

TWO-STAGE TAKE-OFF STATION FOR HIGH PURITY GASES



Art.7870 (horizontal)



Art.7870 (vertical)

This expansion station for high purity gases in modular construction reduces the pressure in two stages what guarantees for an extremely constant working pressure. The station consists of a high pressure shut-off valve with integrated purging valve, of a high pressure and of a low pressure regulator. At the first stage the cylinder pressure of 200 bar is reduced to maximum 20 bar; at the second stage the precision regulation to the desired working pressure is effected. Upon request it is also possible to preset the first stage already in the factory permanently at 10 or 20 bar.

The first stage has an additional outlet secured by a locking screw which allows - as and when required - the connection of a second user. The high pressure shut-off valve serves at the same time as purging valve, so that at the exchange of the cylinders only the connecting hose can be affected by impurities and has to be purged. Thus the purging effort and the involved waste of gas can be minimised.

Depending on on-site space conditions and demand of the customer, the two pressure stages can be arranged horizontally or vertically. In both cases the complete unit is assembled on a stainless steel profile what enables an easy wall fastening.

GLOOR

Expansion station Art.7870 :

Inlet pressure	: 200 bar / secondary pressure of first stage: max. 20 bar
Outlet pressure secondary stage	: 0-4, 0-6 or 0-10 bar
Flow rate of second stage	: 5 Nm ³ /h (4 bar), 8 Nm ³ /h (6 bar), resp. 11 Nm ³ /h (10 bar)
Gases	: all pure gases and gas mixtures with exception of corrosive and toxic gases
Inlet	: non combustible gases 3/4" R, combustible gases 3/4" L
Outlet	: G1/4" inner thread (as well on second stage as on the optional outlet of first stage)
Material	: body brass, outer parts chrome-plated diaphragm : stainless steel with O-ring sealing sealing material : polyamide (PA) flat seal
Operating temperature	: -20°C to + 60°C
Leaking rate helium	: < 1 * 10 E-8 mbar * l * s ⁻¹

