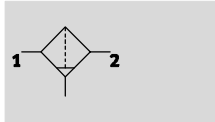


# Filters MS4/MS6-LF, MS series

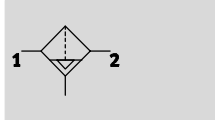
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## Technical data

Function  
Condensate drain  
manual rotary



semi or fully automatic



-  Flow rate  
1,000 ... 4,100 l/min
-  Temperature range  
-10 ... +60 °C
-  Operating pressure  
0 ... 20 bar
-  [www.festo.com](http://www.festo.com)



The sintered filter with centrifugal separation removes contamination, rust and condensate from the compressed air. The filter cartridges are replaceable.

- Good particle and condensate separation
- High flow rate with minimal pressure drop
- Available with manual, semi-automatic, fully automatic or fully automatic, electrically actuated condensate drain
- Optional device variant EX4 for use in potentially explosive areas in zones 1, 2, 21 and 22
- Choice of filter cartridges: 5 µm or 40 µm
- New filter cartridges → 89

General technical data		
Size	MS4	MS6
Pneumatic connection 1, 2		
Female thread	G $\frac{1}{8}$ or G $\frac{1}{4}$	G $\frac{1}{4}$ , G $\frac{3}{8}$ or G $\frac{1}{2}$
Connecting plate AG...	G $\frac{1}{8}$ , G $\frac{1}{4}$ or G $\frac{3}{8}$	G $\frac{1}{4}$ , G $\frac{3}{8}$ , G $\frac{1}{2}$ or G $\frac{3}{4}$
Connecting plate AQ...	NPT $\frac{1}{8}$ , NPT $\frac{1}{4}$ or NPT $\frac{3}{8}$	NPT $\frac{1}{4}$ , NPT $\frac{3}{8}$ , NPT $\frac{1}{2}$ or NPT $\frac{3}{4}$
Design	Sintered filter with centrifugal separation	
Type of mounting	Via accessories	
	In-line installation	
Assembly position	Vertical $\pm 5^\circ$	
Grade of filtration [µm]	5	
	40	
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:8:4] (Grade of filtration 5 µm)	
	Compressed air in accordance with ISO 8573-1:2010 [7:8:4] (Grade of filtration 40 µm)	
Bowl guard	Plastic bowl guard	
	Integrated as metal bowl	
Condensate drain	Manual rotary	
	Semi-automatic	
	Fully automatic	
	-	
	Fully automatic, electrical	
Max. condensate volume [cm <sup>3</sup> ]	19 (with plastic bowl guard)	
	25 (with metal bowl)	
	38	

• Note: This product conforms to ISO 1179-1 and to ISO 228-1

Standard nominal flow rate q <sub>N</sub> <sup>1)</sup> [l/min]						
Size	MS4		MS6			
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	
Grade of filtration 5 µm	1,000	1,300	2,000	3,000	3,200	
Grade of filtration 40 µm	1,100	1,700	2,500	3,800	4,100	

1) Measured at p<sub>1</sub> = 6 bar and Δp = 1 bar

• 125 l/min must be available for the fully automatic condensate drain to close correctly.

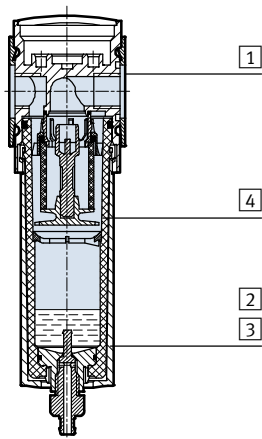
# Filters MS4/MS6-LF, MS series

Technical data

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## Materials

Sectional view



## Filters

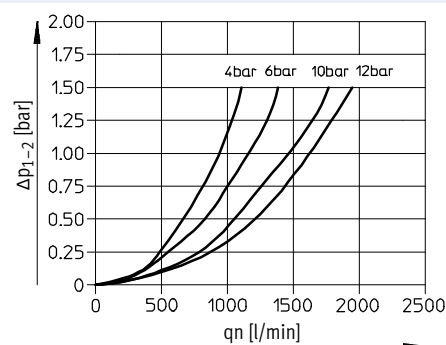
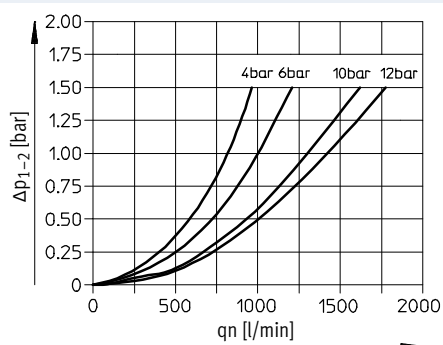
1	Body	Die-cast aluminium
2	Plastic bowl guard	PC
3	Metal bowl	Wrought aluminium alloy, die-cast aluminium
	Viewing window	PA
4	Filter element	PE
-	Seals	NBR
Note on materials		RoHS-compliant Free of copper and PTFE

