

Standard Filters MS4-LF – Metric Series



Standard filters, with filtration grades of 5 microns or 40 microns, are equipped with a water separator that cleans the compressed air of impurities, rust, and condensate. For pre-filtering in pneumatic systems or for special applications.

- Pneumatic connection: G1/8, G1/4, G3/8
- Supply pressure
 - For manual drain: 0 ... 14 bar
 - For semiautomatic drain: 1.5 ... 12 bar
 - For fully automatic drain: 2 ... 12 bar
- Flow rate: 1,000 ... 1,700 l/min

Product Range Overview													
Type	Pneumatic connections		Filtration grade [µm]				Bowl guard		Bowl drain			Contamination control	Reverse 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...	A	B	C	E	R	U	M	H	V	DA	Z
LF	G1/8, G1/4	G1/8, G1/4, G3/8	-	-	■	■	■	■	■	■	■	-	■

Features

- Sintered filter with centrifugal separation removes contamination, rust and condensate from the compressed air.
- High flow rate with minimal pressure drop
- Replaceable filter cartridges

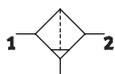
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- www.festo.com/catalog/ms4-lf

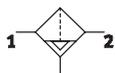
Standard Filters MS4-LF – Metric Series

Technical Data

ISO Symbol



Manual bowl drain



Semi or fully automatic bowl drain



General Technical Data			
Pneumatic connection 1, 2		G1/8	G1/4
Filtration grade	[µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)	
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)	
Supply pressure	M [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⁾ [l/min]			
Pneumatic connection 1, 2		G1/8	G1/4
Filtration grade	5 µm	1,000	1,300
	40 µm	1,100	1,700

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

Standard Filters MS4-LF – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions			
Bowl drain	Manual M	Semiautomatic H	Fully automatic V
Operating medium	Compressed air		
Max. condensate volume [cm ³]	19 (with plastic bowl guard) 25 (with metal bowl)		
Bowl guard	Plastic bowl guard		
	Metal bowl		
Ambient temperature [°C]	-10 ... +60	+5 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60	-10 ... +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 plastic bowl guard	190
With metal bowl	350

- Wearing parts kits → 222
- Filter cartridges → 222
- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Filters MS4-LF – Metric Series

Technical Data

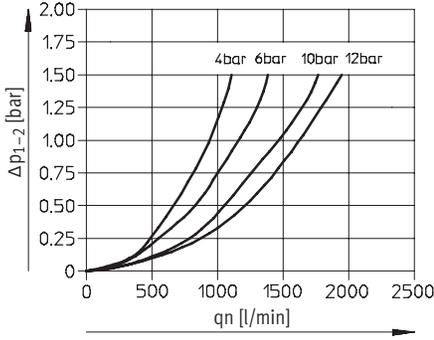
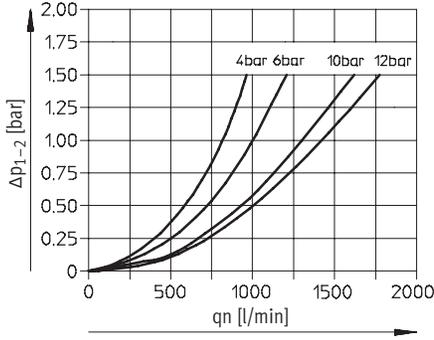


Standard Flow Rate q_n as a Function of the Differential Pressure Δp_{1-2}

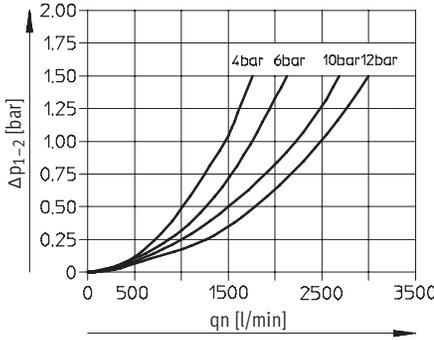
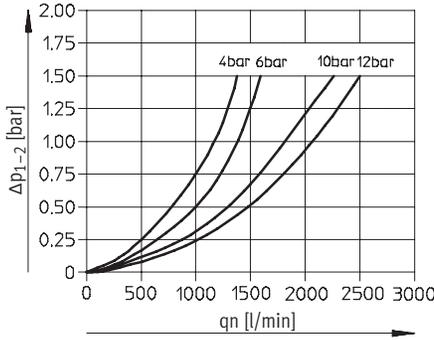
Filtration grade 5 μm

Filtration grade 40 μm

MS4-LF-1/8



MS4-LF-1/4



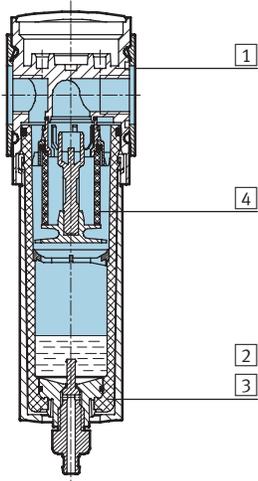
Standard Filters MS4-LF – Metric Series

Technical Data



Materials

Sectional view



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

Standard Filters MS4-LF – Metric Series

Dimensional Drawings



Dimensions¹⁾ – Standard Download CAD Data → www.festo.com/us/cad

Manual bowl drain

1 Installation dimensions
→ Flow direction

Type	B1	B2	B3	D1	L1		L2	L3	L5	L6	
					Bowl guard					Plastic	Metal
					Plastic	Metal					
MS4-LF-1/8	40	21	54	G1/8	142.8	159.4	29	60.5	25	17.7	17.7
MS4-LF-1/4				G1/4							

1) Dimensions are in millimeters, unless otherwise noted.

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

Dimensions¹⁾ – Bowl Drain Download CAD Data → www.festo.com/us/cad

Manual M

Barbed fitting for plastic tubing
PCN-4

Semiautomatic H

QS fitting for plastic tubing
PUN-6/PAN-6

Fully automatic V

Barbed fitting for plastic tubing
PCN-4

Type	L6
Plastic bowl guard	
MS4-LF-...-M	17.7
Metal bowl	
MS4-LF-...-M	17.7

Type	L6
Plastic bowl guard	
MS4-LF-...-H	22.1
Metal bowl	
MS4-LF-...-H	22.1

Type	L6
Plastic bowl guard	
MS4-LF-...-V	20.4
Metal bowl	
MS4-LF-...-V	20.4

1) Dimensions are in millimeters, unless otherwise noted.

