



Submarine Manufacturing & Products Limited

+44 (0)1772 687775 info@smp-ltd.co.uk www.smp-ltd.com
Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

PRODUCT DATASHEET

Kirby Morgan 77 Commercial Diving Helmet



THIS PRODUCT HAS THE FOLLOWING OPTIONS:

Commercial Divers Helmet 77 with Posts

Commercial Diving Helmet 77 with male waterproof connector

OVERVIEW

Kirby Morgans all metal commercial divers helmet features an all stainless steel version of the Kirby Morgan REX regulator as well as a stainless steel sideblock helmet ring bent tube handle and other key components.



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FEATURES

Air Train: The air train diffuses incoming breathing air/gas onto the face port/lens to defog and ventilate.

Auxiliary Port: The auxiliary port will allow for future add-ons and modifications to the stainless steel helmets. It is located on the port side of the shell as shown below

Defogging Steady Flow Valve: Provides an additional flow of gas into the helmet for ventilation and defogging.

Emergency (EGS) Valve: Emergency (EGS) Valve supplies backup breathing gas to the diver. This valve is an integral, built in part of the stainless steel sideblock.Â

Gas Supply Non-Return Valve: Commercial Rated, It prevents loss of gas pressure in the event of umbilical damage.Â

Handle: Removable Grip and handle. Handle can be removed without breaking seals, making it quick and easy to attach accessories.Â

Nose Block Device: Nose Block Device allows the diver to block the nose to equalize ears.

Rapid Change Modular Communications Systems: Because the module is easily removed the helmet, repair or replacement of communications parts is quick and trouble free. It is available with either a male waterproof connector or a bare wire post connection.

REX® Regulator: Full adjustment balanced piston is a breakthrough design that exceeds all requirements of all government or other testing agencies.

Silicone Oral Nasal Mask: Made of a superior silicone material which is hypo-allergenic and has a longer work life than latex.

Stainless Steel Shell: After x-ray inspection, each 316 stainless steel shell, is precision CNC machined to tight tolerances, to ensure proper fit to all other mating parts. The shell is durable and easy to maintain. Easily cleaned using a Scotch Brite® or similar type cleaning pad.

Stainless Steel Side Block: Multi use side block has additional ports built in to provide controlled air flow, if needed. The stainless steel sideblock has a built in EGS.

Whisker Wings: Bubble deflecting Whisker wings keep bubbles further from face port and ears, improving visibility and decreasing internal noise.Â

SPECIFICATION



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The Kirby Morgan Commercial Diving Helmet 77 has been tested and conforms to the performance requirements as set forth in Annex II of Directive 89686EEC and as far as applicable the EN 250:2000 EN 250A1:2006 and EN 15333-1:2008 (class B).

Weight: 32.43 lbs.

Helmet Shell: Stainless Steel

Control Knobs: Polyurathane

Lens: Clear polycarbonate

Neck Dam: Neoprene. Optional latex neck dam available.

O-Rings: Buna-N

Head Cushion: Nylon bag filled with ,4 Polyester foam

Cage Code: The cage code for identifying Kirby Morgan DSI products for U.S. government purposes is 58366.

Recommended Lubricants: All commercial diving helmets and band masks are lubricated at the factory with Christo-Lube. Kirby Morgan recommends Christo-Lube or Tribolube for all gas train components. Dow Corning 111 Silicone or equivalent may be used for commercial diving helmet and band mask components that are used with gas mixtures containing less than 50% oxygen. Regulator Performance The Kirby Morgan Rex

CR Standards: Kirby Morgan Commercial Diving Helmets meet or exceeds all standards established by Dive Lab of Panama City Florida and are CR (Commercially Rated) marked.

Performance: The Rex regulator on the Kirby Morgan Commercial Diving Helmet 77 offers high performance. The commercial diving regulator has been tested at Dive Lab at Panama City Florida. The Kirby Morgan Rex Commercial Diving Regulator meets or exceeds all current U.S. Navy and European commercial diving standards.

The minimum operating temperature recommended for this helmet is 37 degrees F, only in regards to regulator performance. At the time of this writing, no hot water shroud is available for this helmet for heating the diver's breathing gas.

Without a hot water shroud, the diver may be subject to hypothermia due to cold gas inspiration temperatures. Kirby Morgan makes no physiological recommendations regarding minimum safe operating temperatures for divers using this helmet.

Usually the greatest danger of demand regulator icing will be encountered on deck when the surrounding air temperature is less than 32°F (0°C). This effect is primarily due to the refrigeration effect of breathing air pressure reduction, and the addition of moisture from the diver's exhalation coming in contact with the topside air temperature. Recommended overbottom (OB) gas supply pressure for best performance at depths are calculated by the formula $(fsw \times 0.445 + 14.7) + \text{recommended p.s.i. g.}$

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