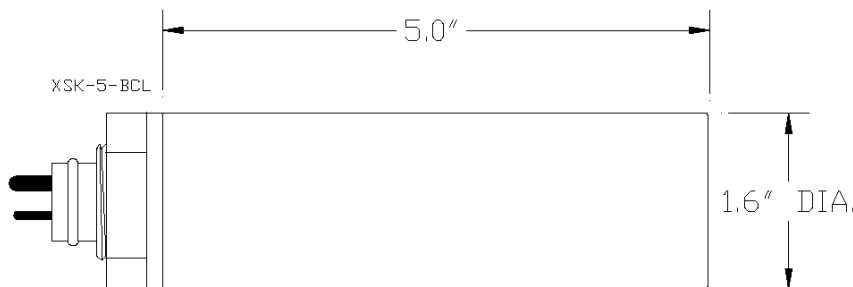
| | | |
|-----------------|---------------------------------|---------------------------------|
| Depth: | Titanium 6,000 m (20,000 ft) | Aluminum 3,000 m (10,000 ft) |
| Operating Temp: | 0 – 50 deg. C | |
| Storage Temp: | -20 – 60 deg. C | |

UWC-300 and 325 Underwater Mini Cameras



Mechanical:

| | |
|--------------|---|
| Length | 5 in. (125 mm) (excluding connector) |
| Diameter | 1.58 in. (40 mm) |
| Weight | Dry 6 oz. (.2 kg) Wet 3 oz. (.08 kg) |
| Depth Rating | 1000 ft. (300 m) |
| Housing | Black Delrin |



**Uses Include: Helmet Mount,
Manipulator Arm, Hand-Held,
Drop Camera, etc.**

| | UWC-300 (Black & White) | UWC-325 (Color) |
|-----------------|---|--|
| Image Device | 1/3" Exview CCD Sensor 411,000, Pixels | 1/3" Exview CCD Sensor 410,000 Pixels |
| Sensitivity | .0003 lux @ f1.2 | .001 lux |
| Resolution | 600 Horz. Lines | 550 Horz. Lines |
| PWR (12-24 VDC) | @ 110 ma. | @ 120 ma. |
| Lens | E-Iris, 3.6 mm f1.4 | E-Iris, 3.6 mm f1.4 |
| Horz. FOV | 70 deg. | 70 deg. |

Connector:

Standard Connector: XSK-4-BCL
(Mate is RMK-5-FS)

1. Video (White)
2. Ground/Common (Black)
3. +12-24 VDC (Green)

Options:

1. CCIR (PAL) Format
2. Customer specified connector
3. Stainless housing, (2k & 6km)

*** Other camera models are available upon request ***

AAI Underwater Lights



Model 400 – Mini-Brite

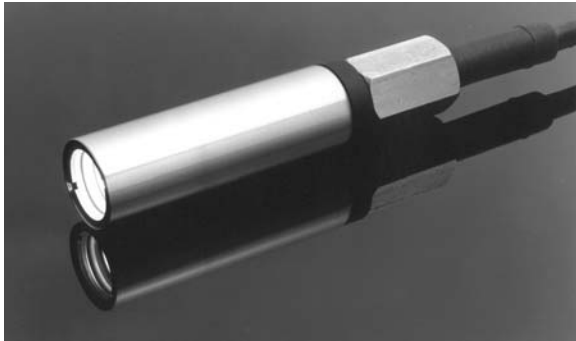


Model 1000 – Aqua-Lite II

| Specifications | Model 400 | Model 1000 |
|------------------|-----------------------|--|
| Diameter | 1.625" | 3.25" |
| Length | 5.135" | 5.62" |
| Weight | 1.2 lbs. | 15.8 oz. |
| Housing | 316 Stainless | 6061 Aluminum |
| Light Port | Pyrex | Pyrex |
| Depth Rating | 3000 ft. | 3000 ft. |
| Connector | BEM-3P-S4 | BEM-3P-S4 |
| Mating Connector | 120 volt-RM3-FS | 120 volt-RM3-FS |
| Voltage | 120 volts | 12, 24, 80, 120 volts |
| Wattage | 250 watts max | 250 watts max |
| Bulb | Q150 | As Specified |
| Range | 75 watts to 250 watts | 12/25, 12/50, 12/100, 24/200, 24/250, 30/80 AC or DC |

Note: Ground fault Interrupters (GFI) should be used with 120 volt current.

Birns Underwater Lights



MiteyLite

The Model 5742, **BIRNS MiteyLite** features a Ø32mm diameter, non-browning lens, 30-second tool-free relamping, 60° beam, and very good 3000K “white” light. Mates to CEF3S power cable assembly. Choose 75w, 100w, 150w, or 250-watt lamps (120v or 240v). Ideal for video cameras and manipulator arms. A stainless version, Model 5743, is also available.

The BIRNS MiteyLite features:

- 30-second tool-free relamping
- Very small Ø32mm profile
- Easy, wire-free maintenance



Snooperette-Lite

The Model 5672 **BIRNS Snooperette-Lite** is the world’s best low-voltage general-purpose underwater light: versatile, small (Ø76mm), and be perfect for divers, camera,s and ROVs. It can be helmet-mounted, hand-held or yoke-mounted, and it’s “white light” color is excellent for illumination, filming, and videotaping. Instant ON/OFF and hot-restrike capability. Model 5672 uses detachable cable assembly CEF216-x (‘-x’ is the desired length in feet). Optional cable locking sleeves are available in 316 SS (63A-003) or plastic (63A-004).

Model 5672 includes your choice of lamp and lens, and features:

- **Ø76mm, low-voltage** operation
- **Brilliant illumination:** internal parabolic reflector, Tungsten-Halogen lamp in focal point
- **Versatility:** Options include 6 lenses, 3 mounts, and >10 lamps



Birns Underwater Lights



SNOOPER

The Model 5567 **BIRNS Snooper** (NSN 6230-01-025-5628) is the world's most durable and dependable underwater light—many from the 1960's are still in use! Includes your choice of lamp, lens, and mount; available handgrip is now detachable, and the BIRNS Snooper can now mount on its new mounting boss for maximum space savings! Instant ON/OFF and hot-restrike capability; no ballast necessary. Detachable CEF3S power cable assembly. Excellent "white light" color.

The BIRNS Snooper features:

- **Extreme durability:** Bulletproof lens; reinforced, tempered cast body with mechanical impact protection and four sealing operations.
- **Brilliance:** Highly polished internal parabolic reflector, with high-output Tungsten-Halogen lamp in focal point
- **Versatility:** Options include 4 lenses, 3 mounts, and 6+ lamps



**SNOOPERWIDE
FLOODLIGHT**

The versatile **BIRNS Snooperwide** is available with 3 interchangeable beam angle lamps. The medium beam lamp gives a bright 90° coverage excellent for vehicles and TV. For powerful forward projection, the "spot" lamp provides a 25° angle and 75,000 center-beam candlepower, while the wide-angle lamp provides a 150° beam for close-up work.

The BIRNS Snooperwide Floodlight features:

- Extremely wide-angle underwater light
- Instant ON/OFF; ballast-free operation
- Brilliant illumination, true-white color
- 3 interchangeable beam angles

Multi SeaLite™

1,000 METER DEPTH RATING

VARIABLE BEAM PATTERNS

**AVAILABLE IN ALUMINUM,
STAINLESS STEEL, OR
TITANIUM**

COMPACT & LIGHT WEIGHT

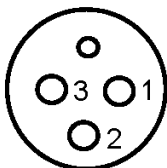
COMPETITIVELY PRICED



The Multi *SeaLite*™ fills the void of a high performance light at a reasonable price. The multitude of configurations makes this light truly multi-purpose. Options include three different reflectors, lamps in varying wattage and voltages, and four types of connectors.

