



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: G1/8, G1/4, G3/8
- Supply pressure
 - For manual drain: 0 ... 14 bar
 - For semiautomatic drain: 1.5 ... 12 barFor fully automatic drain: 2 ... 12 bar
- Flow rate: 120 ... 180 l/min

Product Ra	Product Range Overview												
Туре	Pneumatio	Pneumatic connections Filtration grade			Bowl guard	d	Bowl drain	1		Contamination	Reverse		
			[µm]									control	flow
	Body thread	Port plate	0.01	1	5	40	Plastic bowl guard	Metal bowl	Manual	Semiautomatic	Fully automatic	Differential pressure indicator	Flow direction from right to left
MS4		AG	Α	В	С	E	R	U	M	Н	V	DA	Z
LFM	G1/8, G1/4	G1/8, G1/4, G3/8			-	-						•	

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 99.999%
- 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%

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→ www.festo.com/catalog/ms4-lfm

FESTO

Technical Data

ISO Symbol



Manual bowl drain without differential pressure indicator



With differential pressure indicator



Semi or fully automatic bowl drain without differential pressure indicator



With differential pressure indicator



General Technical Data							
Pneumatic connection 1, 2			G1/8	G ¹ / ₄			
Filtration grade [µm]			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 [bar]		[bar]	0 14 (manual drain)				
H [bar] 1.5 12 (semiautomatic drain)							
V [bar] 2 12 (fully automatic drain)							

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

Standard Nominal Flow Rate qnN ¹⁾ and Standard Flow Rate qn [l/min]							
Pneumatic connection 1, 2	G½	G1/4					
Micro filter LFM-A							
qnN 1 2	120	120					
qn min	54	54					
qn max	360	360					
Fine filter LFM-B							
qnN 1 2	180	180					
qn min	54	54					
qn max	360	360					

¹⁾ Measured at p1 = 6 bar and Δp = 70 mbar



Technical Data

Operating and Environmental Cond	ditions							
Bowl drain		Manual	Semiautomatic	Fully automatic				
		M	Н	V				
Operating medium micro filter LFM-	-A	Compressed air, filtered, unlubricated, filt	ration grade 1 µm					
Operating medium fine filter LFM-B	;	Compressed air, filtered, unlubricated, filt	ration grade 5 µm					
Max. condensate volume [ci	m ³]	19 (with plastic bowl guard)						
		25 (with metal bowl)						
Bowl guard		Plastic bowl guard						
		Metal bowl						
Ambient temperature [°C	C]	-10 +60	+5 +60	+5 +60				
Temperature of medium [°C	C]	-10 +60	+5 +60	+5 +60				
Storage temperature [°C	C]	-10 +60	-10 +60	-10 +60				
Assembly position		Vertical ±5°						
Corrosion resistance CF	RC ¹⁾	2						

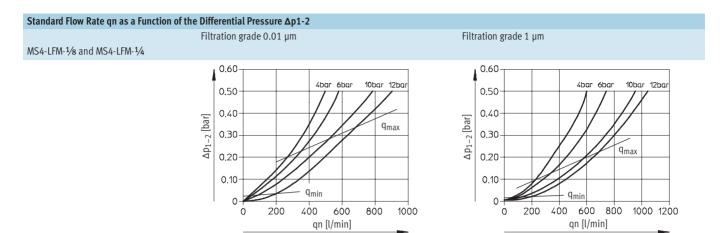
¹⁾ Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or

Weights [g]	
With plastic bowl guard	190
With metal bowl	350

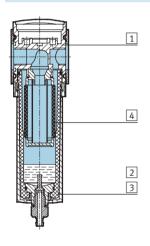
- Wearing parts kits → 258
- Filter cartridges → 258
- For spare parts go to: www.festo.com/en/spare_parts_service



Technical Data



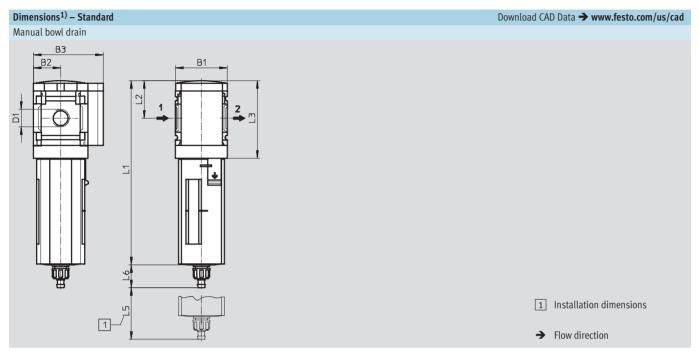
Materials Sectional view



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



Dimensional Drawings



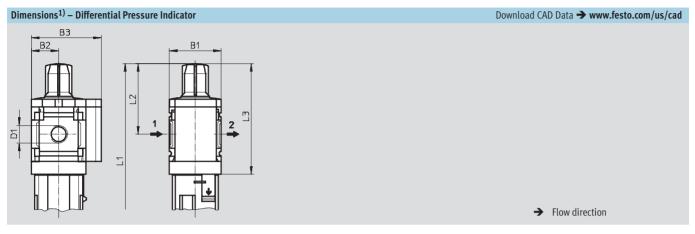
Туре	B1	B2	В3	D1	L1		L2	L3	L5	Le	5
					Bowl §	guard				Bowl §	guard
					Plastic	Metal				Plastic	Metal
MS4-LFM-1/8	40	21	54	G1/8	142	160	20	60	25	17.7	17.7
MS4-LFM-1/4	40	21)4	G1/4	142	100	29	00	23	1/./	1/./

¹⁾ Dimensions are in millimeters, unless otherwise noted.

