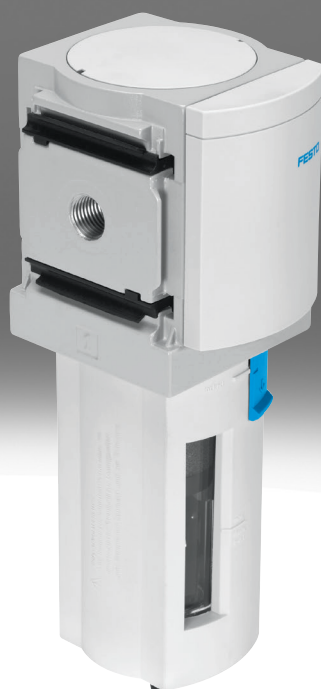


Micro filters MS6N-LFM-A

FESTO



Characteristics

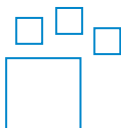
At a glance

High-efficiency filter for exceptionally clean compressed air.

- Removing oil aerosols from compressed air
- Air quality to ISO 8573-1:2010

Ordering data - modular system

Link [ms6n-lfm-a](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

Size

Grid dimension: 62 mm

Standard nominal flow rate:

- 13.4 ... 16.9 scfm

Pneumatic connection

Depending on the size, different connection types can be selected:

- Individual fittings that are fastened via a female thread
- Connecting plates with female thread

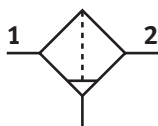
Bowl type

Bowl guard can be selected either as a plastic bowl guard or integrated as a metal bowl guard.

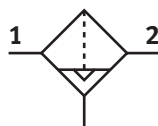
Condensate drain

- Fully automatic condensate drain with independent electric controller

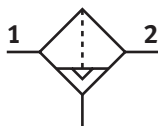
[M] Manually



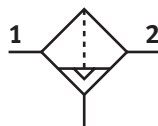
[H] Semi-automatic



[V] Automatic



[VC] Fully automatic, normally closed



The following functions can be selected:

- Manual
- Semi-automatic
- Fully automatic

Filter change sensing

Optionally with differential pressure display for indicating filter contamination or with electronic filter contamination indicator.

Characteristics

Type of mounting

[WB] Mounting centrally at rear (wall mounting top and bottom), connecting plates not required



- For wall mounting an individual device
- For size 4 or 6

[WP] Mounting bracket basic design



- For connecting the modules for wall mounting
- In combination with connecting plate MS6-AQ... for mounting an individual device on a wall
- In combination with mounting plate MS6-AEND for wall mounting of a single device
- Same wall distance for mixing combination with MS4 and MS6 series

[WPM] Mounting bracket for hooking in service unit components



- Mounting attachment and connector for service unit combination
- Mount and dismount the service unit combination quickly
- Spacer for maintaining the mounting gap
- For size 4, 6, or 9

Flow direction

Available with flow in the opposite direction.

Type code

001	Series	
MS	MS series	
002	Size	
6	Grid dimension 62 mm	
003	Thread type	
N	NPT thread	
004	Function	
LFM	Fine and micro filters	
005	Pneumatic connection, inch	
1/4	Female thread NPT 1/4	
3/8	Female thread NPT 3/8	
1/2	Female thread NPT 1/2	
006	Filter design	
A	0.01 µm	

007	Bowl type	
R	Plastic tray with plastic basket	
U	Aluminium	
008	Condensate drain	
M	Manually	
V	Automatic	
009	Filter change sensing	
	None	
DA	Differential pressure display, visual	
010	Type of mounting	
	Without mounting bracket	
011	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data			
Pneumatic connection, port 1	1/4 NPT	3/8 NPT	1/2 NPT
Pneumatic connection, port 2	1/4 NPT	3/8 NPT	1/2 NPT
Size	6		
Design	Fibre filter		
Grade of filtration	0.01 µm		
Type of mounting	Either: In-line installation With accessories		
Mounting position	Vertical +/-5°		
Air purity class at output	Compressed air to ISO 8573-1:2010 [3:-:2]		
Filter efficiency	99.9999%		
Bowl guard	Plastic bowl guard, Integrated as metal bowl		
Condensate drain	Fully automatic, Manual, non-detenting, Manually rotating		
Max. condensate volume	38 cm³		
Differential pressure display	Visual display		
Filter efficiency, fine particles	99.995%		
Filter efficiency, oil aerosol	99%		
MPPS	0.05 µm		
Filter efficiency MPPS	99.95%		

Standard nominal flow rate qnN	
Min. standard flow rate for clean air class	135 l/min
Max. standard flow rate for clean air class ¹⁾	900 l/min

1) High flow rate HF: 2500 l/min

Operating and environmental conditions		
Condensate drain	Fully automatic, Manual, non-detenting	Manually rotating
Operating pressure	2 ... 12 bar	0 ... 20 bar
Operating medium ¹⁾	Compressed air to ISO 8573-1:2010 [6:-:4] Inert gases	
Ambient temperature	-10 ... 60°C	
Media temperature	-10 ... 60°C	
Storage temperature	-10 ... 60°C	
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress	
Suitable for use with food ³⁾	See supplementary material information	

1) 1) It is recommended to prefilter the compressed air for the micro filter MS-LFM-A using a fine filter MS-LFM-B (grade of filtration 1 µm).

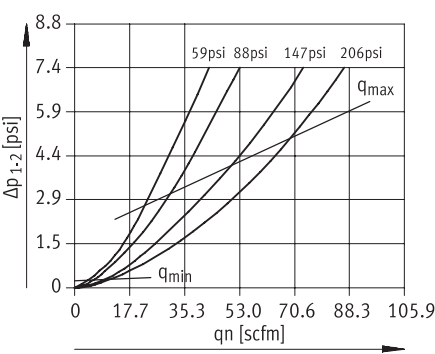
2) More information www.festo.com/x/topic/crc

3) More information www.festo.com/catalogue/ms6n-lfm → Support/Downloads.

