



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: 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT
- Supply pressure
 - For manual drain: 0 ... 294 psi
 - For semiautomatic drain: 22 ... 176 psi
 - For fully automatic drain: 29 ... 176 psi
 - For fully automatic drain, electrically actuated: 12 ... 235 psi
- Flow rate: 13.4 ... 30.0 scfm

Product	t Range Overview																
Туре	Type Pneumatic connections Filtration grade				Bowl g	uard	Bowl d	rain						Contamination	Reverse		
			[µm]													control	flow
	Body thread	Port plate	0.01	1	5	40	Plastic bowl guard	Metal bowl	Manual	Semiautomatic	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
MS6N		AG	Α	В	С	E	R	U	M	Н	V	E1	E2	E3	E4	DA	Z
LFM	1/4 NPT, 3/8 NPT, 1/2 NPT	1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 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	→ 800

→ www.festo.com/catalog/ms6n-lfm

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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	eneral Technical Data										
Pneumatic connection 1, 2			1/4 NPT	1/2 NPT							
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	y pressure M [psi] 0 294 (manual drain)										
	H [psi] 22 176 (semiautomatic drain)										
V [psi] 29 176 (fully automatic drain) E [psi] 12 235 (fully automatic drain, electrically actuated)											
				ılly actuated)							

Standard Nominal Flow Rate qnN ¹⁾ and Standard Flow Rate qn [scfm]								
Pneumatic connection 1, 2	½ NPT	3/8 NPT	1/2 NPT					
Micro filter LFM-A	Micro filter LFM-A							
qnN 1 2	13.4	15.2	16.9					
qn min	4.8	4.8	4.8					
qn max	31.8	31.8	31.8					
Fine filter LFM-B								
qnN 1 2	19.4	24.7	30.0					
qn min	4.9	4.9	4.9					
qn max	33.5	33.5	33.5					

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



Technical Dat

Operating and Environmental Conditions									
Bowl drain	Manual	Semiautomatic	Fully automatic	Fully automatic, electrically actuated					
	М	Н	V	E					
Operating medium micro filter LFM-A	Compressed air, filtered,	Compressed air, filtered, unlubricated, filtration grade 1 µm							
Operating medium fine filter LFM-B	Compressed air, filtered,	Compressed air, filtered, unlubricated, filtration grade 5 µm							
Max. condensate volume [in ³]	2.32								
Bowl guard	Plastic bowl guard								
	Metal bowl								
Ambient temperature [°F]	14 140	41 140	41 140	34 140					
Temperature of medium [°F]	14 140	41 140	41 140	34 140					
Storage temperature [°F]	14 140	14 140	14 140	34 140					
Assembly position	Vertical ±5°								
Corrosion resistance CRC ¹⁾	2								

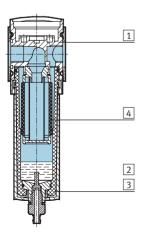
¹⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]				
With plastic bowl guard	1.20			
With metal bowl	1.64			
With metal bowl and fully automatic,	3.60			
electrically actuated bowl drain				

- Wearing parts kits → 800
- Filter cartridges → 800
- For spare parts go to: www.festo.com/en/spare_parts_service

Materials

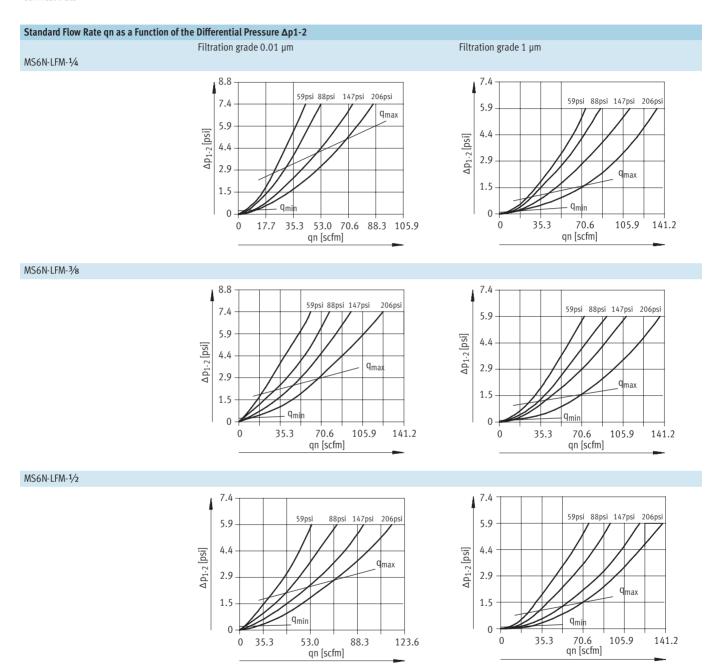
Sectional view



Fine	Fine and micro filter					
1	Body	Die-cast aluminum				
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				

