

Documentation Oil mist separator AF

WER Dok.E.01.945-01.960

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1. Introduction/Safety Instructions

Before installing and using the oil mist separator, this documentation must be read carefully to avoid personal and material damage. All statutory provisions and regulations must be observed.



2. Description

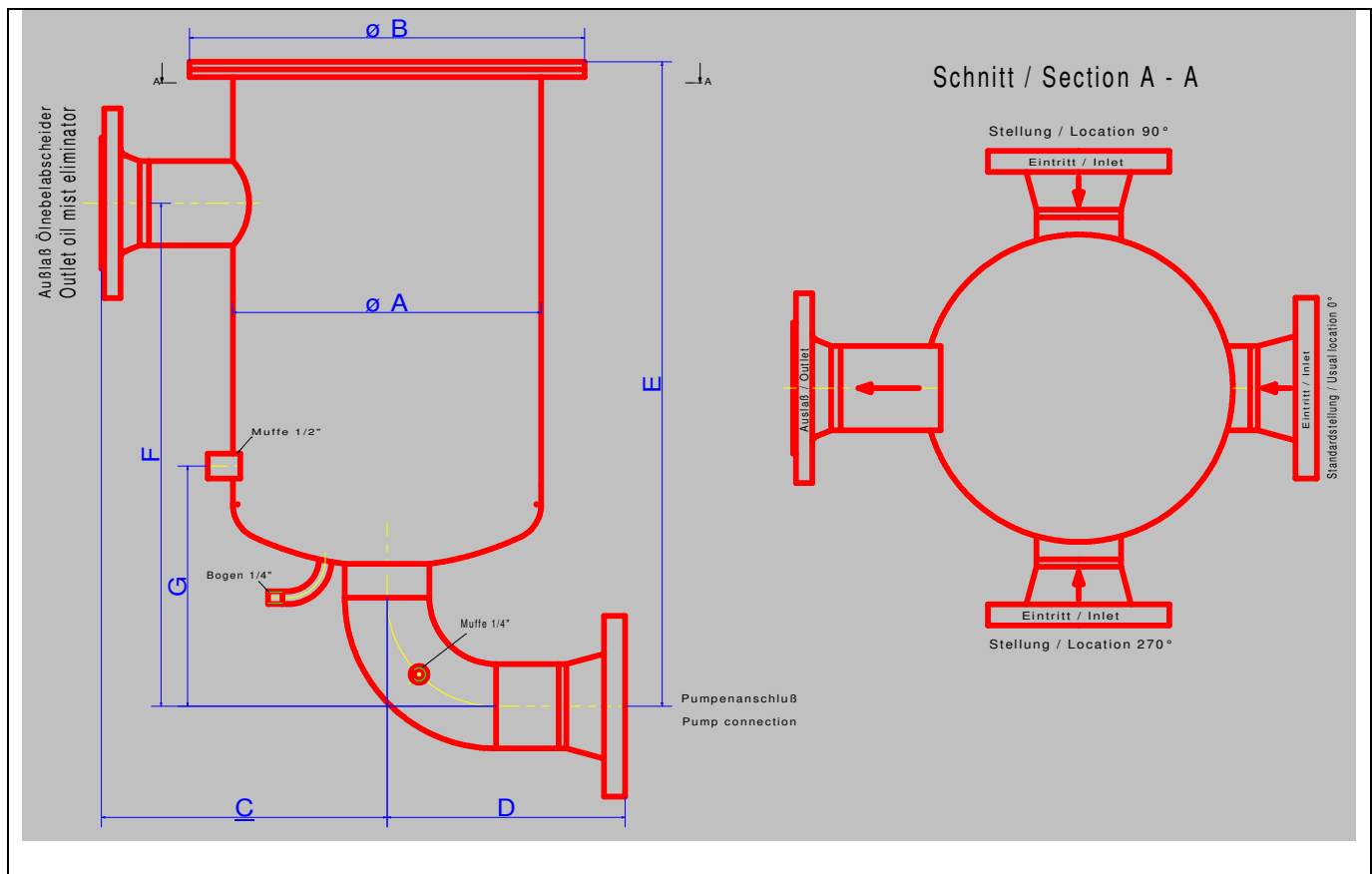
The oil mist filter AF is used for the separation of the oil mist in the exhaust air of oil-sealed vacuum pumps. The pump connection is designed for -KINNEY[®] rotary-piston pumps, but is carried out according to customer requirements and can therefore be used for other oil-sealed vacuum pump of other manufacturers.

