



Fine and micro filters, with 1 micron or 0.01 micron filtration grades, remove submicronic water or oil droplets and dirt particles for exceptionally clean compressed air.

- Pneumatic connection: G1, G11/4, G11/2, G2
- Supply pressure
 - For manual drain: 0.8 ... 20 bar
 - For fully automatic drain: 2 ... 12 bar
 - For fully automatic drain, electrically actuated: 0.8 ... 16 bar
- Flow rate: 5,000 ... 7,600 l/min

Product I	Range Overview													
Туре	Pneumatic	Filtration	grade			Bowl	Bowl dra	in					Contamination	Reverse
	connections	[µm]				guard							control	flow
	Port plate	0.01	1	5	40	Metal bowl	Manual	Fully automatic	Electrical 24 V DC M12	Electrical 110 V AC with terminals	Electrical 230 V AC with terminals	Electrical 24 V DC with terminals	Differential pressure indicator	Flow direction from right to left
MS12	AG	Α	В	С	E	U	M V E1 E2 E3 E4					DA	Z	
LFM	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	•	•	-	-	•	•	•	•	•	•	•	•	•

Features

- High-performance filter for exceptionally clean compressed air
- Air quality to DIN ISO 8573-1
- Available with differential pressure indicator for optical indication of filter contamination
- LFM-A: ISO class 1 for particles: max. particle density 0.1 mg/m³ ISO class 2 for oil aerosols: max. oil concentration 0.1 mg/m³ Filter efficiency 99.9999%
- LFM-B: ISO class 2 for particles: max. particle density 1 mg/m³ ISO class 3 for oil aerosols: max. oil concentration 1 mg/m³ Filter efficiency 99.99%

Contents	
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→ www.festo.com/catalog/ms12-lfm

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Technical Data

ISO Symbol



Manual bowl drain without differential pressure indicator



With differential pressure indicator





Fully automatic bowl drain without differential pressure indicator



With differential pressure indicator

General Technical Data										
Pneumatic connection 1,	2 ¹⁾		G1	G1 G1½ G2						
Filtration grade		[µm]	0.01 (micro filter LFM-A, air pur	0.01 (micro filter LFM-A, air purity class at the output 1.7.2 to DIN ISO 8573-1)						
			1 (fine filter LFM-B, air purity class at the output 2.7.3 to DIN ISO 8573-1)							
Supply pressure	М	[bar]	0.8 20 (manual drain)							
	V	[bar]	2 12 (fully automatic drain)							
	E	[bar]	0.8 16 (fully automatic drain, electrically actuated)							

1) Dependent on port plate selected, must be ordered separately as an accessory \Rightarrow 1133

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate qnN ²⁾ and Standard Flow Rate qn ²⁾ [I/min]								
Pneumatic connection 1, 2	G1	G11⁄4	G1½	G2				
Micro filter LFM-A								
qnN 1 2	5,000	6,000	6,500	7,000				
qn min	700	700	700	700				
qn max	23,000	23,000	23,000	23,000				
Fine filter LFM-B								
qnN 1 2	5,200	6,200	7,500	7,600				
qn min	950	950	950	950				
qn max	23,000	23,000	23,000	23,000				

²⁾ Dependent on port plate selected, must be ordered separately as an accessory → 1133 Measured at p1 = 6 bar and ∆p = 70 mbar.



Technical Data

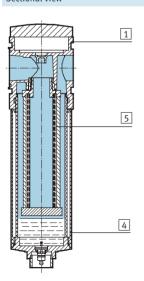
Operating and Environmenta	al Conditions						
Bowl drain		Manual	Fully automatic	Fully automatic, electrically actuated			
		M	V	E			
Operating medium micro filt	er LFM-A	Compressed air, filtered, unlubric	ated, filtration grade 1 µm				
Operating medium fine filter	LFM-B	Compressed air, filtered, unlubric	ated, filtration grade 5 μm				
Max. condensate volume	[cm ³]	400					
Bowl guard		Metal bowl					
Ambient temperature	[°C]	-10 +60	+5 +60	+1 +60			
Temperature of medium	[°C]	-10 +60	+5 +60	+1 +60			
Storage temperature	[°C]	-10 +60	-10 +60	+1 +60			
Assembly position		Vertical ±5°					
Corrosion resistance	CRC ¹⁾	2					

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.