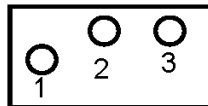
Three different DeepSea-designed, user-interchangeable reflectors tailor the light's output from a spot to even, "hot spot" – free medium and wide angle flood beam patterns. An external lens retaining cowl protects the borosilicate glass dome and acts as a baffle to prevent stray light from entering the water column, thus minimizing backscatter. The Multi *SeaLite*™ is 1,000 msw (3,280 fsw) rated and available in aluminum, stainless steel, and titanium housings. The aluminum version has a hard anodized body and an Ultem plastic cowl for increased corrosion resistance.

ELECTRICAL



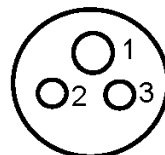
BH3MP

1 = Hot
2 = Neutral
3 = Ground to shell



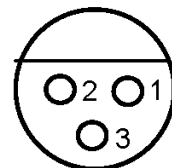
LPBH3MP

1 = Hot
2 = Neutral
3 = Ground to shell



XSG3BCL

1 = Ground to shell
2 = Neutral
3 = Hot



1503

1 = Hot
2 = Neutral
3 = Ground to shell



639 Manhattan Blvd.
Harvey, LA 70058 USA
TEL: (504) 362-8124
FAX: (504) 362-3600
www.aquaairind.com
EMAIL sales@aquaairind.com

Multi SeaLite™ Cont.

MECHANICAL

| | |
|-------------------|---|
| Housing Material: | Anodized aluminum or electro-polished stainless steel |
| Length: | 15.5 cm (6.1 inches) (with BH3M connector) |
| Diameter: | 7.9 cm (3.1 inches) |
| Lens: | Clear tempered borosilicate |
| Reflectors: | Proprietary design spot, medium flood, or wide flood |
| Air Weight: | Aluminum 519 g (18 oz.) |
| | Stainless Steel 952 g (34 oz.) |
| Water Weight: | Aluminum 170 g (6 oz.) |
| | Stainless Steel 624 g (22 oz.) |

OPTICAL

| | |
|--|--------------------|
| Beam patterns (full angle measured to half power point using 120 volt/250 watt lamps): | |
| Wide Flood (WFL): | 59 degrees conical |
| Medium Flood (MFL): | 40 degrees conical |
| Spot (SP): | 16 degrees conical |

ENVIRONMENTAL

| | |
|--------|---------------------------|
| Depth: | 1,000 meters (3,250 feet) |
|--------|---------------------------|

MISCELLANEOUS

| | |
|-------------|--|
| Connectors: | BH3M, XSG-3-BCL, LPBH3M, straight molded penetrator |
| Filters: | Ultra-violet (other colors optional) |
| Mounts: | Collar bracket included, yoke mounting bracket, and helmet mounting bracket optional |

REPLACEMENT LAMPS

| Model Number | Part Number | Description |
|--------------|-------------|-----------------------------------|
| MC-LV-LA* | 714-001-001 | Mini-Can low voltage lamp adapter |

* Required for use with low voltage lamps.

| Model Number | Part Number | Volts** | Watts | Hours | Color Temp. | Lumens |
|--------------|-------------|---------|-------|-------|-------------|--------|
| BP-12/20* | 460-00016 | 12 | 20 | | | |
| BP-12/50* | 460-00019 | 12 | 50 | 2000 | 3000K | 950 |
| BP-12/100* | 460-00027 | 12 | 100 | 1000 | 3100K | 2,200 |
| BP-24/100* | 460-00032 | 24 | 100 | 2000 | 3000K | 1,800 |
| BP-24/150* | 460-00035 | 24 | 150 | 70 | 3400K | 5,000 |
| BP-24/250* | 460-00038 | 24 | 250 | | | |
| BP-24/300* | 460-00041 | 24 | 300 | | | |
| MC-120/100 | 460-00053 | 120 | 100 | 1500 | 2700K | 1,600 |
| MC-120/150 | 460-00055 | 120 | 150 | 1500 | 2850K | 2,400 |
| MC-120/250 | 460-00059 | 120 | 250 | 2000 | 2900K | 4,750 |
| MC-120/325 | 460-00061 | 120 | 325 | | | |
| MC-120/500 | 460-00064 | 120 | 500 | 2000 | 2950K | 9,930 |
| MC-220/150 | 460-00079 | 220 | 150 | 1300 | 2800K | 2,100 |
| MC-220/250 | 460-00080 | 220/230 | 250 | 2000 | 2900K | 4,500 |
| MC-240/250 | 460-00082 | 240 | 250 | 2000 | 2900K | 4,200 |
| MC-240/500 | 460-00084 | 240 | 500 | 2000 | 2950K | 9,500 |

* These bi-pin lamps replace the old style mini-can low voltage lamps but require the low voltage lamp adapter.

** 220/230V, 230V, and 240V lamps are used to meet a nominal 240V requirement.

DHL-1 / SL-1 Dive Lights



DHL-1

JW Fishers underwater light systems are ideal for any of the numerous underwater structure inspections encountered by today's commercial diver. These surface structure powered lights supply continuous lighting for extended underwater operations.

The DHL-1 Diver Held Light system was designed for divers that want hands-on control of their lighting. Two light housings are mounted to a solid grip handle letting the diver control the direction of the light beam and the distance to the lighted object.

The SL-1 is a single underwater light that can be mounted on a divers helmet or attached to any underwater structure. SL-1 lights can also be ganged together for those applications where multiple lights are required.

Both the DHL-1 and SL-1 provide concentrated underwater lighting for jobs in depths up to 1,000 feet. The lights are available with high intensity 100 or 250 watt bulbs. These lighting systems can be powered by a small generator or by battery (with inverter).



SL-1

The light housings are constructed of high-impact, corrosion proof epoxy and urethane for years of trouble free performance. The lights have slightly negative buoyancy and weigh only ounces in the water. The light beam is provided by powerful tungsten halogen lamps. Fishers unique water cooled design of the lights ensure long bulb life. Each system comes standard with an abrasion resistant 150 foot cable and underwater connector at the light. Both systems are powered by 120 vac. A ground fault circuit is provided at the surface for diver safety. Options include: 12 vdc (inverter), 220 vac (transformer), up to 1,000 feet of cable, 250 watt bulbs, and spares kits.

Key Features of the DHL-1 and SL-1:

- Portability, rugged construction, low cost, and ease of operation.
- Both lights are backed by Fishers exclusive, unconditional two year warranty

King Pelican Lite™ Pro 4000 Series Submersible Version Aqua King Lite



Features:

- 12V, 14W, 100,00 Candlepower, Primary Hand Held Light Source
- Unbreakable ABS Housing w/ High Impact Polycarbonate Lens
- Combination Pistol Grip/Lantern Handle Quickly Converts to Multiple Positions
- 10-12 Hours on 8 D-Cell Alkaline Batteries (not included)

INCLUDES: Dual Filament Xenon Safety Lamp w/ 60 Hours of Lamp Life (30 hours each), Protective Lens Shroud, and a Shock Absorbing Internal Battery Module that Protects 8 D-Cell from Hard Abuse, and Computerized Reflector

COLORS: Black, Yellow, Orange, Blue

LENGTH: 9"

DIAMETER: 4-12"

Part No: 4000MS



BriteLite™ Pro 5000 Series



Features:

- Watertight to 500 ft.
- Compact 6V, 7W, 60,000 Candlepower Primary Hand-Held Light Source
- 11-12 Hours on 4 D-Cell Alkaline Batteries (not included)
- Special Buoyancy Control Ballast Allows BriteLite™ to Float Beam UP for Boating Use or Sink as Desired for Scuba Diving

INCLUDES: Dual Filament Xenon Back-Up Safety Lamp w/ 60 Hours Total Lamp Life, Shock Absorbing Internal Battery, Module that Protects 4 D-Cells from Hard Abuse, Integral Pistol Grip Handle w/ Lanyard, and Computerized Reflector

COLORS: Black, Yellow, Orange, Blue

LENGTH: 6-1/2"

DIAMETER: 4-1/2"

Part No: 5000MS

Mini C-Lite



50% BRIGHTER

Very High Intensity Halogen Bulb

Mini-C Mount allows attachment to
Ikelite photographic equipment.

