# 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 and observe 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 are gauge pressures | |
|---|---|---|---|---|
| Port size | | | G1/8 | G1/4 |
| Pore size of filter insert | | µm | 25 (white)<br>5 (yellow) | |
| Max. condensate capacity | | cm³ | 12 | |
| Condensate drainage | | | standard: manual<br>on request: semiautomatic with pressure relief | |
| Installation | | | vertical (bowl downwards) | |
| Medium and ambient temperature range | $\vartheta_{min}$<br>$\vartheta_{max}$ | °C<br>°C | 0<br>+50 ① (other temperatures on request) | |
| Weight (mass) | | kg | 0,1 | |
| *Pneumatische Kenngrößen* | | | | |
| Operating pressure range Inlet | $p_{1min}$<br>$p_{1max}$ | bar | 0<br>10 | |
| Recommended flow rate ② | $Q_n$ | l/min<br>m³/h | **300**<br>**18** | **550**<br>**33** |
| Maximum flow rate ③ | $Q_{max}$ | l/min<br>m³/h | 1085<br>65 | 1830<br>110 |
| Filtration efficiency at recommended flow rate | - | % | >90 | |

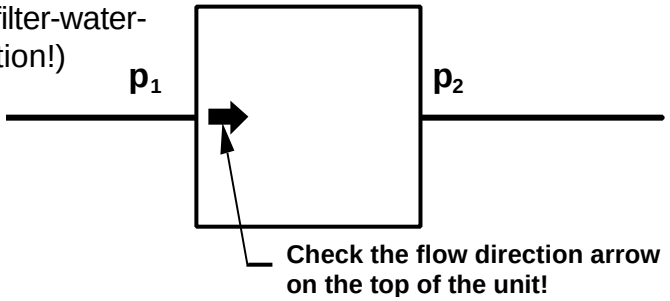
① at 10 bar ② at $p_1$=6 bar and 25 m/s ③ at $p_1$=6,3 bar and ⁎p=1bar

## 2. INSTALLATION INSTRUCTIONS

**Warning**: The unit must be used only 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.).
Incompatible materials can be carried over from the ambient air or from equipment upstream (e.g. oil from compressors). This can cause bursting of the bowl.
Check this possibility before installing the unit. If in doubt, please consult your sales contact.

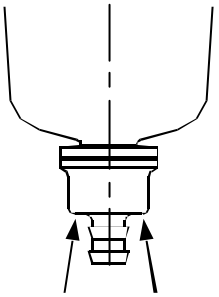
1. Clean out the air line carefully, removing all loose rust or other deposits.
2. Connect the air line to the filter-water-separator (check flow direction!)
3. Turn on the compressed air supply.




## 3. MAINTENANCE

### 3.1. Manual Drainage

To drain condensate from the bowl, press the plastic part upwards against the bowl ⇒ this opens the valve.
The condensate level should never be above the “Maximum” mark on the bowl.



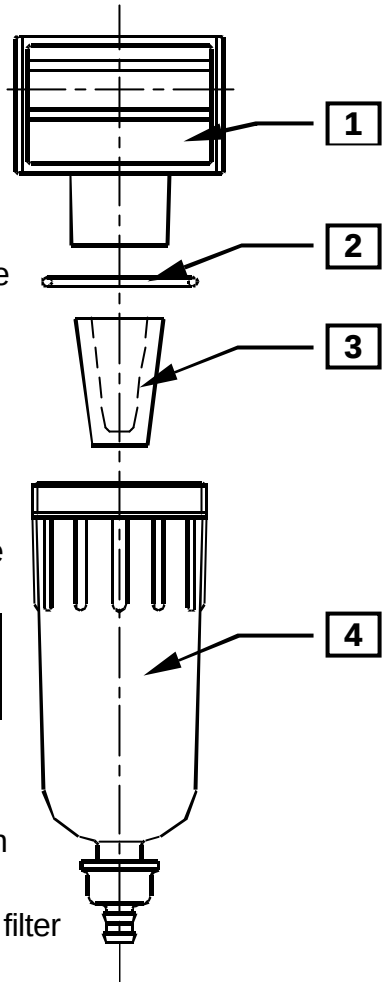
### 3.2. Cleaning

As soon as serious pressure drop is observed, clean the filter element and also the 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 de-pressurized!

1. Unscrew the bowl ④.
2. Remove the conical filter element ③ from the bowl.
3. Remove the O-ring ∅31 × 2 ② from the housing.




## 5. REASSEMBLY

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

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

1. Lay the O-ring ∅31 × 2 ② in the housing.
2. Fit the filter element ③ (5µm…yellow, 25µm…white) in its mount in the deflector ring (in the bowl).
3. Screw the bowl ④ into the housing (centring the filter element) and tighten it hand-tight.

## 6. DISPOSAL

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

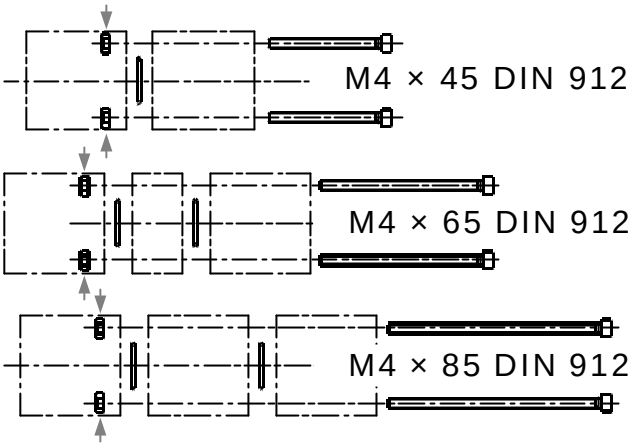
## 7. ASSEMBLY OF SEVERAL COMPONENTS

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

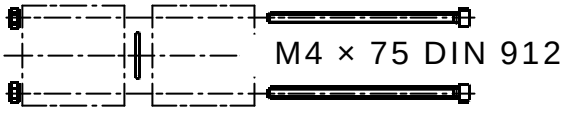
### 7.1. Assembly of Pressure Regulators or Filter-Regulators with Other Components

1. Remove the black cover plates from the inlets and outlets of the components you wish to assemble.
   The coloured cover plates remain on the component (filter, lubricator), through which the assembly screws will go.
2. Remove the coloured cover plates from the component (regulator, filter-regulator) in whose recesses the nuts will be placed.

3. Turn the component so that the flange surface which is to be joined to the other component is on top.
4. Lay the O-ring from the coupling kit on the flange surface.
5. Place the hexagonal nuts in the recesses of the component.
6. Place the other component on the flange surface.
7. Push the screws into the through-holes of the other component.
8. Tighten the screws.
9. Fit the black cover plates over the inlets and outlets of the components.
10. Fit the coloured cover plates.




## 7.2. Assembly of Oil Mist Lubricators with Filters or Filters with Other Types of Filter




1. Remove the black cover plates from the inlets and outlets of the components you wish to assemble. The coloured cover plates remain on the components.
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 from the coupling kit on the flange surface.
4. Place the hexagonal nuts in the recesses of the component.
5. Place the other component on the flange surface.
6. Push the screws into the through-holes of the other component.
7. Tighten the screws.
8. Fit the black cover plates over the inlets and outlets of the components.