



# 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

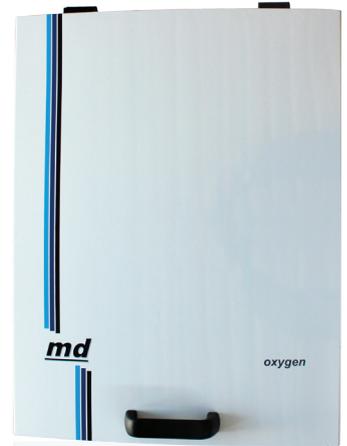
### CE MARKING

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"

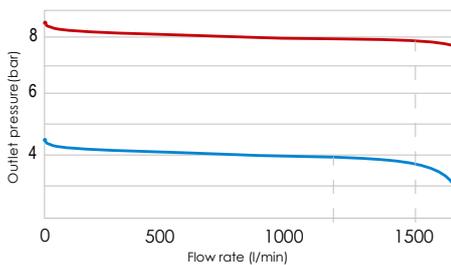
\* Validity of the standards is referred to the current year



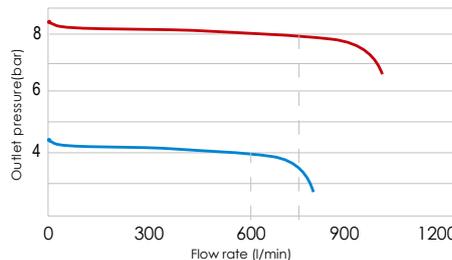
#### KEY:

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

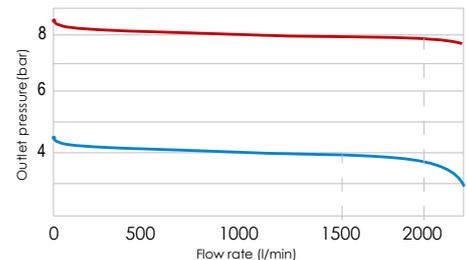
PF-6000-0xxx FLOW/PRESSURE CHARACTERISTIC



PF-6000-1xxx FLOW/PRESSURE CHARACTERISTIC



PF-6000-2xxx FLOW/PRESSURE CHARACTERISTIC

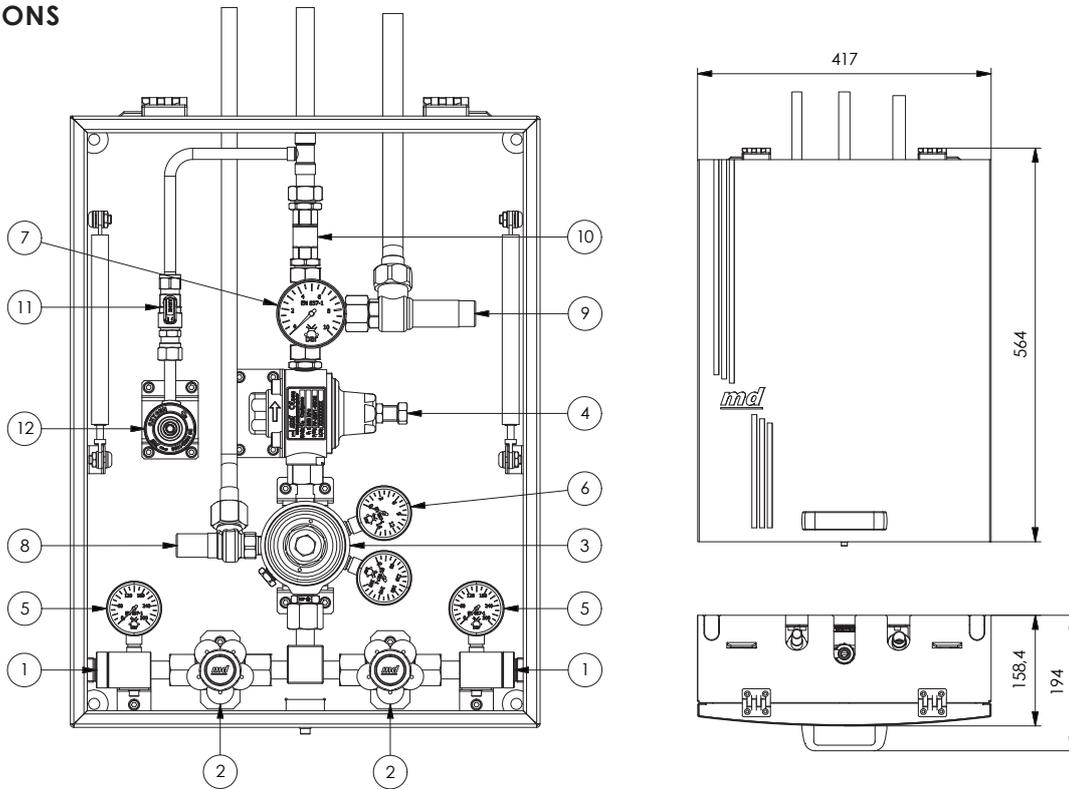




# HTM 02-01 Emergency Manifold

## Basic solution and amendment

### 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 N<sub>2</sub>O and CO<sub>2</sub>)
- ▶ 1<sup>st</sup> and 2<sup>nd</sup> stage regulators inlet degree of filtration: ≤ 24 μm
- ▶ Cabinet in white painted AISI 430 stainless steel

- ▶ 1<sup>st</sup> 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 N<sub>2</sub>O and CO<sub>2</sub>)
- ▶ 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