The Mini C-Lite is famous with its reputation for being indestructible and trouble free. This was the first four “C” cell compact light design and has since been imitated by so many other manufacturers.

The Mini C now includes the same very high intensity halogen bulb that is utilized in our dazzling PC Lite. The Mini-C, capable of withstanding tremendous abuse, is slightly larger and even more durable than the PC Lite which represents the latest in high tech and ultra-compact design.

Mini-C Features

The Mini-C features a unique folding switch with locking feature to assure against accidentally being turned-on. A stainless steel clip is provided for easy attachment to any belt. The lens is secured by a screw-on cap that is guaranteed unbreakable.

| Mini-C Specifications | |
|-----------------------|------------------------|
| Size | 7 cm x 16 cm (3” x 6”) |
| Intensity | 7.5 watts |
| Beam | Concentrated spot |
| Lamp | Halogen 5.0 volt |
| Batteries | 4 alkaline “C” cells |
| Burn time | 4 hours |
| Weight in air | 510 g (1.1 lb) w/ bat |
| Depth rating | 90 m (300 feet) |

| Mini-C Models | |
|------------------|------------------|
| Model Body & Cap | Model Clear Body |
| #1100 Black | #1120 Black Cap |
| #1103 Yellow | #1123 Yellow Cap |

Nemo 4C Dive Flashlight



NEMO™ 4C has the same sleek design of the popular NEMO™ 8C dive lite, but is significantly smaller, uses 4 C-Cell alkaline batteries. It is watertight to 500 feet and made of Polymer with black thermoplastic overmolded accents. NEMO 4C is equipped with a polycarbonate lens with a perfectly focused reflector, an exterior “leak proof” switch, spare lamps and optional personalized nameplate. Primary and back-up lamps included. (No batteries are included).

| | |
|------------------------------|-----------------------------|
| Peak Beam Candlepower | 60,000 |
| Tested Lumens | 112 |
| Watts | 6.9 |
| Battery Burntime | 3.5 Hrs. |
| Lamp Life | N/A |
| Size | 5.1” in length |
| Color | Black, Yellow, Silver, Blue |

PC and PCa LITES - Pocket C-Lites -



The PC utilizes a new Super High Intensity bulb with incredible intensity and beam pattern.

#1540 Black
#1541 Clear
#1545 Blue
#1546 Green
#1548 Yellow

The PC Series is an innovative new design with a unique clamp system for ease in opening and closing.

Brilliant intensity is provided by new Halogen bulbs specially designed for Ikelite. These bulbs utilize a standard PR style base allowing emergency replacement with bulbs available everywhere.

The Pocket C-Lites are designed to be comfortably tucked away inside the pocket of your BCD so you can carry them with you on every dive.



Available in three bright colors, black, and clear.



The PCa provides incredible intensity and beam pattern for shorter periods of time.

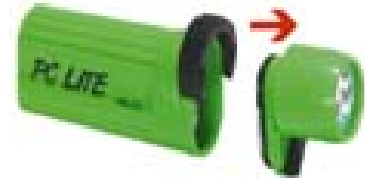
Black #1530
Clear #1531
Blue #1535
Green #1536
Yellow #1538



Push Lock Forward



Push Clamp Ring Up



Remove Front

| PC SPECIFICATIONS | |
|-------------------|-----------------------|
| Size | 6.5 x 16cm ~ 2.5 x 6" |
| Intensity | 7.2 watts |
| Beam | Concentrated spot |
| Lamp | Halogen 5.0 volt |
| Batteries | 4 alkaline "C" |
| Burn time | 4 hours |
| Weight in air | 410g (1.1 lb) w/ bat |
| Depth rating | 90 m (300 feet) |

| PCa SPECIFICATIONS | |
|--------------------|-----------------------|
| Size | 6.5 x 11cm ~ 2.5 x 4" |
| Intensity | 7.2 watts |
| Beam | Concentrated spot |
| Lamp | Halogen 7.2 volt |
| Batteries | 6 alkaline** "AA" |
| Burn time | 2.5 hours |
| Weight in air | 250g (0.6 lb) w/ bat |
| Depth rating | 90 m (300 feet) |

ProLite™ 4C Dual Beam Xenon Professional Flashlight 3500AC



Features:

- Watertight to 500 ft.
- Dual filament xenon safety lamp produces 40,000 peak candlepower
- Back-up filament and switch instantly ready if primary filament or switch fail
- Variable quick focusing beam adjusts both filaments
- Contains a 2 position sealed switch
- Switch can also be used as an intermittent switch that automatically shuts off upon finger release
- 400% more light than standard 4 cell flashlights w/ PR 13 bulb
- Lamp – 30 hours life per filament for a total of 60 hours burn time
- Requires 4 C-Cell Alkaline Batteries (not included)

Colors Black, Yellow

Length: 11"

Diameter: 2-1/2"

Rechargeable ProLite™ System – 3550MS



Includes: Rechargeable ProLite™, slide-in handy desk/dash mount base w/ 110V charger, high capacity industrial nicad battery stick

Colors: Black, Yellow

RCD LITE

Revolutionary Clamp Design



| | |
|-----------------|-----------------------------------|
| #1200 | Black |
| #1203 | Yellow |
| Intensity | 7.5 watt halogen |
| Beam | Medium spot |
| Lamp | Halogen 5.0 volt |
| Batteries | 4 alkalkine "D" |
| Burn time | 10 hours |
| Weight in air | 1.2 kg (2.6 lb) with batteries |
| Size w/o handle | 10 x 15 cm (4" x 6") |
| Depth rating | 90 m (300 ft) |

The RCD is unique in the industry with a fail-safe quick-release clamp system to simplify opening and closing the light. This system has been widely accepted as the most dependable choice for rental service. Most of the myriad of popular price lights utilize a screw-on cap that can stick or crack. Compact 4" x 6" size.

The large rotating switch and sliding lock afford easy operation even when wearing a bulky glove. A rubber shroud protects the front lens while blocking distracting side reflections. All internal components are plated for corrosion resistance and greatest electrical continuity. Safe operation to 90 m (300 feet).



