

Pressure regulator U42



Dome loaded pressure regulator U42 - G 1 1/4 m

Performance factors for evaluation of flow rates for pressure regulator U42

Performance factor	L_5 (5% pressure drop)	10
	L_{10} (10% pressure drop)	11,5
	L_{max}	13
Outlet pressure variations [%] relating to inlet pressure variation		5

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 2.000 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

Technical data

Type	single-stage
Flow rate Q	max. 2.000 m ³ /h
Inlet pressure P₁	max. 40 bar
Outlet pressure P₂	max. 30 bar
Materials	
Body:	brass
Diaphragm:	EPDM
Valve seat:	PTFE
In- and outlets	
In- / Outlet (body):	G 1 1/4" - male
Pressure gauge ports:	G 1/4" - female
Outlet relief valve:	G 3/4" - female
Temperature range	-30°C to +60°C
Leak rate	<10 ⁻⁴ mbar l/s He
Weight	approx. 14 kg

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

Ordering information:
Pressure regulator U42

U42 - G 1 1/2 f

In- / outlet part no.

G 1 1/2 f - G 1 1/2" female 717.08957
G 1 1/4 m - Inlet: G 1 1/4" male
Outlet: G 1 1/2" male
717.00396

Diagram for process gas controlled dome loaded pressure regulator

