





# 1st stage automatic change-over decompression station ( $Q = 90 \text{ Nm}^3/h$ )

#### **IDENTIFICATION**

- ► 1st stage pneumatic change-over decompression station for medical gas distribution, max flow rate 90 Nm³/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 galvanized and painted steel frame
- ➤ Cover panel with window for constant monitoring of pressure gauges 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

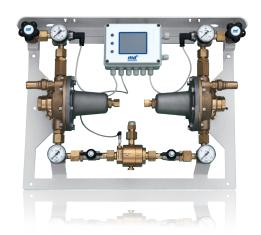
#### REFERENCE STANDARD

**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"

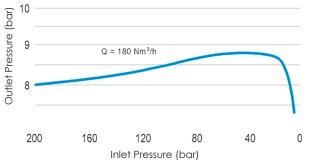
**ISO 15001**: "Anaesthetic and respiratory equipment. Compatibility with oxygen"

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

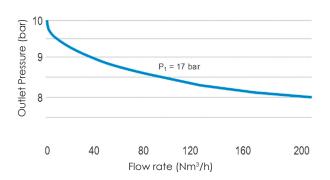


- ► Pressure regulator maximum flow rate: 180 Nm³/h
- ► Inlet connections: W 21.7 x 1/14" male
- Maximum inlet pressure: 220 bar
- ► Outlet pressure: 8 ÷ 10 bar
- ► Outlet connection: Ø=16x1mm copper pipe
- ► Change-over Δp for automatic switching of sources: 2.0 ± 0.2 bar
- ► Safety valve opening pressure: 14 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 N<sub>2</sub>O and CO<sub>2</sub>)
- ➤ Outlet pressure gauges precision class and scale: 2.5; 0 ÷ 16 bar
- ► Inlet degree of filtration: ≤ 24 µm

PRESSURE CHARACTERISTIC, Q<sub>1</sub>= 180 Nm<sup>3</sup>/h FOR THE STATION PRESSURE REGULATOR



PRESSURE/FLOW RATE CHARACTERISTIC, P,= 17 bar





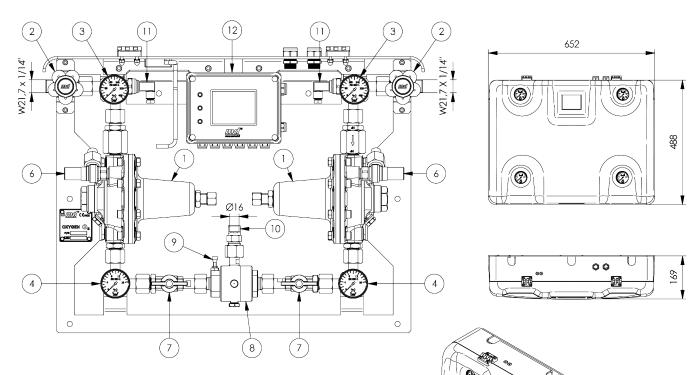








### **DIMENSIONS**



## KEY:

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

	CODE	GAS	OPTIONS			PACKAGING		
			PRESSURE TRANSDUCER		PRESSURE SWITCH	ě	<b>\$</b>	<b>.</b>
			CODE	SCALE	CODE	type	cm	kg
Ī	PF-5101-00O2	$O_2$	KT-2210-0250	0-250 bar	KT-2200-HWA1	box	55 x 23 x 72	30.5
	PF-5101-00AC	Air	KT-2210-0250	0-250 bar	20 bar calibraton	box	55 x 23 x 72	30.5
	PF-5101-0N2O	N <sub>2</sub> O	KT-2210-0100	0-100 bar	KT-2200-HWB2	box	55 x 23 x 72	30.5
	PF-5101-0CO2	$CO_2$	KT-2210-0100	0-100 bar	11 bar calibraton	box	55 x 23 x 72	30.5