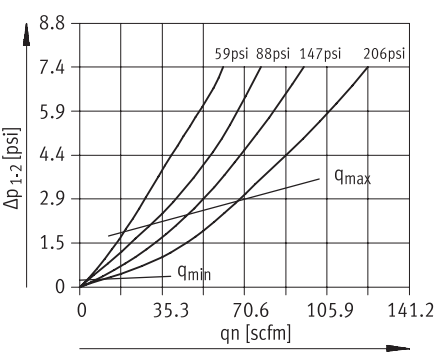
Materials	
Material housing	Die-cast aluminium
Material bowl	Wrought aluminium alloy, PC
Material filter	Borosilicate fibre
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Datasheet

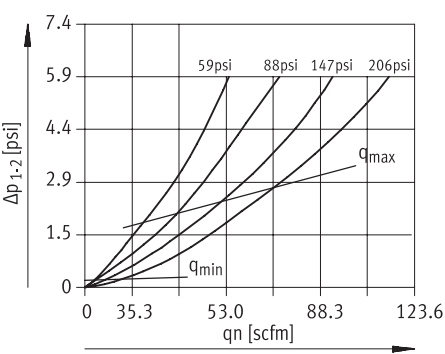
Standard flow rate q_n as a function of differential pressure Δp_{1-2} (MS6N-LFM-1/4)



Standard flow rate q_n as a function of differential pressure Δp_{1-2} (MS6N-LFM-3/8)



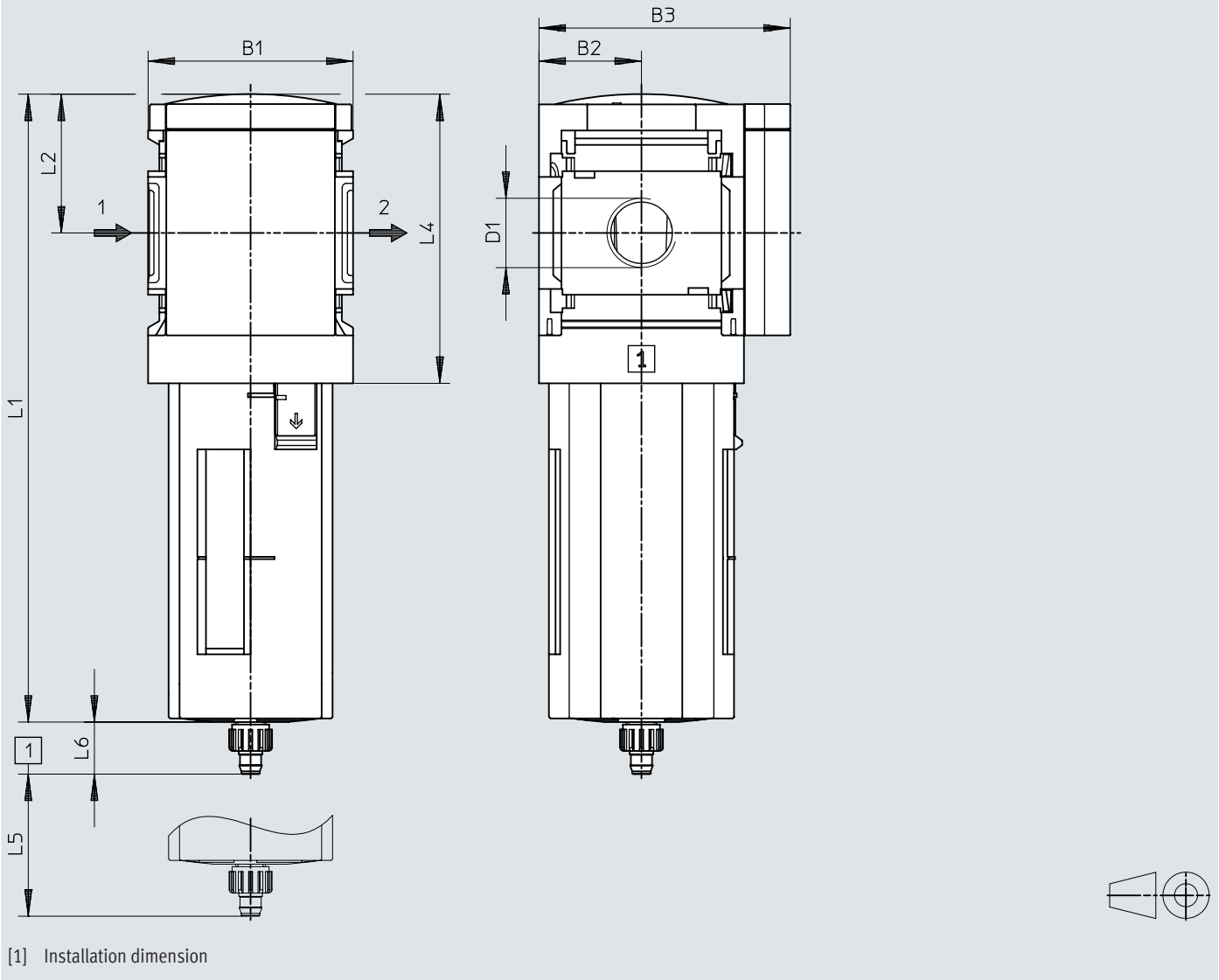
Standard flow rate q_n as a function of differential pressure Δp_{1-2} (MS6N-LFM-1/2)



