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Active Carbon Filters MS4N-LFX – Inch Series



Active carbon filters remove liquid and gaseous oil particles as well as odor and taste from compressed air. Pre-filtration with a grade of 0.01 micron is required.

- Pneumatic connection: 1/8 NPT, 1/4 NPT, 3/8 NPT
- Supply pressure 0 ... 235 psi
- Flow rate: 8.8 scfm

Product Range Overview											
Туре	Pneumatic conn	ections	Filtration grade				Bowl guard		Bowl drain	Contamination	Reverse
			[µm]							control	flow
	Body thread	Port plate	0.01	1	5	40	Plastic bowl guard	Metal bowl	Manual	Differential pressure indicator	Flow direction from right to left
MS4N		AG	Α	В	C	E	R	U	М	DA	Z
LFX	1⁄8 NPT, 1⁄4 NPT	1⁄8 NPT, 1⁄4 NPT, 3⁄8 NPT	-	-	-	-				-	

Features

- Removal of liquid and gaseous oil particles from compressed air using active carbon
- Eliminates odors and vapors
- Prefiltration with micro filter MS4-LFM-A, filtration grade 0.01 μm, is required.

Contents

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	Dimensional Drawings Ordering Data Accessories

→ www.festo.com/catalog/ms4n-lfx

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Technical Data

ISO Symbol

Manual bowl drain



General Technical Data									
Pneumatic connection 1, 2		1/8 NPT	1⁄4 NPT						
Air purity class at the output ¹⁾		1.7.1 to DIN ISO 8573-1							
Supply pressure [[psi]	0 206							

1) It is recommended to replace filter cartridges after 1,000 operating hours.

Standard Nominal Flow Rate qnN ²⁾ and Standard Flow Rate qn [scfm]							
Pneumatic connection 1, 2	imatic connection 1, 2 1/8 NPT 1/4 NPT						
qnN 1	8.8	8.8					
qn max	12.7	12.7					

2) Measured at p1 = 88 psi and Δp = 1.0 psi

Operating and Environmental Conditions

Operating medium		ompressed air, filtered, unlubricated, filtration grade 0.01 μm						
Bowl guard		lastic bowl guard						
		Metal bowl						
Ambient temperature	[°F]	14 140						
Temperature of medium	[°F]	41 86						
Storage temperature	[°F]	14 140						
Assembly position		Vertical ±5°						
Corrosion resistance	CRC ³⁾	2						

3) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]

With plastic bowl guard	0.38
With metal bowl	0.70

• Filter cartridges → 304

• For spare parts go to: www.festo.com/en/spare_parts_service

Technical Data

Standard Flow Rate qn as a Function of the Differential Pressure $\Delta p1\mathchar`-2$

MS4N-LFX-1/8 and MS4N-LFX-1/4



Materials

Sectional view



Activ	Active carbon filter						
1	Body	Die-cast aluminum					
2	Plastic bowl guard	Polycarbonate/polyamide					
3	Metal bowl	Aluminum					
	Viewing window	Polyamide					
4	Filters	Active carbon					
-	Seals	Nitrile rubber					
	Note on materials	Free of copper and PTFE					

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Active Carbon Filters MS4N-LFX – Inch Series Dimensional Drawings, Ordering Data – Pre-configured Products

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Туре	B1	B2	B3	D1	L1		L1		L2	L3	L5	Le	6
					Bowl guard					Bowl g	guard		
					Plastic	Metal				Plastic	Metal		
MS4N-LFX-1/8	1 5 0	0.83	2.13	1⁄8 NPT	5.62	6.31	1.14	2.36	2.95	0.70	0.71		
MS4N-LFX-1/4	1.30	1.58 0.83		1⁄4 NPT	5.02	0.51	1.14	2.30	2.75	0.70	0.71		

1) Dimensions are in inches, unless otherwise noted.

Ordering Data							
Bowl drain	Connection	Plastic bowl guard		Metal bowl			
		Part No. Type	LT		Part No. Type	LT	
Manual	1⁄8 NPT	536715 MS4N-LFX-1⁄8-R	1D		536717 MS4N-LFX-1⁄8-U	Q	
	1⁄4 NPT	531764 MS4N-LFX-1⁄4-R	1D		535786 MS4N-LFX-1/4-U	Q	
	/4 11 1		10		555760 III.5411 EIX 74 0		

LT = Lead time

 ${\bf 1D} \ \ {\rm typically \ ships \ same \ day/next \ day}$

1W typically ships within 1 week

Q request a quote for lead time

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Ordering Data – Configurable Products

Mandatory D	ata		O Options							
Part No.	Series	Size	Thread	Function		Connection size	Bowl		Type of mounting	Reverse flow direction
527700	MS	4	N	LFX		1⁄8, 1⁄4, AQK, AQN, AQP	R U		WP WPM WB WBM	Z
Order example 527700	MS	4	N	– LFX	-	AQK -	- R	-	WP -	- Z

1	Ordering Table

Grio	d dimension [mm]	40	Conditions	Code	Enter code				
Μ	Part No.	527700							
	Series	Standard		MS	MS				
	Size	4		4	4				
	Thread	hread NPT thread							
	Function	Activated carbon filter		-LFX	-LFX				
	Connection size	Body thread 1/8 NPT		-1⁄8					
		Body thread 1/4 NPT		-1/4					
		Port plate 1/8 NPT (dimensions 🗲 300)		-AQK					
		Port plate 1⁄4 NPT (dimensions 🗲 300)		-AQN					
		Port plate ¾ NPT (dimensions → 300)		-AQP					
[Bowl	Plastic bowl with plastic bowl guard		-R					
		Metal bowl		-U					
0	Type of mounting	Mounting bracket (dimensions 🏓 301)	1	-WP					
		Mounting bracket (dimensions 🔿 301)	1	-WPM					
		Mounting bracket (dimensions 🗲 298)		-WB					
		Mounting bracket (dimensions 🗲 298)		-WBM					
	Reverse flow direction	Flow direction from right to left		-Z					

- [

1 WP, WPM Only with port plate AQK, AQN or AQP

Transfer order code 527700

MS

4

Ν

– LFX

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Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.