Weights [g]	
With metal bowl	7,000
With metal bowl and fully automatic,	7,700
electrically actuated bowl drain	

- Filter cartridges → 1135
- For spare parts go to: www.festo.com/en/spare_parts_service

Materials Sectional view



Fine	Fine and micro filter								
1	Body	Die-cast aluminum							
4	Metal bowl	Wrought aluminum alloy							
5	Filter element	Borosilicate mesh							
-	Seals	Nitrile rubber							

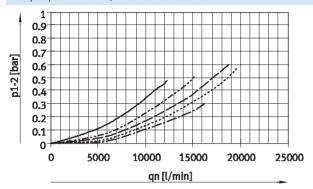


Technical Data

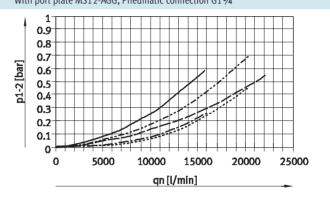
Standard Flow Rate qn as a Function of the Differential Pressure p1-2

Filtration grade 0.01 µm

With port plate MS12-AGF, Pneumatic connection G1

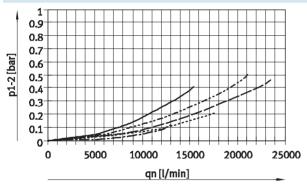


Filtration grade 0.01 μm With port plate MS12-AGG, Pneumatic connection G1½



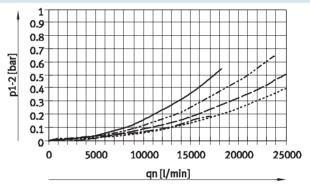
Filtration grade 0.01 μm

With port plate MS12-AGH, Pneumatic connection G1½



Filtration grade 0.01 μm

With port plate MS12-AGI, Pneumatic connection G2



p1: 4 bar
p1: 6 bar
p1: 8 bar
p1: 10 bar
p1: 12 bar

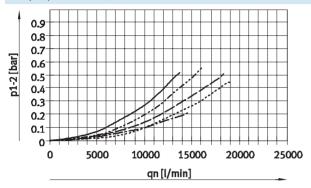


Technical Data

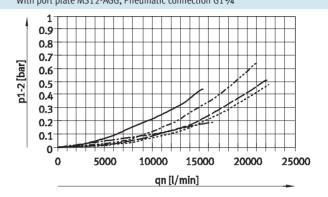
Standard Flow Rate qn as a Function of the Differential Pressure p1-2

Filtration grade 1 µm

With port plate MS12-AGF, Pneumatic connection G1

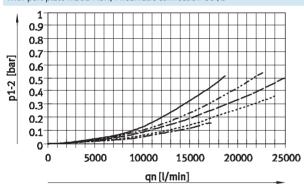


Filtration grade 1 μm With port plate MS12-AGG, Pneumatic connection G1½



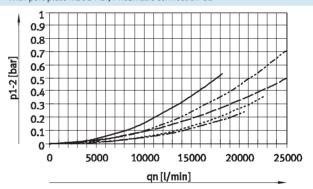
Filtration grade 1 µm

With port plate MS12-AGH, Pneumatic connection G1½



Filtration grade 1 μm

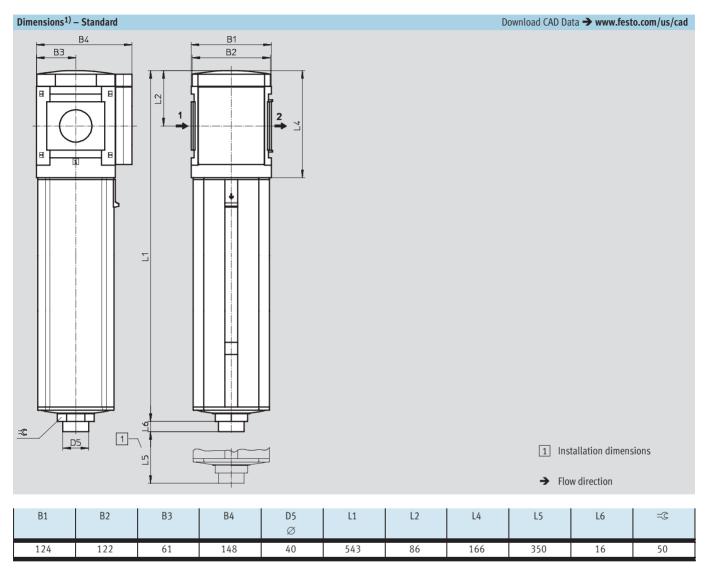
With port plate MS12-AGI, Pneumatic connection G2



