

Active carbon filter MS6N-LFX

FESTO



Characteristics

At a glance

- Removes liquid and gaseous oil particles from compressed air using activated carbon
- Eliminates odors and vapors
- Available with filter cartridge for low flow rates, suitable for sealing air and purge air applications
- Prefiltration with micro filter MS-LFM-A (grade of filtration 0.01 µm) is recommended
- Air quality class at the output [1.4.1] to ISO 8573-1

Ordering data - modular system

[Link](#) [ms6n-lfx](#)

Configurable product

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

Size

Width dimension: 62 mm

Standard nominal flow rate:

- 24.7 ... 42.4 scfm

Pneumatic connection

The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

Bowl type

Shell guard selectable either as plastic bowl guard or integrated as metal shell.

Type of mounting

[WP]

Mounting bracket standard design



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

[WB]

Mounting centrally at rear (wall mounting top and bottom), sub-bases not required



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

[WPM]

Mounting bracket for hooking in air preparation units



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

Type code

001	Series	
MS	MS series	
002	Size	
6	Width dimension 62 mm	
003	Thread type	
N	NPT thread	
004	Function	
LFX	Active carbon filter	
005	Pneumatic connection	
N14	1/4 NPT	
N12	1/2 NPT	
N38	3/8 NPT	
N34	3/4 NPT	
006	Bowl type	
R	Plastic bowl with plastic bowl guard	
U	Aluminum	

007	Flow rate	
	Standard	
HF	High flow rate	
008	Range of application	
	Without	
HP	Suitable for sealing air and purge air	
009	Type of mounting	
	Without mounting bracket	
WB	Mounting centrally at rear (wall mounting top and bottom), sub-bases not required	
WP	Mounting bracket standard design	
WPM	Mounting bracket for hooking in air preparation units	
010	UL certification	
	None	
UL1	cULus ordinary location for Canada and USA	
011	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data

Pneumatic connection 1	G3/8	G1/2
Pneumatic connection 2	G3/8	G1/2
Size	6	
Structural design	Activated carbon filter	
Type of mounting	Alternatively: In-line installation With accessories	
Mounting position	Vertical $\pm 5^\circ$	
Air quality class at the output	Compressed air according to ISO 8573-1:2010 [3:4:1]	
Bowl guard	Plastic bowl guard, Integrated as metal bowl	
Residual oil content	0.003 mg/m ³	

Standard nominal flow rate q_{nN}

Pneumatic connection 1	G3/8	G1/2
Max. standard flow rate for air quality class	900 l/min	

Operating and environmental conditions

Operating pressure	0 ... 20 bar	
Operating medium	Compressed air according to ISO 8573-1:2010 [3:4:2]	
Ambient temperature	-10 ... 60°C	
Temperature of medium	5 ... 30°C	
Storage temperature	-10 ... 60°C	
Corrosion resistance class (CRC) ¹⁾	2 - Moderate corrosion stress	
For use in the food industry ²⁾	See supplementary material information	
Certification ³⁾	c UL us - recognized (OL)	
UL certification	None, cULus ordinary location for Canada and USA	

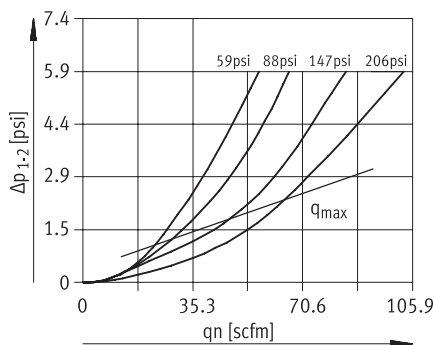
1) For more information, visit www.festo.com/x/topic/kbk

2) More information: www.festo.com/catalogue/ms6n-lr → Support/Downloads.