Slide Lever Out

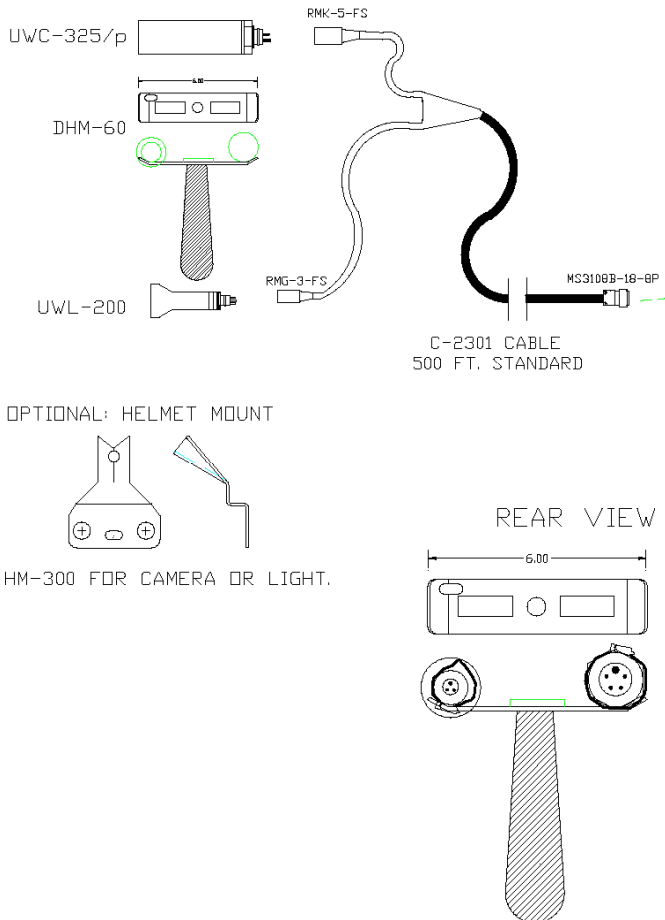


Flip Lever Up



**Rotate Lever-Lite
Pops Opens**

UWS-3110 Color Video System

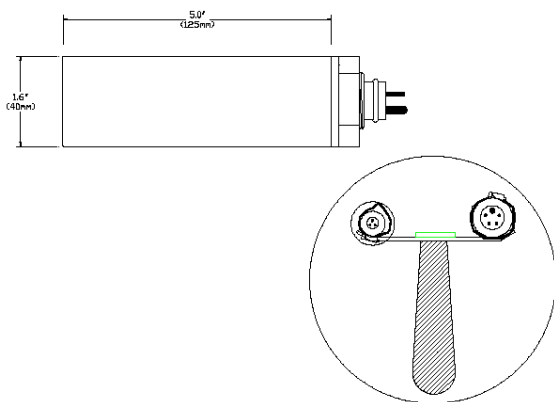


Standard System Includes:

- UWC-325/p, Fixed focus, Color Camera
- UWL-200, 150 watt light
- DHM-60, Bracket/Handle
- C-2301, 500 ft, cable w/ all connectors
- CON-3100, 12" LCD Monitor, HDD Recorder, Power supply with GFCI and Variable light control.
All mounted in a weather-resistant shipping case.

UWS-3110 Color Video System Cont.

Camera, Model UWC-325/p



Mechanical:

Weight 6 oz. (.2 kg) Dry, 3 oz. (0.08 kg) Wet
Depth Rating 1000 ft. (300 m)
Housing Black Delrin

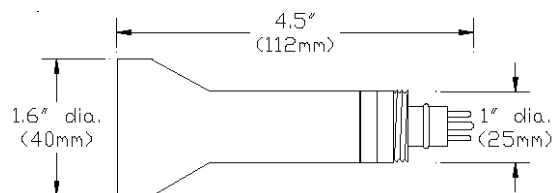
Electrical:

Image Device ½" CCD sensor (768 h x 494 v)
Sensitivity .01 lux @ f 1.4
Resolution 480 TV lines standard
Video Out 1.2 Vpp, NTSC standard (PAL option)
Power 12 VDC @ 200 ma.

Optical:

Lens 3.6 mm, Electronic-Iris
Focus Fixed, 4" to Infinity
Angle of View 70 Horz. (in water)

Light, Model UWL-200



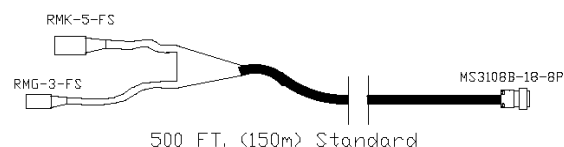
Mechanical:

Weight 21 oz. (.60 kg) Dry, 20 oz. (.48 kg) Wet
Depth Rating 3300 ft. (1000 m)
Housing 17-4 Stainless

Electrical:

Power Up to 150 watts
Color Temp. 3000k
Bulb Q150/cl/mc std., (75 & 100 Opt.)

Cable, Model C-2301



Conductors 14 ea. #22 awg, 1 RG-59 Coax
Length 500 ft. (150 m) Standard
Diameter .35" (8.5 mm)
Materials Green, Polyurethane Jacket
Breaking Strength 1200 lbs.

UWS-3110 Color Video System Cont.

Console, Model CON-3100



| | |
|---------------|--|
| Weight | 54 Lbs. (24 kg) |
| Size | 22" W x 13" H x 23" D (550 x 325 x 575 mm) |
| Power | 110 VAC/60 Hz, fused at 5 amperes (CON-3100/e, 220 VAC 50 Hz) |
| Light Control | Variable control 0-100%, 0-150 watts |
| Monitor | 12" LCD Color w/ audio |
| Safety | GFI for main power, LIM to monitor umbilical, Isolation transformer for light. |
| Connections | Front panel communications for umbilical, Audio & Mic. |
| Recorder | HDD DVR 883 (standard on all consoles) |

Options:

- Camera:
 1. UWC-300, 325/ss, 250, 400, 560
 2. Optional connectors
- Light:
 1. UWL-100, W/150 watt bulb
- Cable:
 1. User Specified cable lengths
 2. C-1501 Video Cable
- Bracket:
 1. HM-300 Helmet mount
- Booster

For cable over 1500 ft. to 3000 ft.
Mounts in console
- Video Typewriter

Time/Date, 10 pages of text,
and digital control of all cameras

UWS-3210

- **COMPLETE VIDEO SYSTEM**
- **LED LIGHT**
- **500 GB HDD DVR**



STANDARD SYSTEM INCLUDES:

- **UWC-325/p: Fixed focus, Color Camera**
- **UWL-401: LED light**
- **DHM-60: Bracket**
- **C-2303: 500 ft. cable**
- **CON-3200: 15" LCD Monitor, HDD Recorder, Power Supply with variable light control. All mounted in a weather-resistant shipping case.**

MODEL UWS-3210 COMPLETE UNDERWATER VIDEO SYSTEM

TECHNICAL SPECIFICATIONS

CAMERA: MODEL UWC-325/p



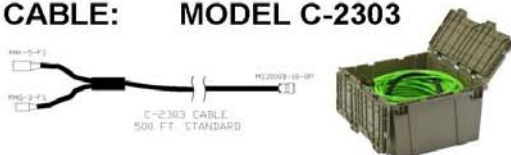
MECHANICAL:
Weight..... 10 oz. (0.3 kg) Air; 3 oz. (0.1 kg) Seawater
Depth Rating..... 6560 ft. (2000 m)
Housing Material..... Delrin
ELECTRICAL:
Input Voltage..... 12-24 VDC
Power..... 110 mA @ 12 VDC
CAMERA PROPERTIES:
Image Device..... 1/3" DSP CCD Sensor (412k pixels)
Sensitivity..... 0.001 lux
Resolution..... 750 horizontal lines
Lens..... 3.6 mm, F1.2, E-Iris
Focus..... Fixed, 4" to Infinity
Horizontal FOV..... 70 degrees in water

LIGHT: MODEL UWL-401



MECHANICAL:
Weight..... 8 oz. (0.2 kg) Air; 3 oz. (0.1 kg) Seawater
Depth Rating..... 6560 ft. (2000 m)
Housing Material..... Anodized Aluminum
ELECTRICAL:
Input Voltage..... 24 VDC
Power..... 20 Watts
LIGHT PROPERTIES:
Light Output..... 960 lux @ 1 m (2150 lumens) @ 3000 K

CABLE: MODEL C-2303



ELECTRICAL:
Conductors..... 16 ea. #22 awg; 1 RG-59 Coax
MECHANICAL:
Length..... 500 ft. (150m) Standard
Diameter..... 0.35" (8.9 mm)
Jacket..... Polyurethane (orange)
Breaking Strength..... 1200 lbs. (540 kg)

CONSOLE: MODEL CON-3200



MECHANICAL:
Size..... 22" W x 9.5" H x 23" D (56 x 24 x 58 cm)
Weight..... 45 lbs. (20.4 kg)
ELECTRICAL:
Power..... 110-240 VAC; 50/60Hz.; 100 watts
Light Control..... Variable control 0-100%.
Monitor..... 15" 2000 nit, LCD Color w/audio.
Safety..... Low voltage output to Diver
Connections..... Front panel connections for umbilical
Recorder..... 500GB HDD DVR
(standard on all consoles)

OPTIONS:

CAMERA:

- UWC-325/ss
- Optional connectors

CABLE:..... User-specified cable lengths

BRACKET:..... HM-300 Helmet mount

LIGHT:..... UWL-400 LED Light
1920 lux @ 1m (4300 lumens) @ 3000 K
36 Watts

BOOSTER:..... For cables over 1500 ft. (up to 3000 ft.)
Mounts in console.