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



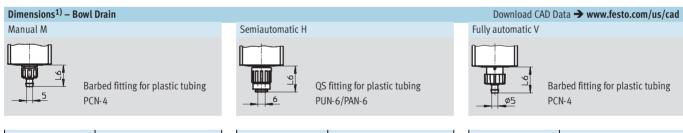
Dimensional Drawings



Туре	B1 B2 B3		В3	D1	L: Bowl §	L2	L3	
					Plastic	Metal		
MS4-LFM-1/8DA	40	21	54	G1/8	168	186	5.5	86
MS4-LFM-1/4DA	40	21	54	G1/4	100	100	99	00

¹⁾ Dimensions are in millimeters, unless otherwise noted.

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



Туре	L6			
Plastic bowl guard				
MS4-LFMM	17.7			
Metal bowl				
MS4-LFMM	17.7			

Туре	L6				
Plastic bowl guard					
MS4-LFMH	22.1				
Metal bowl					
MS4-LFMH	22.1				

Type	L6				
Plastic bowl guard					
MS4-LFMV	20.4				
Metal bowl					
MS4-LFMV	20.4				
	<u> </u>				

¹⁾ Dimensions are in millimeters, unless otherwise noted.



Ordering Data – Pre-configured Products

Ordering Data					
Without differential pres	ssure indicator				
Bowl drain	Connection	Micro filter		Fine filter	
		Filtration grade 0.01 μm		Filtration grade 1 µm	
		Part No. Type	Part No. Type	LT	
Plastic bowl guard					
Manual	G ¹ / ₈	529463 MS4-LFM-1/8-ARM	1D	529465 MS4-LFM-1/8-BRM	1D
	G1/4	529459 MS4-LFM-1/4-ARM	1D	529461 MS4-LFM-1/4-BRM	1D
Metal bowl			<u> </u>		
Fully automatic	G1/8	539208 MS4-LFM-1/8-AUV	Q	539204 MS4-LFM-1/8-BUV	Q
	G1/4	535768 MS4-LFM-1/4-AUV	Q	535766 MS4-LFM- ¹ / ₄ -BUV	Q

Ordering Data										
With differential pressure in	dicator									
Bowl drain	Connection	Micro filter		Fine filter						
		Filtration grade 0.01 μm		Filtration grade 1 µm						
		Part No. Type	LT	Part No. Type	LT					
Plastic bowl guard										
Manual	G1/8	536821 MS4-LFM- ¹ / ₈ -ARM-DA	1D	536817 MS4-LFM-1/8-BRM-DA	1D					
	G1/4	536822 MS4-LFM-1/4-ARM-DA	1D	536818 MS4-LFM-1/4-BRM-DA	1D					
Metal bowl				·						
Fully automatic	G½8	537213 MS4-LFM-1/8-AUV-DA	Q	537209 MS4-LFM-1/8-BUV-DA	Q					
	G1/4	537214 MS4-LFM-1/4-AUV-DA	Q	537210 MS4-LFM-1/4-BUV-DA	Q					

LT = Lead time	1D typically ships same day/next day	1W typically ships within 1 week	Q request a quote for lead time
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2007/10 - Subject to change - MS Series



Ordering Data – Configurable Products

Mandatory D	M Mandatory Data →											
Part No.	Series	Size	Function		Connection size	1	Filtration grade		Bowl]		
]		
527697	MS	4	LFM		1/8, 1/4,		В		R			
					AGA, AGB, AGC		A		U			
Order example						_				_		
527697	MS	4	- LFM	-	AGB	-	В	-	R			

Grid dimension	[mm] 40		Conditions	Code	Enter code
M Part No.	527	697			
Series	Star	dard		MS	MS
Size		4	4		
Function		-LFM	-LFM		
Connection size	Bod	thread G½		-1/8	
	Bod	thread G½		-1/4	
	Port	plate G1⁄8 (dimensions → 254)		-AGA	
	Port	plate G¼ (dimensions → 254)		-AGB	
	Port	plate G¾ (dimensions → 254)		-AGC	
Filtration grade	1 μn	1		-B	
	0.01	μm		-A	
Bowl	Plas	tic bowl with plastic bowl guard		-R	
	Meta	al bowl		-U	