Dimensions

Dimensions – Condensate drain, manual, rotary, with plastic bowl guard R

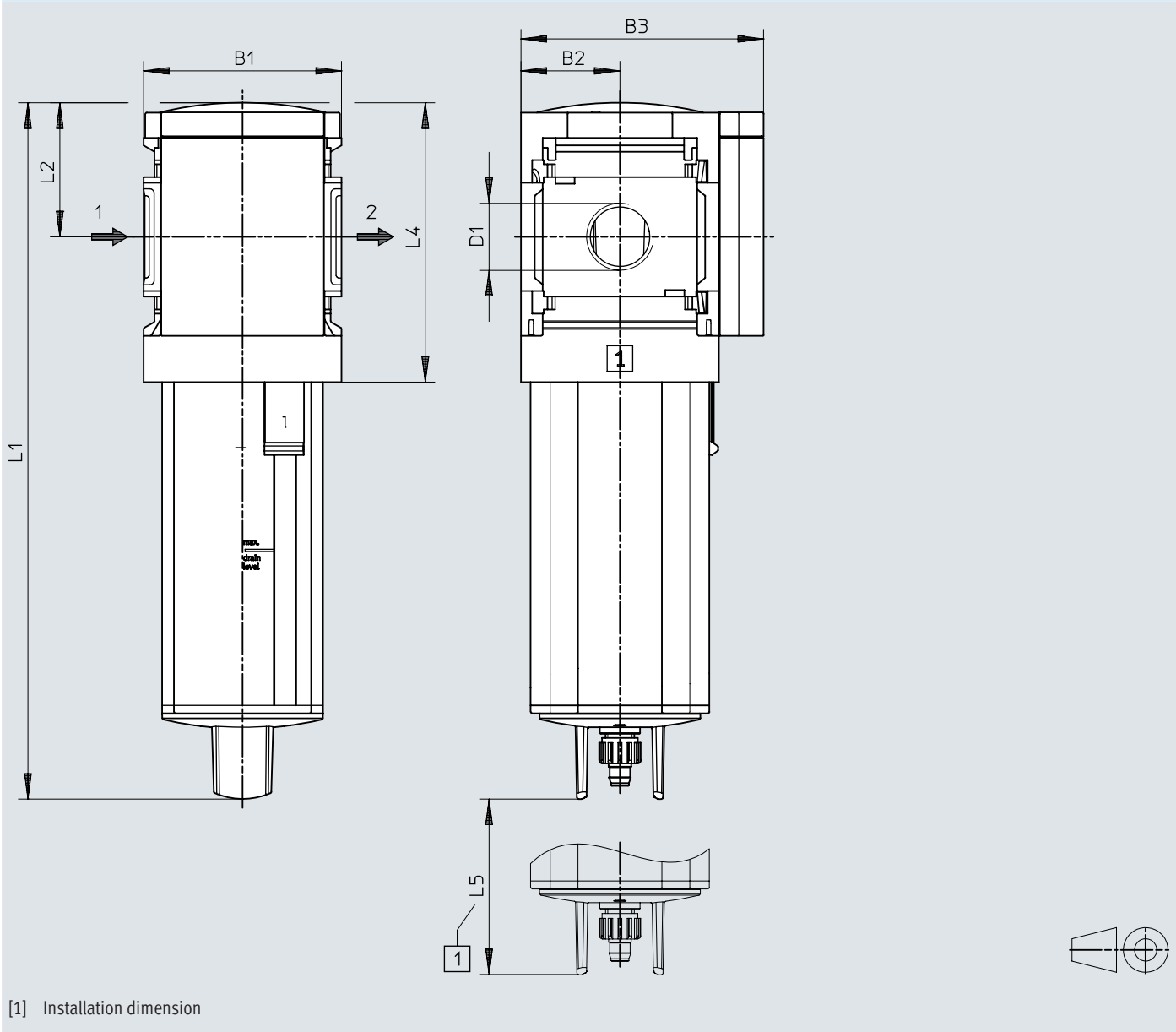
Download CAD data www.festo.com



	B1 [inch]	B2 [inch]	B3 [inch]	D1	L1 [inch]	L2 [inch]	L4 [inch]	L5 [inch]	L5 [inch]
MS6N-LFM-1/4	2,44	1,22	2,99	1/4 NPT	7,44	1,65	3,43	3,15	0,62
MS6N-LFM-3/8				3/8 NPT					
MS6N-LFM-1/2				1/2 NPT					

Dimensions

Dimensions – Condensate drain, manual, rotary, with metal bowl U Download CAD data www.festo.com

