

FILTER-WATER-SEPARATOR

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

<i>Characteristics</i>			Pressures are gauge pressure	
Port size			G3/8	G1/2
Pore size of filter insert		μm	30 (white) 5 (yellow)	
Max. condensate capacity		cm^3	57	
Condensate drainage			standard: manual on request: semiautomatic with pressure relief	
Installation			vertical	
Medium and ambient temperature range	ϑ_{min}	$^{\circ}\text{C}$	0 (other temperatures on request)	
	ϑ_{max}	$^{\circ}\text{C}$	+50 at 10 bar	
Weight (mass)		kg	0,55	
<i>Pneumatic Characteristics</i>				
Operating pressure range inlet	$p_{1\text{min}}$	bar	0	
	$p_{1\text{max}}$		16	
Recommended flow rate ①	Q_n	l/min	850	1900
		m^3/h	51	114
Maximum flow rate ②	Q_{max}	l/min	4500	5000
		m^3/h	270	300
Separation efficiency at recommended flow rate	η	%	95	95

① at $p_1=6$ bar and 25 m/s

② at $p_1=6,3$ bar, $\Delta p=1$ bar

2. INSTALLATION INSTRUCTIONS

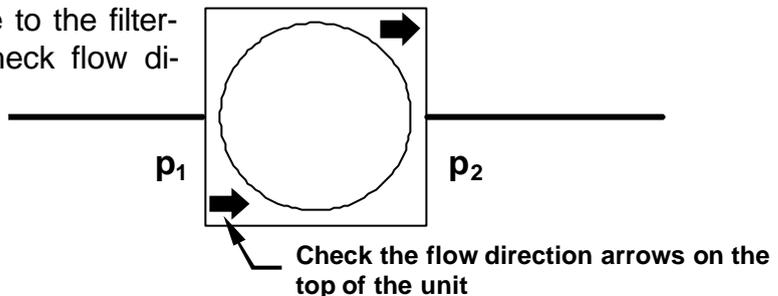
Warning: The unit must only be used in industrial applications for compressed air.

 To avoid danger of injuries, the compressed air system must be fully depressurized while pneumatic components are being installed.

Note: The bowl must not come into contact with the following materials (whether in liquid or gaseous form): acetone, benzene, brake fluid, chloroform, acetic acid, glycerine, methanol, carbon bisulphide, tri-, tetra- and per-compounds, toluene, xylene (cellulose thinners) and high flash-point synthetic oils (e.g. phosphoric ester base, etc.). If in doubt, please consult your sales contact.



1. Carefully clean rust particles or other dirt out of the air line.
2. Fit a mounting bracket, if applicable.
3. Connect the air line to the filter-water-separator (check flow direction!)
4. Turn on the compressed air supply.

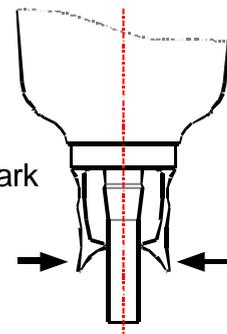


3. MAINTENANCE

3.1. Manual Drainage

To drain condensate from the bowl, press the plastic tabs together as shown \Rightarrow this opens the valve.

The condensate level should never be above the "Maximum" mark on the bowl.



3.2. Cleaning

As soon as serious pressure drop is observed, clean the filter element and bowl. Clean the filter element with petrol, paraffin or similar and blow it out from inside to outside. The element must be completely dry before reassembly.

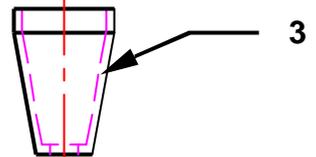
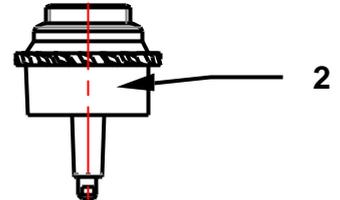
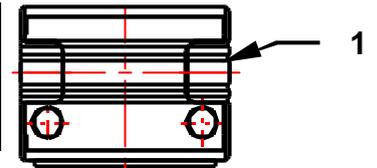
The bowl and other plastic parts should only be cleaned with warm water and normal washing-up liquid.