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

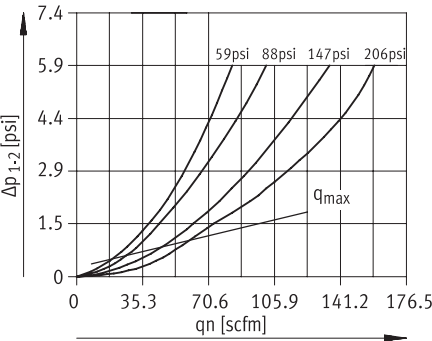
Materials

Bowl type	Plastic bowl with plastic bowl guard [R]	Aluminum [U]
Housing material	Die-cast aluminum	
Material of bowl	PC	Wrought aluminum alloy
Compressed air filter material	Activated carbon	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

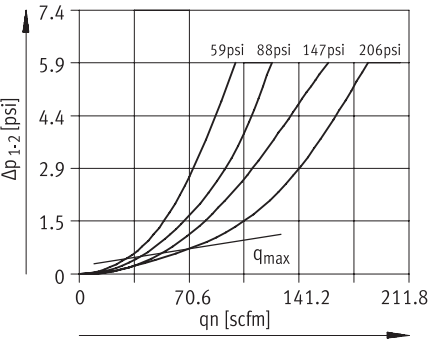
Normal flow rate q_n as a function of the differential pressure Δp_{1-2} (M6N-LFM-1/4)

Datasheet

Normal flow rate q_n as a function of the differential pressure Δp_{1-2} (M6N-LFM-3/8)