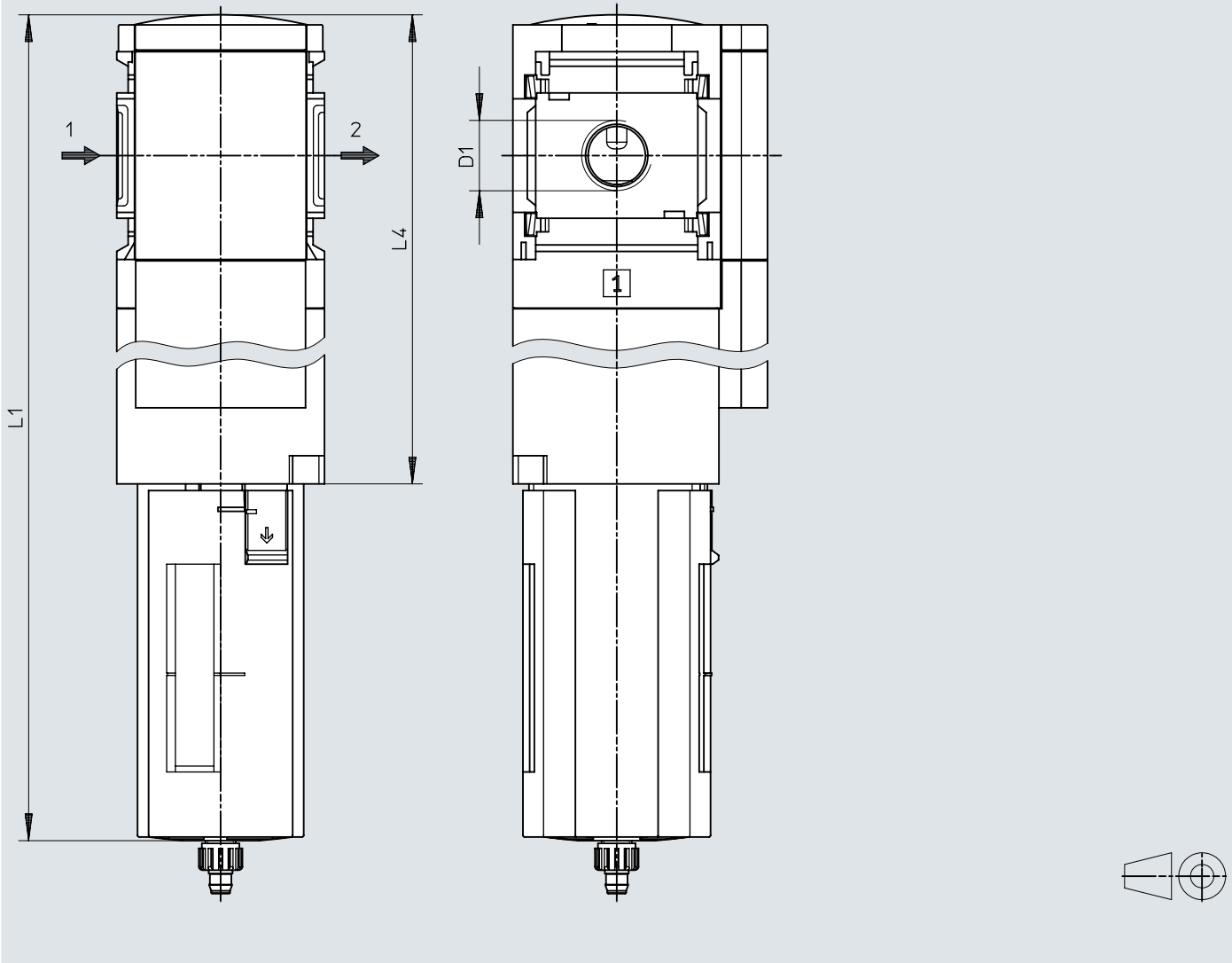


	B1 [inch]	B2 [inch]	B3 [inch]	D1	L1 [inch]	L2 [inch]	L4 [inch]	L5 [inch]
MS6N-LFM-1/4	2,44	1,22	2,99	1/4 NPT	7,80	1,65	3,43	3,15
MS6N-LFM-3/8				3/8 NPT				
MS6N-LFM-1/2				1/2 NPT				