Standard Filters MS4-LF – Metric Series

Ordering Data – Pre-configured Products



Ordering Data							
Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	G $\frac{1}{8}$	529403	MS4-LF- $\frac{1}{8}$ -CRM	1D	529407	MS4-LF- $\frac{1}{8}$ -ERM	Q
	G $\frac{1}{4}$	529395	MS4-LF- $\frac{1}{4}$ -CRM	1D	529399	MS4-LF- $\frac{1}{4}$ -ERM	Q
Fully automatic	G $\frac{1}{8}$	529405	MS4-LF- $\frac{1}{8}$ -CRV	1D	529409	MS4-LF- $\frac{1}{8}$ -ERV	Q
	G $\frac{1}{4}$	529397	MS4-LF- $\frac{1}{4}$ -CRV	1D	529401	MS4-LF- $\frac{1}{4}$ -ERV	Q
Metal bowl							
Manual	G $\frac{1}{8}$	535638	MS4-LF- $\frac{1}{8}$ -CUM	Q	535644	MS4-LF- $\frac{1}{8}$ -EUM	Q
	G $\frac{1}{4}$	535654	MS4-LF- $\frac{1}{4}$ -CUM	Q	535660	MS4-LF- $\frac{1}{4}$ -EUM	Q
Fully automatic	G $\frac{1}{8}$	535640	MS4-LF- $\frac{1}{8}$ -CUV	Q	535642	MS4-LF- $\frac{1}{8}$ -EUV	Q
	G $\frac{1}{4}$	535656	MS4-LF- $\frac{1}{4}$ -CUV	Q	535658	MS4-LF- $\frac{1}{4}$ -EUV	Q

LT = Lead time

1D typically ships same day/next day

1W typically ships within 1 week

Q request a quote for lead time

Standard Filters MS4-LF – Metric Series

Ordering Data – Configurable Products



M Mandatory Data →

Part No.	Series	Size	Function	Connection size	Filtration grade	Bowl
527695	MS	4	LF	1/8, 1/4, AGA, AGB, AGC	E C	R U
Order example						
527695	MS	4	- LF	- AGB	- E	- R

Ordering Table

Grid dimension	[mm]	40	Conditions	Code	Enter code
M Part No.	527695				
Series	Standard			MS	MS
Size	4			4	4
Function	Filters			-LF	-LF
Connection size	Body thread G1/8			-1/8	
	Body thread G1/4			-1/4	
	Port plate G1/8 (dimensions → 218)			-AGA	
	Port plate G1/4 (dimensions → 218)			-AGB	
	Port plate G3/8 (dimensions → 218)			-AGC	
Filtration grade	40 µm			-E	
	5 µm			-C	
Bowl	Plastic bowl with plastic bowl guard			-R	
	Metal bowl			-U	

Transfer order code

527695	MS	4	- LF			
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Standard Filters MS4-LF – Metric Series



Ordering Data – Configurable Products

→ M Mandatory Data	O Options	
Bowl drain M H V	Type of mounting WP WPM WB WBM	Reverse flow direction Z
- M	- WP	- Z

Ordering Table			
Grid dimension	[mm]	40	Conditions Code Enter code
M	Bowl drain	Manual	-M
		Semiautomatic (P1 max. 12 bar)	-H
		Fully automatic (P1 max. 12 bar)	-V
O	Type of mounting	Mounting bracket (dimensions → 219)	1 -WP
		Mounting bracket (dimensions → 219)	1 -WPM
		Mounting bracket (dimensions → 216)	-WB
		Mounting bracket (dimensions → 216)	-WBM
	Reverse flow direction	Flow direction from right to left	-Z

1 WP, WPM Only with port plate AGA, AGB or AGC

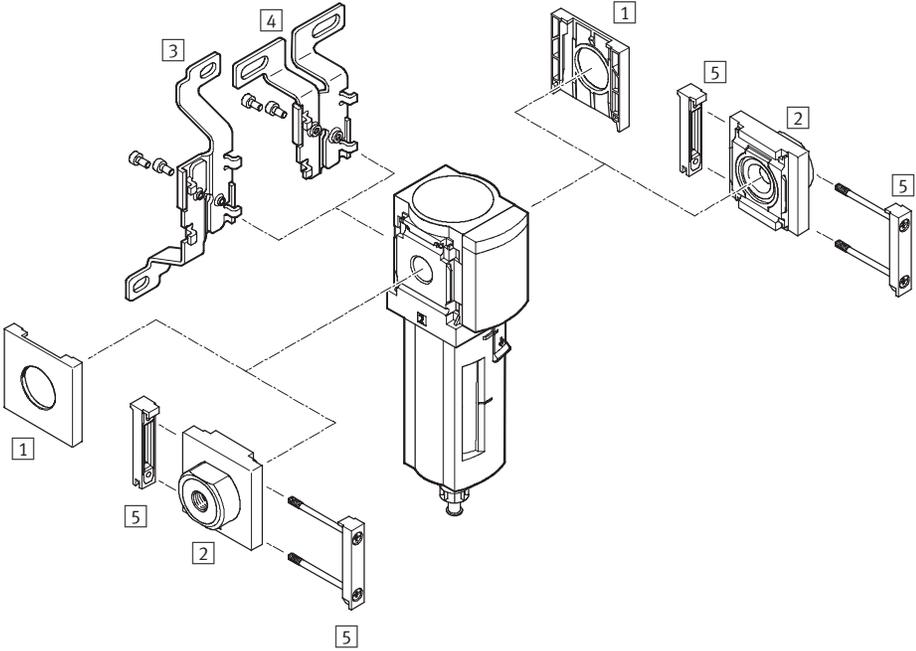
Transfer order code

- - -

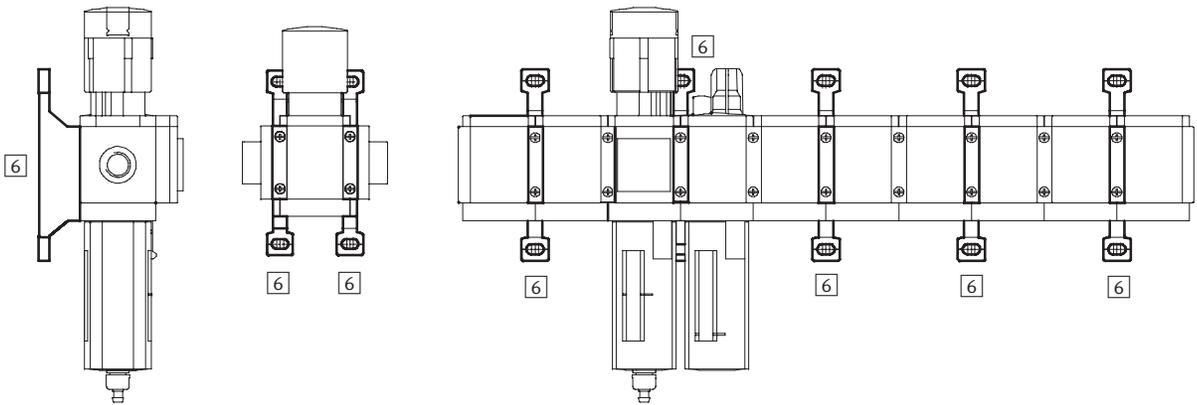
Standard Filters MS4-LF – Metric Series

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.



Standard Filters MS4-LF – Metric Series

Accessories Overview



Mounting Attachments and Accessories						
		Single unit		Combination unit → 2.1-1		→ Page
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap MS4-END	■	-	■	-	217
2	Port plate MS4-AG...	-	■	-	■	218
3	Mounting bracket MS4-WB	■	■	-	-	216
4	Mounting bracket MS4-WBM	■	■	-	-	216
5	Body connector MS4-MV	-	■	■	■	218
6	Mounting bracket MS4-WP/WPB/WPM	-	■	■	■	219

