



Double stage automatic change-over decompression station (Q = 40 Nm³/h)

IDENTIFICATION

- ▶ Double stage automatic change-over manifold decompression station for medical gas distribution, max flow rate 40 Nm³/h
- ▶ Double pressure regulation between high pressure source and distribution line
- ▶ Pressure monitoring by means of pressure transducers or pressure switches (optionally)
- ▶ Working manifold sensor integrated in the automatic change-over
- ▶ Provision for integration of alarm module in IP56 cabinet
- ▶ Mounted on painted AISI 430 stainless steel frame
- ▶ Cover panel with window for constant monitoring of outgoing line pressure gauge and alarm module
- ▶ Laser-marked plate indicating production lot and product code

CE MARKING

Notified body: 0426

CE marking in risk class II B, according to Directive 93/42/EEC

REFERENCE STANDARD

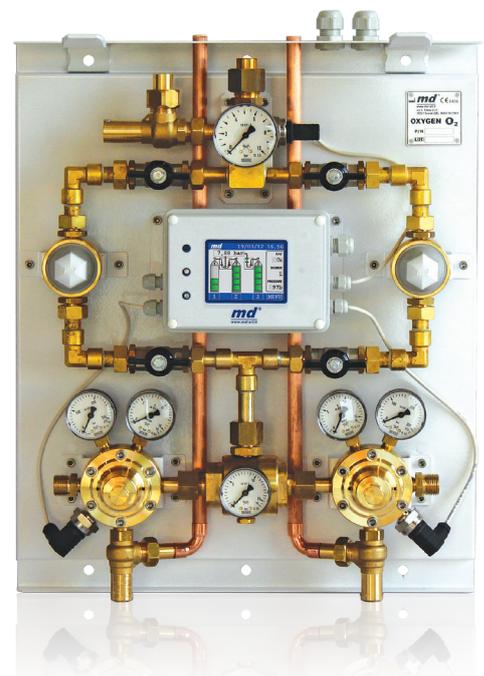
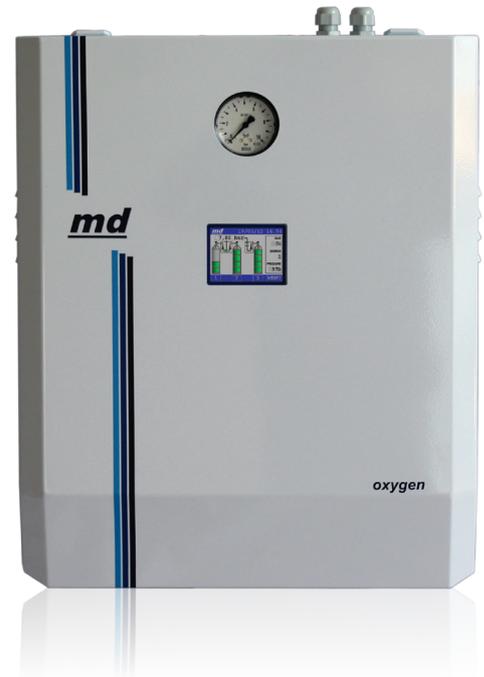
ISO 10524-2: "Pressure regulators for use with medical gases - Part 2: Manifold and line pressure regulators"