p1: 4 bar
p1: 6 bar
p1: 8 bar
p1: 10 bar
p1: 12 bar

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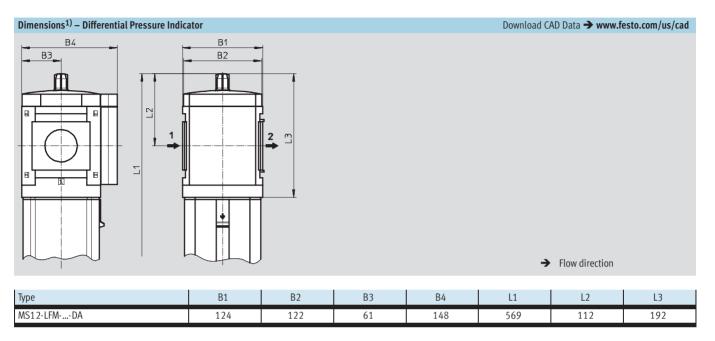
Dimensional Drawings



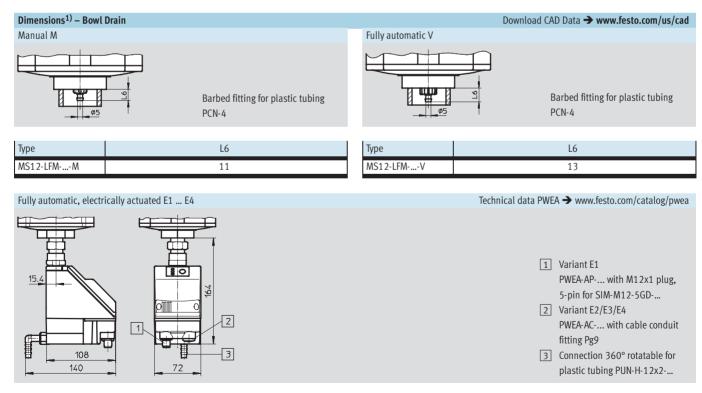
 $^{1) \}quad \hbox{Dimensions are in millimeters, unless otherwise noted.}$

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Dimensional Drawings



¹⁾ Dimensions are in millimeters, unless otherwise noted.



¹⁾ Dimensions are in millimeters, unless otherwise noted.



Ordering Data – Pre-configured Products

Ordering Data					
Metal bowl					
Bowl drain	Connection	Micro filter		Fine filter	
		Filtration grade 0.01 µm		Filtration grade 1 µm	
		Part No. Type	LT	Part No. Type	LT
Fully automatic	G1 G2 ¹⁾	537154 MS12-LFM-G-AUV	1D	537153 MS12-LFM-G-BUV	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 → 1133

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.



Ordering Data – Configurable Products

M Mandatory	M Mandatory data									O Option	S							
Part No.	Series	Size		Functi on		Connection size		Filtration grade		Bowl		Bowl drain		Filter change sensor		Type of mounting		Reverse flow direction
535042	MS	12		LFM		AGF AGG AGH AGI G		B A		U		M V E1 E2 E3		DA		WP		Z
Order example 535042	MS	12	l –	LFM] _	AGI	_	A	_	U	_	M	_ '		1		_	