Standard Filters MS4-LF – Metric Series

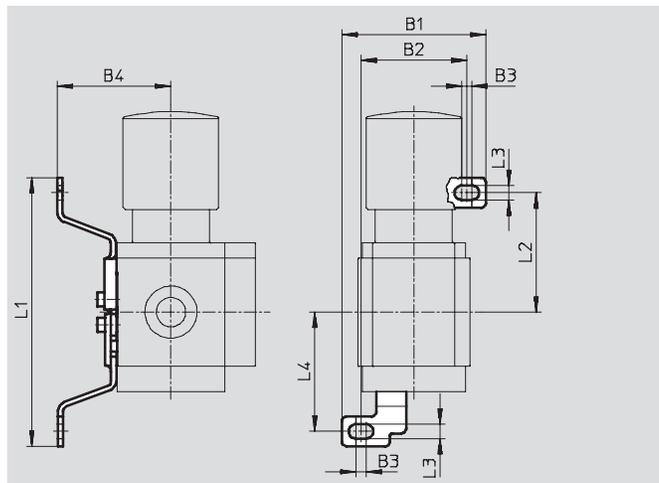


Accessories

3 Mounting bracket MS4-WB

- For wall mounting

Material:
Steel

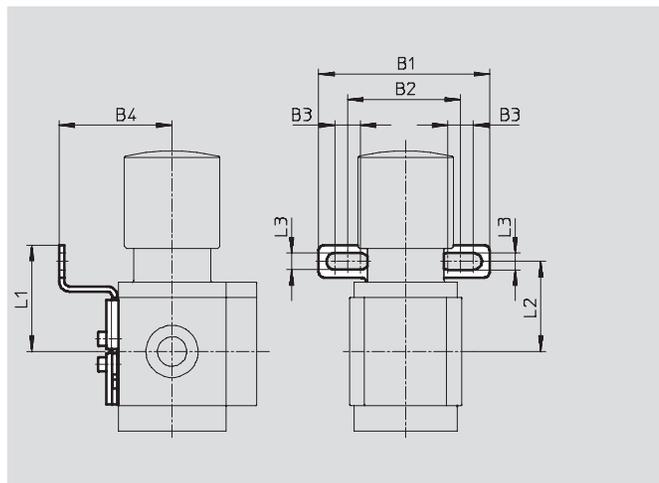


Dimensions and Ordering Data										
B1	B2	B3	B4	L1	L2	L3	L4	Weight [g]	Part No.	Type
56.2	41.2	4	44.2	104.6	46.6	5.6	46.5	46	532185	MS4-WB

4 Mounting bracket MS4-WBM

- For wall mounting

Material:
Steel



Dimensions and Ordering Data									
B1	B2	B3	B4	L1	L2	L3	Weight [g]	Part No.	Type
66.5	44	10	44	41.3	35	6.5	48	526062	MS4-WBM

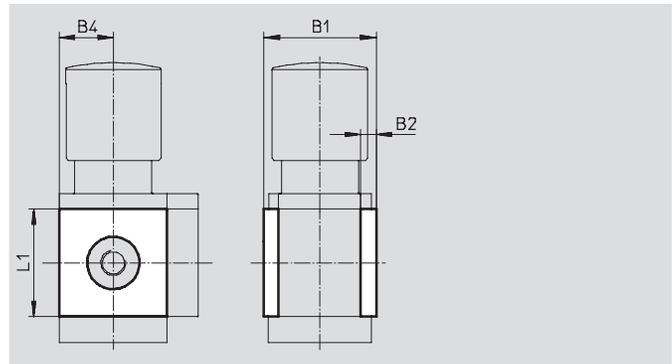
Standard Filters MS4-LF – Metric Series

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

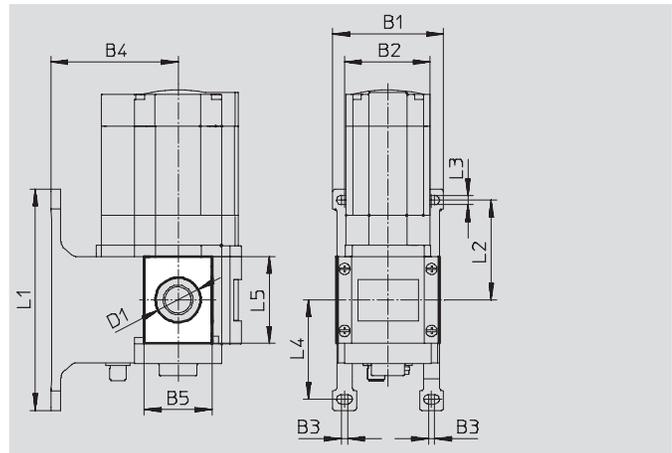
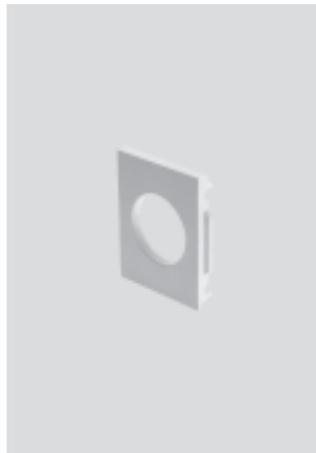


Dimensions and Ordering Data						
B1	B2	B4	L1	Part No.	Type	
43.6	6	21	42	538779	MS4-END	

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



Dimensions and Ordering Data															
B1	B2	B3	B4		B5	D1 ∅	L1	L2	L3	L4	L5	CRC ¹⁾	Weight [g]	Part No.	Type
			WP	WPB											
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.

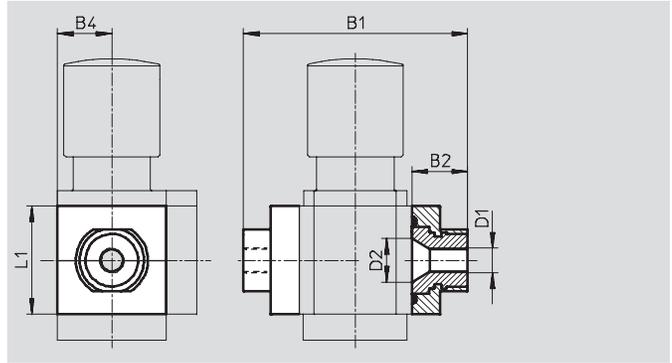
Filters MS4-LF/LFM/LFX – Metric Series

Accessories

2 Port plate MS4-AG...

- Adapter for pneumatic connection

Material:
Aluminum



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

5 Body connector MS4-MV

- For connecting modules

Material:
Stainless steel/polyacetate



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

Standard Filters MS4-LF – Metric Series

Accessories

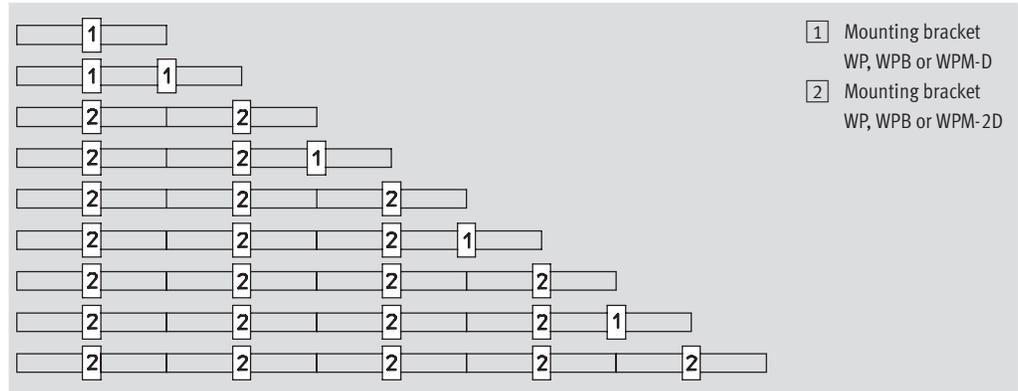
6 Mounting Bracket MS4-WP... Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 40 mm