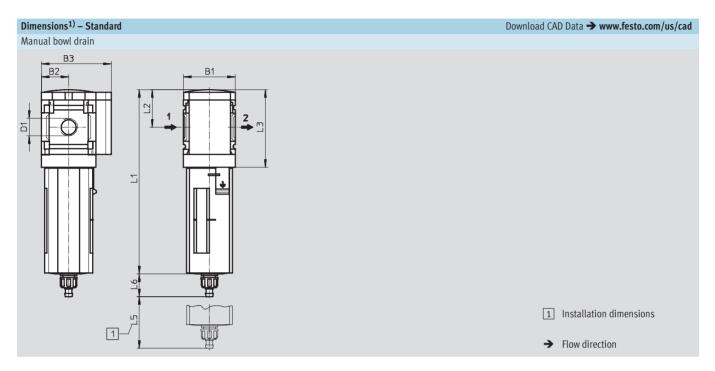


Technical Data





Dimensional Drawings



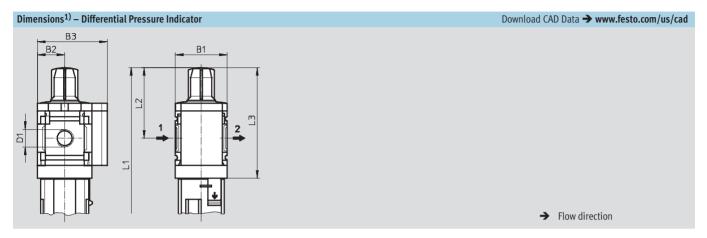
Туре	B1	B2	В3	D1	L1		L2	L3	L5	L	6
					Bowl guard					Bowl	guard
					Plastic	Metal				Plastic	Metal
MS6N-LFM-1/4				1/4 NPT							
MS6N-LFM-3/8	2.44	1.22	2.99	3/8 NPT	7.44	7.80	1.65	3.43	2.95	0.62	0.75
MS6N-LFM-1/2				1/2 NPT							

¹⁾ Dimensions are in inches, unless otherwise noted.

2007/10 – Subject to change – MS Series

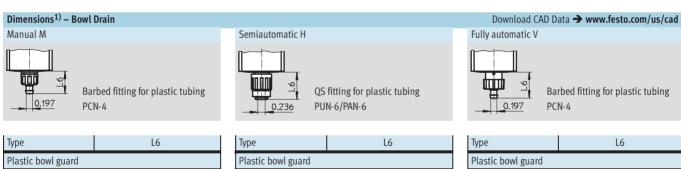


Dimensional Drawings



Туре	B1	B2	В3	D1		L1 Bowl guard		L3
					Plastic	Metal		
MS6N-LFM-1/4DA				½ NPT				
MS6N-LFM-3/8DA	2.44	1.22	2.99	3/8 NPT	8.58	8.82	2.68	4.45
MS6N-LFM-1/2DA				1/2 NPT				

1) Dimensions are in inches, unless otherwise noted.



Туре	L6	Ľ
Plastic bowl guard		Ī
MS6N-LFMM	0.62	I
Metal bowl		I
MS6N-LFMM	0.75	1

	Туре	L6
,	Plastic bowl guard	
	MS6N-LFMH	0.80
,	Metal bowl	
	MS6N-LFMH	0.90

Туре	L6
Plastic bowl guard	
MS6N-LFMV	0.73
Metal bowl	
MS6N-LFMV	0.87

Fully automatic, electrically actuated E1 ... E4 Technical data PWEA → www.festo.com/catalog/pwea 1 Variant E1 PWEA-AP-... with M12x1 plug, 5-pin for SIM-M12-5GD-... 2 Variants E2/E3/E4 PWEA-AC-... with cable conduit fitting Pg9 3 Connection 360° rotatable for plastic tubing PUN-H-12x2-...

¹⁾ Dimensions are in inches, unless otherwise noted.



