

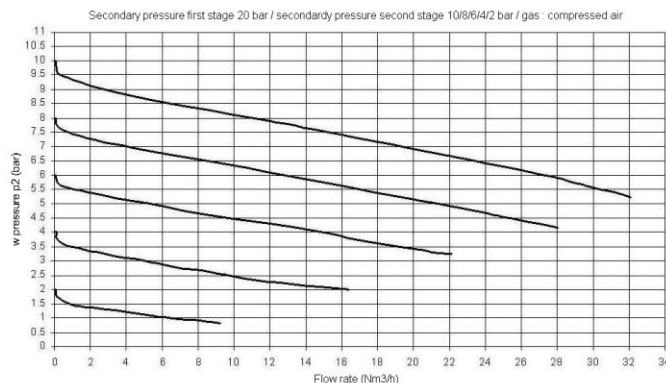
TWO-STAGE PRESSURE REGULATOR FOR HIGH PURITY GASES 7815



Two-stage cylinder pressure reducing valve for the accurate control of the working pressure of high purity gases and gas mixtures of a purity up to 6.0. The two-stage control guarantees an extremely constant working pressure. The pressure is reduced to 20 bar in the first pressure stage; in the standard version the working pressure can be set at the second pressure stage to between 0 – 10 bar. Also available in 0-6 bar, 0-4 bar and 0-1.5 bar versions. It is also optionally available with a fixed working pressure setting.

The pressure regulator is fitted with a high pressure gauge (cylinder pressure) and a low pressure gauge for indicating the set working pressure of the second stage, an in-built sinter filter and a safety valve. Pressure regulation through stainless steel diaphragm.

The application of the pressure regulator is particularly in the field of resonator gases of laser cutting equipment and as well everywhere in laboratories where gases with very stable working pressures are required. The pressure regulator has two outlets with G ¼" inner thread which are used as useful outlet and purging outlet. As an option also available with pre-assembled cutting-ring union. Where only one outlet is required, the other is to be sealed with a blanking screw.



Technical specification:

Construction	: two stage diaphragm pressure reducing valve
Inlet pressure	: 200 bar
Outlet pressure	: 0-10 bar (standard), on request also 0-6, 0-4 or 0-1.5 bar
Flow rate	: $Q_1 = 18 \text{ Nm}^3/\text{h}$ / $Q_{\text{max}} = 32 \text{ Nm}^3/\text{h}$ (s.flow chart)
Irregularity coefficient i	: ~0 (P1=200...20 bar)
Gas	: all high purity gases and gas mixtures with exception of corrosive gases
Inlet	: gas and country specific screw connector
Outlets	: one lateral, one downward, with G ¼" inner thread
Material	: body brass, external parts chrome-plated, diaphragm stainless steel
Sealing material	: EPDM, Si, PA, PEEK
Operating temperature	: -20°C to +60°C
Leaking rate helium	: $< 1 \times 10^{-8} \text{ mbar} \times \text{l} \times \text{s}^{-1}$
Dimensions	: BxHxT : 150 x 125 x 150 mm
Weight	: 2 kg