Dimensions

Dimensions – High flow rate HF, with plastic bowl guard R

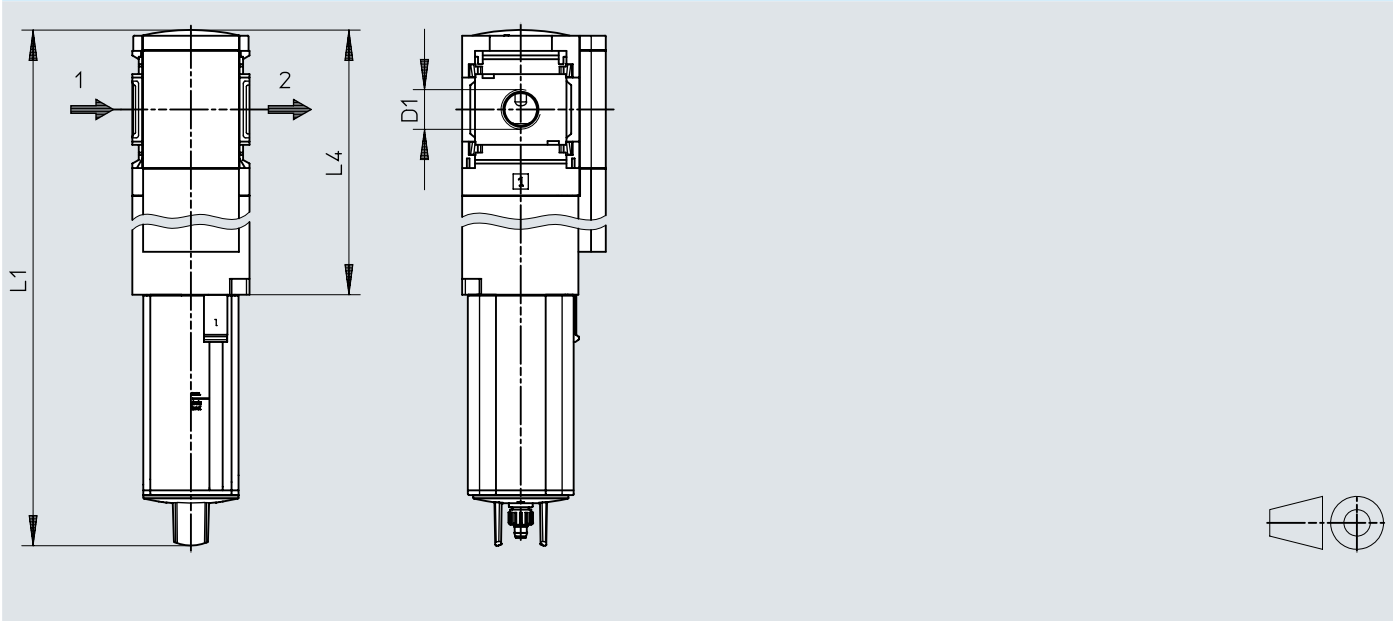
Download CAD data www.festo.com



	D1	L1 [inch]	L4 [inch]
MS6N-LFM-1/4-...-HF	1/4 NPT	12,32	8,15
MS6N-LFM-3/8-...-HF	3/8 NPT		
MS6N-LFM-1/2-...-HF	1/2 NPT		

Dimensions

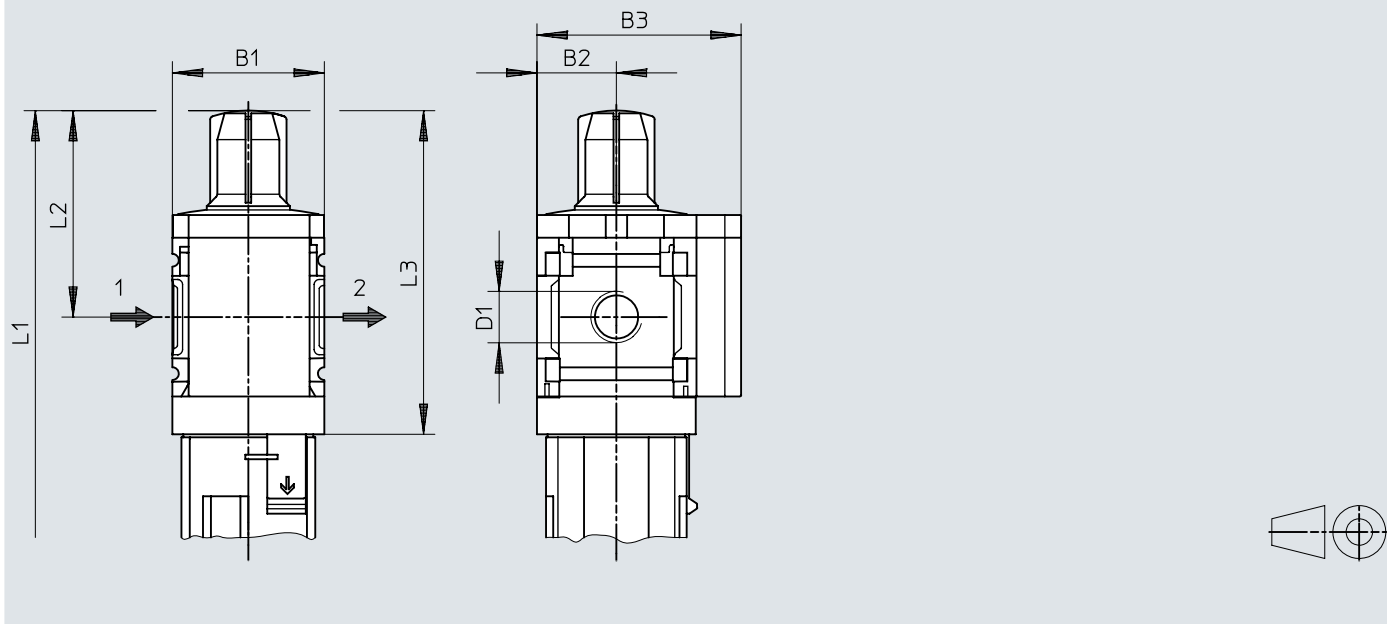
Dimensions – High flow rate HF, with metal bowl U Download CAD data www.festo.com



	D1	L1 [inch]	L4 [inch]
MS6N-LFM-1/4-...-HF	1/4 NPT	13,39	8,15
MS6N-LFM-3/8-...-HF	3/8 NPT		
MS6N-LFM-1/2-...-HF	1/2 NPT		

Dimensions

Dimensions – Differential pressure display DA

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


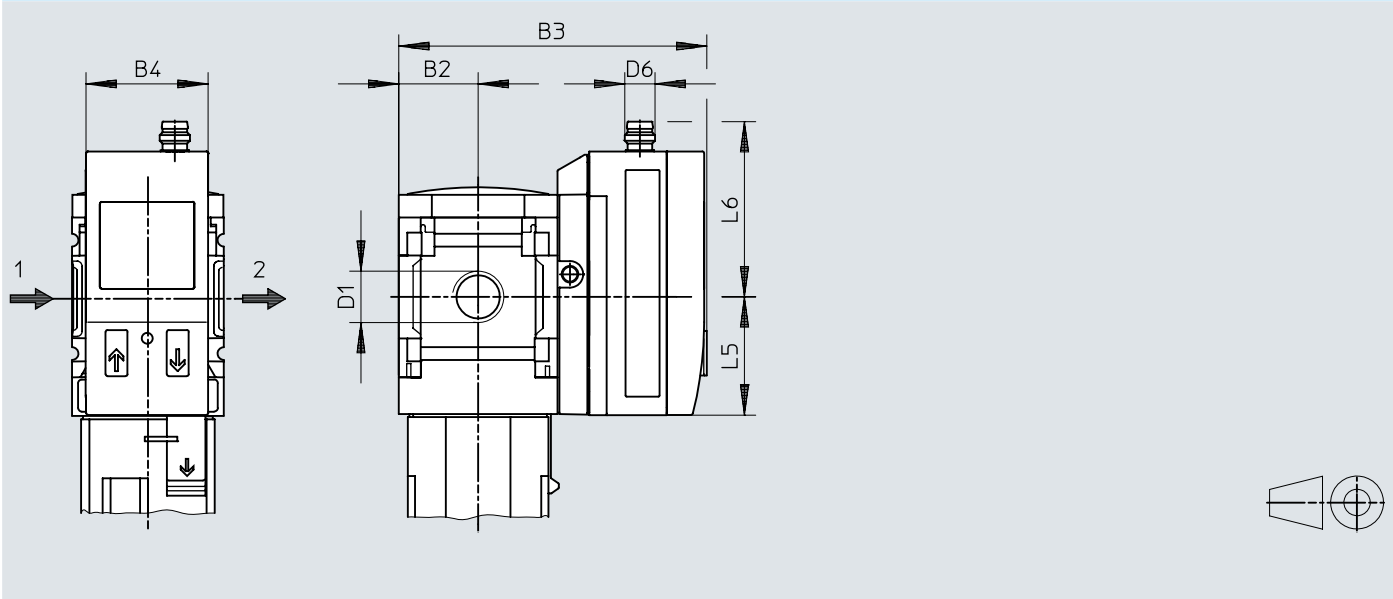
	B1 [inch]	B2 [inch]	B3 [inch]	D1	L1 [inch]		L2 [inch]	L3 [inch]
					1)	2)		
MS6N-LFM-1/4-...-DA	2,44	1,22	2,99	1/4 NPT	9,02	10,12	2,68	4,45
MS6N-LFM-3/8-...-DA				3/8 NPT				
MS6N-LFM-1/2-...-DA				1/2 NPT				
MS6N-LFM-1/4-...-HF-DA	2,44	1,22	2,99	1/4 NPT	13,74	14,80	2,68	4,45
MS6N-LFM-3/8-...-HF-DA				3/8 NPT				
MS6N-LFM-1/2-...-HF-DA				1/2 NPT				

