

Installation & Operating Manual for pressure reducers G 1 ½ to G 2

Pressure reducer, size 5

The system pressure in a pneumatic system can fluctuate. A pressure reducer reduces the fluctuating system pressure (primary or inlet pressure) to the required working pressure (secondary or outlet pressure) and keeps it constant. A reversible pressure reducer is normally used for service units. Reversible pressure reducers have the advantage that the secondary pressure can be reduced without bleeding off, air simply by turning back the adjusting screw. In addition, the blow-backs which occur in pneumatic controls are vented into the atmosphere by the reverse control device (which can also be regarded as a safety valve), thus protecting the pressure gauge. Max. operating pressure 25 bar, operating temperature - 10°C to +90°C.

Maintenance:

The O-rings on the cone seal and the pin must be greased lightly from time to time; the rings are dried by the flow of dry air.

To grease the O-rings:

Switch off the compressed air and isolate the unit from the air supply. Loosen the twelve screws, then remove the screw cap and the cone seal and grease the O-rings and the pin lightly.

Pressure setting:

Pull the adjusting knob up a short distance and turn it anticlockwise to relieve the pressure reducer. Then turn the knob clockwise until the pressure gauge indicates the required working range. Push the adjusting knob down to lock it in this

IMPORTANT !!

Connect a filter upstream (Art. No. 680.27, Section 1)!



Flow rates

Flow rates at $p_1 = 10$ bar, $p_2 = 8$ bar and pressure drop $\Delta p = 1$ bar

Output pressure $p_2 =$ [bar]		8
Nominal flow ($\Delta p = 1$ bar)	QN m^3/h	2880
	QN l/min	48000

Technical data:

Body: Die-cast aluminium
Pressure gauge: 2 x 63 mm diameter for bar and
lb/in² Max. input pressure: 40 bar
Nominal diameter: DN 50

Applies to the following articles:**Large pressure regulator with 2 pressure gauges for inlet and outlet pressures**

Article No.	Type No.
101136 to 101143	637.75 to 637.88