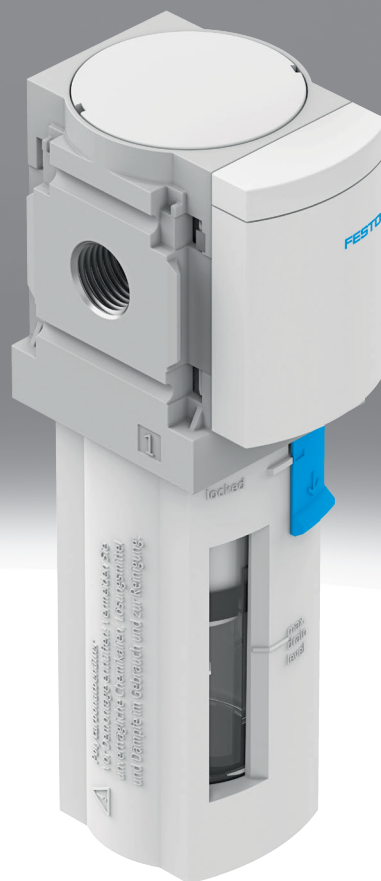


Activated carbon filter MS4N-LFX

FESTO



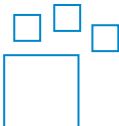
Characteristics

At a glance

- Removes liquid and gaseous oil particles from compressed air using activated carbon
- Elimination of odours and vapours
- 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 purity class at the output [1.4.1] acc. to ISO 8573-1

Ordering data - modular system

Link [ms4n-lfx](#)



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

Size

- Grid dimension: 40 mm
Standard nominal flow rate:
- 8.8 scfm

Pneumatic connection

By installing connecting plates it is easier to replace the module if necessary (e.g. when using piping).

Bowl type

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

Type of mounting

[WP] Mounting bracket basic design



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

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



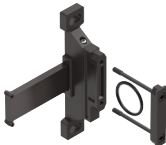
- For wall mounting an individual device
- For size 4 or 6

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



- For wall mounting an individual device
- For size 4

[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

Characteristics

Flow direction

Available with flow in the opposite direction.

Type code

001	Series	
MS	MS series	
002	Size	
4	Grid dimension 40 mm	
003	Thread type	
N	NPT thread	
004	Function	
LFX	Activated carbon filter	
005	Pneumatic connection	
AQK	Sub-base NPT1/8	
AQN	Sub-base NPT1/4	
AQP	Sub-base NPT3/8	
N18	1/8 NPT	
N14	1/4 NPT	

006	Bowl type	
R	Plastic tray with plastic basket	
U	Aluminium	
007	Type of mounting	
	Without mounting bracket	
WB	Mounting centrally at rear (wall mounting top and bottom), connecting plates not required	
WBM	Mounting centrally at rear (wall mounting top), connecting plates not required	
WP	Mounting bracket basic design	
WPM	Mounting bracket for hooking in service unit components	
008	UL certification	
	None	
UL1	cULus ordinary location for Canada and USA	
009	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data

Pneumatic connection, port 1	1/8 NPT	1/4 NPT
Pneumatic connection, port 2	1/8 NPT	1/4 NPT
Size	4	
Design	Activated carbon filter	
Type of mounting	Either: Inline installation With accessories	
Mounting position	Vertical +/-5°	
Air purity class at output	Compressed air according to ISO 8573-1:2010 [3:4:1]	
Bowl guard	Plastic bowl guard	Plastic bowl guard, Integrated as metal bowl
Residual oil content	0.003 mg/m³	

Standard nominal flow rate qnN

Pneumatic connection, port 1	1/8 NPT	1/4 NPT
Max. standard flow rate for clean air class	360 l/min	