10	dering Table				
Gr	id dimension [mm]	124	Conditions	Code	Enter
					code
M	Part No.	535042			
	Series	Standard		MS	MS
	Size	12		12	12
	Function	Fine and micro filter		-LFM	-LFM
	Connection size	Port plate G1 (dimensions → 1133)		-AGF	
		Port plate G1¼ (dimensions → 1133)		-AGG	
		Port plate G1½ (dimensions → 1133)		-AGH	
		Port plate G2 (dimensions → 1133)		-AGI	
		Module without connecting thread, without port plate		-G	
	Filtration grade	1 μm		-В	
		0.01 μm		-A	
	Bowl	Metal bowl		-U	-U
	Bowl drain	Manual		-M	
		Fully automatic (P1 max. 12 bar)		-V	
		External fully automatic bowl drain, electrical, 24 V DC, M12		-E1	
		External fully automatic bowl drain, electrical, 110 V AC, terminals		-E2	
		External fully automatic bowl drain, electrical, 230 V AC, terminals		-E3	
		External fully automatic bowl drain, electrical, 24 V DC, terminals		-E4	
0	Filter change sensor	Differential pressure indicator, optical		-DA	
	Type of mounting	Mounting bracket (dimensions → 1134)	1	-WP	
	Reverse flow direction	Flow direction from right to left		-Z	

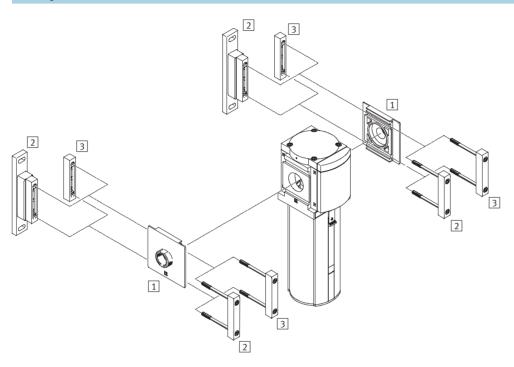
1 WP Only with port plate AGF, AGG, AGH or AGI

 Transfer order code

 535042
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Accessories Overview

Mounting Attachments and Accessories



Moun	Mounting Attachments and Accessories							
		→ Page						
1	Port plate	1133						
	MS12-AG							
2	Mounting bracket	1134						
	MS12-WP							
3	Body connector	1133						
	MS12-MV							

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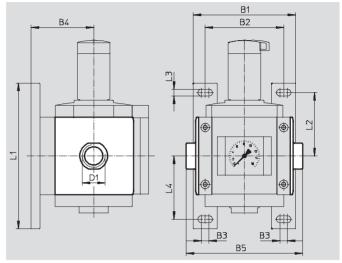
Accessories

1 Port plate MS12-AG...

Adapter for pneumatic connection

Material: Die-cast aluminum Free of copper and PTFE





Dimension	ns and Orde	ring Data										
B1	B2	В3	В4	B5	D1	L1	L2	L3	L4	Weight [g]	Part No.	Туре
				184	G1						537135	MS12-AGF
		12	12 99			230	100	11	100	1,300		
162	124			184	G11/4						537136	MS12-AGG
102	124	12		184	G1½						537137	MS12-AGH
				196	G2						537138	MS12-AGI

3 Body connector MS12-MV

• For connecting modules

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



Ordering Data			
Size	Weight	Part No.	Туре
	[g]		
MS12	500	537134	MS12-MV



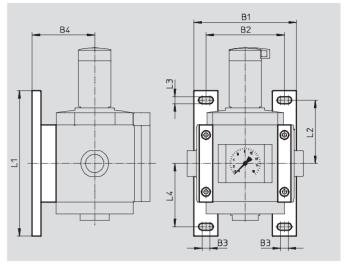
Accessories

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	B3	B4	L1	L2	L3	L4	Weight [g]	Part No.	Туре
MS12	162	124	12	99	230	100	11	100	700	537133	MS12-WP



Replacement Parts



Ordering Data – Filter Cartridges							
Size	Filtration grade [µm]	Part No.	Туре				
MS12	0.01	537146	MS12-LFM-A				
	1	537145	MS12-LFM-B				

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

2007/10 - Subject to change - MS Series

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Fine and micro filters, with 1 micron or 0.01 micron filtration grades, remove submicronic water or oil droplets and dirt particles for exceptionally clean compressed air.