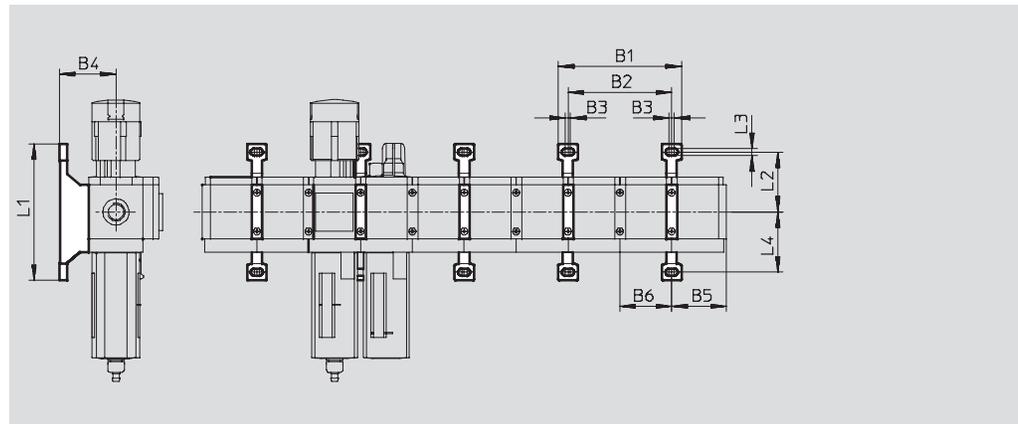
2 units: 80 mm

Number of units

1 2 3 4 5 6 7 8 9 10



Mounting dimensions



Type	B1	B2	B3	B4	B5	B6	L1	L2	L3	L4
MS4-WP	95.2	80	4	44	41.9	40	106	46.5	5.6	46.7
MS4-WPB				66						
MS4-WPM-...D				44						

Standard Filters MS4-LF – Metric Series

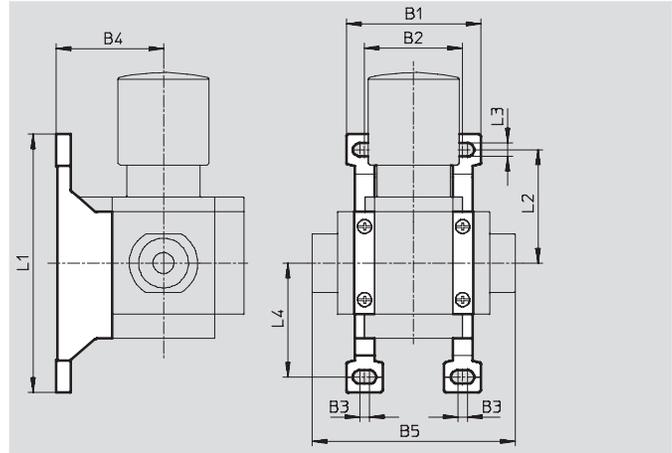


Accessories

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

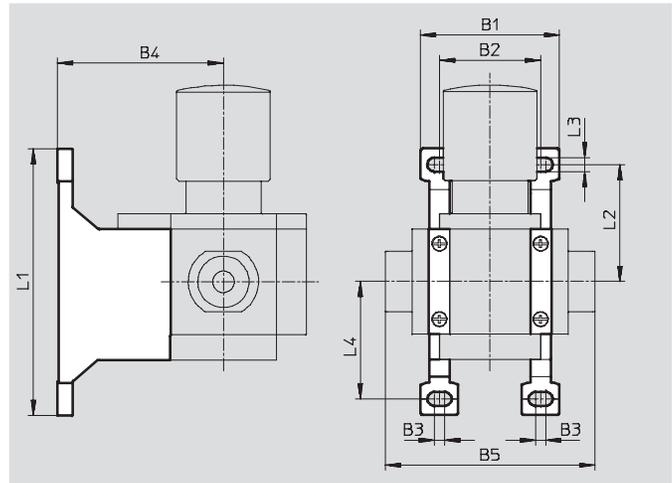


Dimensions and Ordering Data											
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [g]	Part No.	Type
55.2	40.2	4	44	83.4	106	46.5	5.6	46.7	39	532184	MS4-WP

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:
Die-cast aluminum



Dimensions and Ordering Data											
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [g]	Part No.	Type
55.2	40.2	4	66	83.4	106	46.5	5.6	46.7	55	526063	MS4-WPB

Standard Filters MS4-LF – Metric Series

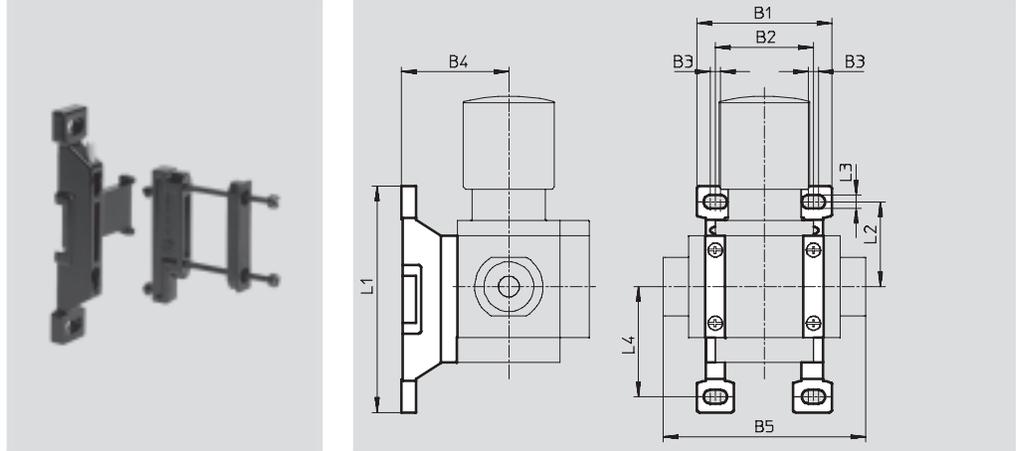
Accessories

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 [g]	Part No.	Type
55.2	40	4	44	83.4	92.8	34.8	5.6	45.2	40	45	526060	MS4-WPM-D
95.2	80			123.4					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.	Type
MS4	532800	MS4-MVM

Standard Filters MS4-LF – Metric Series

FESTO

Replacement Parts

Ordering Data – Wearing Parts Kits			
Size	Description	Part No.	Type
MS4	O-rings, screws, sealing ring	673639	MS4-LF



Ordering Data – Filter Cartridges			
Size	Filtration grade [µm]	Part No.	Type
MS4	5	534501	MS4-LFP-C
	40	534502	MS4-LFP-E

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

Standard Filters MS4N-LF – Inch Series



Standard filters, with filtration grades of 5 microns or 40 microns, are equipped with a water separator that cleans the compressed air of impurities, rust, and condensate. For pre-filtering in pneumatic systems or for special applications.