Ordering Data – Pre-configured Products

Ordering Data						
Without differential pr	essure indicator					
Bowl drain	Connection	Micro filter		Fine	filter	
		Filtration grade 0.01 µm		Filtr	ation grade 1 µm	
		Part No. Type	LT	Part	No. Type	LT
Plastic bowl guard						
Manual	1/4 NPT	531860 MS6N-LFM-1/4-ARM		531	848 MS6N-LFM-1/4-BRM	
	3/8 NPT	531862 MS6N-LFM- ³ /8-ARM		531	850 MS6N-LFM-3/8-BRM	
	1/2 NPT	531861 MS6N-LFM-1/2-ARM		531	849 MS6N-LFM-½-BRM	
Fully automatic	1/4 NPT	531866 MS6N-LFM-1/4-ARV		531	854 MS6N-LFM-1/4-BRV	
	3/8 NPT	531868 MS6N-LFM- ³ /8-ARV		531	856 MS6N-LFM-3/8-BRV	
	1/2 NPT	531867 MS6N-LFM-1/2-ARV		531	855 MS6N-LFM-1/2-BRV	
Metal bowl		•				·
Fully automatic	1/4 NPT	531878 MS6N-LFM-1/4-AUV		531	872 MS6N-LFM-1/4-BUV	
	3/8 NPT	531880 MS6N-LFM- ³ /8-AUV		531	874 MS6N-LFM-3/8-BUV	
	½ NPT	531879 MS6N-LFM-½-AUV		531	873 MS6N-LFM-½-BUV	

Ordering Data					
With differential press	ure indicator				
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	1/4 NPT	536887 MS6N-LFM-1/4-ARM-DA	1D	536851 MS6N-LFM-1/4-BRM-DA	1D
	3/8 NPT	536888 MS6N-LFM-3/8-ARM-DA	1D	536852 MS6N-LFM-3/8-BRM-DA	1D
	1/2 NPT	536889 MS6N-LFM-1/2-ARM-DA	1D	536853 MS6N-LFM-1/2-BRM-DA	1D
Fully automatic	1/4 NPT	536893 MS6N-LFM-1/4-ARV-DA	1D	536857 MS6N-LFM-1/4-BRV-DA	1D
	3/8 NPT	536894 MS6N-LFM-3/8-ARV-DA	1D	536858 MS6N-LFM-3/8-BRV-DA	1D
	1/2 NPT	536895 MS6N-LFM-1/2-ARV-DA	1D	536859 MS6N-LFM-1/2-BRV-DA	1D
Metal bowl					
Fully automatic	1/4 NPT	536899 MS6N-LFM-1/4-AUV-DA	Q	536863 MS6N-LFM-1/4-BUV-DA	Q
	3/8 NPT	536900 MS6N-LFM-3/8-AUV-DA	Q	536864 MS6N-LFM-3/8-BUV-DA	Q
	½ NPT	536901 MS6N-LFM-1/2-AUV-DA	Q	536865 MS6N-LFM-1/2-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

2007/10 – Subject to change – MS Series



Ordering Data – Configurable Products

M Mandatory D	ata										→
Part No.	Series	Size	Thread	Function		Connection size		Filtration grade	1	Bowl]
											_
527671	MS	6	N	LFM		1/4, 3/8, 1/2,		В		R	
						AQN, AQP, AQR, AQS		А		U	
Order example											
527671	MS	6	N	- LFM	_	AQN	-	В	-	R	1

01	rdering Table				
Gr	rid dimension [mm]	62	Conditions	Code	Enter code
M	Part No.	527671			
	Series	Standard		MS	MS
	Size	6		6	6
	Thread	NPT thread		N	N
	Function	Fine and micro filter		-LFM	-LFM
	Connection size	Body thread 1/4 NPT		-1/4	
		Body thread 3/8 NPT		-3/8	
		Body thread 1/2 NPT		-1/2	
		Port plate 1/4 NPT (dimensions → 832)		-AQN	
		Port plate 3/8 NPT (dimensions → 832)		-AQP	
		Port plate 1⁄2 NPT (dimensions → 832)		-AQR	
		Port plate ¾ NPT (dimensions → 832)		-AQS	
	Filtration grade	1 μm		-B	
		0.01 μm		-A	
	Bowl	Plastic bowl with plastic bowl guard		-R	
Ψ		Metal bowl		-U	

Transfer order cod									
527671	MS	6	N	-	LFM	-	-	-	



Ordering Data – Configurable Products

- [[M Mandatory Data	O Options		
В	owl drain	Filter change sensor	Type of mounting	Reverse flow direction
-				
M	Λ	DA	WP	Z
Н	l		WPM	
V			WB	
E:	1			
E:	2			
E:	3			
E	4			
- N	1 -	-	WP -	Z