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

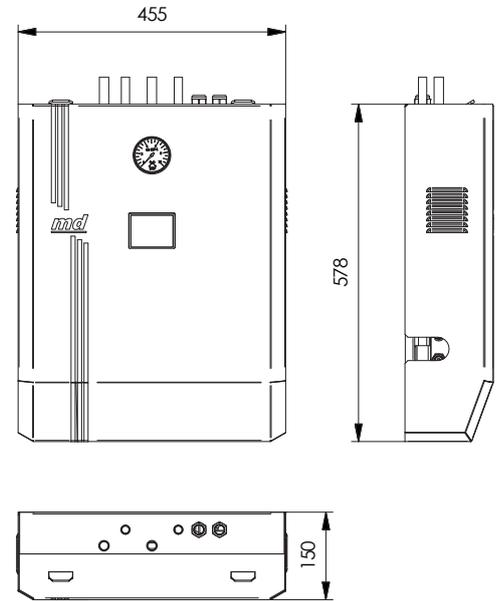
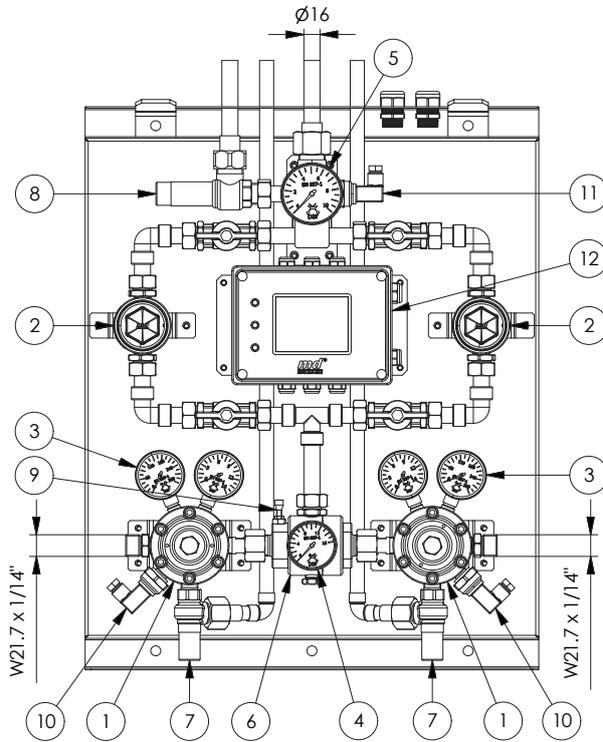
- ▶ 1st stage pressure regulator max flow rate at 8 bar: 40 Nm³/h
- ▶ 2nd stage pressure regulator max flow rate at 4 bar: 40 Nm³/h
- ▶ Inlet connection: W 21.7 x 1/14" male
- ▶ Outlet connection: Ø= 16x1mm copper pipe
- ▶ Maximum inlet pressure: 220 bar
- ▶ Intermediate pressure: 7 ÷ 10 bar
- ▶ Outlet pressure: 4 ÷ 5 bar
- ▶ Change-over Δp for automatic switching of sources: 2.0 ± 0.2 bar
- ▶ 1st stage safety valve opening pressure: 14 bar
- ▶ Line safety valve opening pressure: 5.5 bar
- ▶ Storage and working temperature: -20 °C ÷ +60 °C
- ▶ Inlet pressure gauges precision class and scale: 2.5; 0 ÷ 315 bar (0 ÷ 160 bar for N₂O and CO₂)
- ▶ Intermediate pressure gauges precision class and scale: 2.5; 0 ÷ 16 bar;
- ▶ Outlet pressure gauge precision class and scale: 2.5; 0 ÷ 10 bar;
- ▶ 1st and 2nd stage regulators inlet degree of filtration: ≤ 24 μm





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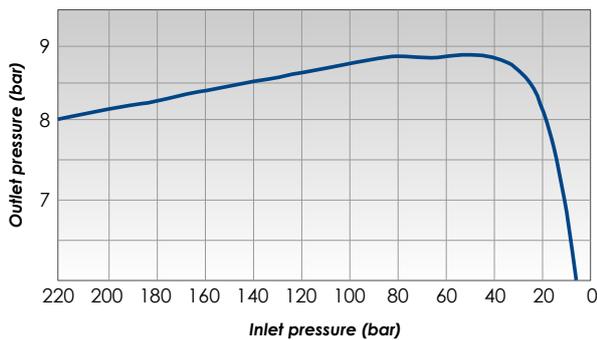
DIMENSIONS



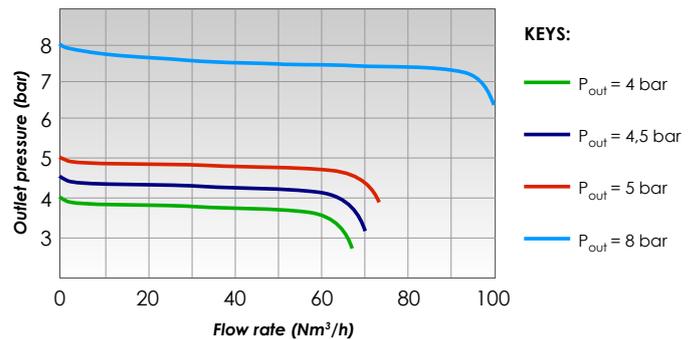
KEY:

- 1. 1st stage pressure regulator
- 2. 2nd stage pressure regulator
- 3. HP pressure gauge
- 4. Intermediate pressure gauge
- 5. Line pressure gauge
- 6. Automatic change-over
- 7. 1st stage regulator safety valve
- 8. Line safety valve
- 9. Working source sensor
- 10. HP pressure sensor (optional)
- 11. Line pressure sensor (optional)
- 12. Alarm module (optional)

1ST STAGE REGULATOR PRESSURE CHARACTERISTIC, Q₁ = 40 Nm³/h



PRESSURE/FLOW CHARACTERISTIC, intermediate P = 8 bar



KEYS:

- P_{out} = 4 bar
- P_{out} = 4,5 bar
- P_{out} = 5 bar
- P_{out} = 8 bar

CODE	GAS	OPTIONS			PACKAGING		
		PRESSURE TRANSDUCER		PRESSURE SWITCH	type	cm	kg
		CODE	SCALE	CODE			
PF-5411-00O2	O ₂	KT-2210-0250	0-250 bar	KT-2200-HWA1	box	50 x 63 x 20	23.0
PF-5411-00AC	Air	KT-2210-0250	0-250 bar	20 bar calibraton	box	50 x 63 x 20	23.0
PF-5411-0N2O	N ₂ O	KT-2210-0100	0-100 bar	KT-2200-HWB2	box	50 x 63 x 20	23.0
PF-5411-0CO2	CO ₂	KT-2210-0100	0-100 bar	11 bar calibraton	box	50 x 63 x 20	23.0