- Pneumatic connection: 1/8 NPT, 1/4 NPT, 3/8 NPT
- Supply pressure
 - For manual drain: 0 ... 235 psi
 - For semiautomatic drain: 22 ... 176 psi
 - For fully automatic drain: 29 ... 176 psi
- Flow rate: 35.3 ... 60.0 scfm

Product Range Overview													
Type	Pneumatic connections		Filtration grade [µm]				Bowl guard		Bowl drain			Contamination control	Reverse 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
MS4N		AG...	A	B	C	E	R	U	M	H	V	DA	Z
LF	1/8 NPT, 1/4 NPT	1/8 NPT, 1/4 NPT, 3/8 NPT	-	-	■	■	■	■	■	■	■	-	■

Features

- Sintered filter with centrifugal separation removes contamination, rust and condensate from the compressed air.
- High flow rate with minimal pressure drop
- Replaceable filter cartridges

Contents

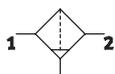
- Technical Data → 224
- Dimensional Drawings → 228
- Ordering Data → 229
- Accessories → 232
- Replacement Parts → 240

→ www.festo.com/catalog/ms4n-lf

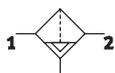
Standard Filters MS4N-LF – Inch Series

Technical Data

ISO Symbol



Manual bowl drain



Semi or fully automatic bowl drain



General Technical Data			
Pneumatic connection 1, 2		1/8 NPT	1/4 NPT
Filtration grade	[µm]	5 (air purity class at the output 3.7.- to DIN ISO 8573-1) 40 (air purity class at the output 5.7.- to DIN ISO 8573-1)	
Supply pressure	M [psi]	0 ... 206 (manual drain)	
	H [psi]	22 ... 176 (semiautomatic drain)	
	V [psi]	29 ... 176 (fully automatic drain)	

Standard Nominal Flow Rate qnN ¹⁾ [scfm]			
Pneumatic connection 1, 2		1/8 NPT	1/4 NPT
Filtration grade	5 µm	35.3	45.9
	40 µm	38.8	60.0

1) Measured at p₁ = 88 psi and Δp = 15 psi

Standard Filters MS4N-LF – Inch Series

Technical Data



Operating and Environmental Conditions			
Bowl drain	Manual M	Semiautomatic H	Fully automatic V
Operating medium	Compressed air		
Max. condensate volume [in ³]	1.16 (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 lubricating agents.

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

- Wearing parts kits → 240
- Filter cartridges → 240
- For spare parts go to: www.festo.com/en/spare_parts_service

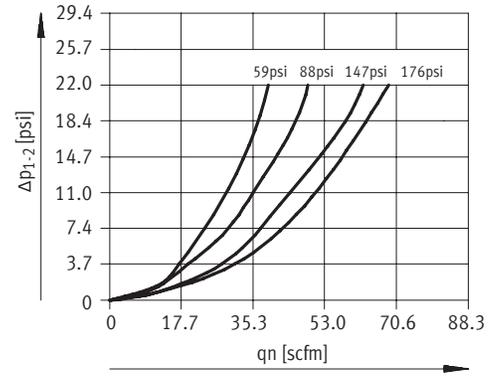
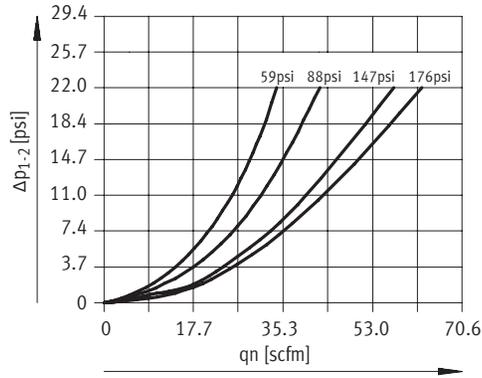
Standard Filters MS4N-LF – Inch Series

Technical Data

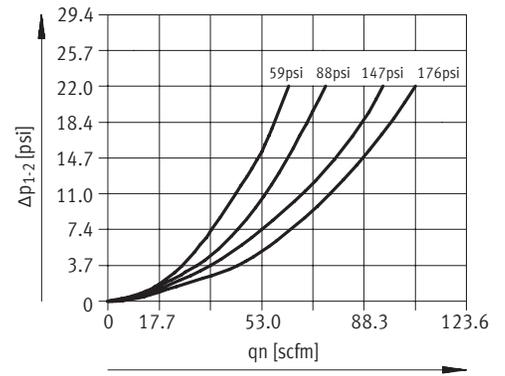
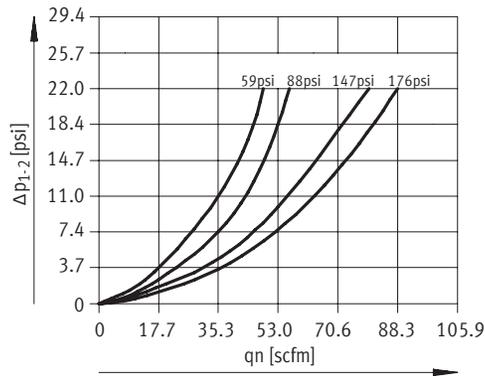


Standard Flow Rate q_n as a Function of the Differential Pressure Δp_{1-2}

MS4N-LF-1/8 Filtration grade 5 μm Filtration grade 40 μm



MS4N-LF-1/4



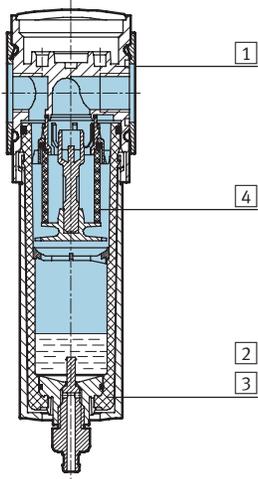
Standard Filters MS4N-LF – Inch Series

Technical Data



Materials

Sectional view



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

Standard Filters MS4N-LF – Inch Series

Dimensional Drawings



Dimensions¹⁾ – Standard Download CAD Data → www.festo.com/us/cad

Manual bowl drain

1) Installation dimensions
→ Flow direction

Type	B1	B2	B3	D1	L1		L2	L3	L5	L6	
					Bowl guard					Plastic	Metal
					Plastic	Metal					
MS4N-LF-1/8	1.57	0.83	2.13	1/8 NPT	5.62	6.28	1.14	2.38	0.98	0.70	0.70
MS4N-LF-1/4				1/4 NPT							

1) Dimensions are in inches, unless otherwise noted.

Dimensions¹⁾ – Bowl Drain Download CAD Data → www.festo.com/us/cad

Manual M		Semiautomatic H		Fully automatic V	
	Barbed fitting for plastic tubing PCN-4		QS fitting for plastic tubing PUN-6/PAN-6		Barbed fitting for plastic tubing PCN-4
Type	L6	Type	L6	Type	L6
Plastic bowl guard		Plastic bowl guard		Plastic bowl guard	
MS4N-LF-...-M	0.70	MS4N-LF-...-H	0.87	MS4N-LF-...-V	0.80
Metal bowl		Metal bowl		Metal bowl	
MS4N-LF-...-M	0.70	MS4N-LF-...-H	0.87	MS4N-LF-...-V	0.80

1) Dimensions are in inches, unless otherwise noted.

