# PRESSURE REGULATOR

Dear Customer,

Thank you for your confidence in our product.

In the following pages you will find the technical data required for the trouble-free installation and maintenance of these pneumatic components. Please read the instructions fully to ensure that the product will give you long, trouble-free service.

Warning: Servicing and repair work must only be carried out by a qualified technician.

#### 1. TECHNICAL DATA

Characteristics			Pressures quoted as gauge pressure	
Port size			G3/8	G1/2
Medium and ambient	ϑmin	°C	0 (other temperatures on	
temperature range	ϑ <sub>max</sub>	°C	+60 request)	
Weight (Mass)		kg	0,55	
Pneumatic Characteristics				
Operating pressure range	<b>P</b> 1min	hor	0 16	
Inlet	p1max	Dai		
Operating pressure range	p <sub>2min</sub>	hor	0,5 on request 0,5 0,5 8 4 10	
Outlet	D2max *)	bar		
Minimum pressure difference	p <sub>1</sub> -p <sub>2</sub>	bar	0,2	
Hysteresis p1=10/p2=0 Hysteresis p1=10/p2=8		bar	0,9 0,7	
Recommended flow rate 0	Qn	l/min	850	1900
		m³/h	51	114
Maximum flow rate ②	Q <sub>max</sub>	l/min	4200	5700
		m³/h	252	342

① at p2=6 bar and 25 m/s

<sup>(2)</sup> at p<sup>1</sup>=10 bar on p<sup>2</sup>=6,3 bar,  $\Delta$ p=1 bar

\*) according to type

#### 2. INSTALLATION INSTRUCTIONS

3.



#### 4. MAINTENANCE

The regulator itself is maintenance-free. However it is important that the whole compressed air system is correctly maintained (air filtered and dewatered).

#### 5. **DISMANTLING**



# 5.1. Dismantling the Upper Part

- 1. Pull the handwheel ① upwards and turn it anticlockwise to the stop. Then pull the handwheel up and off (bending the retaining claws away carefully).
- 2. Screw off the upper part @.
- 3. Remove the regulating spring 3.
- 4. Remove the white spacer disc ④ and the diaphragm assembly ⑤ from the housing.

### 5.2. Dismantling the Lower Part

- 1. Preferably remove the regulator from the air line.
- 2. Screw off the bottom cover <sup>(1)</sup> with a pin spanner.

Caution: The spring (9) falls out of the housing with the cover.

- 3. Pull the valve piston (8) out of the housing (6).
- 4. Remove the O-Ring  $\oslash$  3 x 2  $\oslash$  from the housing.
- 5. Remove the O-Ring  $\oslash$  48 × 2 0 from the housing.

### 6. REASSEMBLY

Reassembly of the unit is carried out in the reverse order—first the lower part, then the upper part.

**Note:** If new seals are fitted, grease them thoroughly before fitting.



#### Reassembling the Upper Part:

- 1. Screw the upper part 1-2 turns into the housing.
- 2. Unlock the handwheel, hold the upper part with one hand and turn the handwheel 3-4 turns to the right  $\Rightarrow$  this centres the diaphragm to the valve piston.
- 3. Turn the handwheel to the left again and lock it.
- 4. Screw the upper part in tight up to the stop.

# 7. FITTING THE LOCK

Note: The lock can only be used on regulators fitted with the projecting locking post to take it.

- 1. Position the key obliquely to the hole and place the lock on the post.
- 2. Turn the key clockwise and remove it.

# 8. DISPOSAL

The method of disposal of packaging and discarded parts must comply with local regulations.



#### 9. ASSEMBLY OF SEVERAL COMPONENTS

Only components of the same size can be assembled into combined units.

- 1. Remove the black cover plates from the inlets and outlets of the components you wish to assemble. The coloured cover plates remain in place.
- 2. Turn the component so that the flange surface which is to be joined to the other component is on top.
- 3. Lay the O-ring ① from the coupling kit on the flange surface.
- 4. Place the hexagon nuts 2 in the recesses on the component.
- 5. Place the other component on the flange surface.
- 6. Place the clamping cones ④ with the screws ③ in the recesses on the components.
- 7. Tighten the clamping screws.

#### **10. FITTING THE MOUNTING BRACKET**

1. Remove the prestamped parts which cover the through-holes on both sides of the unit.

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- 2. Fit the mounting bracket and secure it with the screws provided. Tighten them with a screwdriver.
  - Note: The mounting bracket can be fitted with the mounting strap

either upwards or downwards.



