STOP VALVE

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			G1/4	G3/8
Installation			In any position - direct assembly to air preparation units and/or to soft start valve is recommended	
Actuation			Pneumatic (-P) or Electrical (-E)	
Medium and ambient temperature range	ϑ_{min} ϑ_{max}	°C °C	0 +60 at 10 bar (other temperatures on request)	
Weight (mass) P/E		kg	0,5 / 0,8	0,5 / 0,8
Pneumatic Characteristics				
Operating pressure range Inlet	p_{1min} p_{1max}	bar	2 10	
Recommended flow rate ①	Q_n	l/min m³/h	**550** **33**	**850** **51**
Maximum flow rate ②	Q_{max}	l/min m³/h	1500 90	1600 96

① at p2=6,3 bar and 25 m/s ② at p1=6,3 bar and Δp = 1 bar

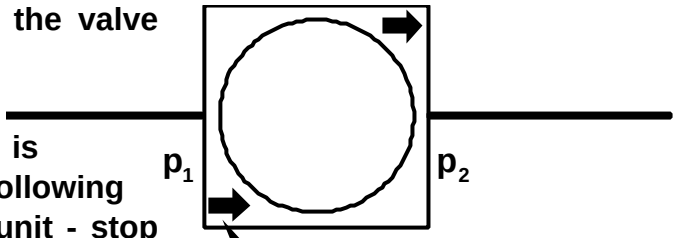
Venting time (s) in Relation to Volume	
Pressure reduction	Venting time (s) ③
from 8 → 0,1 bar	0,7 × V (l) = t (s)
from 6 → 0,1 bar	0,65 × V (l) = t (s)
from 4 → 0,1 bar	0,55 × V (l) = t (s)
from 2 → 0,1 bar	0,45 × V (l) = t (s)

③ Note: Calculation basis assumes only a short NW8 mm connection directly after the stop valve.

2. INSTALLATION INSTRUCTIONS

Warning: **The unit must only be used in industrial applications for compressed air.**
To avoid danger of injuries, the compressed air system must be fully depressurized while pneumatic components are being installed.
Electrical connection work must be done by a qualified technician.

1. **Clean any rust particles or other dirt out of the tubing.**
2. **Fit a mounting bracket, if applicable.**
3. **Connect the tubing to the valve (check flow direction!).**
   Direct connection to the air preparation unit is recommended (in the following order: air preparation unit - stop valve - soft start valve).



4. **Connect the connector ③ to the power supply (electrically actuated valve) or connect the compressed air control line to the valve (pneumatically actuated valve).**
5. **Turn on the compressed air supply.**