Transfer order code	!							
527697	MS	4	-	LFM	-	-] -	



Ordering Data – Configurable Products

M H	in	Filter change sensor DA	Type of mounting WP	Reverse flow direction
		DA	WP	7
		DA	WP	7
Н			1	L
			WPM	
V			WB	
			WBM	
- M	-	-	WP -	Z

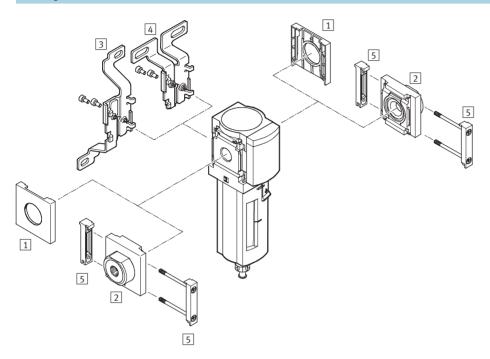
Or	dering Table				
Gr	id dimension [mm]	40	Conditions	Code	Enter code
T	Bowl drain	Manual		-M	
M		Semiautomatic (P1 max. 12 bar)		-H	
		Fully automatic (P1 max. 12 bar)	1	-V	
0	Filter change sensor	Differential pressure indicator, optical		-DA	
	Type of mounting	Mounting bracket (dimensions → 255)	2	-WP	
		Mounting bracket (dimensions → 255)	2	-WPM	
		Mounting bracket (dimensions → 252)		-WB	
		Mounting bracket (dimensions → 252)		-WBM	
	Reverse flow direction	Flow direction from right to left		-Z	

Transfer order code

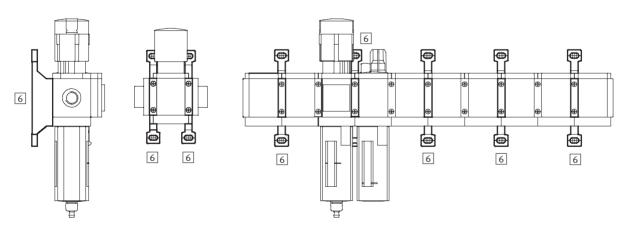
² **WP, WPM** Only with port plate AGA, AGB or AGC

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

Moun	ting Attachments and Accessories					
		Single unit	Single unit Combination uni			→ Page
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap			-		253
	MS4-END	_		_		
2	Port plate	_	_	_	_	254
	MS4-AG		_		_	
3	Mounting bracket			_	_	252
	MS4-WB	_	_			
4	Mounting bracket		_	_	_	252
	MS4-WBM	_	_			
5	Body connector	_	•		•	254
	MS4-MV		_	_	_	
6	Mounting bracket	_				255
	MS4-WP/WPB/WPM		_	_	_	

FESTO

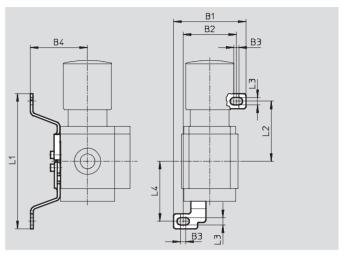
Accessories

3 Mounting bracket MS4-WB

• For wall mounting

Material: Steel





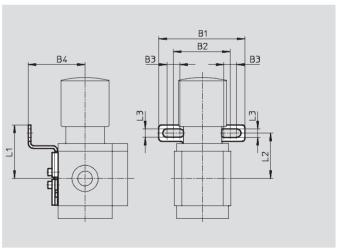
Dimensions a	Dimensions and Ordering Data													
B1	B2	В3	B4	L1	L2	L3	L4	Weight [g]	Part No.	Туре				
56.2	41.2	4	44.2	104.6	46.6	5.6	46.5	46	532185	MS4-WB				

4 Mounting bracket MS4-WBM

• For wall mounting

Material: Steel





Dimensions an	Dimensions and Ordering Data													
B1	B2	В3	B4	L1	L2		Weight [g]	Part No.	Туре					
66.5	44	10	44	41.3	35	6.5	48	526062	MS4-WBM					

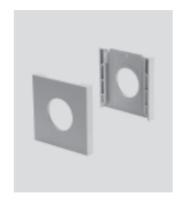
FESTO

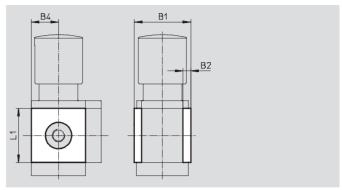
Accessories

1 Cover cap MS4-END

• Can be used to cover the body sides of the first and last module if port plates are not used.

