



The proportional lubricator adds a precision adjustable quantity of oil to the compressed air stream. The pressure drop that occurs when air flows through a Venturi nozzle is used to convey oil from the container to the drip cap. From here, the oil drips into the air duct directly behind the proportional valve, where it is atomized. The oil mist component is proportional to the compressed air flow rate.

• Pneumatic connection: G1/8, G1/4, G3/8

• Supply pressure: 1 ... 12 bar

• Flow rate: 1,100 ... 2,200 l/min

Product Range Overview										
Туре	Flow rate [l/min]	Pneumatic connections		Bowl guard	Reverse flow					
		Body thread	Port plate	Plastic bowl guard	Metal bowl	Flow direction from right to left				
MS4			AG	R	U	Z				
LOE	1,100 2,200	G½, G¼	G1/8, G1/4, G3/8	•	•	•				

Features

- Proportional lubricator with precision oil metering
- Reduces wear on drive units subject to high loading
- High flow rate
- Quick and easy oil top-up even during operation (under pressure)

The following oils are recommended for Festo components:

Viscosity range to ISO 3448, ISO class VG 32

32 mm²/s (= cSt) at 40°C

- Festo special oil OFSW-32
 - **→** 346
- ARAL Vitam GF 32
- BP Energol HLP 32
- Esso Nuto H 32
- Mobil DTE 24
- Shell Tellus Oil DO 32

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→ www.festo.com/catalog/ms4-loe

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Technical Data

ISO Symbol





General Technical Data									
Pneumatic connection 1, 2		G½	G1/4						
Supply pressure	[bar]	1 12							

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

Standard Nominal Flow Rate qnN [l/min]									
Pneumatic connection 1, 2	G1/8	G1/4							
In main flow direction 1 2	1,100	2,200							

Operating and Environmental Conditions										
Minimum flow for lubricator operation	[l/min]	40								
Operating medium		Compressed air								
Max. oil capacity	[cm ³]	30 (with plastic bowl guard) 36 (with metal bowl)								
Bowl guard		Plastic bowl guard Metal bowl								
Ambient temperature	[°C]	-10 +60								
Temperature of medium	[°C]	-10 +60								
Storage temperature	[°C]	-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.

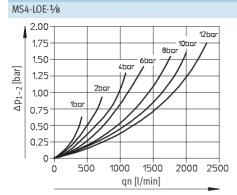
Weights [g]								
With plastic bowl guard	194							
With metal bowl	354							

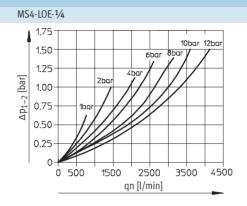
• For spare parts go to: www.festo.com/en/spare_parts_service

FESTO

Technical Data

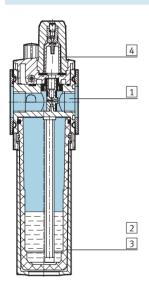
Standard Flow Rate qn as a Function of the Differential Pressure $\Delta p1\text{--}2$





Materials

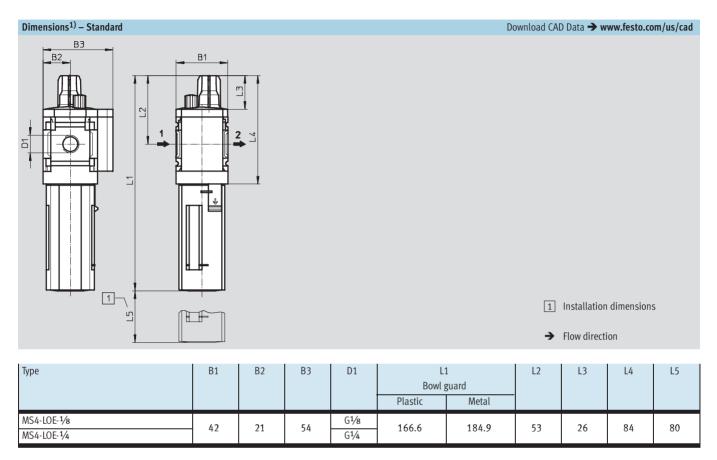
Sectional view



Lub	Lubricators							
1	Body	Die-cast aluminum						
2	Plastic bowl guard	Polycarbonate/polyamide						
3	Metal bowl	Aluminum						
	Viewing window	Polyamide						
4	Lubricator dome	Polycarbonate						
-	Seals	Nitrile rubber						



Dimensional Drawings, Ordering Data – Pre-configured Products



¹⁾ Dimensions are in millimeters, unless otherwise noted.

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

Ordering Data			
Connection	Plastic bowl with plastic bowl guard	Metal bowl	
	Part No. Type	LT	Part No. Type
G ¹ / ₈	529413 MS4-LOE-1/8-R	1D	535791 MS4-LOE-1/8-U
G1/4	529411 MS4-LOE-1/4-R	1D	535790 MS4-L0E-1/4-U

LT = Lead time	1D typically ships same day/next day	1W typically ships within 1 week	O request a quote for lead time
LI = Lead time	ID Typically Ships same day/next day	1 W TVDICATIV SHIDS WITHIN 1 Week	U request a quote for lead fille