Operating and environmental conditions

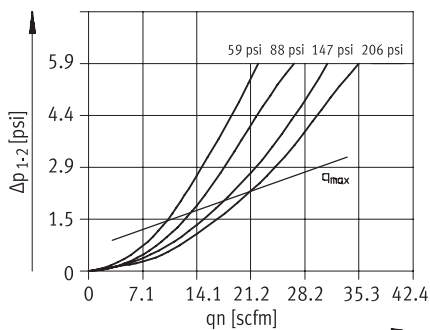
Operating pressure	0 ... 14 bar	
Operating medium	Compressed air according to ISO 8573-1:2010 [3:4:2]	
Ambient temperature	-10 ... 60°C	
Media temperature	5 ... 30°C	
Storage temperature	-10 ... 60°C	
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	
UL certification	None, cULus ordinary location for Canada and USA	

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

Materials

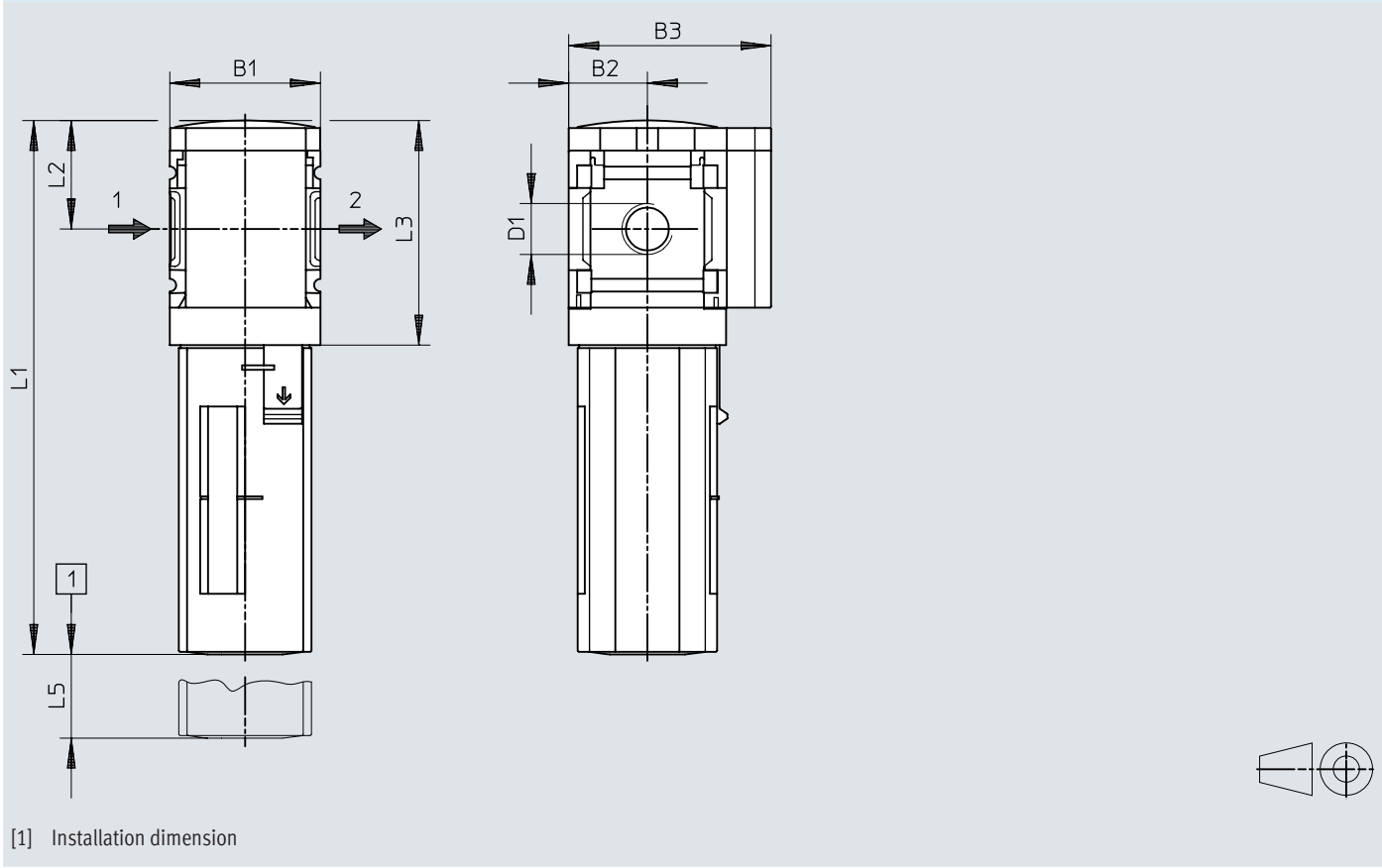
Bowl type	Plastic tray with plastic basket [R]	Aluminium [U]
Material housing	Die-cast aluminium	
Material bowl	Makrolon®	Die-cast aluminium, Wrought aluminium alloy
Material screen	—	Process automation
Material filter	Activated carbon	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