Material: Reinforced polyamide Free of copper and PTFE





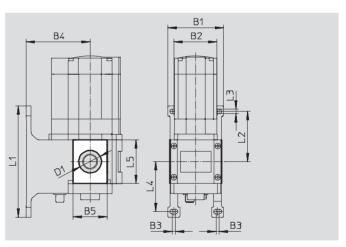
Dimensions and Ordering Data											
B1	B2	B4	L1	Part No.	Туре						
43.6	6	21	42	538779	MS4-END						

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





Dimens	Dimensions and Ordering Data														
B1	B2	В3	B	4	B5	D1	L1	L2	L3	L4	L5	CRC ¹⁾	Weight	Part No.	Туре
			WP	WPB		Ø							[g]		
55.2	40.2	4	44	66	30.4	20.3	106	46.5	5.6	46.7	42	2	4	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.



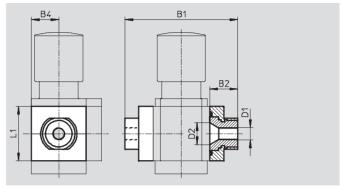
Accessories

2 Port plate MS4-AG...

Adapter for pneumatic connection

Material: Aluminum





Dimensions and	Dimensions and Ordering Data											
B1	B2	B4	D1	D2	L1	Weight	Part No.	Туре				
						[g]						
			G1/8				526068	MS4-AGA				
83.5	21.5	21	G1/4	16.8	42	128	526069	MS4-AGB				
			G3/8				526070	MS4-AGC				

5 Body connector MS4-MV

• For connecting modules

Material:

Stainless steel/polyacetate



Ordering Data		
Weight	Part No.	Туре
[g]		
36	532798	MS4-MV



Accessories

6 Mounting Bracket MS4-WP...

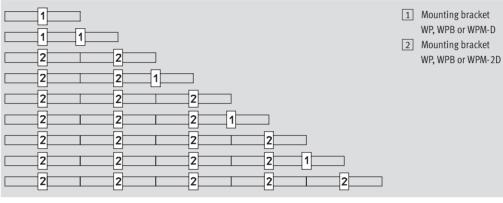
Suggested placement of wall mounting brackets when mounting air preparation combinations

Number of units

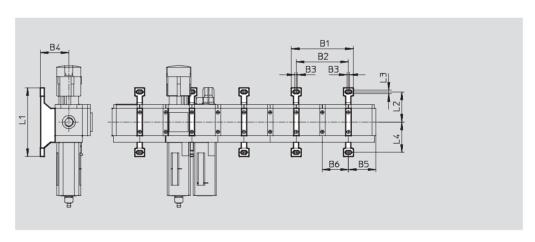
1 unit: 40 mm

2 units: 80 mm

1 2 3 4 5 6 7 8 9 10



Mounting dimensions



Туре	B1	B2	В3	B4	B5	B6	L1	L2	L3	L4
MS4-WP				44			106	46.5		46.7
MS4-WPB	95.2	80	4	66	41.9	40	106	40.5	5.6	40.7
MS4-WPMD				44			92.8	34.8		40



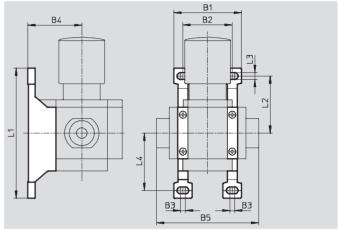
Accessories

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

Material: Die-cast aluminum





Dimensions	Dimensions and Ordering Data												
B1	B2	В3	B4	B5	L1	L2	L3		Weight [g]	Part No.	Туре		
55.2	40.2	4	44	83.4	106	46.5	5.6	46.7	39	532184	MS4-WP		

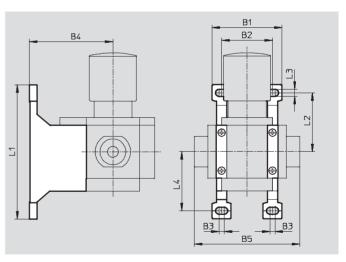
Mounting bracket MS4-WPB

- 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:







Dimensions	and Orderin	g Data									
B1	B2	В3	B4	B5	L1	L2	L3		Weight [g]	Part No.	Туре
55.2	40.2	4	66	83.4	106	46.5	5.6	46.7	55	526063	MS4-WPB



Accessories

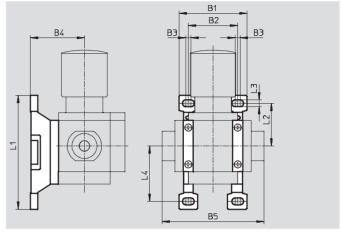
Mounting bracket MS4-WPM

- 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







Dimension	ns and Orde	ering Data										
B1	B2	В3	B4	B5	L1	L2	L3	L4	Clearance	Weight	Part No.	Туре
										[g]		
55.2	40	4	4.4	83.4	92.8	34.8	5.6	45.2	40	45	526060	MS4-WPM-D
95.2	80	4	4 44 123.4 92	92.0	74.0	5.0	43.2	80	55	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



Replacement Parts

Ordering Data – Wearing Parts Kits			
Size	Description	Part No.	Туре
MS4	Flat seal, O-rings, screws	673641	MS4-LFM



