ACTIVATED CARBON FILTER

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
Installation			vertical (bowl downwards)	
Medium and ambient temperature range	0_{min} 0_{max}	°C °C	1,5 +50 ① (other temperatures on request)	
Weight (mass)		kg	0,1	
Pneumatic Characteristics				
Operating pressure range Inlet	p_{1min} p_{1max}	bar	0 10	
Recommended flow rate ②	Q_n	l/min m³/h	**125** **7,5**	**125** **7,5**
Pressure drop at recommended flow rate	*p	bar	ca. 0,07	
Filtration efficiency for oil vapour	–	%	99,999% residual oil: 0,001mg/m³	

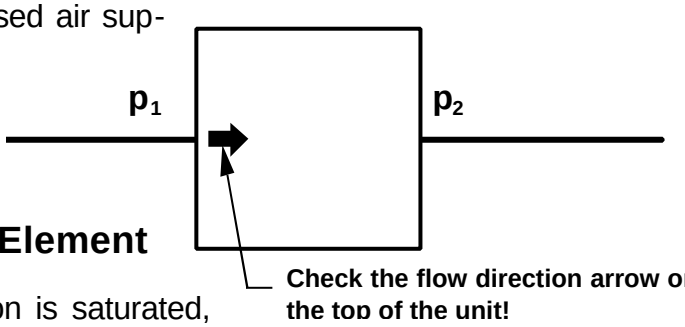
① at 10 bar
② at 6 bar

2. INSTALLATION INSTRUCTIONS

Warning: The unit must only be used in industrial applications for compressed air, but can also be used in medical engineering applications.
NOTE! The housing and activated carbon filter are not sterilized (not suitable for steam sterilization)!
To avoid danger of injuries, the compressed air system must be fully depressurized while pneumatic components are being installed.

Note: A submicrofilter must always be installed before the activated carbon filter (directly before it if possible).
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 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 activated carbon filter (check the flow direction arrow on top of the unit! ⇒ the wrong flow direction will damage the filter element irreparably!).
3. Turn on the compressed air supply.



3. MAINTENANCE

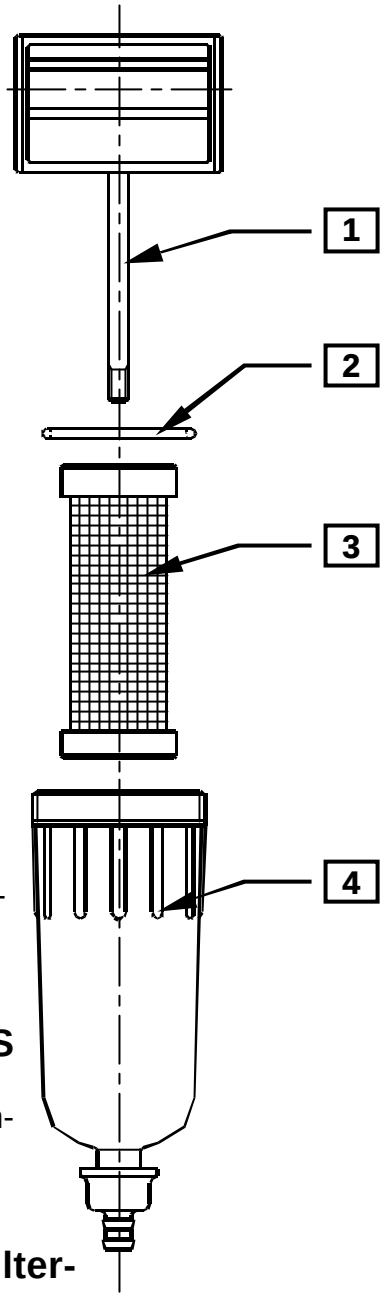
3.1. Changing the Filter Element

When the activated carbon is saturated, the filter element must be changed.
The filter element cannot be washed out and must always be changed.
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. Unscrew bowl ④.
2. Unscrew filter insert ③ from tie bolt ①.
3. Remove O-ring ∅31 × 2 ② from housing ①.



5. REASSEMBLY

Reassembly is carried out in the reverse order.

1. Place O-ring ∅31 × 2 ② in housing ①.
2. Screw filter insert ③ onto tie bolt ①.
3. Screw bowl ④ into housing ① hand-tight.

6. DISPOSAL

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

7. ASSEMBLY OF SEVERAL COMPONENTS

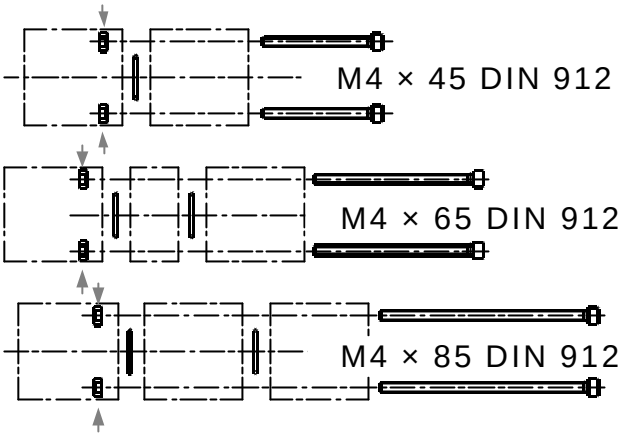
Only components of the same size can be assembled into combined units.

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

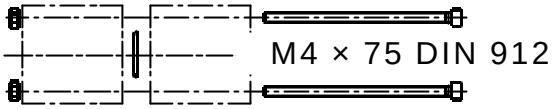
1. Remove the black cover plates from the inlets and outlets of the components you wish to assemble.

   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.