OIL MIST LUBRICATOR

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
Oil/ air mixture ratio			degressive (number of drops per minute remains almost constant)	
Maximum oil capacity ①		cm^3	35	
Oil refilling			manual	
Installation			vertical (bowl downwards)	
Medium and ambient temperature range	ϑ_{min} ϑ_{max}	°C °C	0 +50 ②	(other temperatures on request)
Weight (mass)		kg	0,09	
Pneumatic Characteristics				
Operating pressure range Inlet	p_{1min} p_{1max}	bar	0 10	
Recommended flow rate ③	Q_n	l/min m^3/h	**300** **18**	**550** **33**
Maximum flow rate ④	Q_{max}	l/min m^3/h	865 52	1400 84
Optimum operating range	Q_n	m^3/h	1,5 … 30	

① only approved oils of viscosity class VG 32 to ISO 3448 (32 mm^2/s at 40 °C)
② at 10 bar ③ at p_1=6 bar and 25 m/s ④ at p_1=6,3 bar and ⁎p=1bar

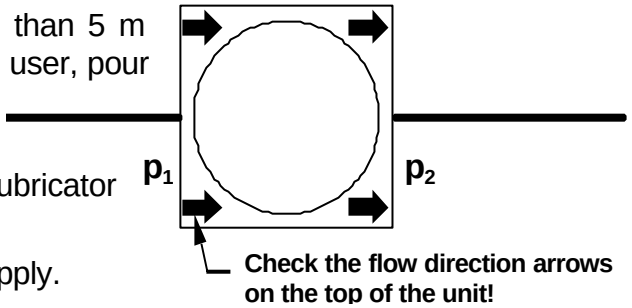
2. INSTALLATION INSTRUCTIONS

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 and the standard sight glass 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.

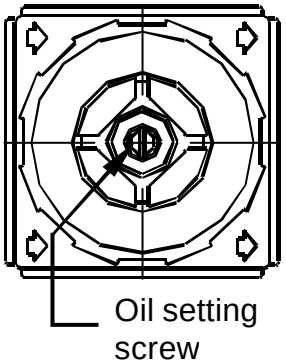
1. Clean out the air line carefully, removing all loose rust or other deposits.
2. If there is a distance of more than 5 m between the lubricator and the user, pour a little pneumatic oil into the air line.
3. Connect the air line to the lubricator (check flow direction!)
4. Turn on the compressed air supply.



3. ADJUSTMENT

The oil addition rate can be adjusted with the oil setting screw as required. The number of drops can be observed in the sight glass.

Note: The minimum number of drops should not be less than 3 drops per minute.
Check that oil feed is maintained even with the smallest actual air flow rate.



More oil: turn the screw to the left **Less oil:** turn the screw to the right

4. MAINTENANCE

4.1. Refilling

Refill the bowl with pneumatic oil (viscosity class VG32 to ISO3448 (32mm²/s at 40°C)). Never allow the oil level to fall below the “Minimum” mark.

Refilling:

Note: Depressurize the unit before refilling!

1. Depressurize the lubricator by turning off the compressed air supply and venting the air line.
2. Unscrew the bowl from the housing.
3. Refill the bowl with oil up to a level about 5 mm below the end of the screw thread.
4. Screw the bowl back into the housing.
5. Turn on the compressed air supply.

4.2. Cleaning

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

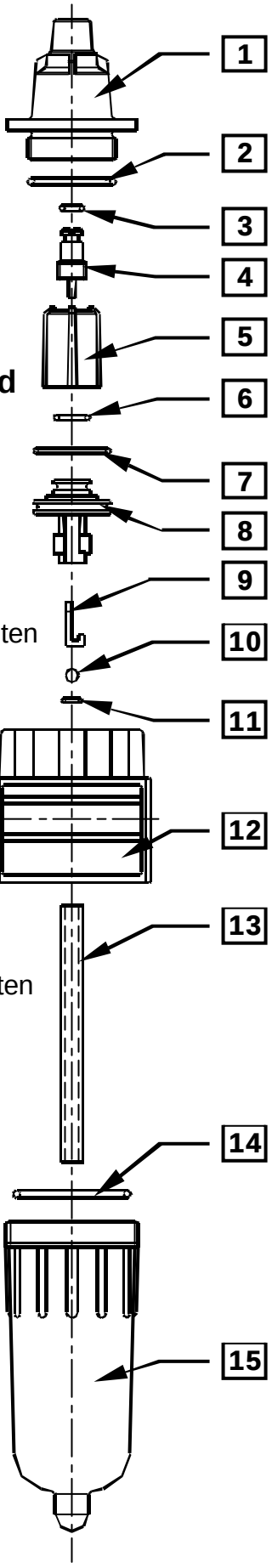
4.3. Replacement of Parts

For safety reasons we recommend that the bowl and sight glass should be replaced at periodic intervals (~5 years)..