Or	dering Table				
Gr	id dimension [mm]	62	Conditions	Code	Enter code
Ψ	Bowl drain	Manual		-M	
M		Semiautomatic (P1 max. 176 psi)		-H	
		Fully automatic (P1 max. 176 psi)		-V	
		External fully automatic bowl drain, electrical, 24 V DC, M12	1	-E1	
		External fully automatic bowl drain, electrical, 110 V AC, terminals	1	-E2	
		External fully automatic bowl drain, electrical, 230 V AC, terminals	1	-E3	
		External fully automatic bowl drain, electrical, 24 V DC, terminals	1	-E4	
0	Filter change sensor	Differential pressure indicator, optical		-DA	
	Type of mounting	Mounting bracket (dimensions → 833)	2	-WP	
		Mounting bracket (dimensions → 833)	2	-WPM	
		Mounting bracket (dimensions → 830)		-WB	
	Reverse flow direction	Flow direction from right to left		-Z	

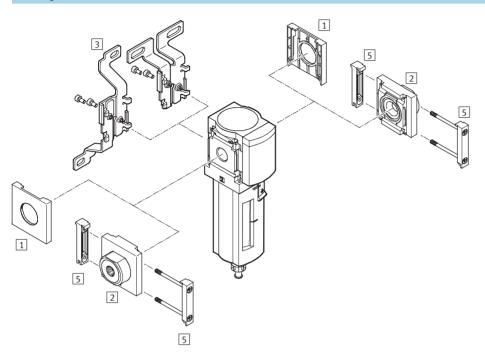
1 E1, E2, E3, E4 Only with metal bowl U

2	WP, WPM	Only with port plate AQN, AQP, AQR or	ΑQ
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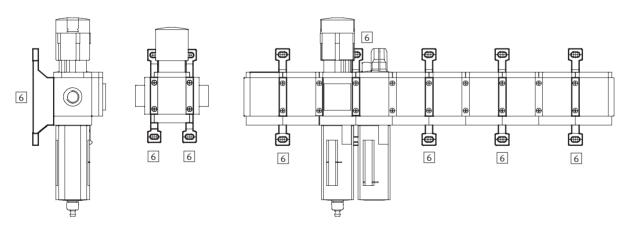
	Transfer order code				
-		_	-	_	

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

Moun	ting Attachments and Accessories					
		Single unit		Combination unit ->	3.1-49	→ Page
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap MS6-END	•	-	-	-	831
2	Port plate MS6N-AQ	-	•	-	•	832
3	Mounting bracket MS6-WB	•	•	-	-	830
5	Body connector MS6-MV	-	•	•	•	832
6	Mounting bracket MS6-WP/WPB/WPM	-	•	•	•	833



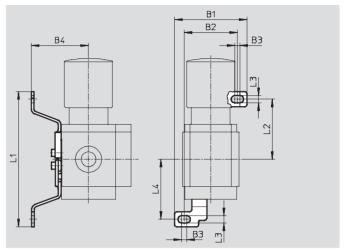
Accessories

3 Mounting bracket MS6-WB

For wall mounting

Material: Steel





Dimensions a	Dimensions and Ordering Data												
B1	B2	В3	B4	L1	L2	L3		Weight [lb]	Part No.	Туре			
3.13	2.44	0.18	2.17	6.20	2.80	0.26	2.80	0.24	532196	MS6-WB			

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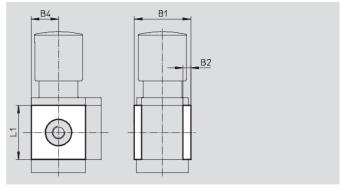
Accessories

1 Cover cap MS6-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





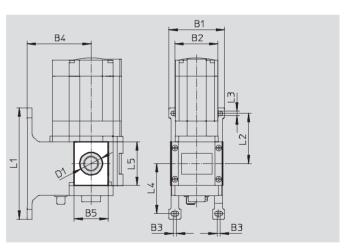
Dimensions and Ordering Data					
B1	B2	B4	L1	Part No. Type	
2.64	0.31	1.22	2.44	538780 MS6-END	

Mounting plate MS6-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	В	4	B5	D1	L1	L2	L3	L4	L5	CRC ¹⁾	Weight	Part No.	Туре
			WP	WPB		Ø							[lb]		
3.11	2.44	0.18	2.13	3.56	1.91	1.26	6.22	2.80	0.26	2.80	2.44	2	0.03	535408	MS6-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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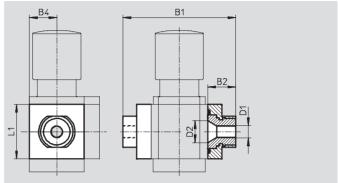
Accessories

2 Port plate MS6N-AQ...

- Adapter for pneumatic connection
- MS6-AGE for implementing threaded connection 3/4 NPT

