

Emergency Supply (ESM) and Manual Changeover Manifolds



Emergency Supply (ESM) and Manual Changeover Manifolds provide a standby gas supply from either two banks of cylinders, or one bank of two cylinders

- ◆ Complies with BS EN 737, HTM 2022 and C11
- ◆ Easy to install with fully soldered header racks
- ◆ Requires minimum maintenance
- ◆ Bullnose or Pin-indexed cylinder connections
- ◆ CGA (Compressed Gas Association), French, Chinese and other cylinder connections also available
- ◆ 500 or 1500 L/min models available for Emergency Supply Manifolds (ESM)
- ◆ Manual manifold model available as 500 L/min only
- ◆ 12 month warranty

Partnership for Life

Product Summary

Emergency Supply Manifold (ESM)

The Penlon Emergency Supply Manifold (ESM) provides medical gas at a constant pressure, from one of a pair of connected cylinders, into the medical gas pipeline system. The manifold is connected to the medical gas pipeline system via a non-return valve. One cylinder valve can be opened with the other closed as a spare. Changeover can be carried out manually by opening the isolating valve.

The manifold has two gauges, one to indicate the pressure in the cylinder and the other to show the regulated pressure being supplied into the medical gas pipeline system. Monitoring is provided to detect when the pressure in the cylinder has fallen to a predetermined level, with contacts for transmission to the main alarm system.

The cylinder manifold unit can accommodate one or more cylinders in each bank. Cylinder racks are powder coated steel and securely support cylinders of varying diameters. A cylinder rack of capacity equal to one bank can be provided for the storage of spare cylinders. The cylinder tailpipes have gas specific connections to the manifold header, and the cylinder connections have either Bullnose (BS 341) or Pin-indexed (BS 1319) connectors.

Penlon manifolds and changeover panels are designed and certified for use with 230 bar cylinders.

Product Features

Design Features

- ◆ Meets the requirement of BS EN 737, HTM 2022 and C11
- ◆ All metal construction
- ◆ Available in 'wall mounting' or 'free standing' format
- ◆ Straight line format as standard - alternative layouts are available
- ◆ Emergency Supply Manifold (ESM) comprises: gas specific tailpipes to most international standards, regulator with gauges, pressure relief valve, non-return valve and isolation valve, cylinder racks (including spare rack), cylinder restraining chains and cylinder toolkit (where appropriate)
- ◆ Manual changeover comprises: manifold connections, inlet isolating valves, regulator with gauges, pressure relief valve and isolation valve
- ◆ Manual manifold kit comprises: soldered manifold assemblies, cylinder racks (including spare rack), gas specific tailpipes to most international standards, cylinder restraining chains and cylinder toolkit (where appropriate)
- ◆ Integral pressure switch

Easy to Install

- ◆ Copper stub pipes for ease of connection to medical gas pipeline system using inert gas jointing procedures

Ordering Information

Contact our Sales Office, or refer to our latest price list for part number and price information

Medical Gas Pipeline Sales

Tel: +44 (0) 1235 547038
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E-Mail: medgas@penlon.co.uk

Website

www.penlon.com/pipeline.html

Manual Changeover Manifold

The Penlon Manual Changeover Manifold supplies medical gas at a constant pressure from either bank of cylinders into the medical gas pipeline system. The unit has isolating valves for each cylinder bank located either side of the pressure regulating valve. Changeover can be carried out manually by opening the isolating bank for the reserve bank and then closing the isolating valve on the depleted bank.

The manifold has two gauges, one to indicate the pressure in the cylinder, and the other to show the regulated pressure being supplied into the medical gas pipeline system. Monitoring is provided to detect when the pressure in the cylinder has fallen to a predetermined level, with contacts for transmission to the main alarm system.

The cylinder manifold unit can accommodate one or more cylinders in each bank. Cylinder racks are powder coated steel and securely support cylinders of varying diameters. A cylinder rack of capacity equal to one bank can be provided for the storage of spare cylinders. The cylinder tailpipes have gas specific connections to the manifold header, and the cylinder connections have either Bullnose (BS 341) or Pin-indexed (BS 1319) connectors.

Penlon manifolds and changeover panel are designed and certified for use with 230 bar cylinders.

Gases and Services

- ◆ Oxygen
- ◆ Nitrous Oxide
- ◆ 50% Oxygen / 50% Nitrous Oxide
- ◆ Medical Air (400 kPa)
- ◆ Surgical Air (700 kPa)
- ◆ Surgical Air (1000 kPa)
- ◆ Laboratory
- ◆ Carbon Dioxide
- ◆ Nitrogen

Service and Maintenance

- ◆ 12 month warranty from date of manufacture, excluding components designated as service items to be replaced by the customer as part of the published service schedule
- ◆ Throughout the UK our network of service engineers provides full Service and Maintenance support of the highest quality
- ◆ Outside the UK our fully trained distributors provide a similar local service

NOTE Cylinders are NOT included with Penlon manifolds



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