1) Bowl guard, polymer

2) Bowl guard, metal

Dimensions

Dimensions – Filter contamination indicator DP, DN, DPI, DNI Download CAD data www.festo.com



	B2 [inch]	B3 [inch]	B4 [inch]	D1	D6	L5 [inch]	L6 [inch]
MS6N-LFM-1/4-...-DP/DN	1,22	4,06	1,27	1/4 NPT	M8x1	1,38	1,84
MS6N-LFM-3/8-...-DP/DN				3/8 NPT			
MS6N-LFM-1/2-...-DP/DN				1/2 NPT			
MS6N-LFM-1/4-...-DPI/DNI	1,22	4,06	1,27	1/4 NPT	M12x1	1,38	2,20
MS6N-LFM-3/8-...-DPI/DNI				3/8 NPT			
MS6N-LFM-1/2-...-DPI/DNI				1/2 NPT			

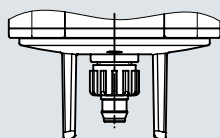
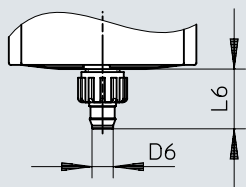
Dimensions

Dimensions – Condensate drain, manual, rotary

[Download CAD data](#) www.festo.com

MS6 – . . . -R-M

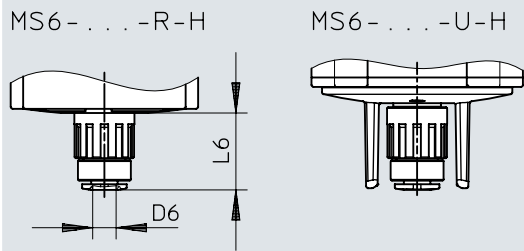
MS6 – . . . -U-M



	D6 Ø [inch]	L6 [inch]
MS6N-LFM-...-R-M	0,197	0,62
MS6N-LFM-...-U-M	0,197	0,75

Dimensions

Dimensions – Condensate drain, semi-automatic Download CAD data www.festo.com



	D6 Ø [inch]	L6 [inch]
MS6N-LFM-...-R-H	0,236	0,80
MS6N-LFM-...-U-H	0,236	0,90

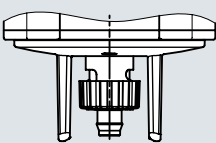
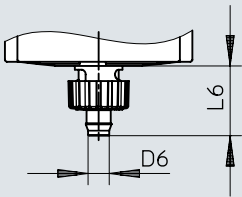
Dimensions