- Pneumatic connection: 1 NPT, 11/4 NPT, 11/2 NPT, 2 NPT
- Supply pressure
 - For manual drain: 12 ... 294 psi
 - For fully automatic drain: 29 ... 176 psi
 - For fully automatic drain, electrically actuated: 12 ... 235 psi
- Flow rate: 176.5 ... 268.3 scfm

Product I	Range Overview													
Туре	Pneumatic	Filtration	grade			Bowl	Bowl drain						Contamination	Reverse
	connections	[µm]	[μm]			guard							control	flow
	Port plate	0.01	1	5	40	Metal bowl	Manual	Fully automatic	Electrical 24 V DC M12	Electrical 110 V AC with terminals	Electrical 230 V AC with terminals	Electrical 24 V DC with terminals	Differential pressure indicator	Flow direction from right to left
MS12N	AG	Α	В	С	E	U	M	V	E1	E2	E3	E4	DA	Z
LFM	1 NPT, 1 ¹ / ₄ NPT, 1 ¹ / ₂ NPT, 2 NPT	•	•	-	-	•	•	•	•	•	•	•	•	•

Features

- High-performance filter for exceptionally clean compressed air
- Air quality to DIN ISO 8573-1
- Available with differential pressure indicator for optical indication of filter contamination
- LFM-A: ISO class 1 for particles: max. particle density 0.1 mg/m³ ISO class 2 for oil aerosols: max. oil concentration 0.1 mg/m³ Filter efficiency 99.9999%
- LFM-B: ISO class 2 for particles: max. particle density 1 mg/m³ ISO class 3 for oil aerosols: max. oil concentration 1 mg/m³ Filter efficiency 99.99%

Contents	
Technical Data	→ 1138
Dimensional Drawings	→ 1142
Ordering Data	→ 1144
Accessories	→ 1146

→ www.festo.com/catalog/ms12n-lfm

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Technical Data

ISO Symbol



Manual bowl drain without differential pressure indicator



With differential pressure indicator





Fully automatic bowl drain without differential pressure indicator



With differential pressure indicator

General Technical Data	a									
Pneumatic connection 1, 2 ¹⁾		1 NPT	11/4 NPT	1½ NPT	2 NPT					
Filtration grade [µm]			0.01 (micro filter LFM-A, air pu	0.01 (micro filter LFM-A, air purity class at the output 1.7.2 to DIN ISO 8573-1)						
			1 (fine filter LFM-B, air purity class at the output 2.7.3 to DIN ISO 8573-1)							
Supply pressure M [psi] 12 294 (manual drain)										
	V	[psi]	29 176 (fully automatic drain							
	E	[psi]	12 235 (fully automatic drain	235 (fully automatic drain, electrically actuated)						

1) Dependent on port plate selected, must be ordered separately as an accessory → 1147

Standard Nominal Flow Rate qnN ²⁾ and	Standard Nominal Flow Rate qnN ²⁾ and Standard Flow Rate qn ²⁾ [scfm]								
Pneumatic connection 1, 2	1 NPT	11/4 NPT	1½ NPT	2 NPT					
Micro filter LFM-A	Micro filter LFM-A								
qnN 1} 2	176.5	211.8	229.5	247.1					
qn min	24.7	24.7	24.7	24.7					
qn max	811.9	811.9	811.9	811.9					
Fine filter LFM-B									
qnN 1} 2	183.6	218.9	264.8	268.3					
qn min	33.5	33.5	33.5	33.5					
qn max	811.9	811.9	811.9	811.9					

²⁾ Dependent on port plate selected, must be ordered separately as an accessory \Rightarrow 1147 Measured at p1 = 88 psi and Δp = 1.0 psi



Technical Data

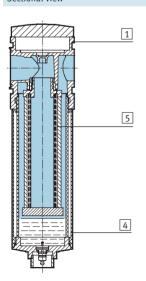
Operating and Environment	al Conditions						
Bowl drain		Manual	Fully automatic	Fully automatic, electrically actuated			
		M	V	E			
Operating medium micro filt	er LFM-A	Compressed air, filtered, unlubricated, filtration grade 1 µm					
Operating medium fine filter	LFM-B	Compressed air, filtered, unlubricated	Compressed air, filtered, unlubricated, filtration grade 5 µm				
Max. condensate volume	[in ³]	24.40	4.40				
Bowl guard		Metal bowl					
Ambient temperature	[°F]	14 140	41 140	34 140			
Temperature of medium	[°F]	14 140	41 140	34 140			
Storage temperature	[°F]	14 140	14 140	34 140			
Assembly position		Vertical ±5°					
Corrosion resistance	CRC ¹⁾	2					

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.

