

Pressure regulator U12



Dome loaded pressure regulator U12 - G 1 m

Performance factors for evaluation of flow rates for pressure regulator U12

Performance factor	L_5 (5% pressure drop)	6
	L_{10} (10% pressure drop)	7,5
	L_{max}	9
Outlet pressure variations [%] relating to inlet pressure variation		2,7

The outlet pressure and accordingly the accuracy will be determined by the pilot pressure regulator ST 2000 (page 5).

Product features

- Dome loaded diaphragm line pressure regulator
- Remote controlled pressure regulation (e.g. process control or cutting machines)
- For flow rates up to 300 m³/h air
- Pneumatic supply to dome loaded diaphragm controlled by small pressure regulator ST 2000
- Single-stage with high control accuracy
- Outlet pressure reduction by special vent hole in the diaphragm assembly for outlet pressures > 4 bar
- Flow increase by special dome control possible
- Central filter in the pressure regulator
- Pressure regulator with integrated relief valve
- Accessories like wall brackets and in-/ outlet fittings are also available
- Approved for use with oxygen

Attention:

For the U12 special fittings with orifice holes have to be used to ensure a correct function of the pressure regulator.

Technical data

Type	single-stage
Flow rate Q	max. 300 m ³ /h
Inlet pressure P₁	max. 40 bar*
Outlet pressure P₂	max. 30 bar
Materials	
Body:	brass
Diaphragm:	NBR
Valve seat regulator:	PA
In- and outlets	
In- / outlet (body):	G 1/2"- female
Pressure gauge ports:	G 1/4"- female
Pressure gauge connection:	G 3/8"- male
Outlet relief valve:	G 3/8"- male
Temperature range	-30°C to +60°C
Leak rate	<10 ⁻⁴ mbar l/s He
Weight	approx. 2,8 kg

*higher inlet pressure upon request

In- and outlet fittings:
see data sheet "fittings"

Ordering information: Pressure regulator U12

U12 - G 1/2 f

In- / outlet	part no.
G 1/2 f - G 1/2" female	717.08955
G 1 m - G 1" male	717.00741

Diagram for process gas controlled dome loaded pressure regulator