Ordering Data - Filter Cartridges			
Size	Filtration grade [μm]	Part No.	Туре
MS4	0.01	162674	MS4/D-MINI-LFM-A
	1	162677	MS4/D-MINI-LFM-B

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





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: 1/8 NPT, 1/4 NPT, 3/8 NPT

• Supply pressure

- For manual drain: 0 ... 235 psi

For semiautomatic drain: 22 ... 176 psiFor fully automatic drain: 29 ... 176 psi

• Flow rate: 4.2 ... 6.4 scfm

Product R	Range Overview												
Туре	Pneumatic conn	ections	Filtration grade [µm]				Bowl guard		Bowl drai	in	Contamination control	Reverse flow	
	Body thread	Port plate	0.01	1	5	40	Plastic bowl guard	bowl toms troms		Fully automatic	Differential pressure indicator	Flow direction from right to left	
MS4N		AG	Α	В	С	E	R	U	М	Н	V	DA	Z
LFM	1/8 NPT, 1/4 NPT	1/8 NPT, 1/4 NPT, 3/8 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	
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Replacement Parts	→ 276

→ www.festo.com/catalog/ms4n-lfm

FESTO

Technical Data

ISO Symbol



Manual bowl drain without differential pressure indicator



With differential pressure indicator



Semi or fully automatic bowl drain without differential pressure indicator



With differential pressure indicator



General Technical Dat	a								
Pneumatic connection 1, 2			1/8 NPT	1/4 NPT					
Filtration grade [µm]			0.01 (micro filter LFM-A, air purity class a	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	[psi]	0 206 (manual drain)						
	Н	[psi]	22 17 (semiautomatic drain)						
	V	[psi]	29 176 (fully automatic drain)						

Standard Nominal Flow Rate qnN ¹⁾ and Standard Flow Rate qn [scfm]										
Pneumatic connection 1, 2	1/8 NPT	1/4 NPT								
Micro filter LFM-A	Micro filter LFM-A									
qnN 1 2	4.2	4.2								
qn min	1.9	1.9								
qn max	12.7	12.7								
Fine filter LFM-B										
qnN 1 2	6.4	6.4								
qn min	1.9	1.9								
qn max	12.7	12.7								

¹⁾ Measured at p1 = 88 psi and Δp = 1.0 psi



Technical Data

Operating and Environment	Operating and Environmental Conditions								
Bowl drain		Manual	Semiautomatic	Fully automatic					
		M	Н	V					
Operating medium micro filt	er LFM-A	Compressed air, filtered, unlubricated, f	iltration grade 1 μm						
Operating medium fine filter	LFM-B	Compressed air, filtered, unlubricated, f	iltration grade 5 μm						
Max. condensate volume	[in ³]	1.16 (with plastic bowl guard)	I.16 (with plastic bowl guard)						
		1.53 (with metal bowl)							
Bowl guard		Plastic bowl guard							
		Metal bowl							
Ambient temperature	[°F]	14 140	41 140	41 140					
Temperature of medium	[°F]	14 140	41 140	41 140					
Storage temperature	[°F]	14 140	14 140	14 140					
Assembly position		Vertical ±5°							
Corrosion resistance	CRC ¹⁾	2							

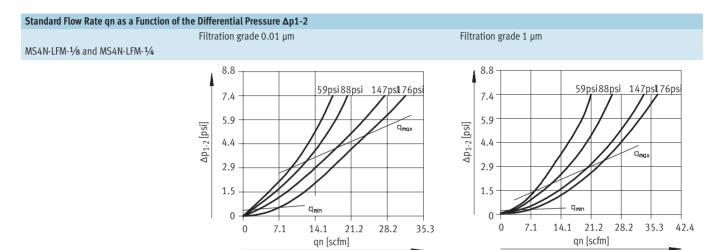
¹⁾ Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or

Weights [lb]	
With plastic bowl guard	0.38
With metal bowl	0.70

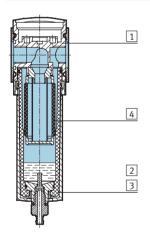
- Wearing parts kits → 276
- Filter cartridges → 276
- For spare parts go to: www.festo.com/en/spare_parts_service



