



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

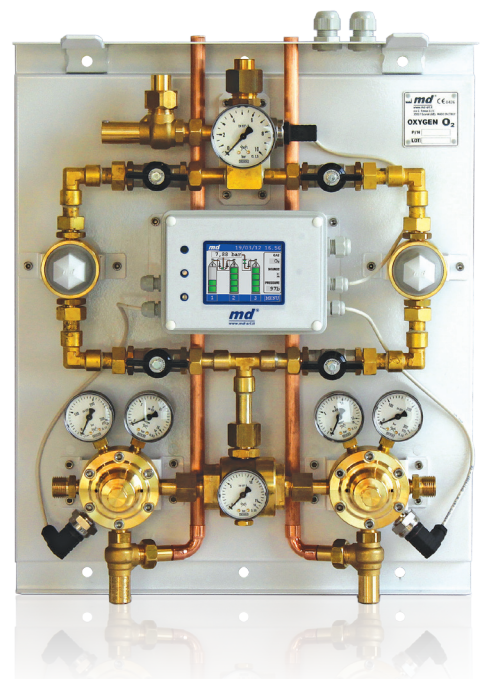
ISO 10524-2: "Pressure regulators for use with medical gases - Part 2: Manifold and line pressure regulators"

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

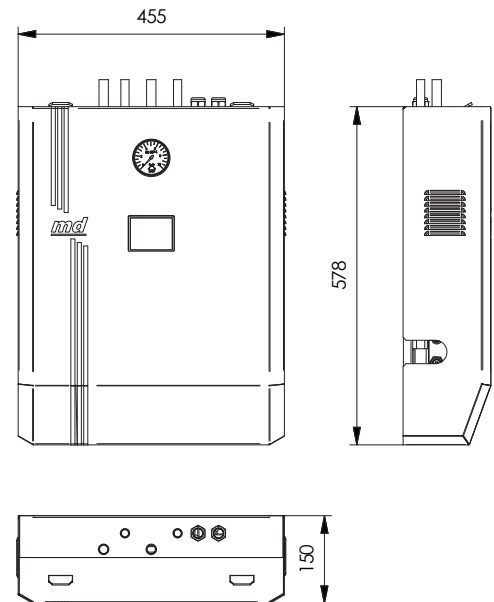
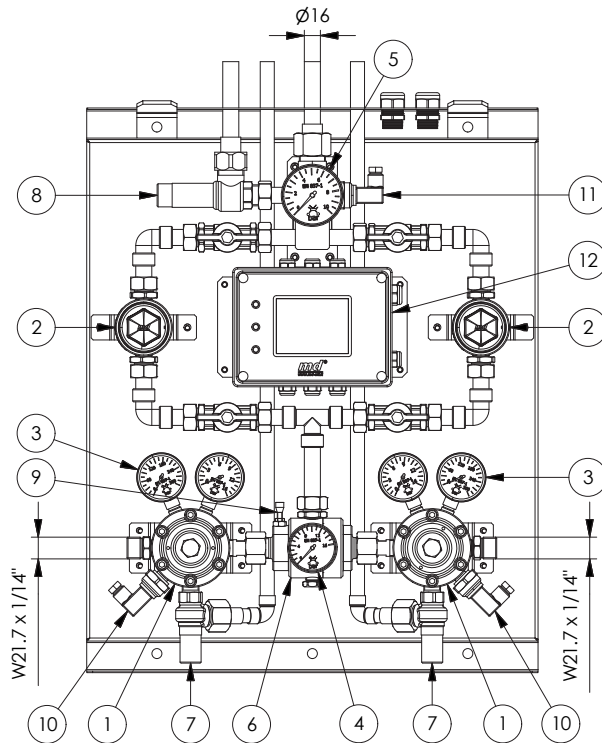
- ▶ 1st stage pressure regulator max flow rate at 8 bar: 40 Nm³/h
- ▶ 2nd stage pressure regulator max flow rate at 4 bar: 40 Nm³/h
- ▶ Inlet connection: W 21.7 x 1/14" male
- ▶ Outlet connection: Ø= 16x1mm copper pipe
- ▶ Maximum inlet pressure: 220 bar
- ▶ Intermediate pressure: 7 ÷ 10 bar
- ▶ Outlet 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

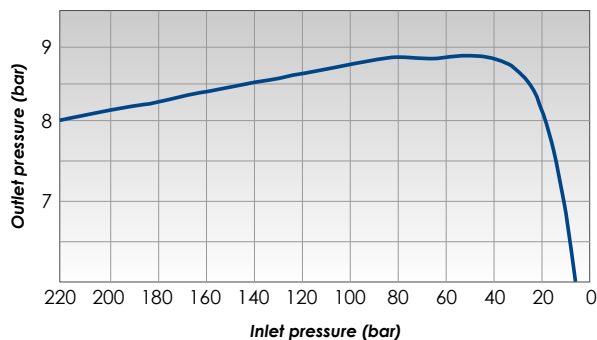


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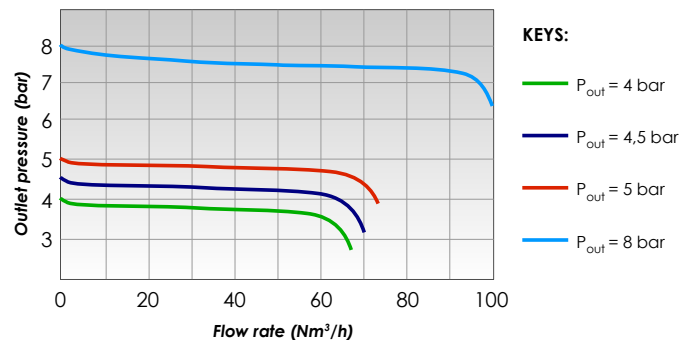
1. 1st stage pressure regulator
2. 2nd stage pressure regulator
3. HP pressure gauge
4. Intermediate pressure gauge
5. Line pressure gauge
6. Automatic change-over

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



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