VIDEO TYPEWRITER, Model 6100
Time/Date, multiple pages of text and
digital control of all cameras.

UWS-3210/D

- **COMPLETE DUAL VIDEO SYSTEM**
- **LED LIGHT**
- **500GB HDD DVR**



STANDARD SYSTEM INCLUDES:

- 2 EA. UWC-325/p: Fixed focus, Color Camera
- 2 EA. UWL-401: LED light
- 2 EA. DHM-60: Bracket
- 2 EA. C-2303: 500 ft. cable
- CON-3200/D: 15" LCD Monitor, HDD Recorder, Power Supply with variable light control. All mounted in a weather-resistant shipping case.

MODEL UWS-3210/D COMPLETE UNDERWATER VIDEO SYSTEM

TECHNICAL SPECIFICATIONS

CAMERA: MODEL UWC-325/p



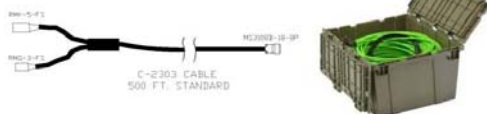
MECHANICAL:
Weight..... 10 oz. (0.3 kg) Air; 3 oz. (0.1 kg) Seawater
Depth Rating..... 6560 ft. (2000 m)
Housing Material..... Delrin
ELECTRICAL:
Input Voltage..... 12-24 VDC
Power..... 110 mA @ 12 VDC
CAMERA PROPERTIES:
Image Device..... 1/3" DSP CCD Sensor (412k pixels)
Sensitivity..... 0.001 lux
Resolution..... 750 horizontal lines
Lens..... 3.6 mm, F1.2, E-Iris
Focus..... Fixed, 4" to Infinity
Horizontal FOV..... 70 degrees in water

LIGHT: MODEL UWL-401



MECHANICAL:
Weight..... 8 oz. (0.2 kg) Air; 3 oz. (0.1 kg) Seawater
Depth Rating..... 6560 ft. (2000 m)
Housing Material..... Anodized Aluminum
ELECTRICAL:
Input Voltage..... 24 VDC
Power..... 20 Watts
LIGHT PROPERTIES:
Light Output..... 960 lux @ 1 m (2150 lumens) @ 3000 K

CABLE: MODEL C-2303



ELECTRICAL:
Conductors..... 16 ea. #22 awg; 1 RG-59 Coax
MECHANICAL:
Length..... 500 ft. (150m) Standard
Diameter..... 0.35" (8.9 mm)
Jacket..... Polyurethane (orange)
Breaking Strength..... 1200 lbs. (540 kg)

CONSOLE: MODEL CON-3200/D



MECHANICAL:
Size..... 22" W x 9.5" H x 23" D (56 x 24 x 58 cm)
Weight..... 50 lbs. (22.7 kg)
ELECTRICAL:
Power..... 110-240 VAC; 50/60Hz.; 100 watts
Light Control..... Variable control 0-100%.
Monitor..... 15" 2000 nit, LCD Color w/audio.
Safety..... Low voltage output to Diver
Connections..... Front panel connections for umbilical
Recorder..... 500GB HDD DVR
(standard on all consoles)

OPTIONS:

CAMERA:

- UWC-325/ss
- Optional connectors

CABLE:..... User-specified cable lengths

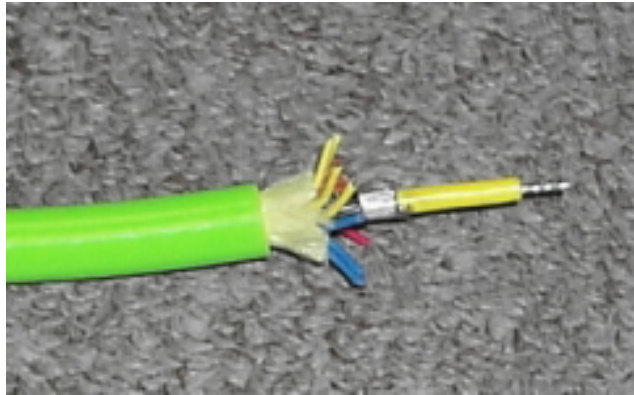
BRACKET:..... HM-300 Helmet mount

LIGHT:..... UWL-400 LED Light
1920 lux @ 1m (4300 lumens) @ 3000 K
36 Watts

BOOSTER:..... For cables over 1500 ft. (up to 3000 ft.)
Mounts in console.

VIDEO TYPEWRITER, Model 6100
Time/Date, multiple pages of text and
digital control of all cameras.

C-2300 Video Cable



- C-2300, NEW Multi conductor cable for all cameras:
replaces both the C-2000 (black) and C5500 (yellow) cables.
- Conductors: 14 #22 awg and 1 mini RG-59 coax.
- Braided Kevlar strength member (1200 lbs.)
- Lengths to 3000 ft.
- Material: Neon Green Polyurethane jacket.
- Temp. rating -40 to +90°C
- 600 volt rated conductors
- Diameter .360"
- 38 lbs. (17.5 Kg) per 500 ft.

Horizontal Air Receivers



| Cap (Gal.) | Dia. (in.) | PSI Max. | Wt. (lbs.) | Description | Catalog Number |
|------------|------------|----------|------------|---|----------------|
| 12 | 12 | 200 | 37 | Tank w/ feet | 72-12-12-200 |
| 12 | 12 | 200 | 44 | Tank w/ feet & platform (9" x 15") | 73-12-12-200 |
| 20 | 14 | 200 | 54 | Tank w/ feet | 72-14-20-200 |
| 20 | 14 | 200 | 63 | Tank w/ feet & platform (10" x 19") | 73-14-20-200 |
| 30 | 16 | 200 | 79 | Tank w/ saddle legs | 72-16-30-200 |
| 30 | 16 | 200 | 99 | Tank w/ saddle legs & platform (12" x 24") | 73-16-30-200 |
| 30 | 16 | 200 | 147 | Tank w/ feet & platform (13" x 30") | 74-16-30-200 |
| 60 | 20 | 200 | 160 | Tank w/ saddle legs | 72-20-60-200 |
| 60 | 20 | 200 | 177 | Tank w/ saddle legs & platform (14" x 30") | 73-20-60-200 |
| 60 | 20 | 200 | 177 | Tank w/ saddle legs & platform (14" x 30") | 74-20-60-200 |
| 80 | 20 | 200 | 190 | Tank w/ saddle legs | 72-20-80-200 |
| 80 | 20 | 200 | 267 | Tank w/ saddle legs & platform (12" x 34") | 73-20-80-200 |
| 80 | 20 | 200 | 315 | Tank w/ saddle legs & platform (14" x 42") | 74-20-80-200 |
| 120 | 24 | 200 | 239 | Tank w/ saddle legs | 72-24-120-200 |
| 120 | 24 | 200 | 426 | Tank w/ saddle legs & platform (18" x 44") | 73-24-120-200 |
| 120 | 24 | 200 | 449 | Tank w/ saddle legs & platform (19" x 46") | 74-24-120-200 |
| 200 | 30 | 200 | 565 | Tank w/ saddle legs | 72-30-200-200 |
| 200 | 30 | 200 | 570 | Tank w/ saddle legs & platform (18" x 44") | 73-30-200-200 |
| 240 | 30 | 200 | 638 | Tank w/ saddle legs | 72-30-240-200 |
| 240 | 30 | 200 | 658 | Tank w/ saddle legs & platform (18" x 48") | 73-30-240-200 |
| 400 | 36 | 150 | 725 | Tank w/ saddle legs | 72-36-400-150 |
| 400 | 36 | 200 | 1064 | Tank w/ saddle legs | 72-36-400-200 |
| 620 | 42 | 150 | 1600 | Tank w/ saddle legs | 72-42-620-150 |
| 1040 | 48 | 150 | 2300 | Tank w/ saddle legs | 72-48-1040-150 |
| 1550 | 54 | 150 | 2650 | Tank w/ saddle legs | 72-54-1550-150 |