Dimensions – Condensate drain, fully automatic

Download CAD data www.festo.com

MS6-...-R-V

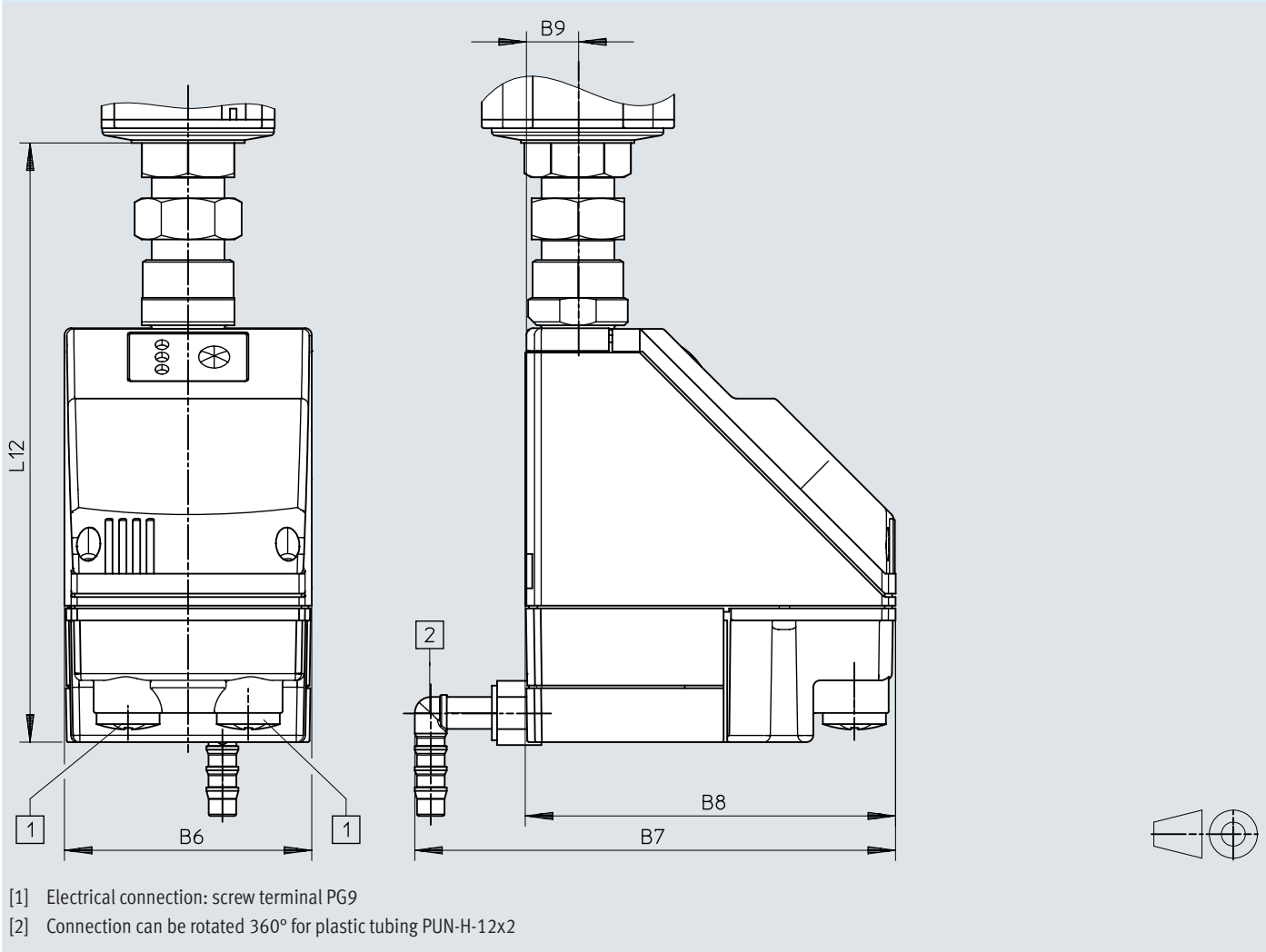
MS6-...-U-V



	D6 Ø [inch]	L6 [inch]
MS6N-LFM-...-R-V	0,197	0,73
MS6N-LFM-...-U-V	0,197	0,87

Dimensions

Dimensions – Condensate drain fully automatic, electrically controlled Download CAD data www.festo.com

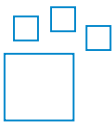


	B6 [inch]	B7 [inch]	B8 [inch]	B9 [inch]	L12 [inch]
MS6N-LF-...-E2, E3, E4	2,835	5,512	4,252	0,591	6,868

Ordering data

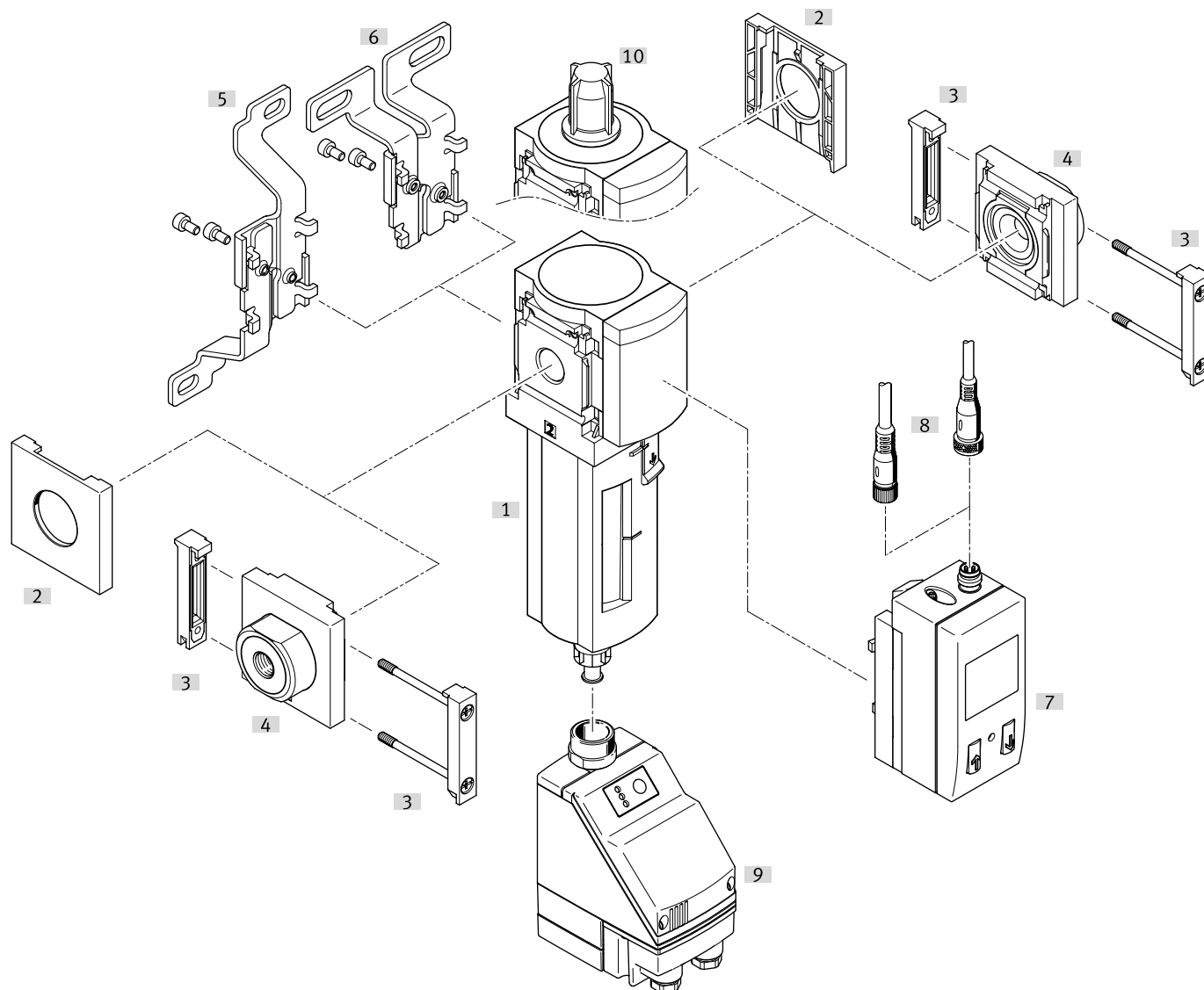
Ordering data							
	Pneumatic connection, port 1	Grade of filtration	Condensate drain	Product weight	Part no.	Type	
	1/4 NPT	0.01 µm	Fully automatic, Manual, non-de-tenting	600 g	531866	MS6N-LFM-1/4-ARV	
					536893	MS6N-LFM-1/4-ARV-DA	
				820 g	536899	MS6N-LFM-1/4-AUV-DA	
					531878	MS6N-LFM-1/4-AUV	
			Manually rotating	600 g	531860	MS6N-LFM-1/4-ARM	
					536887	MS6N-LFM-1/4-ARM-DA	
				3/8 NPT	Fully automatic, Manual, non-de-tenting	531868	MS6N-LFM-3/8-ARV
						536894	MS6N-LFM-3/8-ARV-DA
	820 g		536900			MS6N-LFM-3/8-AUV-DA	
			531880			MS6N-LFM-3/8-AUV	
	1/2 NPT		Manually rotating	600 g	531862	MS6N-LFM-3/8-ARM	
					536888	MS6N-LFM-3/8-ARM-DA	
				Fully automatic, Manual, non-de-tenting	536895	MS6N-LFM-1/2-ARV-DA	
						536898	MS6N-LFM-1/2-ARV-DA-Z
			531867		MS6N-LFM-1/2-ARV		
					820 g	536901	MS6N-LFM-1/2-AUV-DA
			531879	MS6N-LFM-1/2-AUV			
			Manually rotating	600 g		536889	MS6N-LFM-1/2-ARM-DA
					531861	MS6N-LFM-1/2-ARM	