4. DISMANTLING

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



1. Press down the unlocking latch of the locking ring and turn the bayonet ring ⑥ to the left.
2. Take off the bowl ⑦ with the bayonet ring.
3. Unlock the deflector disc ④ by turning it to the left and pull it off the spigot.
4. Pull the conical filter element ③ from its seat.
5. Screw the deflector ring ② out of the housing ①.
6. Take the O-ring $\varnothing 48 \times 2$ ⑤ out of the housing ①.

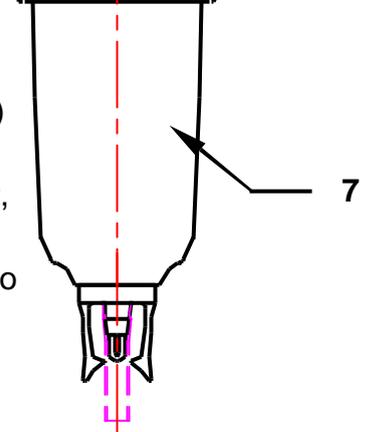


5. REASSEMBLY

Reassembly of the unit is carried out in reverse order to dismantling.

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

1. Screw the deflector ring ② into the housing ①.
2. Place the O-ring $\varnothing 35 \times 2$ ⑤ in the housing ①.
3. Push the filter element ③ (5 μ m...yellow, 30 μ m...white) into its seat.
4. Push the deflector disc ④ with slot on to the spigot, press gently and lock it by turning to the right.
5. Insert the bowl ⑦ and bayonet ring with spigot back into the housing and lock by turning to the right.



6. FITTING THE BOWL GUARD

The bowl guard kit consists of:

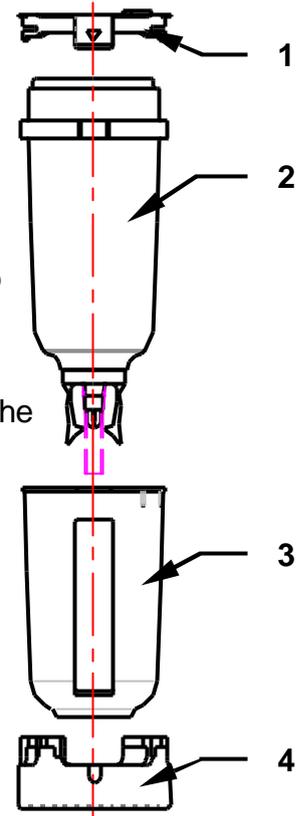
- locking ring
- bowl guard and
- bayonet ring

Fitting:

First remove the bowl, then proceed as follows:

1. Take the locking ring ① out of the bayonet ring ④ (using some force if necessary).
2. Pull the bayonet ring ④ off the bowl ②.
3. Fit the bayonet ring ④ and the bowl guard ③ (from the kit) together.
4. Insert the bowl ② into the bayonet ring ④.
5. Insert the locking ring ① into the bayonet ring ④.

Note: The unlocking latch (arrow) must line up with the recess in the bayonet ring.



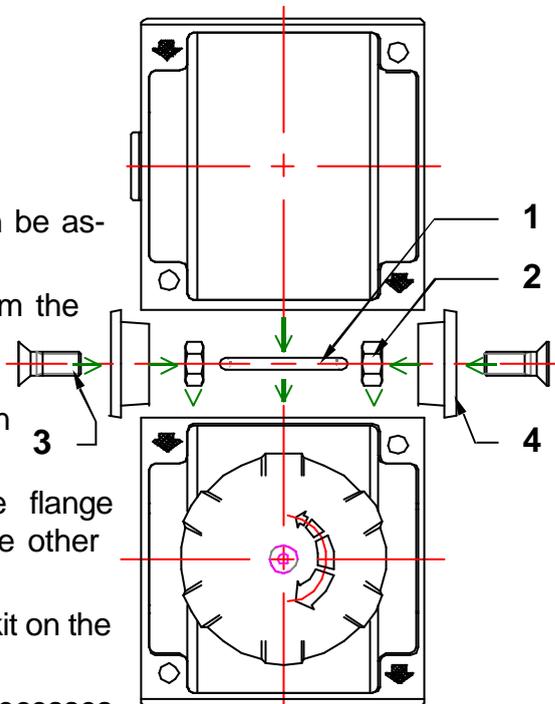
7. DISPOSAL

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

8. 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.



9. FITTING THE MOUNTING BRACKET

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