Technical Data



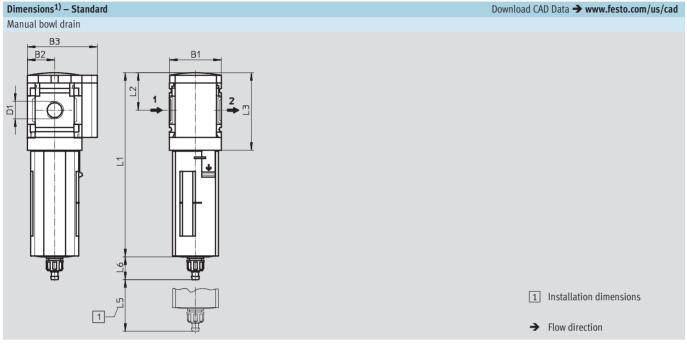
Materials Sectional view



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



Dimensional Drawings



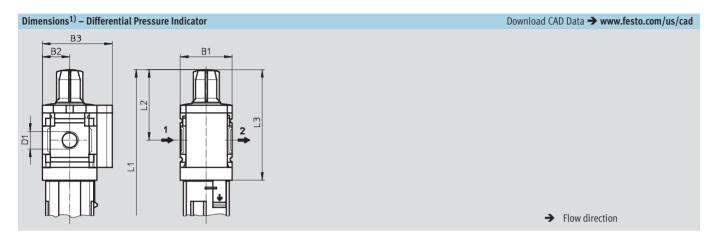
Туре	B1	B2	В3	D1	L1		L2	L3	L5	Le	6								
					Bowl guard		Bowl guard		Bowl guard		Bowl guard		Bowl guard					Bowl §	guard
					Plastic Metal					Plastic	Metal								
MS4N-LFM-1/8	1 57	0.83	2.13	1/8 NPT	5.59	6.30	1.14	2.36	0.98	0.70	0.70								
MS4N-LFM-1/4	1.57	0.63	2.13	1/4 NPT	0.09	0.30	1.14	2.30	0.96	0.70	0.70								

¹⁾ Dimensions are in inches, unless otherwise noted.

2007/10 – Subject to change – MS Series

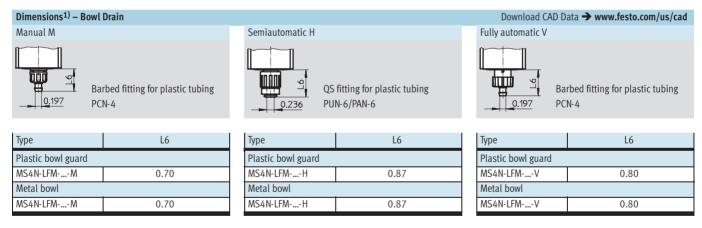


Dimensional Drawings



Туре	B1	B2	В3	D1	L: Bowl	L2	L3	
					Plastic	Metal		
MS4N-LFM-1/8DA	1.57	0.83	2.13	½ NPT	6.61	7.32	2.17	3.39
MS4N-LFM-1/4DA	1.57	0.00	2.17	½ NPT	0.01	7.52	2.17	5.53

¹⁾ Dimensions are in inches, unless otherwise noted.



¹⁾ Dimensions are in inches, unless otherwise noted.



Ordering Data – Pre-configured Products

Ordering Data								
Without differential pressu	re indicator							
Bowl drain	Connection	Micro filter		Fin	ne filter			
		Filtration grade 0.01 µm		Fili	Filtration grade 1 µm			
		Part No. Type	LT	Pa	rt No. Type	LT		
Plastic bowl guard								
Manual	1/8 NPT	536701 MS4N-LFM-1/8-ARM	1D	53	86699 MS4N-LFM-1/8-BRM	1D		
	1/4 NPT	531812 MS4N-LFM-1/4-ARM	1D	53	1810 MS4N-LFM-1/4-BRM	1D		
Metal bowl								
Fully automatic	1/8 NPT	539210 MS4N-LFM-1/8-AUV	Q	53	9206 MS4N-LFM-1/8-BUV	Q		
	1/4 NPT	535776 MS4N-LFM-1/4-AUV	Q	53	35774 MS4N-LFM-1/4-BUV	Q		

Ordering Data									
With differential pressure in	dicator								
Bowl drain	Connection	Micro filter	Micro filter			Fine filter			
		Filtration gr	rade 0.01 µm			Filtration grade 1 µm			
		Part No.	Туре	LT		Part No. Type	LT		
Plastic bowl guard									
Manual	1/8 NPT	536829	MS4N-LFM-1/8-ARM-DA	1D		536825 MS4N-LFM-1/8-BRM-DA	1D		
	1/4 NPT	536830	MS4N-LFM-1/4-ARM-DA	1D		536826 MS4N-LFM-1/4-BRM-DA	1D		
Metal bowl									
Fully automatic	1/8 NPT	537221	MS4N-LFM-1/8-AUV-DA	Q		537217 MS4N-LFM-1/8-BUV-DA	Q		
	1/4 NPT	537222	MS4N-LFM-1/4-AUV-DA	Q		537218 MS4N-LFM-1/4-BUV-DA	Q		

LT = Lead time	1D typically ships same day/next day	1W typically ships within 1 week	Q request a quote for lead time
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2007/10 - Subject to change - MS Series