Standard flow rate qn as a function of differential pressure Δp_{1-2} (MS4N-LFX-1/8; MS4N-LFX-1/4)



Dimensions

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

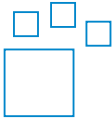


	B1	B2	B3	D1	L1		L2	L3	L5
	[inch]	[inch]	[inch]		1) [inch]	2) [inch]	[inch]	[inch]	[inch]
MS4N-LFX-1/8	1,58	0,83	2,13	1/8 NPT	5,62	6,31	1,14	2,38	3,15
MS4N-LFX-1/4				1/4 NPT					

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

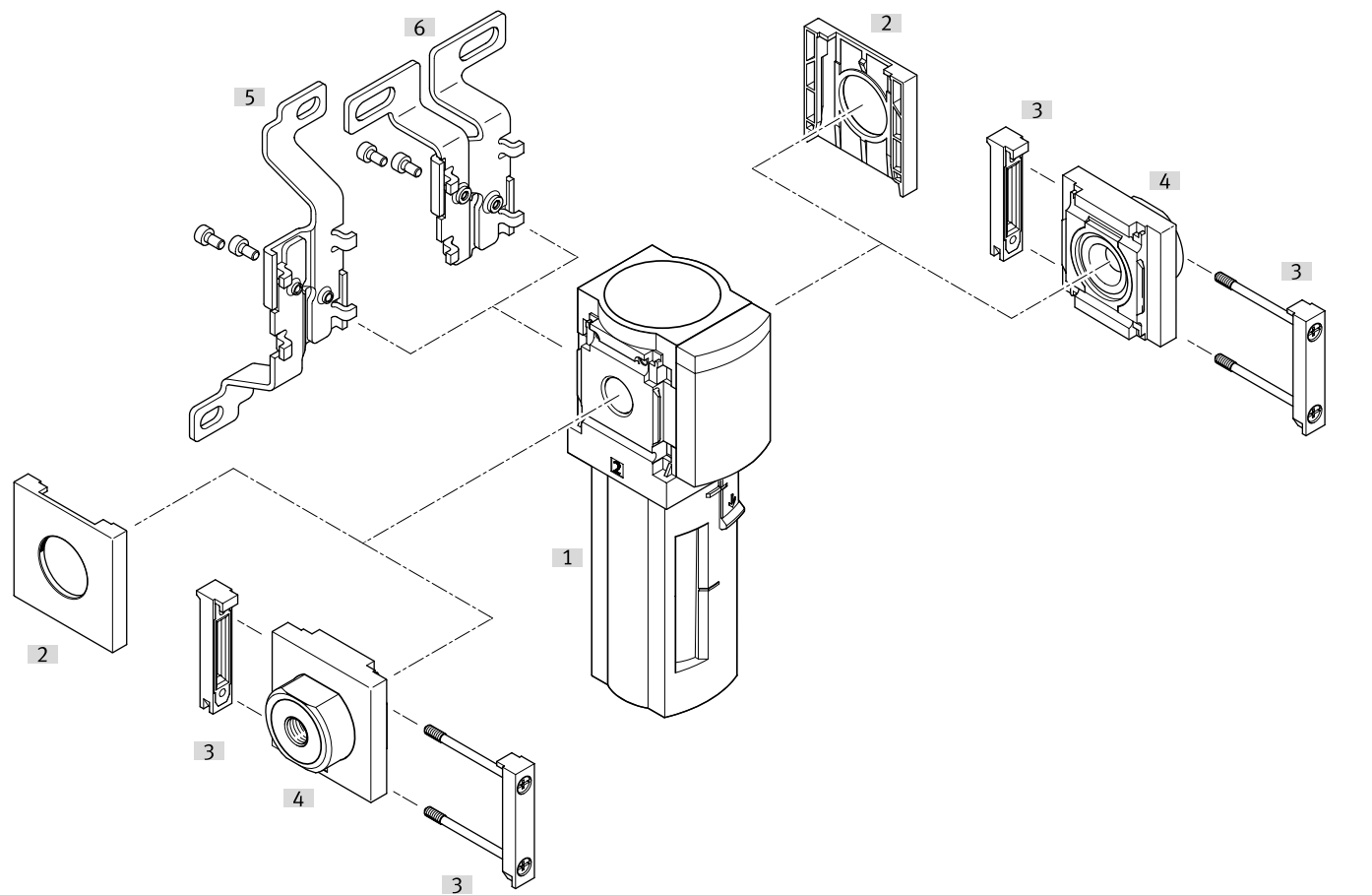
Ordering data

Ordering data				
	Pneumatic connection, port 1	Product weight	Part no.	Type
	1/8 NPT	190 g	536715	MS4N-LFX-1/8-R
	1/4 NPT		531764	MS4N-LFX-1/4-R
		350 g	535786	MS4N-LFX-1/4-U

Ordering data – Modular product system			
	Short type code	Part no.	Type
	MS4N-LFX	527700	MS4N-LFX

Peripherals

Peripherals overview



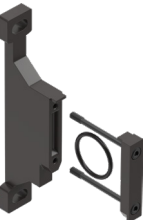
Accessories		→ Link
Type/order code	Description	
[1] Activated carbon filter MS4N-LFX		ms4n-lfx
[2] Cover cap MS4-END	For devices without connecting plate	9
[3] Module connector MS4-MV	For device combinations and individual devices with connecting plate	9
[4] Connecting plate-SET MS4-AG	For device combinations	10
[5] Mounting bracket MS4-WB	For individual device	9
[6] Mounting bracket MS4-WBM	For individual device	10