Standard Filters MS4N-LF – Inch Series

Ordering Data – Pre-configured Products



Ordering Data							
Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	1/8 NPT	531490	MS4N-LF-1/8-CRM	1D	531486	MS4N-LF-1/8-ERM	Q
	1/4 NPT	531489	MS4N-LF-1/4-CRM	1D	531485	MS4N-LF-1/4-ERM	Q
Fully automatic	1/8 NPT	531494	MS4N-LF-1/8-CRV	1D	531482	MS4N-LF-1/8-ERV	Q
	1/4 NPT	531493	MS4N-LF-1/4-CRV	1D	531481	MS4N-LF-1/4-ERV	Q
Metal bowl							
Manual	1/8 NPT	535670	MS4N-LF-1/8-CUM	Q	535676	MS4N-LF-1/8-EUM	Q
	1/4 NPT	535686	MS4N-LF-1/4-CUM	Q	535692	MS4N-LF-1/4-EUM	Q
Fully automatic	1/8 NPT	535672	MS4N-LF-1/8-CUV	Q	535674	MS4N-LF-1/8-EUV	Q
	1/4 NPT	535688	MS4N-LF-1/4-CUV	Q	535690	MS4N-LF-1/4-EUV	Q

LT = Lead time

1D typically ships same day/next day

1W typically ships within 1 week

Q request a quote for lead time

Standard Filters MS4N-LF – Inch Series

Ordering Data – Configurable Products



M Mandatory Data →

Part No.	Series	Size	Thread	Function	Connection size	Filtration grade	Bowl
527696	MS	4	N	LF	1/8, 1/4, AQK, AQN, AQP	E C	R U
Order example							
527696	MS	4	N	- LF	- AQK	- E	- R

Ordering Table

Grid dimension	[mm]	40	Conditions	Code	Enter code
M Part No.		527696			
Series		Standard		MS	MS
Size		4		4	4
Thread		NPT thread		N	N
Function		Filters		-LF	-LF
Connection size		Body thread 1/8 NPT		-1/8	
		Body thread 1/4 NPT		-1/4	
		Port plate 1/8 NPT (dimensions → 236)		-AQK	
		Port plate 1/4 NPT (dimensions → 236)		-AQN	
		Port plate 3/8 NPT (dimensions → 236)		-AQP	
Filtration grade		40 µm		-E	
		5 µm		-C	
Bowl		Plastic bowl with plastic bowl guard		-R	
		Metal bowl		-U	

Transfer order code

527696	MS	4	N	- LF	-		-		-	
---------------	-----------	----------	----------	-------------	---	--	---	--	---	--

Standard Filters MS4N-LF – Inch Series

Ordering Data – Configurable Products

→ M Mandatory Data	O Options	
Bowl drain M H V	Type of mounting WP WPM WB WBM	Reverse flow direction Z
- M	- WP	- Z

Ordering Table			
Grid dimension	[mm]	40	Conditions Code Enter code
↓ M	Bowl drain	Manual	-M
		Semiautomatic (P1 max. 176 psi)	-H
		Fully automatic (P1 max. 176 psi)	-V
O	Type of mounting	Mounting bracket (dimensions → 237)	1 -WP
		Mounting bracket (dimensions → 237)	1 -WPM
		Mounting bracket (dimensions → 234)	-WB
		Mounting bracket (dimensions → 234)	-WBM
	Reverse flow direction	Flow direction from right to left	-Z

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

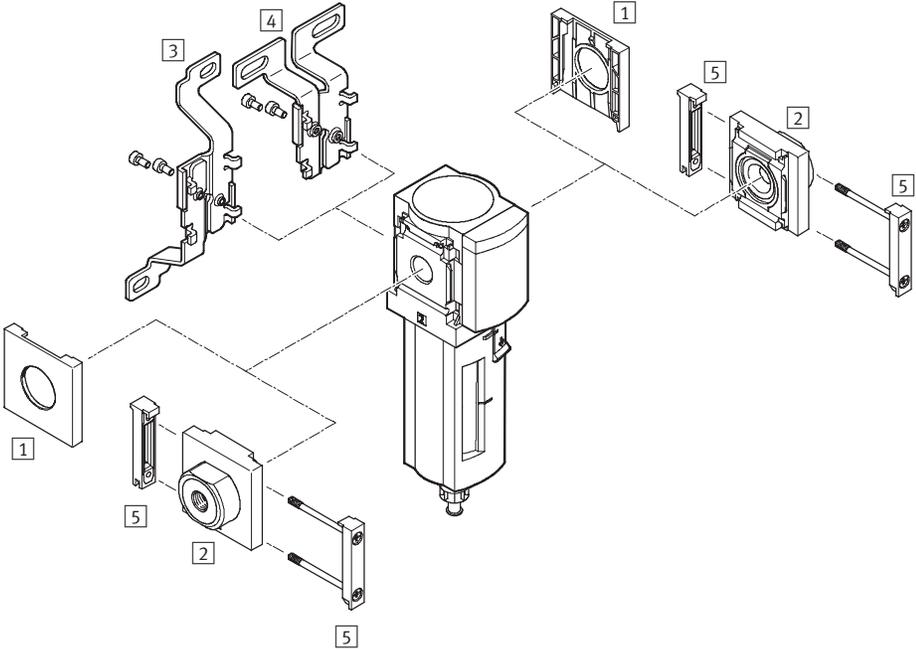
Transfer order code

- - -

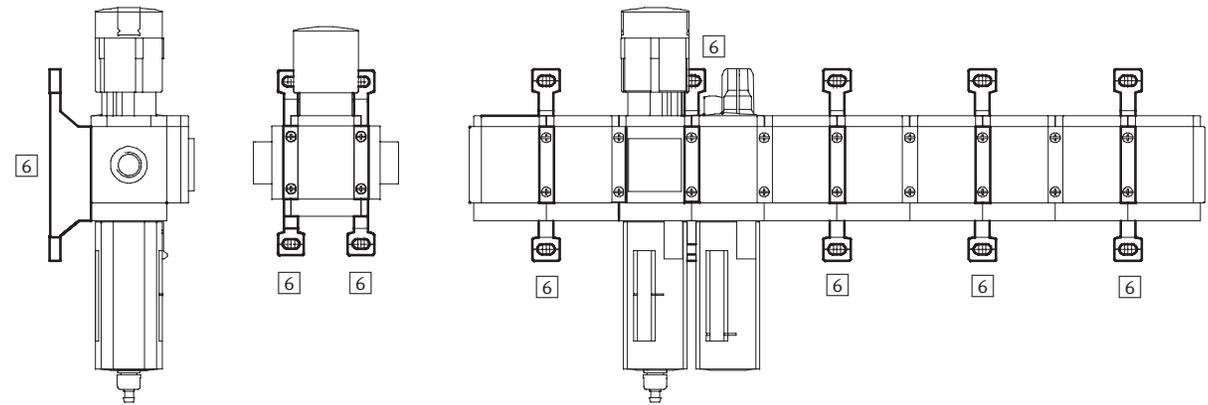
Standard Filters MS4N-LF – Inch Series

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.



Standard Filters MS4N-LF – Inch Series

Accessories Overview



Mounting 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 MS4-END	■	-	■	-	235
2	Port plate MS4N-AQ...	-	■	-	■	236
3	Mounting bracket MS4-WB	■	■	-	-	234
4	Mounting bracket MS4-WBM	■	■	-	-	234
5	Body connector MS4-MV	-	■	■	■	236
6	Mounting bracket MS4-WP/WPB/WPM	-	■	■	■	237

Standard Filters MS4N-LF – Inch Series



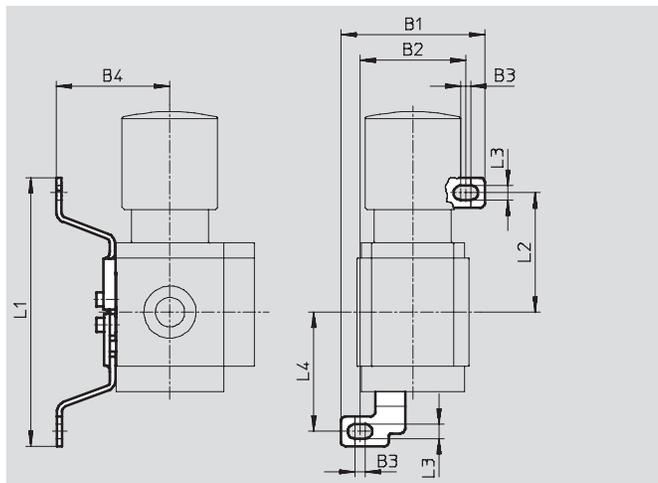
Accessories

3 Mounting bracket MS4-WB

- For wall mounting

Material:

Steel



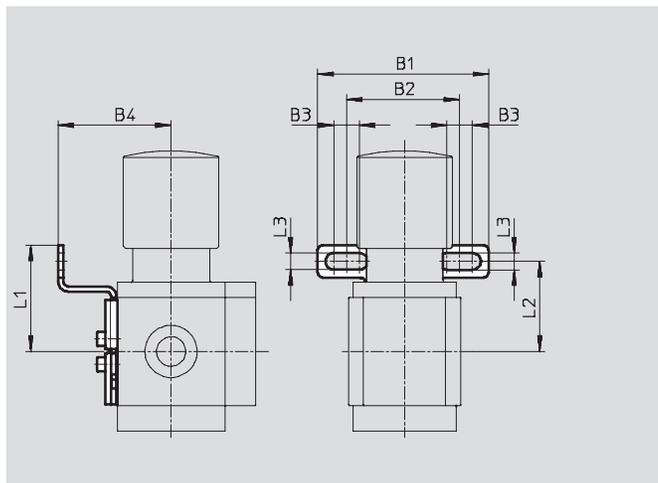
Dimensions and Ordering Data										
B1	B2	B3	B4	L1	L2	L3	L4	Weight [lb]	Part No.	Type
2.21	1.62	0.16	1.74	4.12	1.83	0.22	1.79	0.09	532185	MS4-WB

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.	Type
2.62	1.73	0.39	1.73	1.63	1.38	0.26	0.10	526062	MS4-WBM

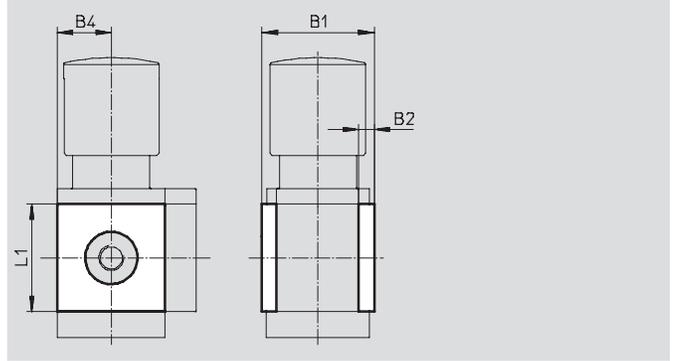
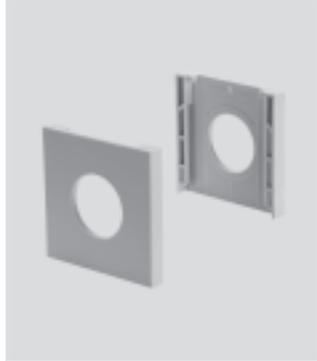
Standard Filters MS4N-LF – Inch Series

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

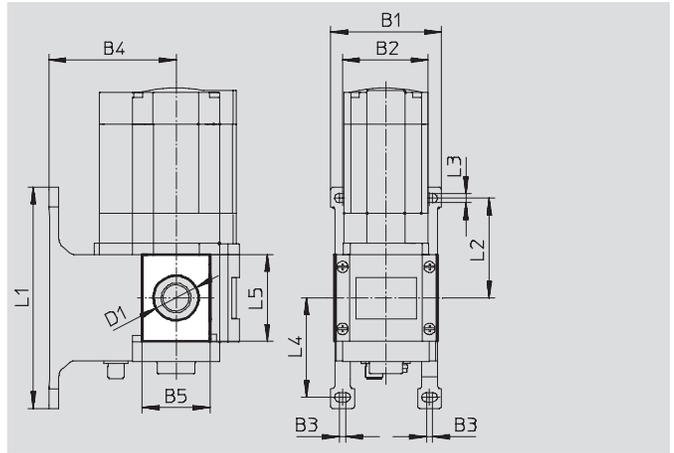


Dimensions and Ordering Data						
B1	B2	B4	L1	Part No.	Type	
1.72	0.24	0.83	1.65	538779	MS4-END	

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



Dimensions and Ordering Data															
B1	B2	B3	B4		B5	D1 ∅	L1	L2	L3	L4	L5	CRC ¹⁾	Weight [lb]	Part No.	Type
			WP	WPB											
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.

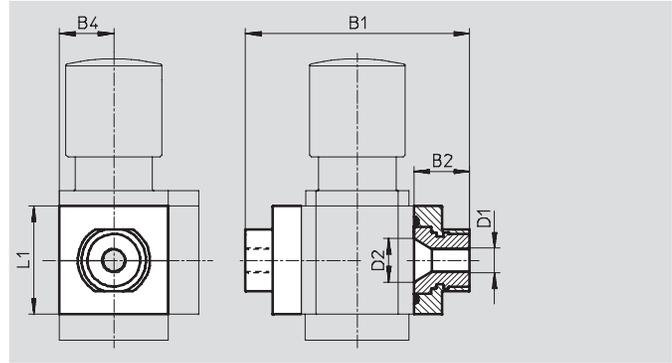
Standard Filters MS4N-LF – Inch Series

Accessories

2 Port plate MS4N-AQ...

- Adapter for pneumatic connection

Material:
Aluminum



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

5 Body connector MS4-MV

- For connecting modules

Material:
Stainless steel/polyacetate



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

Standard Filters MS4N-LF – Inch Series

Accessories



6 Mounting Bracket MS4-WP...

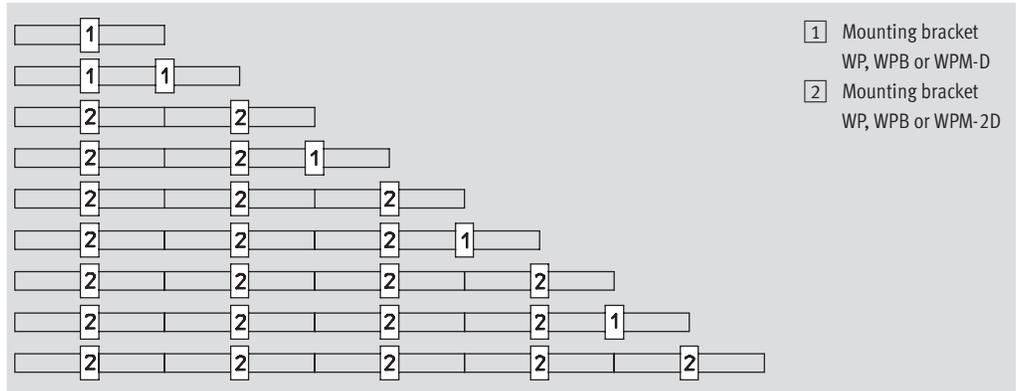
Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 1.575 in