Weights [lb]					
With metal bowl	14.00				
With metal bowl and fully automatic,	15.40				
electrically actuated bowl drain					

- Filter cartridges → 1149
- For spare parts go to: www.festo.com/en/spare_parts_service

Materials Sectional view



Fine	Fine and micro filter					
1	Body	Die-cast aluminum				
4	Metal bowl	Wrought aluminum alloy				
5	Filter element	Borosilicate mesh				
-	Seals	Nitrile rubber				

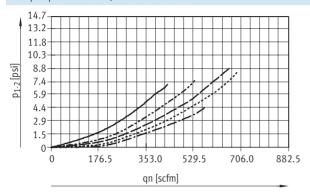


Technical Data

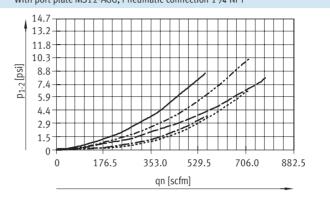
Standard Flow Rate qn as a Function of the Differential Pressure p1-2

Filtration grade 0.01 µm

With port plate MS12-AGF, Pneumatic connection 1 NPT

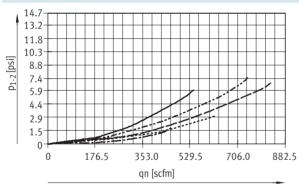


Filtration grade 0.01 μm With port plate MS12-AGG, Pneumatic connection 1½ NPT



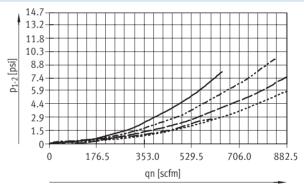
Filtration grade 0.01 µm

With port plate MS12-AGH, Pneumatic connection 1½ NPT



Filtration grade 0.01 µm

With port plate MS12-AGI, Pneumatic connection 2 NPT



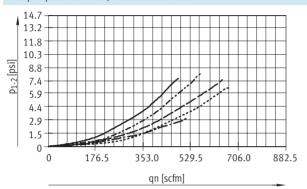


Technical Data

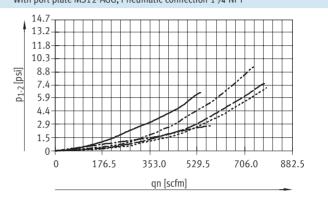
Standard Flow Rate qn as a Function of the Differential Pressure p1-2