Ordering Data – Configurable Products

M Mandatory D	M Mandatory Data											
Part No.	Series	Size	Thread	Function		Connection size		Filtration grade		Bowl		
											j	
527698	MS	4	N	LFM		1/8, 1/4,		В		R		
						AQK, AQN, AQP		A		U		
Order example												
527698	MS	4	N	- LFM	_	AQK] –	В	-	U		

irid dimension	[mm]	40	Conditions	Code	Enter code
A Part No.		527698			
Series		Standard		MS	MS
Size		4		4	4
Thread		NPT thread		N	N
Function		Fine and micro filter		-LFM	-LFM
Connection size		Body thread 1/8 NPT		-1/8	
		Body thread 1/4 NPT		-1/4	
		Port plate 1/8 NPT (dimensions → 272)		-AQK	
		Port plate ¼ NPT (dimensions → 272)		-AQN	
		Port plate 3/8 NPT (dimensions → 272)		-AQP	
Filtration grade		1 μm		-B	
		0.01 μm		-A	
Bowl		Plastic bowl with plastic bowl guard		-R	
1		Metal bowl		-U	

 Transfer order code

 527698
 MS
 4
 N
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 _
 _
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Ordering Data – Configurable Products

→	M Mandatory Data	O Options		
	Bowl drain	Filter change sensor	Type of mounting	Reverse flow direction
	M	DA	WP	Z
	Н		WPM	
	V		WB	
			WBM	
_	V -	-	WP -	Z
ı				

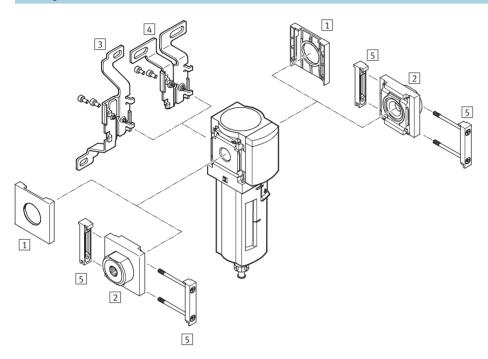
Or	dering Table				
Gr	id dimension [mm]	40	Conditions	Code	Enter code
T	Bowl drain	Manual		-M	
M		Semiautomatic (P1 max. 176 psi)		-H	
		Fully automatic (P1 max. 176 psi)	1	-V	
0	Filter change sensor	Differential pressure indicator, optical		-DA	
	Type of mounting	Mounting bracket (dimensions → 273)	2	-WP	
		Mounting bracket (dimensions → 273)	2	-WPM	
		Mounting bracket (dimensions → 270)		-WB	
		Mounting bracket (dimensions → 270)		-WBM	
	Reverse flow direction	Flow direction from right to left		-Z	

Transfer order code

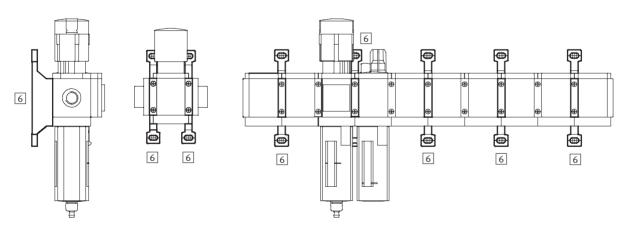
² **WP, WPM** Only with port plate AQK, AQN or AQP

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

Moun	ting Attachments and Accessories					
		Single unit		Combination unit >	2.1-49	→ Page
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap		_	-	_	271
	MS4-END	_		_		
2	Port plate	_		_		272
	MS4N-AQ		_		_	
3	Mounting bracket		_	_	_	270
	MS4-WB	_	_			
4	Mounting bracket			_	_	270
	MS4-WBM	_	_			
5	Body connector	_			_	272
	MS4-MV		_	_	_	
6	Mounting bracket	_				273
	MS4-WP/WPB/WPM		_	_	_	

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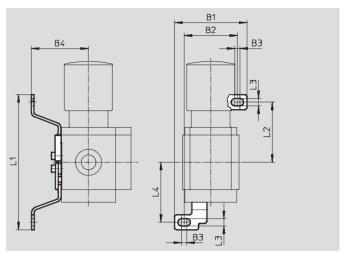
Accessories

3 Mounting bracket MS4-WB

For wall mounting

Material: Steel





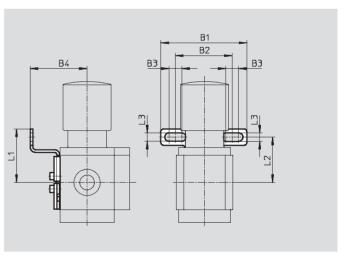
Dimensions a	Dimensions and Ordering Data														
B1	B2	В3	B4	L1	L2	L3	L4	Weight [lb]	Part No.	Туре					
2.21	1.62	0.16	1.74	4.12	1.83	0.22	1.79	0.09	532185	MS4-WB					

4 Mounting bracket MS4-WBM

• For wall mounting

Material: Steel





Dimensions an	Dimensions and Ordering Data														
B1	B2	В3	B4	L1	L2		Weight [lb]	Part No.	Туре						
2.62	1.73	0.39	1.73	1.63	1.38	0.26	0.10	526062	MS4-WBM						

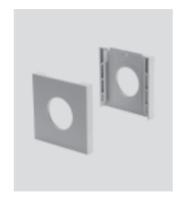


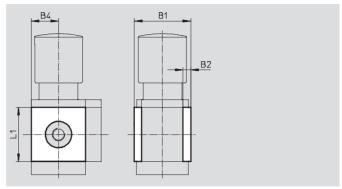
Accessories

1 Cover cap MS4-END

• Can be used to cover the body sides of the first and last module if port plates are not used.