Ordering data – Modular product system

	Short type code	Part no.	Type
	MS6N-LFM	527671	MS6N-LFM

Peripherals

Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Fine filter M6N-LFM-A		ms6n-lfm-a
[2] Cover cap MS6-END	For devices without connecting plate	20
[3] Module connector MS6-MV1	For device combinations and individual devices with connecting plate	19
[4] Connecting plate SET MS6-AQ..	Order code [AQ...]; for device combinations	20
[5] Mounting bracket MS6-WB	For individual device	19
[6] Mounting bracket MS...-WBM	Only available for size 4	-
[7] Filter contamination indicator DP/DN/DPI/DNI	Order code [DP], [DN], [DPI], [DNI]	ms6n-lfm-a
[8] Connecting cable NEBA-M8...-LE3, NEBA-M12...-LE4		20
[9] Condensate drains PWEA	Order code [E2], [E3], [E4]	pwea
[10] Differential pressure display DA	Order code [DA]	ms6n-lfm-a
[11] Micro-filter cartridge	Not shown	19

Accessories

Micro-filter cartridges							
	Size	Grade of filtration	Material filter	Corrosion resistance class CRC ¹⁾	Note on materials ²⁾	Part no.	Type
	6	0.01 µm	Borosilicate fibre	2 - Moderate corrosion stress	RoHS-compliant	532909	MS6-LFM-A
						552093	MS6-LFM-A-HF
						547922	MS6-LFM-AI

1) More information www.festo.com/x/topic/crc

2) MS...-HF: High flow rate; MS...-AI: Application area HP, suitable for sealing air and purge air

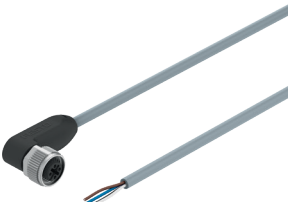
Module connector MS6-MV1						
	Size	Material module connector	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	POM, High-alloy stainless steel	VDMA24364-B1/B2-L	33 g	8119204	MS6-MV1

Mounting bracket MS6-WP...						
	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	Die-cast aluminium	VDMA24364-B1/B2-L		1025936	MS6-WPE
				76 g	532195	MS6-WP
					541544	MS6-WP-EX
				115 g	526074	MS6-WPB
					541542	MS6-WPB-EX
				144 g	526073	MS6-WPM-D
				154 g	532186	MS6-WPM-2D

Mounting bracket MS6-WB						
	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	Steel	VDMA24364-B1/B2-L	121 g	532196	MS6-WB

Accessories

Connecting cables NEBA, straight						
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	4	2.5 m	8078239	NEBA-M12G5-U-2.5-N-LE4
				5 m	8078240	NEBA-M12G5-U-5-N-LE4
	M8x1, A-coded, to EN 61076-2-104		3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3

Connecting cables NEBA, angled						
	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/ cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	4	2.5 m	8078248	NEBA-M12W5-U-2.5-N-LE4
				5 m	8078249	NEBA-M12W5-U-5-N-LE4
	M8x1, A-coded, to EN 61076-2-104		3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Connecting plate SET MS6-AQ...				
	Size	Pneumatic connection, port 1	Part no.	Type
	6	1/4 NPT	526076	MS6N-AQN
		3/8 NPT	526077	MS6N-AQP
		1/2 NPT	526078	MS6N-AQR
		3/4 NPT	526079	MS6N-AQS

Cover cap MS6-END			
	Size	Part no.	Type
	6	538780	MS6-END