Filtration grade 1 µm

With port plate MS12-AGF, Pneumatic connection 1 NPT

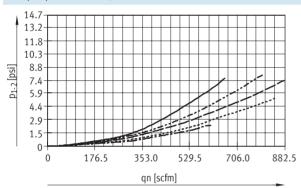


Filtration grade 1 μm With port plate MS12-AGG, Pneumatic connection 1½ NPT



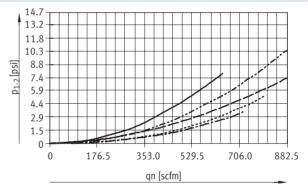
Filtration grade 1 µm

With port plate MS12-AGH, Pneumatic connection 1½ NPT



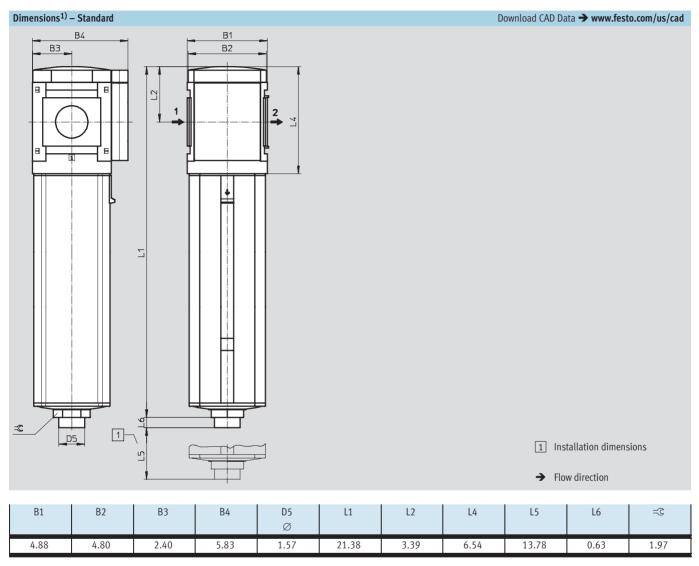
Filtration grade 1 μm

With port plate MS12-AGI, Pneumatic connection 2 NPT



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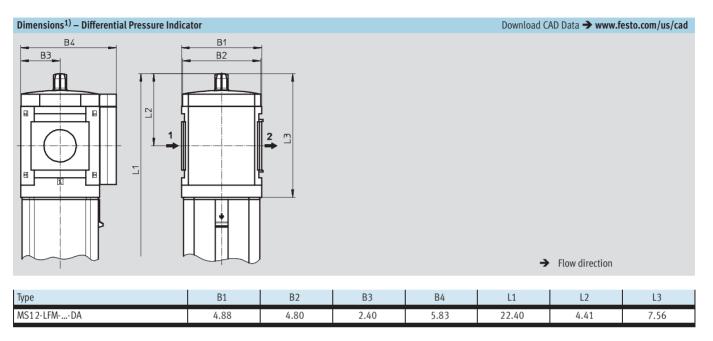
Dimensional Drawings



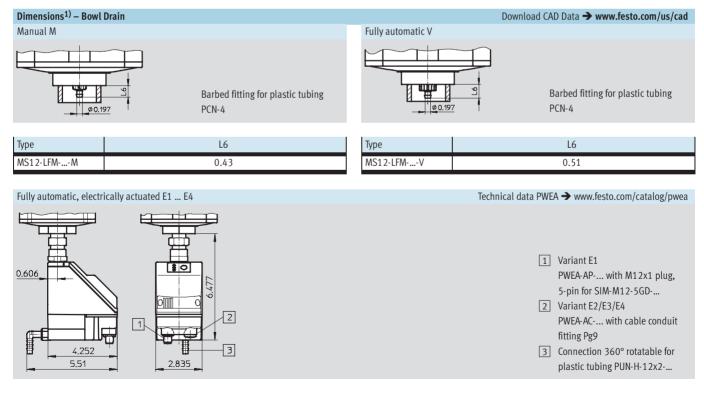
¹⁾ Dimensions are in inches, unless otherwise noted.



Dimensional Drawings



1) Dimensions are in inches, unless otherwise noted.



 $1) \quad \hbox{ Dimensions are in inches, unless otherwise noted.} \\$



Ordering Data – Pre-configured Products

Ordering Data								
Metal bowl								
Bowl drain	Connection	Micro filter			Fine filter			
		Filtration grade 0.01 μm			Filtration grade 1 μm			
		Part No. Type	LT		Part No. Type	LT		
Fully automatic	1 NPT 2 NPT ¹⁾	537154 MS12-LFM-G-AUV	1D		537153 MS12-LFM-G-BUV	1 D		

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 → 1147



Ordering Data – Configurable Products

M Mandato	M Mandatory data											O Options	5		
Part No.	Series	Size	Thread	Functi on	Conne on siz		Filtration grade	Во	wl	Bowl drain		Filter change sensor		Type of mountin	Reverse flow direction
535045	MS	12	N	LFM	AQT AQU AQV AQW G		B A	U		M V E1 E2 E3 E4		DA		WP	Z
Order example 535045	MS	12	N	– LFM	- AQW		A	- U			_		1		