5. DISMANTLING AND REASSEMBLY

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

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



5.1. Removing and Refitting the Sight Glass and Sight Glass Insert

1. Carefully loosen and unscrew sight glass ①.
2. Unscrew oil setting screw ④ from sight glass.
3. Roll O-ring ∅20.35 × 1.78 ② off sight glass ①.
4. Pull sight glass insert ⑤ off insert ⑧.
5. Reassembly is carried out in the reverse order (tighten sight glass carefully).

5.2. Removing and Refitting the Oil Setting Screw

1. Carefully loosen and unscrew sight glass ①.
2. Unscrew oil setting screw ④ from sight glass.
3. Roll O-ring ∅3.7 × 1.6 ③ off oil setting screw ④.
4. Reassembly is carried out in the reverse order (tighten sight glass carefully).

5.3. Removing and Refitting the Check Valve

1. Carefully loosen and unscrew sight glass ①.
2. Pull sight glass insert ⑤ off insert ⑧.
3. Lever insert ⑧ carefully out of housing ⑫ with a screwdriver.
4. Remove black baffle ⑨ from insert ⑧.
5. Remove O-ring ∅7 × 1.5 ⑥ from insert ⑧.
6. Remove O-ring ∅18 × 1.5 ⑦ from insert ⑧.
7. Remove O-ring ∅3 × 1.5 ⑪ from insert ⑧.
8. Shake ball ∅3.5 ⑩ out of insert ⑧.
9. The check valve unit is reassembled as follows:
   a) Fit O-ring ∅18 × 1.5 ⑦ onto insert ⑧.
   b) Fit O-ring ∅7 × 1.5 ⑥ onto insert ⑧.
   c) Place ball ⑩ in insert ⑧.

d) Lay O-ring ∅3 × 1.5 ⑪ in opening of insert.
   Take care that O-ring is correctly positioned.
e) Place baffle ⑨ in white insert.
f) Place insert ⑥…⑪ in housing ⑫ so that ball ⑩ is located over hole for riser pipe ⑬.

10. Push sight glass insert ⑤ onto white insert.
11. Screw in sight glass ① and tighten it.

5.4. Removing and Refitting the Bowl

1. Carefully loosen and unscrew bowl ⑮.
2. Remove O-ring ∅31 × 2 ⑭ from housing ⑫.
3. Reassembly is carried out in the reverse order (tighten bowl carefully).

6. DISPOSAL

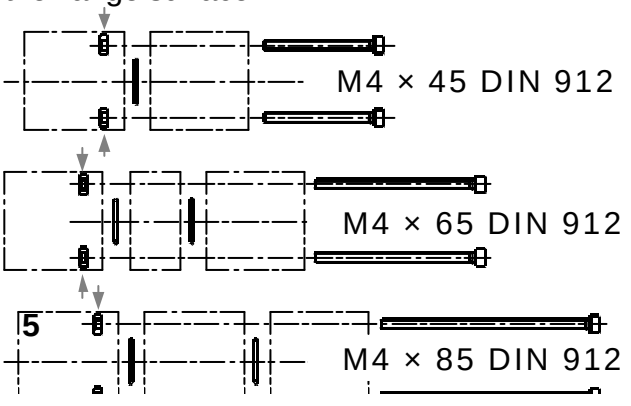
The method of disposal of packaging and discarded parts must comply with local regulations.

7. ASSEMBLY OF SEVERAL COMPONENTS

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

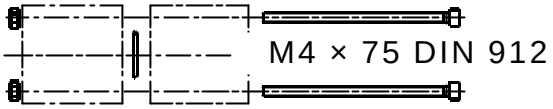
7.1. Assembly of Pressure Regulators or Filter-Regulators with Other Components

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.