



HTM 02-01 Emergency Manifold

Basic solution and amendment

IDENTIFICATION

- ▶ Two stage regulation emergency reserve manifold for medical gas pipeline systems
- ▶ Fully compliant with HTM 02-01 and CE marked according to 93/42/EC directive (medical devices)
- ▶ First stage and second stage regulators specifically designed and tested for medical gases (in compliance with ISO 10524-2)
- ▶ BS 5682 emergency inlet integrated in the box
- ▶ Manifold inlets with HP check valves and contact pressure gauges for cylinder banks pressure visualization and monitoring
- ▶ Painted stainless steel cabinet with piston-assisted opening system door

CE MARKING

Notified body: 0426
CE marking in risk class II B in accordance with Directive 93/42/EEC

REFERENCE STANDARD

HTM 02-01: "Medical gas pipeline systems"

ISO 10524-2: "Pressure regulators for use with medical gases - Part 2: Manifold and line pressure regulators"

ISO 7396-1: "Medical gas pipeline systems - Part 1: Pipeline systems for compressed medical gases and vacuum"

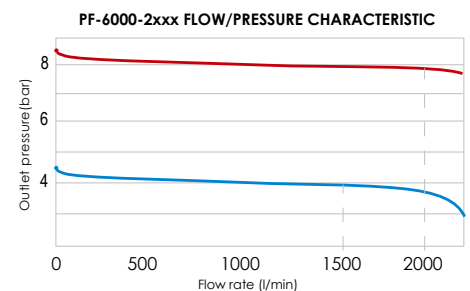
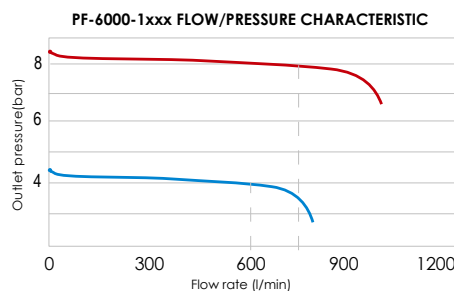
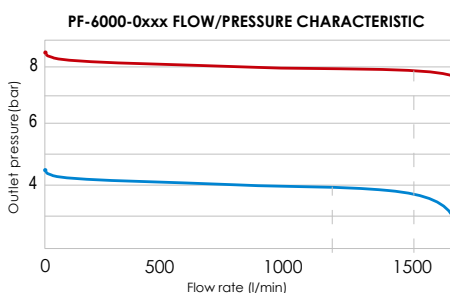
ISO 15001: "Anaesthetic and respiratory equipment. Compatibility with oxygen"

* Validity of the standards is referred to the current year



KEY:

- $P_{out} = 4.3$ bar
- $P_{out} = 8.5$ bar (surgical air)
- — — Max flow rate

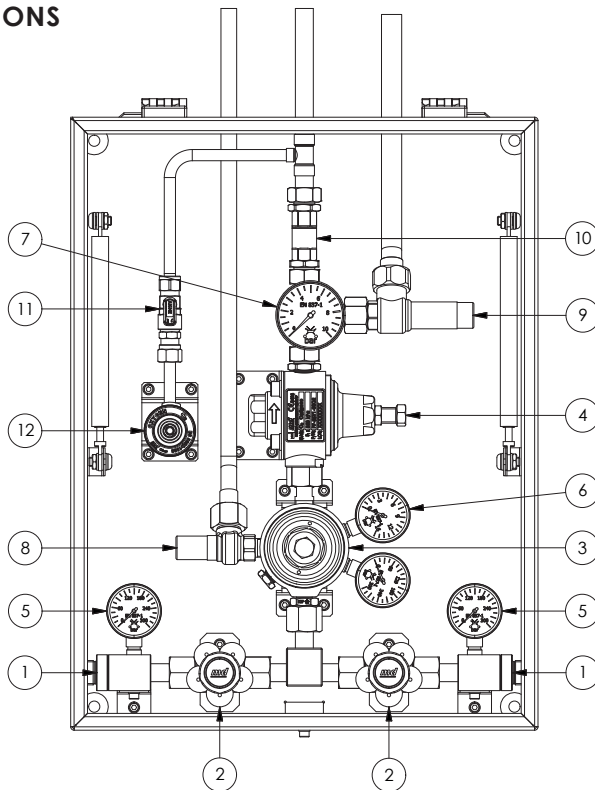




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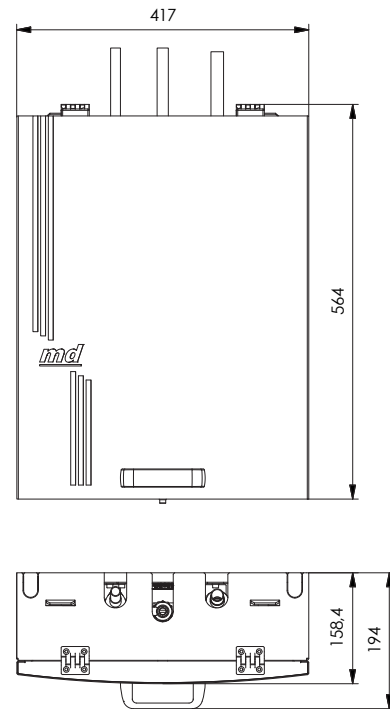
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DIMENSIONS

**KEY:**

- 1. Manifold inlet with NRV
- 2. HP shut-off valve
- 3. 1st stage pressure regulator
- 4. 2nd stage pressure regulator
- 5. Manifold pressure contact gauge
- 6. Intermediate pressure gauge

- 7. Outgoing pipeline pressure gauge
- 8. 1st stage relief valve
- 9. Pipeline relief valve
- 10. Pipeline check valve
- 11. Emergency inlet shut-off valve
- 12. BS 5682 emergency gas outlet



- ▶ Available in 3 versions: 2000, 1000 and 650 l/min (2400, 1200 and 800 l/min for Air 7 bar)
- ▶ Inlet max pressure: 230 bar
- ▶ Cylinder bank contact gauge switch calibration: 68 bar (14 bar for N₂O and CO₂)
- ▶ 1st and 2nd stage regulators inlet degree of filtration: ≤ 24 µm
- ▶ Cabinet in white painted AISI 430 stainless steel

- ▶ 1st stage safety valve opening pressure: 14 bar
- ▶ Pipeline safety valve opening pressure: 5.3 bar (11.0 bar for Air 7 bar)
- ▶ Storage and working temperature: -20 °C ÷ +60 °C
- ▶ Inlet pressure gauges precision class and scale: 2.5; 0 ÷ 250 bar (0 ÷ 100 bar for N₂O and CO₂)
- ▶ Outlet pressure gauge precision class and scale: 2.5; 0 ÷ 10 bar (0 ÷ 16 bar for Air 7 bar)

CODE			GAS	PACKAGE		
2000 l/min	1000 l/min	650 l/min		pack	cm	kg
PF-6000-20O2	PF-6000-00O2	PF-6000-10O2	Oxygen	box	45 x 60 x 25	16
PF-6000-20AC	PF-6000-00AC	PF-6000-10AC	Medical Air MA4	box	45 x 60 x 25	16
PF-6000-2N2O	PF-6000-0N2O	PF-6000-1N2O	Nitrous Oxide	box	45 x 60 x 25	16
PF-6000-2CO2	PF-6000-0CO2	PF-6000-1CO2	Carbon Dioxide	box	45 x 60 x 25	16
PF-6000-2AC8*	PF-6000-0AC8**	PF-6000-1AC8***	Air for Driving Surgical Tools MA7	box	45 x 60 x 25	16

* flow rate: 2400 l/min
** flow rate: 1200 l/min
*** flow rate 800 l/min