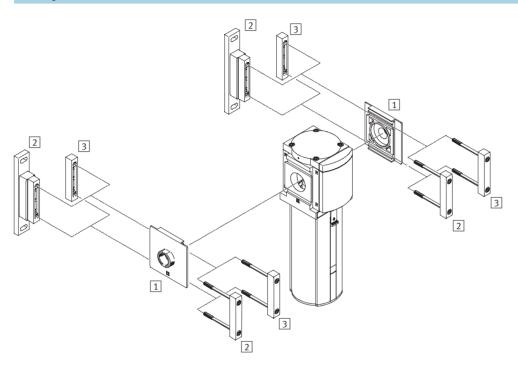
Ordering Table Grid dimension	[mm]	124	Conditions	Code	Enter
and dimension	[IIIIII]	124	Conditions	code	code
M Part No.		535045			
Series		Standard		MS	MS
Size		12		12	12
Thread		NPT thread		N	N
Function		Fine and micro filter		-LFM	-LFM
Connection size		Port plate 1 NPT (dimensions → 1147)		-AQT	
		Port plate 1⅓ NPT (dimensions → 1147)		-AQU	
		Port plate 1½ NPT (dimensions → 1147)		-AQV	
		Port plate 2 NPT (dimensions → 1147)		-AQW	
		Module without connecting thread, without port plate		-G	
Filtration grade		1 μm		-B	
		0.01 μm		-A	
Bowl		Metal bowl		-U	-U
Bowl drain		Manual		-M	
		Fully automatic (P1 max. 176 psi)		-V	
		External fully automatic bowl drain, electrical, 24 V DC, M12		-E1	
		External fully automatic bowl drain, electrical, 110 V AC, terminals		-E2	
		External fully automatic bowl drain, electrical, 230 V AC, terminals		-E3	
		External fully automatic bowl drain, electrical, 24 V DC, terminals		-E4	
D Filter change sensor		Differential pressure indicator, optical		-DA	
Type of mounting	·	Mounting bracket (dimensions → 1148)	1	-WP	
Reverse flow direction		Flow direction from right to left		-Z	

1	WP	Only with port plate AQT, AQU, AQV or AQV
1	WP	Only with port plate AQI, AQU, AQV of AQV



Accessories Overview

Mounting Attachments and Accessories



Moun	Mounting Attachments and Accessories							
		→ Page						
1	Port plate	1147						
	MS12-AQ							
2	Mounting bracket	1148						
	MS12-WP							
3	Body connector	1147						
	MS12-MV							



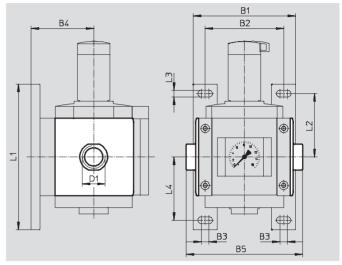
Accessories

1 Port plate MS12-AQ...

Adapter for pneumatic connection

Material: Die-cast aluminum Free of copper and PTFE





Dimension	s and Orde	ring Data										
B1	B2	В3	B4	B5	D1	L1	L2	L3	L4	Weight [lb]	Part No.	Туре
										[tb]		
				7.24	1 NPT						537139	MS12-AQT
6.38	4.88	0.47	3.90	7.24	11/4 NPT	9.06	3.94	0.43	3.94	2.60	537140	MS12-AQU
0.56	4.00	0.47	3.90	7.24	1½ NPT	9.00	3.54	0.43	3.54	2.00	537141	MS12-AQV
				7.72	2 NPT						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



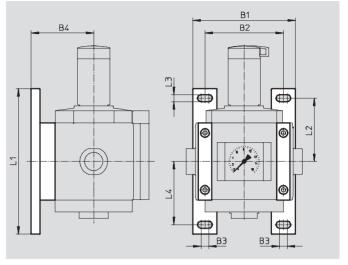
Accessories

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	0.01	537146	MS12-LFM-A						
	1	537145	MS12-LFM-B						

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

2007/10 - Subject to change - MS Series

FESTO

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Custom Automation ComponentsComplete custom engineered solutions



Custom Control CabinetsComprehensive engineering support and on-site services



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With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



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Pneumatics
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PLC's, operator interfaces, sensors
and I/O devices

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