Portable Air Receivers



Features:

- 2" Chrome Brass Manifold – ½" Center Bore
- 250 PSI Brass Plumbing
- ½" Check Valve
- ½" Gates Hose w/ Brass Reusable Fittings
- ¼" Drain Valve
- ¼" Pop-Off Valve w/ SS Ball
- 2) 400 PSI ½" Turn Ball Valves
- 2) 400 PSI Pressure Monitoring Gauge (SS)
- Stainless Mtg. Bolts
- Sandblasted, Demet Coated & Painted Blue
- Aluminum Pipe Frame
- Aluminum Grating

| H714-1FPTM Receiver | | H163-2FPTM Receiver | | H206-3FPTM Receiver | |
|--|---------|--|----------|--|----------|
| 20 gallon | | 30 gallon | | 60 gallon | |
| Standard W.P. 175 pal | | Standard W.P. 200 pal | | Standard W.P. 200 PSI | |
| Filter/Single Stage | | Filter/Single Stage – Optional 2 Stage | | Filter/2 Stage – Optional 1250 | |
| Tank Dimensions | | Tank Dimensions | | Tank Dimensions | |
| Length | 33" | Length | 38" | Length | 47" |
| Width | 14" | Width | 16" | Width | 20" |
| Height | 16-1/8" | Height | 17-7/8" | Height | 23" |
| NPT Openings | | NPT Openings | | NPT Openings | |
| 3) | 1/4" | 2) | 1/4" | 1) | 1/4" |
| 4) | 1/2" | 2) | 1-1/2" | 1) | 1/2" |
| 3) | 1-1/2" | 4) | 3/4" | 4) | 1" |
| | | | | 2) | 2" |
| Protective ¾" Tube Frame (Alum. Schedule 40) | | Protective ¾" Tube Frame (Alum. Schedule 40) | | Protective 1" Tube Frame (Alum. Schedule 40) | |
| Length | 38" | Length | 46" | Length | 54" |
| Width | 21" | Width | 23" | Width | 28" |
| Height | 21" | Height | 25" | Height | 30" |
| | | | | | |
| Weight | 75 lbs. | Weight | 115 lbs. | Weight | 185 lbs. |

Aqua-Air Ordering Information

20 Gallon Tank.....AAI-H714-1FPTM
30 Gallon Tank.....AAI-H163-2FPTM
60 Gallon Tank.....AAI-H206-3FPTM



Vertical Air Receivers



| Cap (Gal.) | Dia. (in.) | PSI Max. | Wt. (lbs.) | Description | Catalog Number |
|------------|------------|----------|------------|--|----------------|
| 12 | 12 | 200 | 35 | Tank w/ 3 feet | 82-12-12-200 |
| 20 | 14 | 200 | 50 | Tank w/ 3 feet | 82-14-20-200 |
| 30 | 16 | 200 | 79 | Tank w/ 4 feet | 82-16-30-200 |
| 30 | 16 | 200 | 99 | Tank w/ 4 feet & platform (9" x 23") | 83-16-30-200 |
| 60 | 20 | 200 | 176 | Tank w/ 3 feet | 82-20-60-200 |
| 60 | 20 | 200 | 173 | Tank w/ 4 feet & platform (13" x 30") | 84-20-60-200 |
| 80 | 24 | 200 | 250 | Tank w/ 12" base ring | 92-24-80-200 |
| 80 | 24 | 200 | 269 | Tank w/ 4 feet & platform (13" x 30") | 94-24-80-200 |
| 120 | 24 | 200 | 360 | Tank w/ 12" base ring | 92-24-120-200 |
| 120 | 30 | 200 | 415 | Tank w/ 12" base ring | 92-30-120-200 |
| 120 | 30 | 200 | 432 | Tank w/ 6" base ring & platform (15" x 39") | 94-30-120-200 |
| 200 | 30 | 200 | 572 | Tank w/ 12" base ring | 92-30-200-200 |
| 240 | 30 | 200 | 643 | Tank w/ 12" base ring | 92-30-240-200 |
| 400 | 36 | 150 | 713 | Tank w/ 12" base ring | 92-36-400-150 |
| 400 | 36 | 200 | 916 | Tank w/ 12" base ring | 92-36-400-200 |
| 400 | 36 | 300 | 1280 | Tank w/ 12" base ring | 92-36-400-300 |
| 500 | 36 | 150 | 920 | Tank w/ 12" base ring | 92-36-500-150 |
| 500 | 36 | 200 | 1180 | Tank w/ 12" base ring | 92-36-500-200 |
| 620 | 42 | 150 | 1585 | Tank w/ 12" base ring | 92-42-620-150 |
| 620 | 42 | 200 | 1700 | Tank w/ 12" base ring | 92-42-620-200 |
| 1040 | 48 | 150 | 1800 | Tank w/ 12" base ring | 92-48-1040-150 |
| 1040 | 48 | 200 | 2175 | Tank w/ 12" base ring | 92-48-1040-200 |
| 1550 | 54 | 150 | 2666 | Tank w/ 12" base ring | 92-54-1550-150 |
| 2200 | 60 | 150 | 3419 | Tank w/ 12" base ring | 92-60-2200-150 |
| 2560 | 60 | 150 | 3800 | Tank w/ 12" base ring | 92-60-2560-150 |
| 3000 | 66 | 150 | 5200 | Tank w/ 12" base ring | 92-66-3000-150 |
| 3750 | 72 | 150 | 5600 | Tank w/ 12" base ring | 92-72-3750-150 |
| 5000 | 72 | 150 | 7300 | Tank w/ 12" base ring | 92-72-5000-150 |

600 Series Liqua-Blasters® Up to 200 HP
Pressures from 4,000 PSI – 40,000 PSI, Flows to 60 GPM
Versatile High-Pressure Water Jetting



This 636DT is fully equipped with an air compressor and tank, a water tank, pump filtration and a hose rack. The Partek TF-375UH triplex pump pushes 6.9 GPM at 36,000 PSI.

Gardener Denver Water Jetting Systems, Inc. offers the most complete line of high-pressure water jetting units in the industry with more choices to solve your cleaning problems. Gardener Denver designs and manufactures water-jetting equipment with one goal in mind: to give our customers a cost-effective, rugged, dependable machine. By combining the exceptional efficiency of the Partek® TF-375 pump with a correctly-sized power unit and drive train, Gardener Denver has created a perfectly-engineered system that will provide more useable energy than any other water-jetting product on the market.