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Accessories Overview

Moun	ting Attachments and Accessories					
		Single unit		Combination unit $ ightarrow$	2.1-49	→ Page
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap	-	_	-	_	299
	MS4-END	-		-	_	
2	Port plate	_		_		300
	MS4N-AQ	_	-	_	-	
3	Mounting bracket			_	_	298
	MS4-WB	-	-	_	_	
4	Mounting bracket					298
	MS4-WBM	-	-	-	-	
5	Body connector		_	_	_	300
	MS4-MV	_	-	-	-	
6	Mounting bracket	_	_		_	301
	MS4-WP/WPB/WPM	_	-	-	-	

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Accessories

3 Mounting bracket MS4-WB

• For wall mounting

Material: Steel





Dimensions a	Dimensions and Ordering Data													
B1	B2	B3	B4	L1	L2	L3	L4	Weight [lb]	Part No.	Туре				
2.21	1.62	0.16	1.74	4.12	1.83	0.22	1.79	0.09	532185	MS4-WB				

4 Mounting bracket MS4-WBM

• For wall mounting

Material: Steel





	Dimensions and Ordering Data														
	B1	B2	B3	B4	L1	L2	L3	Weight [lb]	Part No.	Туре					
l	2.62	1.73	0.39	1.73	1.63	1.38	0.26	0.10	526062	MS4-WBM					

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Accessories



Dimensions and Ordering Data												
B1	B2	B4	L1	Part No.	Туре							
1.72	0.24	0.83	1.65	538779	MS4-END							
117 2	012 1	0.05	1105	556115								

Mounting plate MS4-AEND

 In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit with body thread on a wall

Material: Reinforced polyamide Conforms to RoHS Free of copper and PTFE





Din	Dimensions and Ordering Data															
В	1	B2	B3	В	4	B5	D1	L1	L2	L3	L4	L5	CRC ¹⁾	Weight	Part No.	Туре
				WP	WPB		Ø							[lb]		
	.17	1.58	0.16	1.73	2.60	1.20	0.80	4.17	1.83	0.22	1.84	1.65	2	0.01	542966	MS4-AEND

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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Accessories

2 Port plate MS4N-AQ...

• Adapter for pneumatic connection

Material: Aluminum





Dimensions and C	imensions and Ordering Data													
B1	B2	B4	D1	D2	L1	Weight [lb]	Part No.	Туре						
			1⁄8 NPT				526065	MS4N-AQK						
3.29	0.85	0.83	1⁄4 NPT	0.66	1.65	0.26	526066	MS4N-AQN						
			3⁄8 NPT				526067	MS4N-AQP						

5 Body connector MS4-MV

• For connecting modules

Material: Stainless steel/polyacetate



Ordering Data		
Weight	Part No.	Туре
[lb]		
0.07	532798	MS4-MV

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Accessories

6 Mounting Bracket MS4-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations



Mounting dimensions



Туре	B1	B2	B3	B4	B5	B6	L1	L2	L3	L4
MS4-WP				1.73			617	1.83		1.84
MS4-WPB	3.75	3.15	0.16	2.60	1.65	1.57	4.17	1.05	0.22	1.04
MS4-WPMD				1.73			3.65	1.37	1	1.57

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Accessories

Mounting bracket MS4-WP

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with body thread on a wall
- For pressure regulator LRB with angled outlet block B... at rear





Die-cast aluminum

Dimensions	Dimensions and Ordering Data														
B1	B2	B3	B4	B5	L1	L2	L3		Weight [lb]	Part No.	Туре				
2.17	1.58	0.16	1.73	3.28	4.17	1.83	0.22	1.84	0.08	532184	MS4-WP				

Mounting bracket MS4-WPB

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- Provides large wall gap for pressure regulator

Material:

Die-cast aluminum





Dimensions	vimensions and Ordering Data														
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [lb]	Part No.	Туре				
2.17	1.58	0.16	2.60	3.28	4.17	1.83	0.22	1.84	0.11	526063	MS4-WPB				

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Accessories

Mounting bracket MS4-WPM

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

The distance piece D or 2D (designated in the type code) is included in the scope of delivery and ensures the correct clearance

Material:

Die-cast aluminum





Dimensions and Ordering Data												
B1	B2	B3	B4	B5	L1	L2	L3	L4	Clearance	Weight	Part No.	Туре
										[lb]		
2.17	1.57	0.16	1.73	3.28	3.65	1.37	0.22	1.78	1.57	0.09	526060	MS4-WPM-D
3.75	3.15			4.86					3.15	0.11	526061	MS4-WPM-2D

Body connector MS4-MVM

• For installation of modules with regulating knob pointing downwards

Material: Die-cast aluminum



Ordering Data		
Size	Part No.	Туре
MS4	532800	MS4-MVM

Active Carbon Filters MS4N-LFX – Inch Series Replacement Parts

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Ordering Data – Filter Cartridges								
Size	Filtration grade [µm]	Part No.	Туре					
MS4	Residual oil content \leq 0.003 mg/m ³	532912	MS4/D-MINI-LFX					

• For spare parts go to: www.festo.com/en/spare_parts_service

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