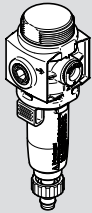


MS2-LF-...-B

Filter



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Operating instruction

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Translation of the original instructions

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1 Applicable documents

 All available documents for the product → www.festo.com/sp.

2 Safety

2.1 Safety instructions

- Only use the product in its original condition without unauthorised modifications.
- Only use the product if it is in perfect technical condition.
- Observe the identifications on the product.
- Store the product in a cool, dry environment protected from UV and corrosion. Keep storage times short.
- Take into account the ambient conditions at the location of use.
- Before working on the product, switch off the compressed air supply and lock it to prevent it from being switched on again.
- Use only media to which the materials used for the product are resistant. For evaluation of the media resistance → www.festo.com/sp.

2.2 Intended use

The filter removes dirt particles and condensate from the operating medium. The product is intended for use in industrial environments.

2.3 Training of qualified personnel

Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. The qualified personnel have knowledge and experience in pneumatics.

3 Additional information

- Contact the regional Festo contact if you have technical problems → www.festo.com.
- Accessories and spare parts → www.festo.com/catalogue.

4 Product design

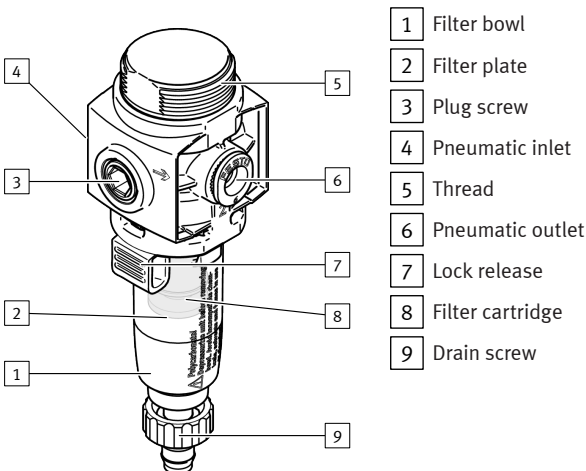


Fig. 1: Product design

5 Assembly

5.1 Direct fastening

- Space required above the product: 20 mm
 - Space required under the product: 30 mm
 - Space required left and right of the product: 30 mm
 - Shut-off valves are installed in the compressed air supply line.
 - The maximum permissible wall thickness is 2.0 mm.
1. Align the product vertically in the flow direction from 1 to 2. Use the numbers and the directional arrow on the product housing for orientation.
 2. Tighten the knurled nut.

5.2 Wall mounting

- Space required above the product: 20 mm
 - Space required under the product: 30 mm
 - Space required left and right of the product: 30 mm
 - Shut-off valves are installed in the compressed air supply line.
1. Attach the mounting bracket MS2-WR to the product → 3 Additional information.
 2. Align the product vertically in the flow direction from 1 to 2. Use the numbers and the directional arrow on the product housing for orientation.
 3. Tighten the screws.

6 Installation

1. Prepare the recommended fittings, seals and tubing.
2. For MS2-LF-M5-...-B:
Screw the fittings into the pneumatic ports. Note the maximum screw-in depth of the connector thread. Screwing in deeper will reduce the flow rate. Maximum screw-in depth: 6.5 mm
3. Insert tubing into the fitting to the stop.
 - Position tubing axial to the pneumatic ports.
 - Do not bend the tubing more than the minimum bending radius. Minimum bending radius: 16 mm

7 Maintenance

7.1 Draining condensate

When the condensate level reaches a maximum of 10 mm below the filter element:

1. Unscrew the drain plug [9] anticlockwise.
 - ↳ The condensate drains out.
2. Screw in the drain plug clockwise.

7.2 Replacing filter cartridge

If the flow rate is reduced even though the pressure setting is unchanged:

1. Exhaust the entire system and the filter.
2. Pull the lock release [7] on the filter bowl [1] down. Turn the filter bowl to the stop and pull it down.
3. Unscrew the filter plate [2] and remove the filter cartridge [8].
4. Slide the new filter cartridge onto the filter support.
5. Tighten the filter plate. Tightening torque: 0.07 Nm ± 20%
6. Mount the filter bowl:
 - Align lock release of filter bowl with the cutout on the housing and insert it.
 - Turn filter bowl clockwise until the lock audibly locks at the end stop.
7. Pressurise the filter.

7.3 Cleaning filter

- Clean the outside of the product with a soft cloth as required.
 - Permissible cleaning agents:
 - Soap solution, maximum +60 °C
 - Petroleum ether, free of aromatic compounds

8 Fault clearance

Malfunction	Cause	Remedy
A low flow rate at the pneumatic outlet.	A constriction in the supply line.	– Check the line.
	The filter cartridge is dirty.	– Replace the filter cartridge.
Leakage at the drain plug.	The drain screw is leaking.	– Replace the filter or the filter bowl.

Tab. 1: Fault clearance

9 Technical data

9.1 Technical data, general

MS2-LF-...-B	
Certificates, declaration of conformity	→ www.festo.com/sp
Mounting position	[°] Vertical ± 5
Grade of filtration	[µm] 5
Condensate drain function	Manual rotating
Temperature of medium	[°C] –5 ... +50
Ambient temperature	[°C] –5 ... +50
Storage temperature	[°C] –5 ... +50

Tab. 2: Technical data, general

9.2 Technical data, pneumatic

MS2-LF-...-B		-M5	-QS6
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]	
Air purity class at the output		Compressed air to ISO 8573-1:2010 [6:4:4]	
Information on the operating medium		Operation with ester oil not permitted	
Operating pressure	[MPa]	0.1 ... 1	
	[bar]	1 ... 10	
	[psi]	14.5 ... 145	
Standard nominal flow rate	[l/min]	225	250

Tab. 3: Technical data, pneumatic