Whether you choose the 150 HP, 170 HP or 200 HP model, each Liqua-Blaster® 600 Series unit includes a Partek® TF-375 pump with three fluid end options, diesel engine or electric motor, belt drive system, pump filtration, fuel tank (for diesel units), unit instrumentation and safety relief systems.



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TY-375S/H/UH PUMP

The TY-375 pump consists of the power end and a fluid end. The power end, consisting of crankshaft, connecting rods and crossheads transmits power from the pump driver (either diesel or electric) to the fluid end. Three standard fluid ends are offered for the TY-375; the standard “S” for pressures from 4,000 to 15,000 PSI, the “H” for pressures from 15,000 to 20,000 PSI and the “UH” for pressures up to 40,000 PSI.

Fluid End

All of Partek’s fluid ends share several features to significantly improve the pump’s life, performance and maintainability.

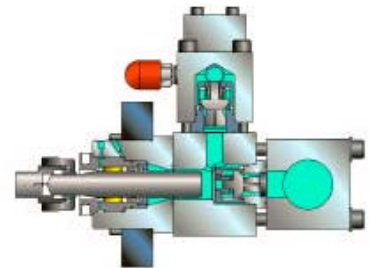
- All high pressure components are constructed of special high strength stainless steel to eliminate corrosion and maximize strength.
- Suction manifolds are manufactured from aircraft grade aluminum. Stainless steel is available for salt water service.
- “L” style fluid cylinders and Inline style stuffing boxes and valve seats are *autofrettaged* to provide maximum strength and reliability.
- Partek fluid ends are designed to insure highest possible volumetric efficiencies, allowing the pump to operate at slow, life extending speeds.
- Plungers are non threaded, collet style for positive alignment and easy and rapid removal and replacement.
- Plungers and packing are lubricated and cooled by water. Unlike messy oil or grease systems, water lubrication is environmentally safe, inexpensive and requires minimal maintenance.
- Partek’s APC (advanced polymer composite) packing systems utilize space age materials to deliver long, even wear.
- Partek fluid ends are configured to permit rapid removal of packing and plungers from the rear of the stuffing box through the pump cradle.
- Valve seats utilize o-rings to facilitate sealing, reducing high internal stresses caused by traditional tapered valve seats.
- Packing loading is automatic by an internal spring, eliminating gland nut adjustments as on other pumps.

Power End

- Extra-heavy, steel crankshaft, tapered roller bearings and large cylindrical crossheads assure accurate alignment and long life.
- All components run in a heavy, precision machined cast iron frame.
- High-capacity, gravity splash oil system provides even, thorough lubrication.
- Double-lip baffle seals and splash deflectors avert power end oil contamination.
- Equipped with oil level sight gauge.

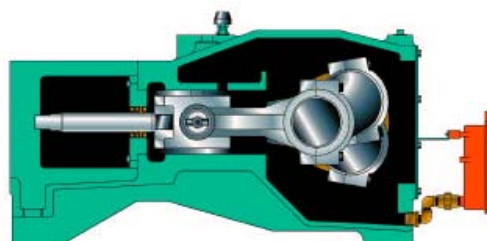
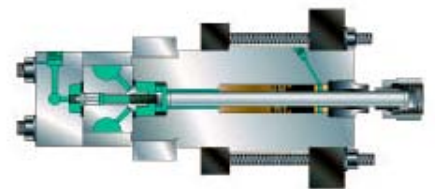
Standard “S” Operation to 15,000 PSI (TY-375S)

This simple design features easy removal of valves, plungers and packing for fast, efficient field maintenance. Plungers are colmonoy coated stainless steel or ceramic.



Inline-Operation from 15,000 to 40,000 PSI (TF-375H/UH)

Horizontal, “in line” suction and discharge valves and seats eliminate intersecting bores which can lead to premature fluid and failures at pressures above 15,000 PSI. Gardener Denver Water Jetting offers a unique reconditioning service for valves and seats which adds hundreds of hours of life while reducing operating costs. Plungers are solid polished tungsten carbide resulting in exceedingly long plunger and packing life.





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UNIT PACKAGE

Diesel Power

- Fuel filters, dip stick, oil drain and other service points are conveniently located.
- Large, convenient engine-mounted instrument panel includes key ignition, vernier throttle control, low oil pressure and high water temperature shut down for maximum engine protection.
- Engine is equipped with front and rear cowling and a hood for added protection.
- 100 gallon fuel tank.
- A two-plate 11" or 14" clutched PTO installed between the engine and pump drive permits independent operation of the engine. Sealed pilot bearing eliminates frequent lubrication requirements.

Electric Power

The Ligua-Blaster 600 Series can also be equipped with an electric motor. The Model 600 utilizes a 150 HP motor, while the 600X model utilizes a 200 HP motor. Motors are available in TEFC, explosion proof or open drip enclosures with a variety of voltages and starting options.

Drive System

The Ligua-Blaster 600 Series uses a fully enclosed v-belt drive system that is conservatively rated. It is tolerant of minor misalignment.

Discharge Plumbing

- Gardener Denver Water Jetting Systems offers a wide variety of adapters to accommodate most applications.
- Pressure gauge is stainless-steel, glycerine-filled with an external snubber to extend gauge life.
- The Inline fluid end includes dual rupture discs for redundant over pressure protection.
- Standard "L" fluid ends are equipped with stainless steel relief valve and rupture disc assembly.

Suction Plumbing

- Suction piping is corrosion-resistant and includes a Y-strainer.

Base

The Ligua-Blaster 600 Series base is constructed of heavy 8-inch steel channel.

- Rigid skid design allows unit to be lifted and moved without causing drive misalignment.
- The entire footprint of the engine and pump are welded directly to structural members providing an extremely strong, low vibration design.
- The skid surface is quarter-inch thick steel floor plate to create a safer, non-slip work surface and to enhance the structural integrity of the skid.
- For-lift slots are standard on skid units only.

Specifications are subject to change without notice.

OPTIONAL FEATURES

Water Tank: An 80-gallon stainless-steel tank is available.

Suction Dampener: Optional bladder style pulsation dampener minimizes potential for vibration.

Trailer Mounting: 600 Series have four-wheel, 6,000-pound tandem axles with heavy-duty tongue, fenders, and hitch with interchangeable couplers to enable towing by almost any truck. Trailer units are safe for highway towing and have an oversized jack for easy vehicle connection. Brakes can be either electric or hydraulic surge.

Engine Throttle Control: Engine is at idle RPM with gun(s) in dump mode. RPM climbs to preset level when gun trigger is depressed.

Hoses, Rack & Fittings: Hoses are available in 50' (15.2m) sections with a minimum burst of 2.5 times the working pressure. Hose rack made of tubular steel with 150' capacity. Stainless steel quick connect couplers are available for 10,000, 15,000 or 20,000 PSI working pressure.

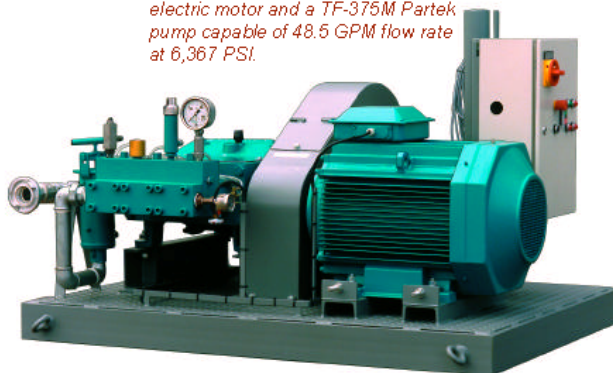
Lifting Eyes and/or Bail

Whisperized® Enclosure: Allows you to use the unit in areas that have noise restrictions. Sound-attenuating enclosure covers the engine.