[7] Mounting bracket MS4-WP/WPB/WPE/WPM	Not shown	9

Accessories

Activated carbon filter cartridge – MS-...-LFX					
	Size	Material filter	LABS (PWIS) conformity	Part no.	Type
	Mini	Activated carbon	VDMA24364-B1/B2-L	532912	MS4/D-MINI-LFX

Module connector MS4-MV1					
	Material module connector	LABS (PWIS) conformity	Product weight	Part no.	Type
	POM, High-alloy stainless steel	VDMA24364-B1/B2-L	13 g	8119201	MS4-MV1

Cover cap MS4-END				
	Material housing	LABS (PWIS) conformity	Part no.	Type
	Reinforced PA	VDMA24364-B1/B2-L	538779	MS4-END

Mounting bracket MS4-WP...					
	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminium	VDMA24364-B1/B2-L		558869	MS4-WPE
			39 g	532184	MS4-WP
			45 g	526060	MS4-WPM-D
			55 g	526063	MS4-WPB
				526061	MS4-WPM-2D

Mounting bracket MS4-WB					
	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	Steel	VDMA24364-B1/B2-L	46 g	532185	MS4-WB

Accessories

Mounting bracket MS4-WBM						
	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type	
	Steel	VDMA24364-B1/B2-L	48 g	526062	MS4-WBM	

Connecting plate SET MS4-AQ...						
	Pneumatic connection, port 1	Material sub-base	LABS (PWIS) conformity	Product weight	Part no.	Type
	1/8 NPT	Die-cast aluminium	VDMA24364-B1/B2-L	128 g	526065	MS4N-AQK
	1/4 NPT				526066	MS4N-AQN
	3/8 NPT				526067	MS4N-AQP