

Manifolds ***M-3000 Series***

↘ ***Automatic changeover***

↘ ***Two wings***

↘ ***Brass or stainless steel***



↘ Manifolds are used to connect together two or more cylinders to provide greater storage capacity and therefore greater security of supply. This can be important when the cylinders are located far away from the use point

The M-3000 series manifolds are 2-wing systems that provide automatic changeover from one wing to the other. Continuous gas supply is maintained when one wing is emptied. Priority is given to the cylinders in service by operating the changeover knob at the time when the empty cylinders are disconnected. These systems are particularly useful when the manifold is located far away from the use point.

Specifications

Material

Brass or 316L stainless steel

Pressure/Temperature rating

Maximum inlet pressure:
stainless steel series: 200 bar.g
brass series: 300 bar.g
Temperature range: -40 °C to +74 °C

Connections

Inlet: cylinder connection + flexible
Outlet: 1/4 inch NPT female
Relief valve: 1/4 inch NPT male

Flexibles

For oxygen service: 1.5 meter,
Teflon®/stainless steel
For other services: 1 meter,
316L stainless steel

Flow

CV=0.06
The flow coefficient expresses the flow capability of the manifold.
CV is the flow of air in standard ft³/min for each psi of inlet pressure

Weight

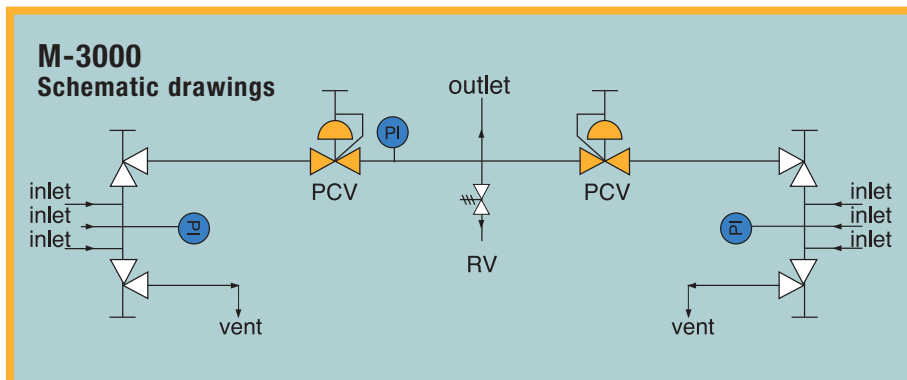
10 kg

Installation dimensions

WxHxD : 450 mm x 200 mm x 200 mm

Design features

- Unique "Duobloc" valve design to minimise contamination and maximize system integrity
- High pressure flexibles
- Delivered with operating guidelines for easier use
- Flow diagrams displayed on the equipment for easier use
- Relief valve fitted as standard for protection against over pressurisation
- Individually tested and certified to assure maximum leak-tightness and reliability



Ordering information

Ordering code: M-3 **X** **Y** **Z**

| X | Y | Z | Max.outlet pressure (bar.g) (*) | Nominal Flow (Nm ³ /hr) (**) | Inlet gauge range (***) (bar.g) | Outlet gauge range (bar.g) |
|----------|---------------|----------|---------------------------------|---|---------------------------------|----------------------------|
| 1 | 4 = brass | 1 | ▶ 7 | 20 | 0 to 315 | 0-9 |
| 2 | 7 = stainless | 2 | ▶ 12 | 25 | 0 to 315 | 0-25 |
| 3 | steel | 3 | ▶ 17 | 35 | 0 to 315 | 0-25 |

For example: a M-3243 manifold is a 2-wing automatic brass manifold equipped with 2 flexibles on each wing and designed for max. 17 bar.g pressure applications.

(*) Fixed outlet pressure for the left wing of the manifold. The change over to the right wing occurs automatically when the pressure in the cylinders or packs in service drops of 1 bar.g below that fixed value. The supply is ensured at that reduced pressure from the cylinders connected to the right wing. Priority is given to the cylinders in service by operating the changeover knob at the time when the empty cylinders are disconnected.

(**) Nominal flows calculated at 300 bar.g inlet pressure

(***) 0 to 415 bar.g for brass series

OPTIONS

- C** Cleaning for oxygen service
- D** Helium leak rate certification
- F** Extra 5 micron inlet filter
- H** Compression fitting on outlet (available in various sizes)
- PS** Pressure switch only
- P** Pressure switch with Alarm Box
- R** No relief valve
- Cylinder clamps and belts on a rail
- Outlet valve
- Other flexible lengths

Please contact Air Products and specify on the order.

Ireland
Air Products Ltd.
52, Broomhill Road - Tallaght - Dublin 24
Tel. : +353 (1) 463 4242
Fax : +353 (1) 463 4292
E-mail : ordergas@airproducts.com
www.airproducts.ie

United Kingdom
Air Products PLC
2 Millennium Gate, Westmere Drive - Crewe
Cheshire CW1 6AP
Tel.: +44 (0) 845 777 8800
Fax : +44 (1270) 614170
E-mail : getgas@airproducts.com
www.airproducts.co.uk

tell me more
www.airproducts.com

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