

PRESSURE REGULATOR PURE GASES

for working pressure up to 50 bar 7851 / 7853



Due to the high flowrate, the field of application of this pressure regulator is mainly in the area of central gas supply systems for high purity gases.

Thanks to the adjustable working pressure up to 50 bar, the pressure regulator is everywhere suitable where a high working pressure for pure gases is required. The pressure regulator can be directly connected to a gas cylinder, a cylinder rack, a cylinder battery or with the corresponding adapters directly to a high pressure pipeline. The regulator has two gauges; one for the indication of the cylinder pressure and one for the indication of the working pressure.

The regulator is available for inlet pressure of 200 and 300 bar.

The pressure regulation is effected by a stainless steel diaphragm, whereby the working pressure can be adjusted up to 50 bar. To prevent any unintended or unauthorised adjustment of the pressure, the pressure adjustment can only be done with the use of a tool. The adjusted pressure can be secured with a counter nut.

The regulator is equipped with an upwards-directed relief valve. On the outlet of the regulator a pipeline may be connected or directly the consumer.

The regulator has successfully passed an ignition test for oxygen according EN ISO 7291:2001. Strength test of the secondary side up to 141 bar.

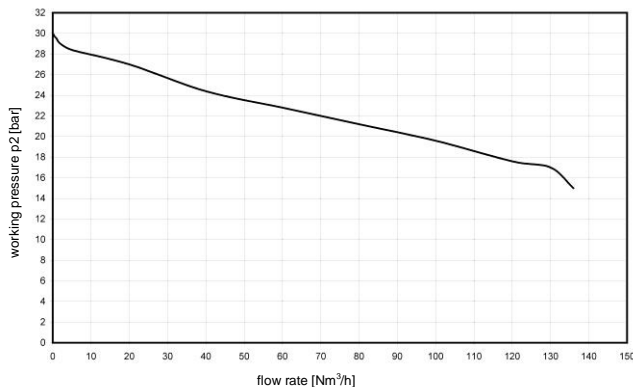
GLOOR

Regulator for pure gases Art. 7851 / 7853 :

Inlet pressure	200 bar (Art.7851) / 300 bar (Art.7853)
Outlet pressure	10 bar / 20 bar / 40 bar / 50 bar
Flowrate	at p1=41 bar / p2= 20 bar : 53 Nm ³ /h Qmax = 95 Nm ³ /h at p1=61 bar / p2= 30 bar : 95 Nm ³ /h Qmax = 135 Nm ³ /h
Gases	all pure gases and gas mixtures (up to purity 6.0) with exception of acetylene and corrosive gases
Inlet	gas and country specific screw connector according DIN 477-1 (200 bar) or ISO 5145 / NEVOC (300 bar)
Outlet	G1/2" male thread conically sealing or soldering nipple Ø 12 mm
Material	body brass, outer parts chrome plated, diaphragm stainless steel 2.4781
Sealing material	POM, FKM, NBR, aluminium, polyamide 6, fiber
Leaking rate helium	$< 1 \times 10^{-8}$ mbar × l / s
Operating temperature	-20°C to + 60°C
Dimensions	B × H × D : 211 × 204 × 80 mm
Weight	2.4 kg

Flow charts

Flow chart Art.7851 / Art.7853
gas : compressed air / p1=61 bar / p2=30 bar



Flow chart Art.7851 / Art.7853
gas : compressed air / p1=41 bar / p2=20 bar