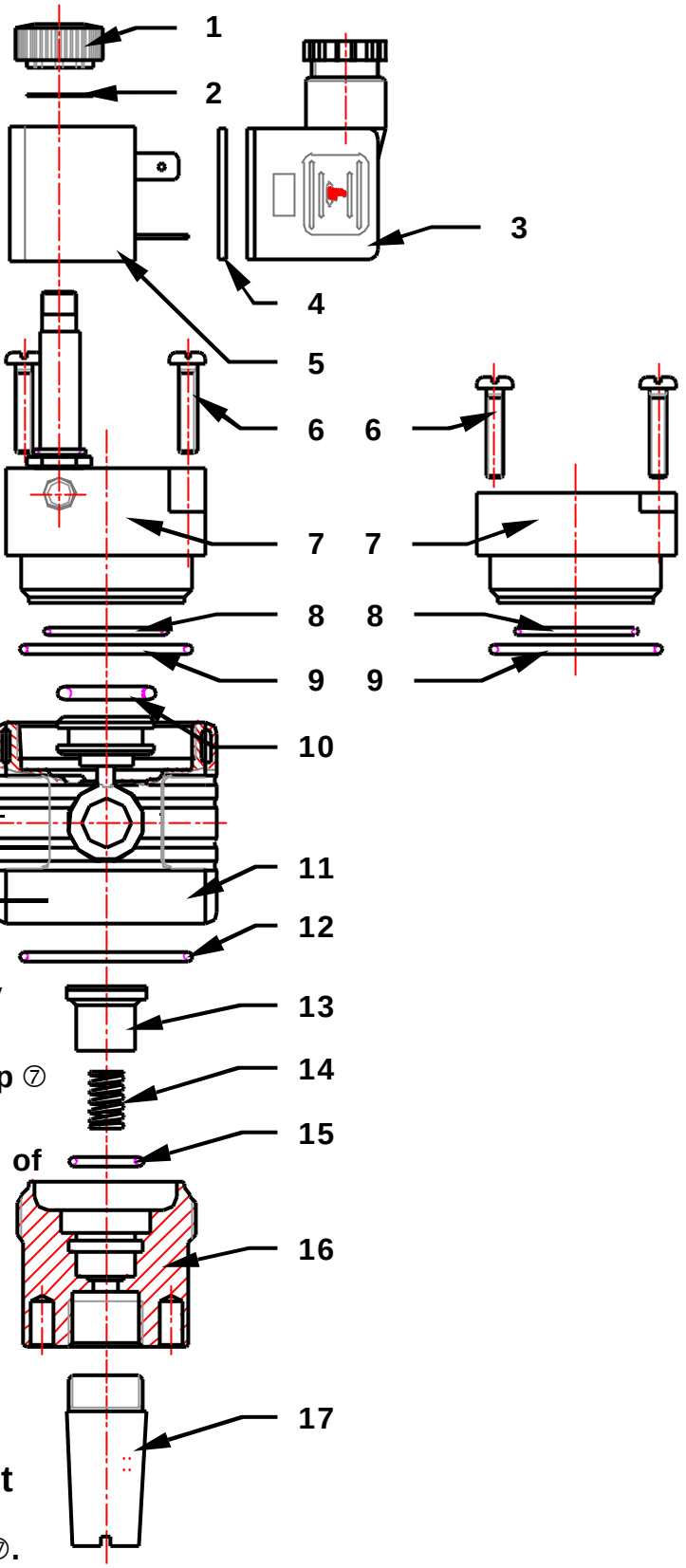
3. MAINTENANCE

The stop valve itself is maintenance-free. The compressed air system as a whole must be correctly maintained (air filtered and dewatered).

4. DISMANTLING

electrical | *pneumatic*

Warning: **To avoid danger of injuries, the unit must only be dismantled with the pneumatic system completely depressurized!**



4.1. Dismantling the Upper Part

1. **Remove screw from connector ③ and pull connector off solenoid coil ⑤ (electrically actuated valve).**
   Remove pilot air line from valve (pneumatically actuated valve).
2. **Remove knurled nut ① from solenoid coil ⑤, take spring washer ② out of recess and take off solenoid coil ⑤ (electrically actuated valve).**
3. **Remove screws ⑥ from cap ⑦ and pull cap off.**
4. **Take O-ring ∅ 35 × 2 ⑨ out of housing ⑪.**
5. **Take O-ring ∅ 25 × 1,5 ⑧ out of cap ⑦.**
6. **Remove O-ring ∅ 16 × 3 ⑩ from piston.**

4.2. Dismantling the Lower Part

1. **Screw off sintered silencer ⑰.**
2. **Loosen cap ⑯ with pin spanner and screw it off.**
3. **Take spring ⑭ and piston ⑬ out of housing ⑪.**
4. **Take O-ring ∅ 13 × 2 ⑮ out of cap ⑯.**
5. Take O-ring ∅ 35 × 2 ⑫ out of housing ⑪.

5. REASSEMBLY

Reassembly of the unit is carried out in reverse order.

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

5.1. Reassembly of Upper Part

1. **Place O-ring ∅35 × 2 ⑨ in housing ⑪.**
2. **Place O-ring ∅25 × 1,5 ⑧ in cap ⑦.**
3. **Push cap on (hole in cap and in housing must line up) and secure with the screws ⑥.**
4. **Push solenoid coil ⑤ with recess upwards on cap ⑦, lay spring washer ② in recess and secure with knurled nut ①.**
5. **Push connector ③ on and secure with screw. Make sure that rubber gasket ④ is in place between connector and solenoid coil.**

5.2. Reassembly of Lower Part

1. **Insert spring ⑭ and piston ⑬ in housing ⑪ and centre them on valve plunger.**
2. **Screw on cap ⑯ and make sure that piston ⑬ remains centred, then tighten with pin spanner.**
3. **Screw on sintered silencer ⑰.**

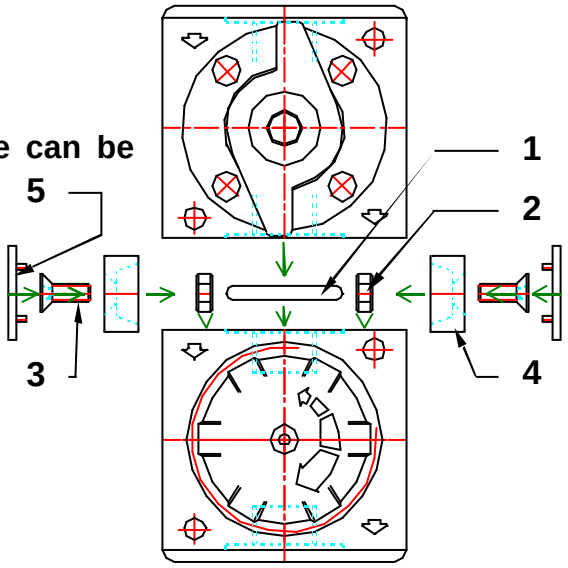
6. DISPOSAL

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

7. ASSEMBLY OF SEVERAL COMPONENTS

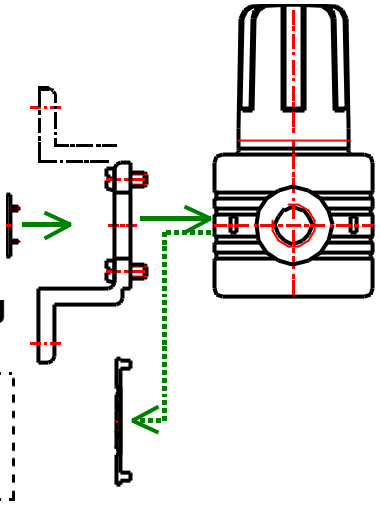
Only components of the same size can be assembled into combined units.

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.
8. Push the small cover plates ⑤ from the coupling kit on to the clamping cones.

8. FITTING THE MOUNTING BRACKET



1. Remove the coloured cover plate from the component.
2. Screw the mounting bracket to the component with the screws provided using a Phillips screwdriver.

Note: The mounting bracket can be fitted with the mounting strap either upwards or downwards.