



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 NPT, 11/4 NPT, 11/2 NPT, 2 NPT
- Supply pressure 0 ... 294 psi
- Flow rate: 169.4 ... 211.8 scfm

Product Range Overview										
Туре	Pneumatic connections	Bowl guard	Reverse flow							
	Port plate	Metal bowl	Flow direction from right to left							
MS12N	AG	U	Z							
LFX	1 NPT, 11/4 NPT, 11/2 NPT, 2 NPT		•							

Features

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

Contents	
Technical Data	→ 1162
Dimensional Drawings	→ 1164
Ordering Data	→ 1164
Accessories	→ 1166

→ www.festo.com/catalog/ms12n-lfx

2007/10 - Subject to change - MS Series



Technical Data

ISO Symbol





General Technical Data									
Pneumatic connection 1, 2 ¹⁾		1 NPT	11/4 NPT	1½ NPT	2 NPT				
Air purity class at the output		1.7.1 to DIN ISO 8573-1							
Supply pressure	[psi]	0 294							

1) Dependent on port plate selected, must be ordered separately as an accessory **>** 1167

Standard Nominal Flow Rate qnN ²⁾ [scfm]									
Pneumatic connection 1, 2	1 NPT	11/4 NPT	1½ NPT	2 NPT					
In main flow direction 1 2	169.4	176.5	194.2	211.8					

2) Dependent on port plate selected, must be ordered separately as an accessory \Rightarrow 1167 Measured at p1 = 88 psi and Δp = 1.0 psi

Operating and Environmental Conditions									
Operating medium		Compressed air, filtered, unlubricated, filtration grade 0.01 µm							
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 ¹³⁾	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 metal bowl	14.00						

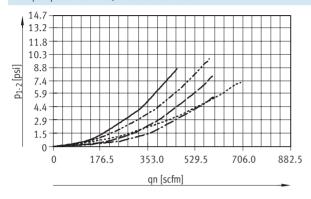
- Filter cartridges → 1169
- For spare parts go to: www.festo.com/en/spare_parts_service

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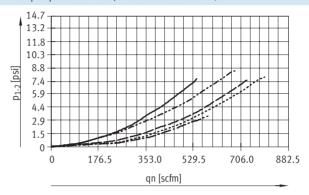
Technical Data

Standard Flow Rate qn as a Function of the Differential Pressure p1-2

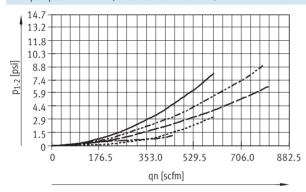
With port plate MS12-AGF, Pneumatic connection 1 NPT



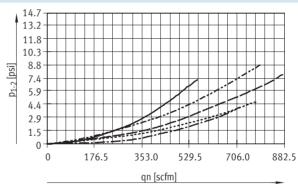
With port plate MS12-AGG, Pneumatic connection 11/4 NPT



With port plate MS12-AGH, Pneumatic connection 11/2 NPT





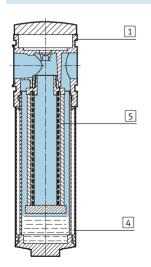


p1: 59 psi ----- p1: 88 psi ----- p1: 118 psi

p1: 147 psi

Materials

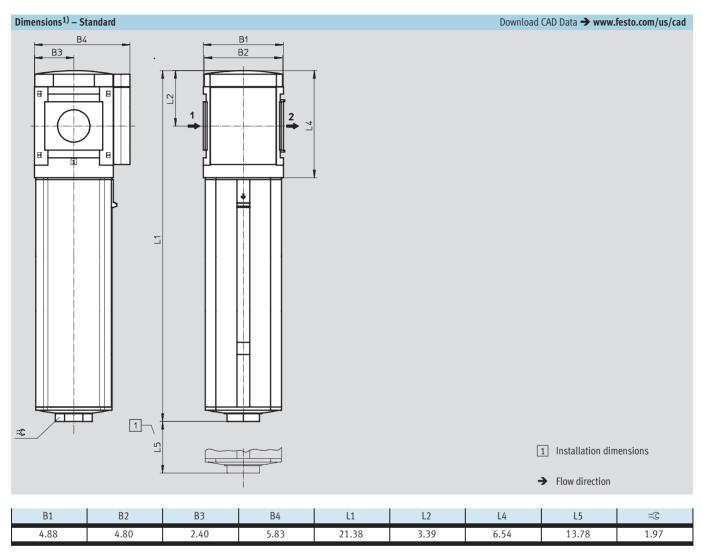
Sectional view



	Active carbon filter									
Ī	1 Body	Die-cast aluminum								
П	4 Metal bowl	Wrought aluminum alloy								
П	5 Filter	Active carbon								
Г	- Seals	Nitrile rubber								
I	Note on materials	Free of copper and PTFE								



Dimensional Drawings, Ordering Data – Pre-configured Products



¹⁾ Dimensions are in inches, unless otherwise noted.

