

MEDICAL GAS MANIFOLDS - BRITISH STANDARD

DESCRIPTION

Precision UK's CPX Automatic Manifold Plant is manufactured under BS EN 13485 Medical Devices: Quality Management Systems. It provides a centralised source of bottled gas. The unit is designed to provide a duty and standby gas supply at a constant pressure via two banks of bottled gas cylinders with status monitoring.

- A standard system would feature a central control panel with a header assembly.
- The unit is designed for wall mounting as standard, however, options available include floor mounted assemblies and formats to suit customer requirements.
- Also available is a high flow capable of providing a distribution flow rate in excess of 2000 L/m.



Automatic Manifold Plant

Gas Type	Product Code
Oxygen	MANIFOLD-AUTO-O2
Nitrous Oxide	MANIFOLD-AUTO-N2O
Entonox	MANIFOLD-AUTO-O2N2O
Medical Air 4	MANIFOLD-AUTO-MA4
Surgical Air 7	MANIFOLD-AUTO-SA7

Manual Manifold Plant

Gas Type	Product Code
Oxygen	MANIFOLD-MAN-O2
Nitrous Oxide	MANIFOLD-MAN-N2O
Entonox	MANIFOLD-MAN-O2N2O
Medical Air 4	MANIFOLD-MAN-MA4
Surgical Air 7	MANIFOLD-MAN-SA7

Header Racks

When ordering manifold panels please state header bottle quantity.

Example: MANIFOLD-AUTO-N2O-6 = Nitrous Oxide Automatic Manifold c/w 2 off 6 way header rack assembly.

DESIGNED TO MEET THE REQUIREMENTS OF

- HTM 02-01: Medical Gas Pipeline Systems
- BS EN 7396: Pipeline Systems for Compressed Medical Gases and Vacuum
- C11 NHS: Model Engineering Specification – Medical Gases
- BS EN 2503: Pressure Regulators



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AUTOMATIC CONTROL PANEL

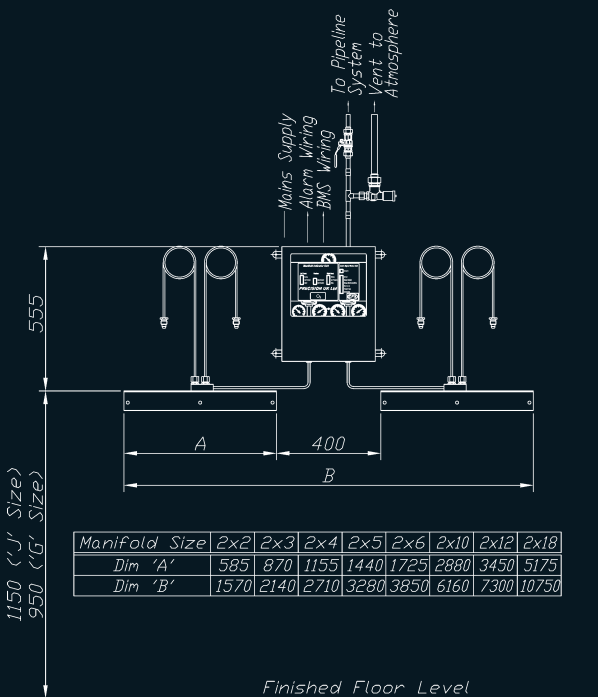
The control panel includes pressure gauges which indicate the gas pressure of each header and also the pipeline distribution pressure. The panel also displays the following:

- Power On
- System Fault
- Bank Running for each cylinder header
- Bank Empty for each cylinder
- Low Pressure
- High Pressure

The panel also incorporates a plant to alarm interface which provides contacts for both a medical gas alarm system and BMS system, it also displays the following:

- Normal
- Duty Bank Empty Standby Running
- Duty Bank Empty Standby Low
- Reserve Cylinder Bank Low
- Pipeline Pressure Fault

The panel also includes a piped discharge safety relief valve, a lockable line valve and a copper stub pipe for connecting to the distribution pipe work on the system.

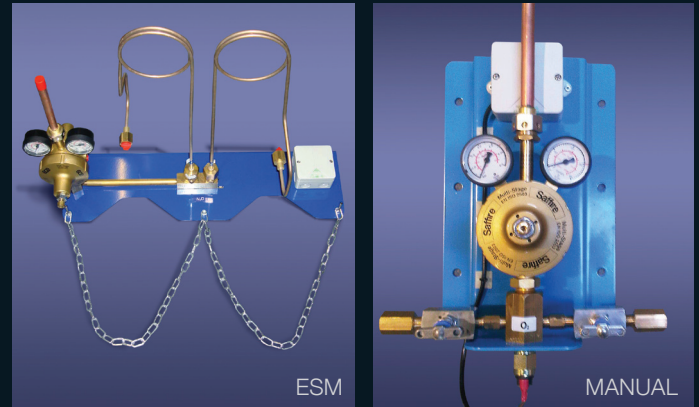


HEADER RACK AND TAIL PIPE ASSEMBLY

Each header comprises of a bottle rack with retaining chains, high pressure gas specific tailpipes and high pressure pipework to suit the relevant number of gas cylinders. Each connection on the header assembly is fitted with a non return valve, which ensures that when a cylinder is changed the high pressure gas is not released from the system.

ESM-EMERGENCY SAFETY MANIFOLD

- The emergency standby manifold acts as a backup to a primary supply on a gas distribution system.
- The unit is designed to provide a supply of gas at a constant pressure in the event of any failure to the primary system.
- A standard system would feature a regulating panel with header assembly for two cylinders.
- The unit is designed for wall mounting as standard.



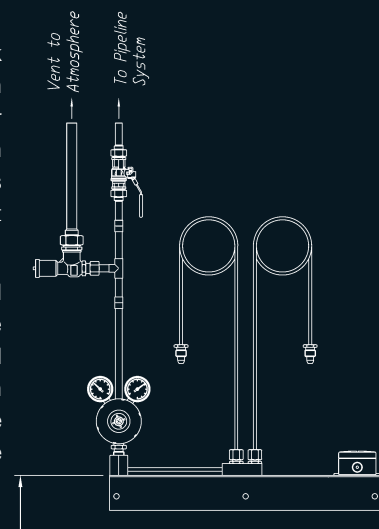
MANUAL MANIFOLD PANEL

The regulating panel includes pressure gauges to indicate the gas pressure of the header assembly and also the distribution pressure. The panel includes a pressure reducing regulator, a pressure switch, a non return valve, a piped discharge safety relief valve, lockable line valve and a copper stub pipe for connecting into the distribution pipe work on the system.

ESM HEADER ASSEMBLY

Each unit comprises of a bottle rack with retaining chains and two high pressure gas tailpipes. Each header is fitted with a non return valve which ensures that when a cylinder is changed the high pressure gas is not released from the system.

The assembly is fixed to the wall at a set height dependent on the gas in question, for oxygen and compressed air the gas distribution header is mounted higher from the floor level than that for nitrous oxide and oxygen/nitrous oxide mix.



Service and Maintenance

Throughout the UK and worldwide our approved team of service and maintenance engineers provide immediate technical support.