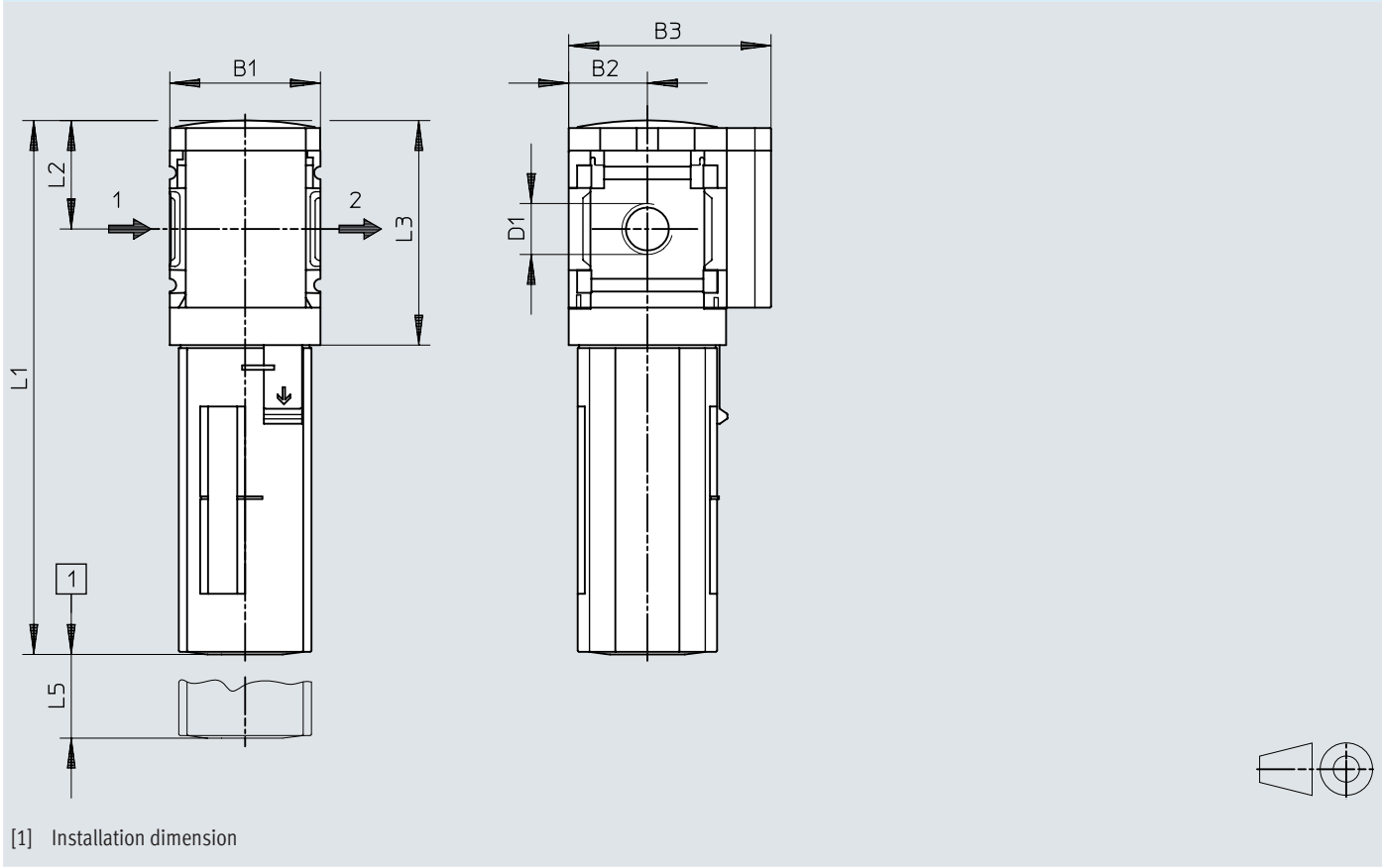


Normal flow rate q_n as a function of the differential pressure Δp_{1-2} (M6N-LFM-1/2)