## Standard flow rate $q_n$ as a function of the differential pressure $\Delta p_{1-2}$

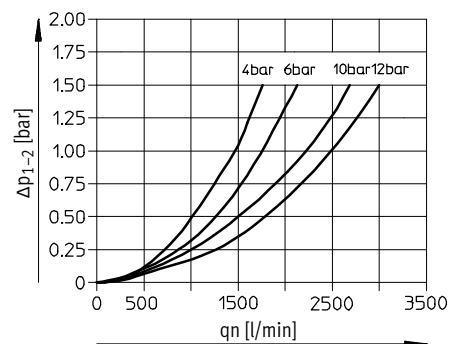
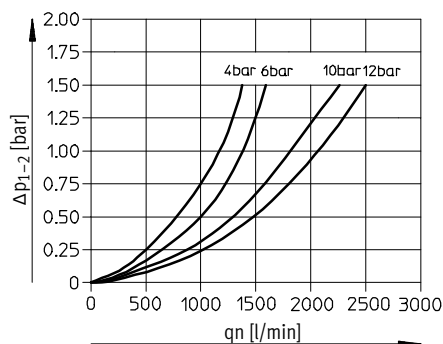
Grade of filtration 5  $\mu\text{m}$

Grade of filtration 40  $\mu\text{m}$

MS4-LF-1/8



MS4-LF-1/4



# Filters MS4/MS6-LF, MS series

Technical data

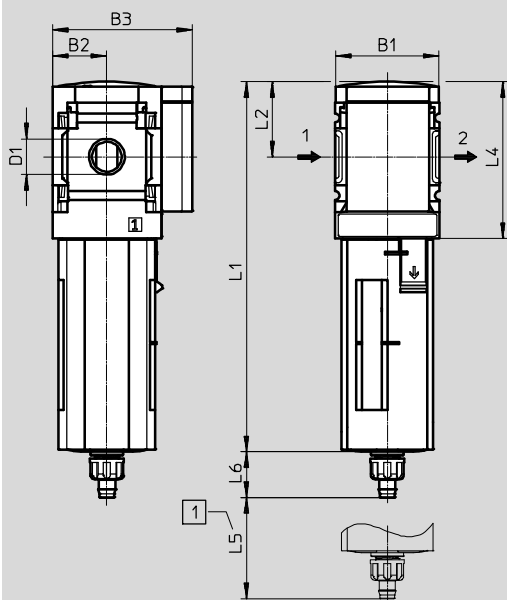
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## Dimensions – Basic version MS4-LF

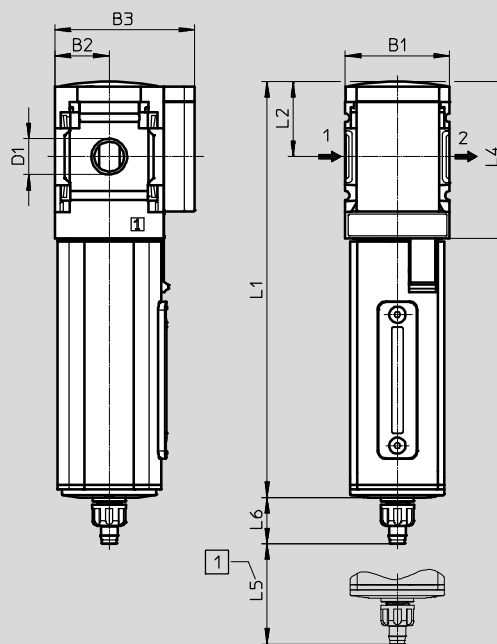
Download CAD data → [www.festo.com](http://www.festo.com)

Manual rotary condensate drain

With plastic bowl guard R



With metal bowl U



1 Installation dimensions

→ Flow direction

Type	B1	B2	B3	D1	L1		L2	L4	L5	L6
					Plastic bowl guard	Metal bowl				
MS4-LF-1/8	40	21	54	G1/8	142.8	159.4	29	60.5	75	17.7
MS4-LF-1/4				G1/4						

· Note: This product conforms to ISO 1179-1 and to ISO 228-1