Ordering Data		
Metal bowl		
Connection	Part No. Type	LT
1 NPT 2 NPT ¹⁾	537155 MS12-LFX-G-U	1D

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

¹⁾ Port plate must be ordered separately as an accessory → 1167



Ordering Data – Configurable Products

M Mandatory Data											O Options		
Part No.	Series	Size	Thread	F	Function		Connection size		Bowl		Type of mounting		Reverse flow direction
535046	MS	12	N	L	LFX		AQT AQU AQV AQW G		U		WP		Z
Order example													_
535046	MS	12	N	- L	LFX	-	AQT	-	U	-	WP	-	Z

Or	rdering Table				
Gr	id dimension [mm]	124	Conditions	Code	Enter code
M	Part No.	535046			
	Series	Standard		MS	MS
	Size	12		12	12
	Thread	NPT thread		N	N
	Function	Active carbon filter		-LFX	-LFX
	Connection size	Port plate 1 NPT (dimensions → 1167)		-AQT	
		Port plate 1¼ NPT (dimensions → 1167)		-AQU	
		Port plate 1½ NPT (dimensions → 1167)		-AQV	
		Port plate 2 NPT (dimensions → 1167)		-AQW	
		Module without connecting thread, without port plate		-G	
	Bowl	Metal bowl		-U	-U
0	Type of mounting	Mounting bracket (dimensions → 1168)	1	-WP	
	Reverse flow direction	Flow direction from right to left		-Z	

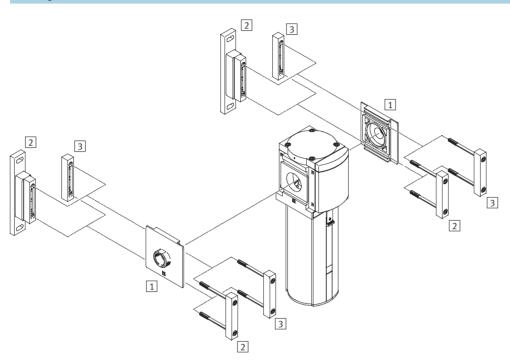
Only with port plate AQT, AQU, AQV or AQW

 Transfer order code

 535046
 MS
 12
 N
 –
 LFX
 –
 U
 –
 –

Accessories Overview

Mounting Attachments and Accessories



Mount	Mounting Attachments and Accessories							
		→ Page						
1	Port plate	1167						
	MS12-AQ							
2	Mounting bracket	1168						
	MS12-WP							
3	Body connector	1167						
	MS12-MV							



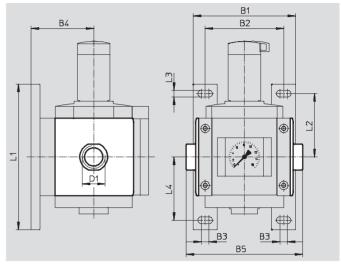
Accessories

1 Port plate MS12-AQ...

Adapter for pneumatic connection

Material: Die-cast aluminum Free of copper and PTFE





Dimension	Dimensions and Ordering Data														
B1	B2	B3	B4	B5	D1	L1	L2	L3	L4	Weight [lb]	Part No.	Туре			
				7.24	7.24 11/4 NPT		537139	MS12-AQT							
6.38	4.88	0.47	3.90	7.24		9.06	3.94	0.43	3.94	2.60	537140	MS12-AQU			
0.36	4.00	0.47	3.90	7.24	1½ NPT			0.43		2.00	537141	MS12-AQV			
				7.72	2 NPT			1			537142	MS12-AQW			

3 Body connector MS12-MV

• For connecting modules

Material: Die-cast aluminum, Free of copper and PTFE



Ordering Data			
Size	Weight	Part No.	Туре
	[lb]		
MS12	1.00	537134	MS12-MV



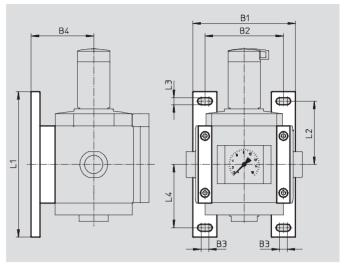
Accessories

2 Mounting bracket MS12-WP

- To connect the modules for wall mounting
- In combination with a port plate for mounting an individual unit on a wall

Material: Die-cast aluminum Free of copper and PTFE





Dimensions and Ordering Data											
Size	B1	B2	В3	B4	L1	L2	L3		Weight [lb]	Part No.	Туре
MS12	6.38	4.88	0.47	3.90	9.06	3.94	0.43	3.94	1.40	537133	MS12-WP



Replacement Parts



Ordering Data – Filter Cartridges									
Size	Filtration grade [µm]	Part No.	Туре						
MS12	Residual oil content ≤ 0.003 mg/m ³	537147	MS12-LFX						

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

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