Material: Reinforced polyamide Free of copper and PTFE





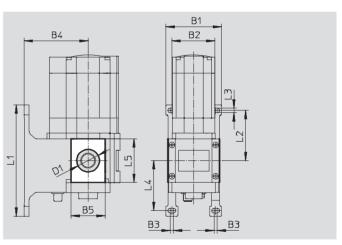
Dimensions and Ordering Data												
B1	B2	B4	L1	Part No.	Туре							
1.72	0.24	0.83	1.65	538779	MS4-END							

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





Dimensi	Dimensions and Ordering Data														
B1	B2	В3	B4		B5	D1	L1	L2	L3	L4	L5	CRC ¹⁾	Weight	Part No.	Туре
			WP	WPB		Ø							[lb]		
2.17	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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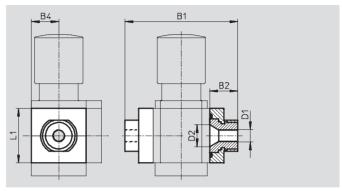
Accessories

2 Port plate MS4N-AQ...

Adapter for pneumatic connection

Material: Aluminum





Dimensions and C	Dimensions and Ordering Data													
B1	B2	В4	D1	D2	L1	Weight [lb]	Part No.	Туре						
			½ NPT				526065	MS4N-AQK						
3.29	0.85	0.83	½ 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		
	Part No.	Туре
[lb]		
0.07	532798	MS4-MV



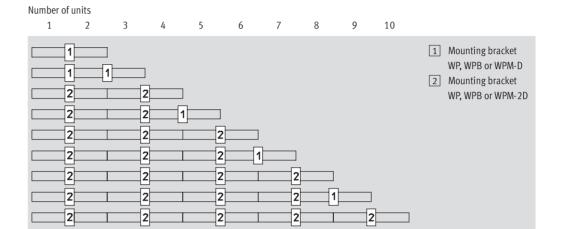
Accessories

6 Mounting Bracket MS4-WP...

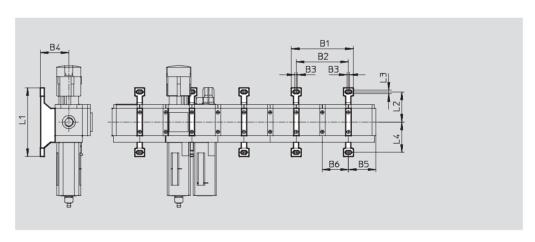
Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 1.575 in

2 units: 3.15 in



Mounting dimensions



Туре	B1	B2	В3	B4	B5	B6	L1	L2	L3	L4
MS4-WP				1.73			4.17	1.83		1.84
MS4-WPB	3.75	3.15	0.16	2.60	1.65	1.57	4.1/	1.0)	0.22	1.04
MS4-WPMD				1.73			3.65	1.37		1.57



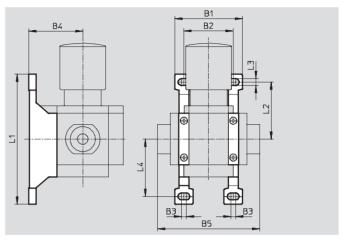
Accessories

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

Material: Die-cast aluminum





Dimension	Dimensions and Ordering Data											
B1	B2	В3	B4	B5	L1	L2	L3	L4	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	

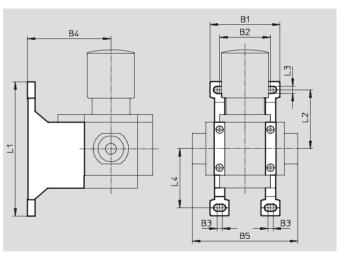
Mounting bracket MS4-WPB

- 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 and Ordering Data											
B1	B2	В3	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

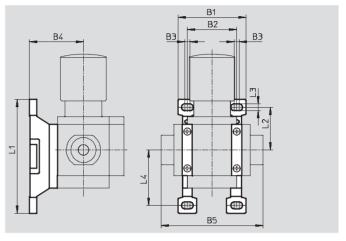
- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

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



Die-cast aluminum





Dimension	Dimensions and Ordering Data											
B1	B2	В3	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	0.10	1./)	4.86	1.5/	0.22	1./0	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



Replacement Parts

Ordering Data – Wearing Parts Kits								
Size	Description	Part No.	Туре					
MS4	Flat seal, O-rings, screws	673641	MS4-LFM					



Ordering Data – Filter Cartridges									
Size	Filtration grade [μm]	Part No.	Туре						
MS4	0.01	162674	MS4/D-MINI-LFM-A						
	1	162677	MS4/D-MINI-LFM-B						

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

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