Dimensions

Dimensions – Standard/application range HP Download CAD data www.festo.com

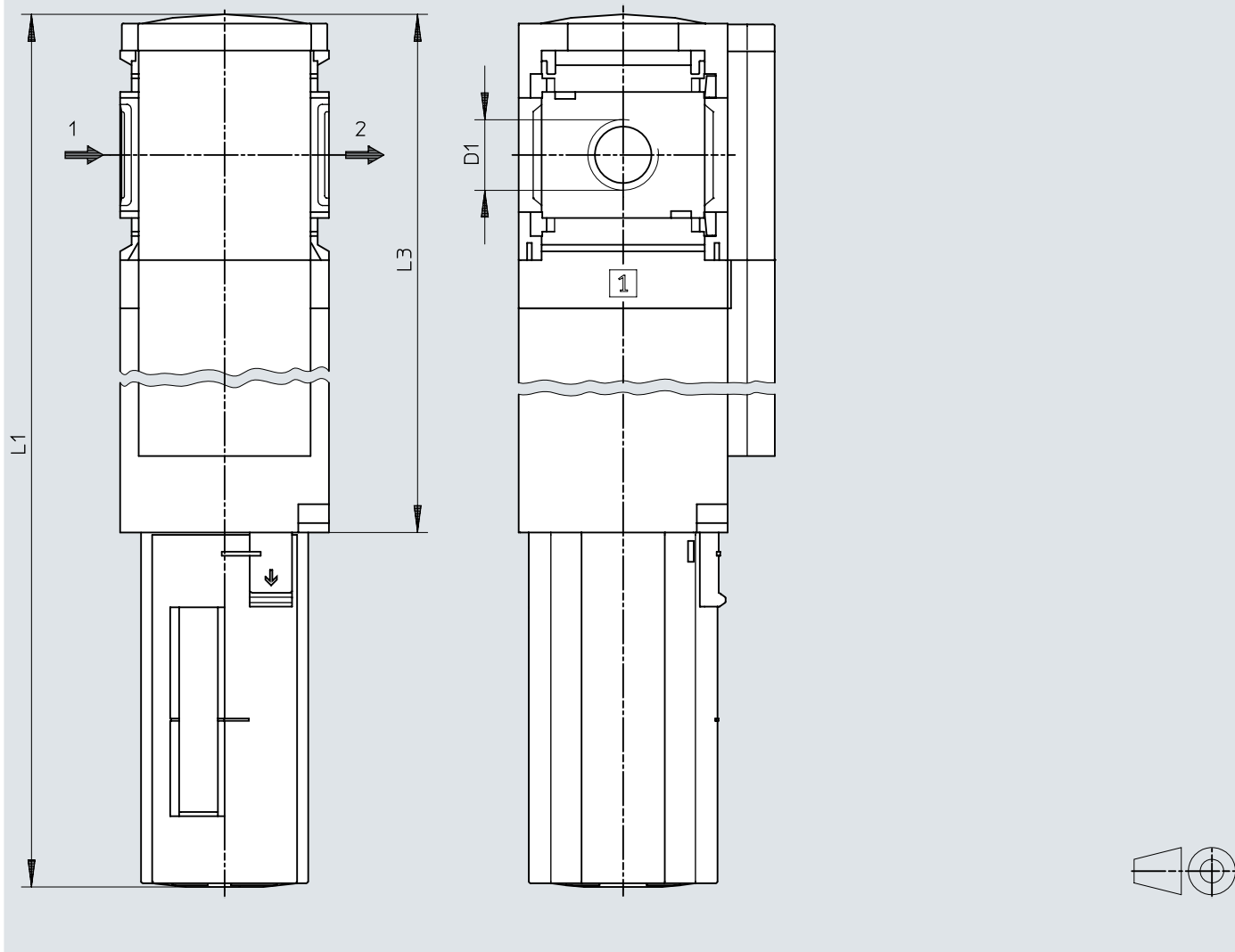


	B1	B2	B3	D1	L1		L2	L3	L5
	[inch]	[inch]	[inch]		1) [inch]	2) [inch]	[inch]	[inch]	[inch]
MS6N-LFX-1/4	2,44	1,22	2,99	1/4 NPT	7,56	7,80	1,65	3,43	3,94
MS6N-LFX-3/8				3/8 NPT					
MS6N-LFX-1/2				1/2 NPT					

1) Bowl guard, polymer
2) Bowl guard, metal

Dimensions

Dimensions – High flow rate HF

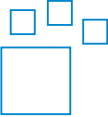
[Download CAD data](#) www.festo.com


	B1	B2	B3	D1	L1		L2	L3	L5
	[inch]	[inch]	[inch]		1) [inch]	2) [inch]	[inch]	[inch]	[inch]
MS6N-LFX-1/4-...-HF	2,44	1,22	2,99	1/4 NPT	12,28	12,52	1,65	8,15	3,94
MS6N-LFX-3/8-...-HF				3/8 NPT					
MS6N-LFX-1/2-...-HF				1/2 NPT					

