



# 1st stage automatic change-over decompression station ( $Q = 40 \text{ Nm}^3/\text{h}$ )

## IDENTIFICATION

- ▶ 1st stage pneumatic change-over decompression station for medical gas distribution, max flow rate  $40 \text{ Nm}^3/\text{h}$
- ▶ Pressure monitoring by means of pressure transducers or pressure switches (optional)
- ▶ Working source sensor integrated into 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 line pressure gauge and alarm module
- ▶ Laser-marking 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"

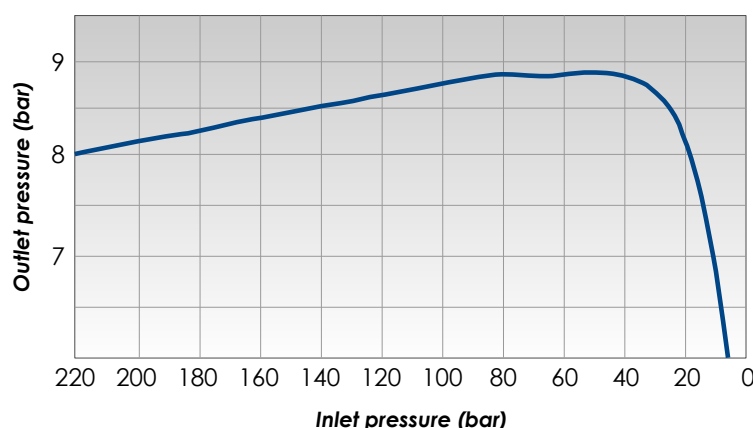
\* Validity of the standards is referred to the current year



- ▶ Pressure regulator maximum flow rate:  $40 \text{ Nm}^3/\text{h}$
- ▶ Inlet connections: W 21.7 x 1/14" male
- ▶ Maximum inlet pressure: 220 bar
- ▶ Outlet pressure:  $8 \pm 10$  bar
- ▶ Outlet connection:  $\varnothing=16 \times 1 \text{ mm}$  copper pipe
- ▶ Change-over  $\Delta p$  for automatic switching of sources:  $2.0 \pm 0.2$  bar

- ▶ Safety valve opening pressure: 14 bar
- ▶ Storage and working temperature:  $-20^\circ\text{C} \div +60^\circ\text{C}$
- ▶ Inlet pressure gauges precision class and scale: 2.5;  $0 \div 315$  bar ( $0 \div 160$  bar for  $\text{N}_2\text{O}$  and  $\text{CO}_2$ )
- ▶ Outlet pressure gauges precision class and scale: 2.5;  $0 \div 16$  bar
- ▶ Inlet degree of filtration:  $\leq 24 \mu\text{m}$

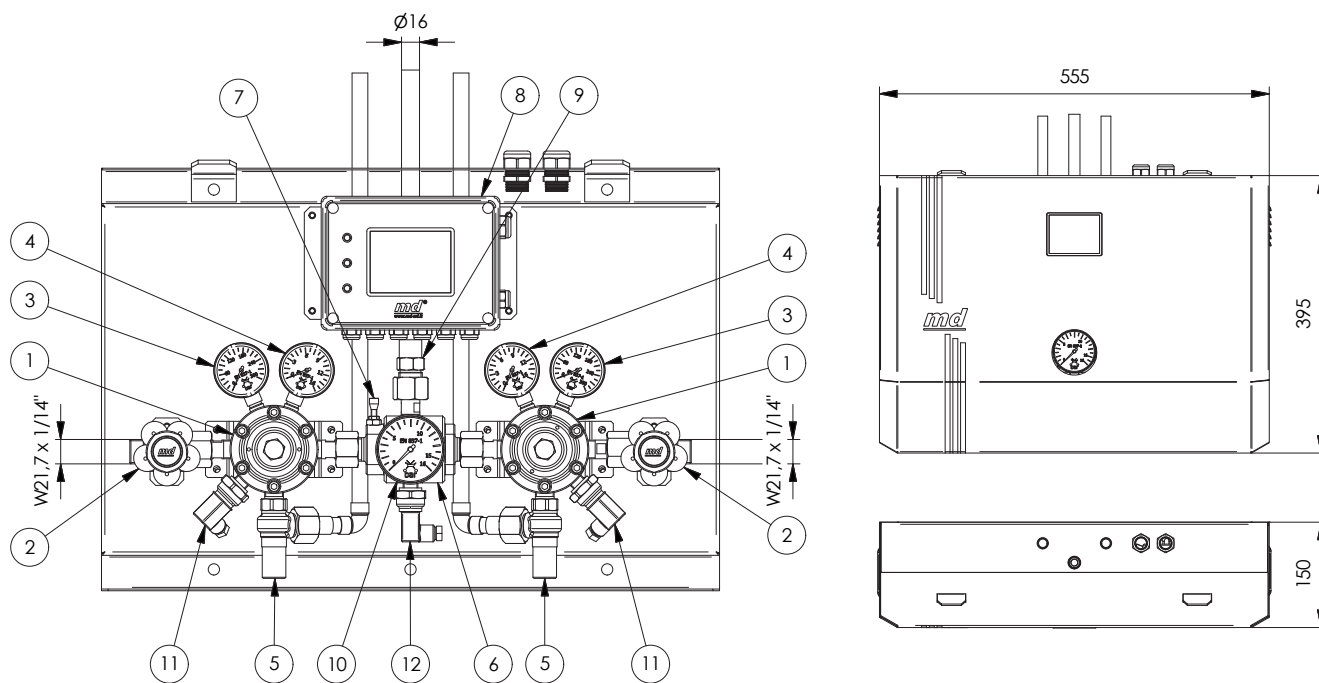
1ST STAGE REGULATOR PRESSURE CHARACTERISTIC,  $Q_1 = 40 \text{ Nm}^3/\text{h}$





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## DIMENSIONS



### KEY:

- |   |   |
|---|---|
| 1. Pressure regulator                                       | 8. (optional) TFT or LED alarm module                           |
| 2. Hp inlet valve   | 9. Fitting for outgoing pipe welding                            |
| 3. High pressure gauge                                      | 10. Line pressure gauge   |
| 4. Low pressure gauge                                       | 11. (optional) HP source pressure transducer or pressure switch |
| 5. Safety valve with outlet fitting for Ø=14mm pipe welding | 12. (optional) Line pressure transducer or pressure switch      |
| 6. Automatic change-over                                    |   |
| 7. Working manifold sensor                                  |   |

CODE	GAS	OPTIONS			PACKAGING		
		PRESSURE TRANSDUCER		PRESSURE SWITCH	type	cm	kg
		CODE	SCALE	CODE			
PF-5121-00O2	O <sub>2</sub>	KT-2210-0250	0-250 bar	KT-2200-HWA1	box	60 x 45 x 20	18
PF-5121-00AC	Air	KT-2210-0250	0-250 bar	20 bar calibration	box	60 x 45 x 20	18
PF-5121-0N2O	N <sub>2</sub> O	KT-2210-0100	0-100 bar	KT-2200-HWB2	box	60 x 45 x 20	18
PF-5121-0CO2	CO <sub>2</sub>	KT-2210-0100	0-100 bar	11 bar calibration	box	60 x 45 x 20	18