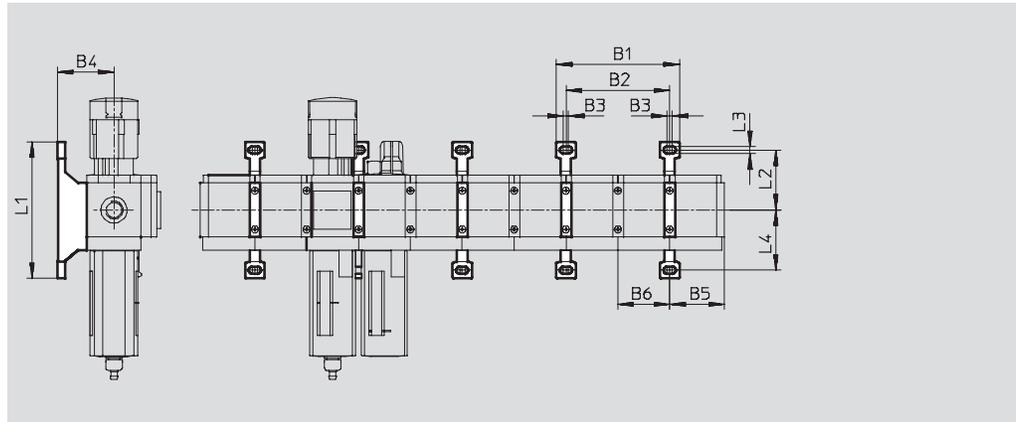
2 units: 3.15 in

Number of units

1 2 3 4 5 6 7 8 9 10



Mounting dimensions



Type	B1	B2	B3	B4	B5	B6	L1	L2	L3	L4
MS4-WP	3.75	3.15	0.16	1.73	1.65	1.57	4.17	1.83	0.22	1.84
MS4-WPB				2.60						
MS4-WPM-...D				1.73						

Standard Filters MS4N-LF – Inch Series

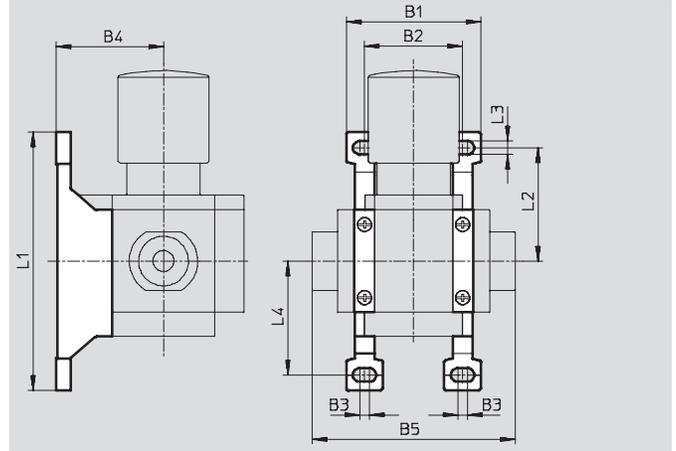


Accessories

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

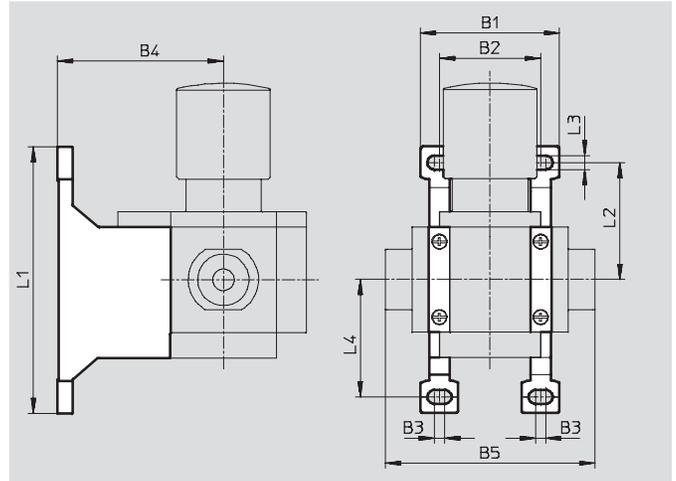


Dimensions and Ordering Data											
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [lb]	Part No.	Type
2.17	1.58	0.16	1.73	3.28	4.17	1.83	0.22	1.84	0.08	532184	MS4-WP

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	B3	B4	B5	L1	L2	L3	L4	Weight [lb]	Part No.	Type
2.17	1.58	0.16	2.60	3.28	4.17	1.83	0.22	1.84	0.11	526063	MS4-WPB

Standard Filters MS4N-LF – Inch Series

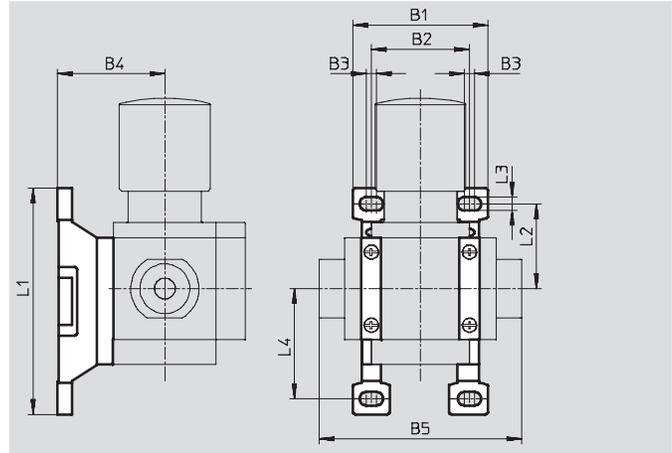
Accessories

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 [lb]	Part No.	Type
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.	Type
MS4	532800	MS4-MVM

Standard Filters MS4N-LF – Inch Series

FESTO

Replacement Parts

Ordering Data – Wearing Parts Kits			
Size	Description	Part No.	Type
MS4	O-rings, screws, sealing ring	673639	MS4-LF



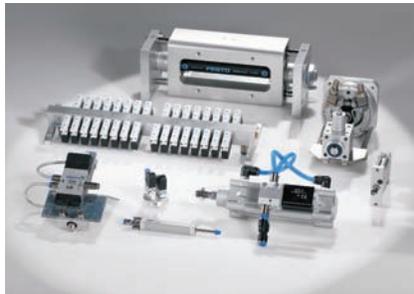
Ordering Data – Filter Cartridges			
Size	Filtration grade [µm]	Part No.	Type
MS4	5	534501	MS4-LFP-C
	40	534502	MS4-LFP-E

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

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Festo North America

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Customer Resource Center

502 Earth City Expy., Suite 125
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For ordering assistance, or to find
your nearest Festo Distributor,

Call: 1.800.99.FESTO

Fax: 1.800.96.FESTO

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Call: 1.866.GO.FESTO

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Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788
www.festo.com/us

Sales Offices

Appleton

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Auburn Hills, MI 48326

New York

395 Moreland Road
Hauppauge, NY 11788

Silicon Valley

2800 Collier Canyon Road
Livermore, CA 94550

Design and Manufacturing Operations



East: 395 Moreland Road, Hauppauge, NY 11788



Central: 1441 East Business Center Drive, Mt. Prospect, IL 60056



West: 2800 Collier Canyon Road, Livermore, CA 94550

Mexico

Headquarters

Festo Pneumatic, S.A.
Av. Ceylán 3, Col. Tequesquahuac
54020 Tlalnepantla, Edo. de México
Call: 011 52 [55] 53 21 66 00
Fax: 011 52 [55] 53 21 66 65
Email: festo.mexico@mx.festo.com
www.festo.com/mx



Canada

Headquarters

Festo Inc.
5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Call: 1.905.624.9000
Fax: 1.905.624.9001
Email: info.ca@ca.festo.com
www.festo.com/ca



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