- 1) Bowl guard, polymer
2) Bowl guard, metal

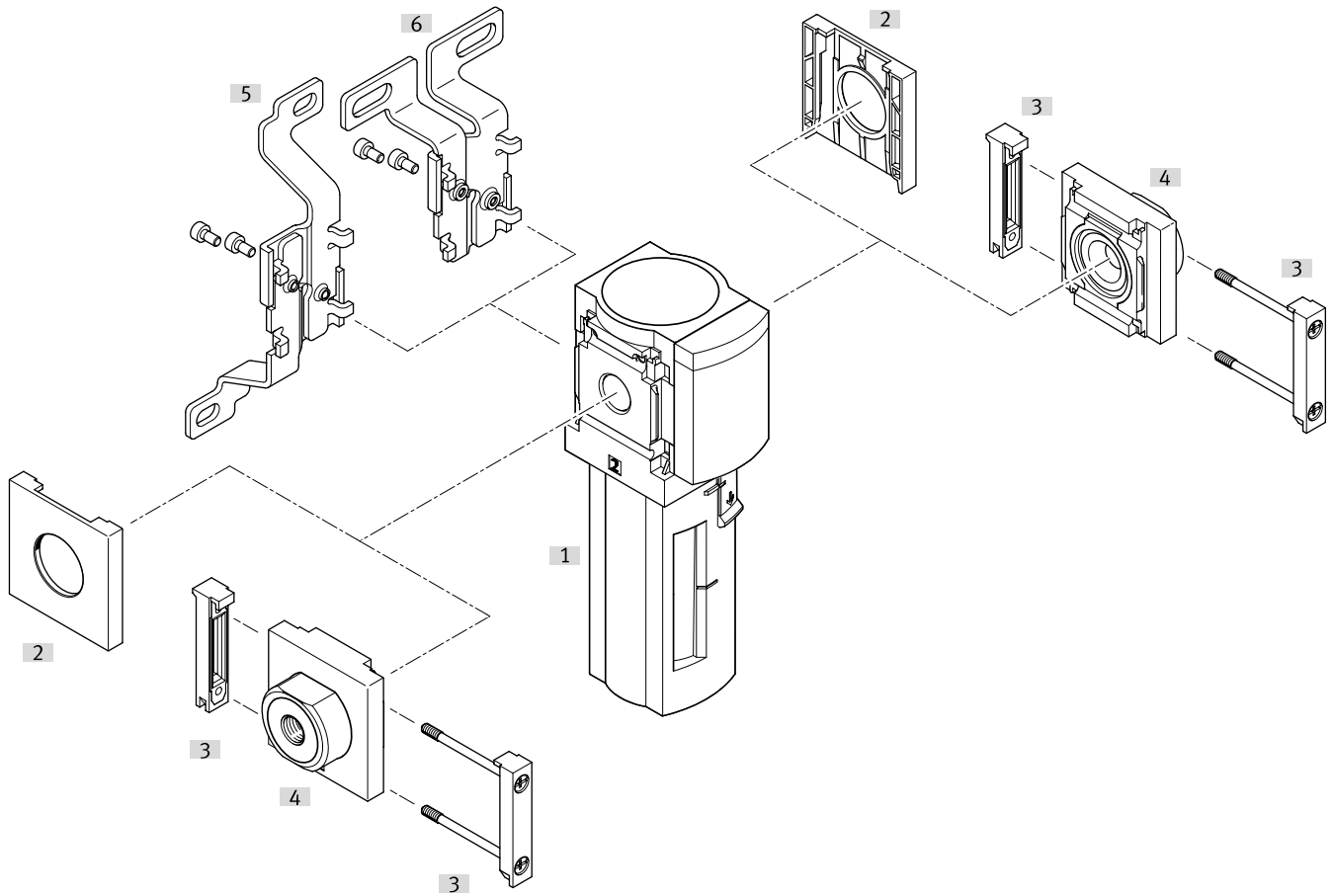
Ordering data

Ordering data				
	Pneumatic connection 1	Product weight	Part no.	Type
	G3/8	600 g	531922	MS6N-LFX-3/8-R
		820 g	531928	MS6N-LFX-3/8-U
	G1/2	600 g	531921	MS6N-LFX-1/2-R
		820 g	531927	MS6N-LFX-1/2-U

Ordering data– Modular product system			
	Type code	Part no.	Type
	MS6N-LFX	527673	MS6N-LFX

Peripherals overview

Peripherals overview

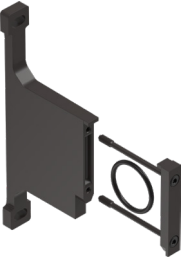


Accessories			→ Page/Internet
Type/order code	Description		
[1] Activated carbon filter MS6N-LFX	Illustration based on MS4N-LF as an example		ms6n-lfx
[2] Cover cap MS6-END	For devices without sub-base		11
[3] Module connector MS6-MV1	For device combinations and individual devices with sub-base		10
[4] Sub-base-SET MS6-AQ...	Order code [AG...]; for device combinations		11
[5] Mounting bracket MS6-WB	for single device		10
[6] Mounting bracket MS...WBM	Only available for size 4		-
[7] Mounting bracket MS6-WP/WPB/WPE/WPM	Not shown		ms6-wp
[8] Active carbon filter cartridge	Not shown		10

Accessories

Active carbon filter cartridge					
	Compressed air filter material	LABS (PWIS) conformity	Part no.	Type	
	Activated carbon	VDMA24364-B1/B2-L	532911	MS6-LFX	
			547925	MS6-LFX-AKI	
			552094	MS6-LFX-HF	

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

Mounting bracket MS6-WP...					
	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminum	VDMA24364-B1/B2-L		1025936	MS6-WPE
			76 g	532195	MS6-WP
			115 g	526074	MS6-WPB
			144 g	526073	MS6-WPM-D
			154 g	532186	MS6-WPM-2D

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

Accessories

Sub-base-SET MS6-AQ...						
	Pneumatic connection 1	Material of sub-base	LABS (PWIS) conformity	Product weight	Part no.	Type
	1/4 NPT	Die-cast aluminum	VDMA24364-B1/B2-L	300 g	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				
	Housing material	LABS (PWIS) conformity	Part no.	Type
	PA-reinforced	VDMA24364-B1/B2-L	538780	MS6-END