Filtration: Over-sized stainless steel filter delivers clean water to the pump to increase plunger, valve and packing lift. 50 micron filtration is standard for 10,000 PSI; 10 micron is standard for 20,000 PSI.

Safety Shutdown: When power-end oil level falls below or over proper level, and/or inlet water pressure is too low.

A skid mounted Ligua-Blaster 600X unit with a 200 HP electric motor and a TF-375M Partek pump capable of 48.5 GPM flow rate at 6,367 PSI.





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600 SERIES

| | UNIT | PRESSURE | | FLOW | | PLUNGER | |
|--|-------------|----------|------|------|-------|---------|----|
| | Model | PSI | Bar | GPM | LPM | In. | mm |
| Model 600E: Electric 150 HP (112 kW) | 604E | 4,000 | 276 | 60 | 227.1 | 1.750 | 44 |
| | 610E | 10,000 | 689 | 23 | 87.0 | 1.062 | 27 |
| | 616E | 16,000 | 1103 | 15 | 56.8 | 0.875 | 22 |
| | 620E | 20,000 | 1379 | 12 | 45.4 | 0.787 | 20 |
| | 640E | 40,000 | 2758 | 6 | 22.7 | 0.562 | 18 |
| Model 600D: Diesel 170 HP (127 kW) | 604D | 4,500 | 310 | 60 | 227.1 | 1.750 | 44 |
| | 612D | 12,000 | 827 | 23 | 87.0 | 1.062 | 27 |
| | 615D | 15,000 | 1034 | 17 | 64.3 | 0.944 | 24 |
| | 620D | 20,000 | 1379 | 12 | 45.4 | 0.787 | 20 |
| | 640D | 40,000 | 2758 | 6 | 22.7 | 0.562 | 18 |
| Model 600X: Diesel/Electric 200 HP (149 kW) | 605X | 5,000 | 345 | 60 | 227.1 | 1.750 | 44 |
| | 610X | 10,000 | 689 | 31 | 117.3 | 1.250 | 32 |
| | 615X | 15,000 | 1034 | 20 | 75.7 | 1.000 | 25 |
| | 620X | 20,000 | 1379 | 15 | 56.8 | 0.875 | 22 |
| | 640X | 40,000 | 2758 | 10 | 37.8 | 0.708 | 18 |

| | UNIT | HEIGHT | | WIDTH | | LENGTH | | WEIGHT | |
|---|------------------|--------|------|-------|------|--------|------|--------|------|
| | Model | In. | Mm | In. | Mm | In. | Mm | Lbs. | Kg. |
| 600 & 600X Approximate Weights & Dimensions | Diesel Skid | 90 | 2286 | 72 | 1829 | 153 | 3886 | 8000 | 3629 |
| | Diesel Trailer | 108 | 2743 | 96 | 2438 | 204 | 5182 | 8500 | 3856 |
| | Electric Skid | 55 | 1397 | 72 | 1829 | 130 | 3302 | 6850 | 3107 |
| | Electric Trailer | 73 | 1854 | 96 | 2438 | 178 | 4521 | 7560 | 3429 |
| 600UH Approximate Weights & Dimensions | Diesel Skid | 94 | 2388 | 72 | 1829 | 180 | 4572 | 8300 | 3765 |
| | Diesel Trailer | 112 | 2845 | 96 | 2438 | 228 | 5791 | 8800 | 3992 |
| | Electric Skid | 55 | 1397 | 72 | 1829 | 144 | 3658 | 7150 | 3243 |
| | Electric Trailer | 73 | 1854 | 96 | 2438 | 195 | 4953 | 7900 | 3583 |

- Consult factory for other plunger options.
- Flow rates based on 100% volumetric efficiency; ratings may vary according to engine/motor speed.
- Actual brake horsepower required varies and is dependent on pressure rating, displacement, fluid compressibility and both mechanical and volumetric efficiency.

Sweeney RSL Hydraulic Wrenches



RSL30

RSL14

RSL8

RSL4

RSL2

Safer – The RSL is the safest hydraulic wrench on the market. The innovative design, which completely encloses all moving parts, eliminates pinch points and the need for a bulky shroud. The RSL design also avoids complicated swivel assemblies and their potential for injuries caused by high-pressure leaks.

Faster – The unique, longer-stroke design enables the operator to perform jobs quickly and safely without sacrificing accuracy. The NEVER_LOCK pawl system reduces downtime and increases overall employee productivity. This results in bottom-line savings for customers.

Lighter - Designed with the aid of state-of-the-art computer analysis technology, RSL tooling is lighter than any competing tools. Our tooling has, by far, the best weight-to-torque ratio of any hydraulic wrench system on the market.

More Versatile – Per tool, the RSL offers the widest range of interchangeable hex and square drive heads available. These wrench heads are ideal when working a wide variety of nut sizes in various applications. No longer are you forced to consider two separate tools; one tool does it all.

More Durable - With 75% fewer parts, RSL tools have re-defined tool confidence. Designed in the Select-A-Torque® tradition of dependability and ruggedness, RSL tools are engineered to outperform any competing tools in the harshest conditions.

The Most Compact – RSL tooling will fit more API, ANSI, and MSS applications than any other tools in the industry. For applications where clearance is limited, RSL tools offer reduced height and the smallest noise radii possible.

| Model | | | | RSL2 | | RSL4 | | RSL8 | | RSL14 | | RSL30 | |
|---------------------|--------------|------|----|-----------|------|---------------|------|--------------|-------|--------------|-------|-------------|-------|
| Torque Output | Ft | Lb | | 123 | 1408 | 290 | 3080 | 725 | 7862 | 961 | 11154 | 2298 | 28002 |
| | N | M | | 167 | 1909 | 393 | 4176 | 983 | 10660 | 1303 | 15123 | 3116 | 37966 |
| Square Drive Size | | Inch | | 3/4 | | 1 | | 1-1/2 | | 1-1/2 | | 2-1/2 | |
| Hex Wrench Sizes*** | Inch | | | 7/8-2-3/8 | | 1-1/8-2-15/16 | | 2-1/16-3-1/8 | | 2-9/16-4-5/8 | | 4-1/8-6-1/8 | |
| | MM | | | 24-60 | | 27-75 | | 55-80 | | 65-115 | | 80-150 | |
| Weight | Power Head* | Lb | Kg | 3.98 | 1.81 | 6.12 | 2.78 | 11.75 | 5.38 | 12.75 | 5.78 | 21.34 | 9.68 |
| | Reaction Arm | Lb | Kg | .50 | 0.23 | 1.4 | 0.63 | 3.4 | 1.55 | 3.81 | 1.73 | 11.0 | 4.99 |
| | Sq. Dr. Head | Lb | Kg | 2.53 | 1.15 | 4.75 | 2.15 | 11.25 | 5.10 | 16.62 | 7.54 | 36.75 | 16.67 |
| | Hex Head** | Lb | Kg | 2.07 | 0.94 | 3.23 | 1.47 | 8.53 | 3.87 | 12.97 | 5.88 | 25.86 | 11.73 |
| Accuracy | | | | ±3% | | ±3% | | ±3% | | ±3% | | ±3% | |
| Warranty | | | | 3 Years | | 3 Years | | 3 Years | | 3 Years | | 3 Years | |

* Weight with Lead Hoses

** Weight varies with Hex Head Size

*** Available in Maximum Torque and/or Maximum Fit Versions