Material: Aluminum





Dimensions and C	imensions and Ordering Data											
B1	B2	B4	D1	D2		Weight [lb]	Part No.	Туре				
	1.04	1.22	½ NPT	0.94	2.44	0.60	526076	MS6N-AQN				
4.53			3/8 NPT				526077	MS6N-AQP				
4.55			½ NPT				526078	MS6N-AQR				
			3/4 NPT				526079	MS6N-AQS				

5 Body connector MS6-MV

• For connecting modules

Material:

Stainless steel/polyacetate



Ordering Data		
Weight	Part No.	Туре
[lb]		
0.11	532799	MS6-MV



Accessories

6 Mounting Bracket MS6-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations

Number of units

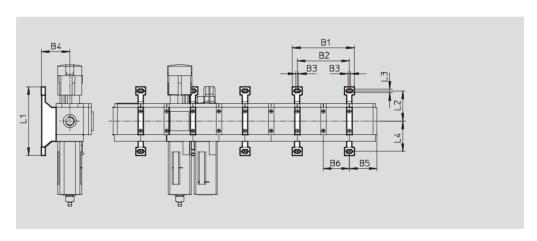
1 unit: 2.44 in with WP, WPB

2.715 in with WPM-D

2 units: 4.88 in with WP, WPB 5.43 in with WPM-2D

1 Mounting bracket WP, WPB or WPM-D 2 Mounting bracket WP, WPB or WPM-2D

Mounting dimensions



Туре	B1	B2	В3	B4	B5	В6	L1	L2	L3	L4
MS6-WP	5.55	4.88	0.18	2.13	2.54	2.44	6 22	2.80		2.80
MS6-WPB	5.55	4.00	0.16	3.56	2.34	2.44	0.22	2.00	0.26	2.60
MS6-WPMD	6.61	5.43	0.69	2.13	2.58	2.72	3.88	1.63		1.63



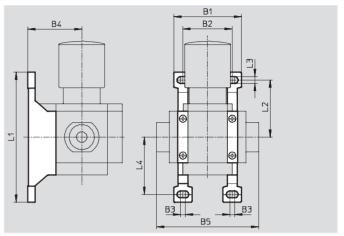
Accessories

Mounting bracket MS6-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 [lb]	Part No.	Туре		
3.11	2.44	0.18	2.13	4.53	6.22	2.80	0.26	2.80	0.15	532195	MS6-WP		

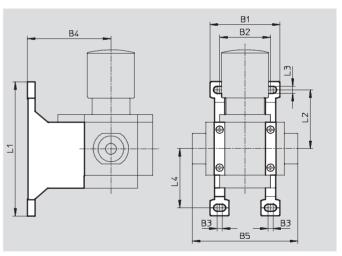
Mounting bracket MS6-WPB

- 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	mensions and Ordering Data												
B1	B2	В3	B4	B5	L1	L2	L3	L4	Weight [lb]	Part No.	Туре		
3.11	2.44	0.18	3.56	4.53	6.22	2.80	0.26	2.80	0.23	526074	MS6-WPB		

Accessories

FESTO

Mounting bracket MS6-WPM

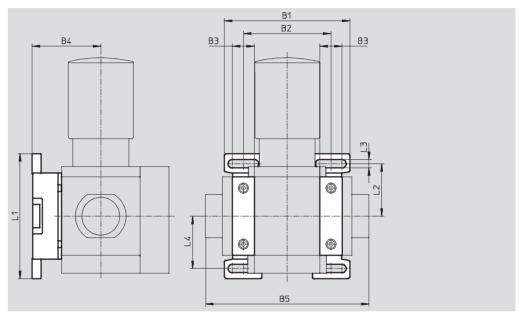
- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

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





Dimension	Dimensions and Ordering Data											
B1	B2	B3	B4	B5	L1	L2	L3	L4	Clearance	Weight [lb]	Part No.	Туре
3.90	2.72	0.69	2.13	5.08	3.88	1.63	0.26	1.63	2.44	0.29	526073	MS6-WPM-D
6.61	5.43	0.09	2.17	7.80	٥٥.ر	1.05	0.20	1.63	4.88	0.31	532186	MS6-WPM-2D

Body connector MS6-MVM

• For installation of modules with regulating knob pointing downwards

Material:

Die-cast aluminum



Ordering Data		
Size	Part No.	Туре
MS6	532801	MS6-MVM



Replacement Parts

Ordering Data – Wearing Parts Kits									
Size	Description	Part No.	Туре						
MS6	Flat seal, O-rings, screws	673642	MS6-LFM						



Ordering Data – Filter Cartridges									
Size	Filtration grade [μm]	Part No.	Туре						
MS6	0.01	532909	MS6-LFM-A						
	1	532910	MS6-LFM-B						

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

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