WERNIG oil mist separators are made to order, therefore various options possible.

Characteristics:

- **separation more than 99%**
- **Low pressure losses**
- **quick cartridge changes**
- **easy cleaning**
- **Oil drain plugs with ball valve (also for direct oil return to the pump applicable)**
- **Pressure gauge**
- **connecting dimensions can be adjusted optional**
- **possible execution as standing container**
- **painting as desired**
- **Various material combinations possible, for example, completely stainless steel**

3. Dimensions



Technical Data

Type	Max. flow	Pump connection	Discharge side	Connection pressure gauge	Connection Oil drain	Weight
AF 1	288 m ³ /h	ANSI 2" 150 lbs	DN 50 PN 16	Muffe 1/4"	G 1/4"	~ 27 kg
AF 2	552 m ³ /h	ANSI 3" 150 lbs	DN 80 PN 16	Muffe 1/4"	G 1/4"	~ 44 kg
AF 3	966 m ³ /h	ANSI 4" 150 lbs	DN 100 PN 16	Muffe 1/4"	G 1/4"	~ 62 kg
AF 4	1488 m ³ /h	ANSI 5" 150 lbs	DN 125 PN 16	Muffe 1/4"	G 1/4"	~ 90 kg
Dimensions						
Type	Ø A	Ø B	C	D	E	F
AF 1	273 mm	360 mm	250 mm	200 mm	510 mm	400 mm
AF 2	324 mm	415 mm	300 mm	250 mm	680 mm	530 mm
AF 3	406 mm	500 mm	350 mm	250 mm	725 mm	550 mm
AF 4	457 mm	550 mm	400 mm	280 mm	950 mm	750 mm

The permissible operating temperature of the filter inserts is -15 to + 140 °C, the pressure loss is ~ 15 kPa at max. flow with a new element. The compressive strength at least 1.5 bar_g.

4. Installation

The installation position of the oil mist separator may be provided as standard only vertically. The flow direction is observed in principle as shown in the sketch dimensions.

Installation may only be carried out under clean, usual in vacuum technology conditions. It is particularly important to ensure that the sealing surfaces are not damaged. If faulty, unclean installation and improper operation of any warranty expires.

Additional forces by attachments, etc. are to be avoided. Decouplings by example bellows units are preferable.

5. Maintenance Instructions

The usual life of the filter cartridges in clean conditions, is approximately 12 months. Dust or other impurities significantly affect the pressure loss and the collection efficiency. If the manometer shows the entrance of the oil mist separator a pressure of 0.6 bar / 600 mbar, a change of filter elements is required.

Changing the filter cartridge

- Dismantling the filter cover by loosening the screws
- Disassembling of the filter cartridges
- Cleaning of the filter housing
- Assembling new filter cartridges and fix (tighten the nut moderately)
- Mounting filter cover
- If necessary leak test

Maintenance can also be carried out by WERNIG Maschinen- und Apparatebau GmbH & Co. KG. Please contact us.

6. Order numbers

Ordering information for complete oil mist separator, replacement cartridges and replacement cover gasket

Pump connection	0 ° (Standard)	90 °	270 °	Cartridge set	Replacement cover gasket
Part number					
Type					
AF 1	WER 01.945.10	WER 01.945.11	WER 01.945.12	WER 01.999.75	WER 01.999.85
AF 2	WER 01.950.10	WER 01.950.11	WER 01.950.12	WER 01.999.76	WER 01.999.86
AF 3	WER 01.955.10	WER 01.955.11	WER 01.955.12	WER 01.999.77	WER 01.999.87
AF 4	WER 01.960.10	WER 01.960.11	WER 01.960.12	WER 01.999.78	WER 01.999.88

Ordering information for spare parts

Part number	
Type	
Pressure gauge	WER 01.999.95
Ball valve	WER 01.999.96

More options and spare parts on request.