Ordering Data – Configurable Products

M Mandatory D	M Mandatory Data										O Options			
Part No.	Series	Size	Function		Connection size		Bowl		Type of mounting		Reverse flow direction			
527701	MS	4	LOE		1/8, 1/4, AGA, AGB, AGC		R U		WP WPM WB WBM		Z			
Order example 527701	MS	4	- LOE]-	AGB	_	R	i	WP	_	Z			

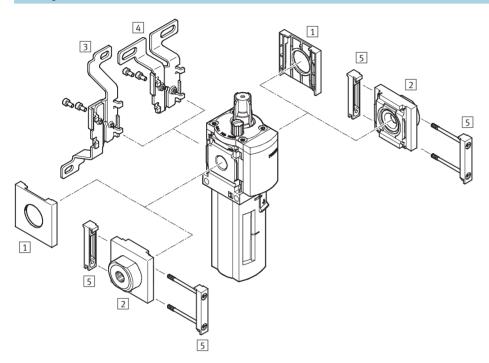
0r	dering Table				
Gr	id dimension [mm]	40	Conditions	Code	Enter code
M	Part No.	527701			
	Series	Standard		MS	MS
	Size	4		4	4
	Function	Lubricators		-LOE	-LOE
	Connection size	Body thread G1/8		-1/8	
		Body thread G1/4		-1/4	
		Port plate G1/8 (dimensions → 342)		-AGA	
		Port plate G¼ (dimensions → 342)		-AGB	
		Port plate G3/8 (dimensions → 342)		-AGC	
	Bowl	Plastic bowl with plastic bowl guard		-R	
		Metal bowl		-U	
0	Type of mounting	Mounting bracket (dimensions → 343)	1	-WP	
		Mounting bracket (dimensions → 343)	1	-WPM	
		Mounting bracket (dimensions → 340)		-WB	
		Mounting bracket (dimensions → 340)		-WBM	
	Reverse flow direction	Flow direction from right to left		-Z	

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

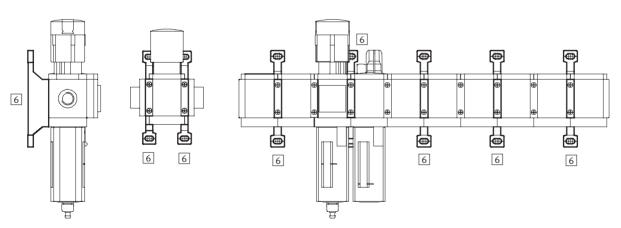
Transfer order co	de									
527701		MS	4] –	LOE	-	-	-] -	

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

Moun	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					341					
	MS4-END	_	_	-	_						
2	Port plate	_	_	_		342					
	MS4-AG	_	_		_						
3	Mounting bracket		•	_	_	340					
	MS4-WB	_	_								
4	Mounting bracket		_	_	_	340					
	MS4-WBM	_	_								
5	Body connector	_		_		342					
	MS4-MV		_	_	_						
6	Mounting bracket	_				343					
	MS4-WP/WPB/WPM		_	_	_						

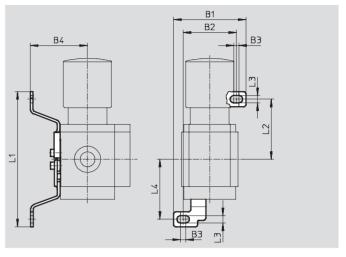
Accessories

3 Mounting bracket MS4-WB

For wall mounting

Material: Steel





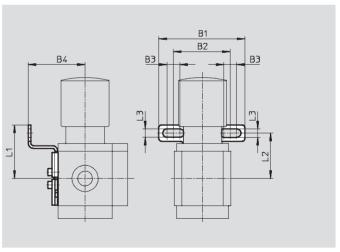
Dimensions a	Dimensions and Ordering Data										
B1	B2	В3	B4	L1	L2	L3		Weight [g]	Part No.	Туре	
56.2	41.2	4	44.2	104.6	46.6	5.6	46.5	46	532185	MS4-WB	

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			

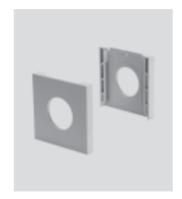
FESTO

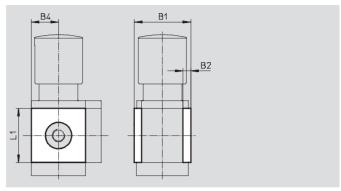
Accessories

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





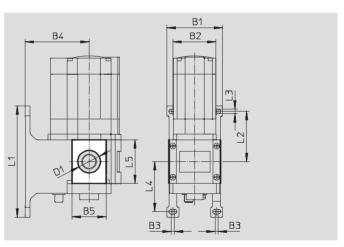
Dimensions and Ordering Data											
B1	B2	B4	L1	Part No.	Туре						
43.6	6	21	42	538779	MS4-END						

Mounting plate MS4-AEND

 In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit on a wall with body thread

Material: Reinforced polyamide Conforms to RoHS Free of copper and PTFE





Dimensi	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.

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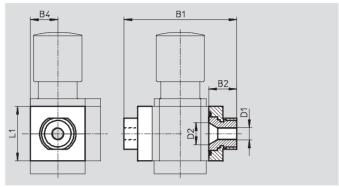
Accessories

2 Port plate MS4-AG...

Adapter for pneumatic connection

Material: Aluminum





Dime	Dimensions and Ordering Data												
	B1	B2	B4	D1	D2	L1	Weight [g]	Part No.	Туре				
							191						
				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
36	532798	MS4-MV



Accessories

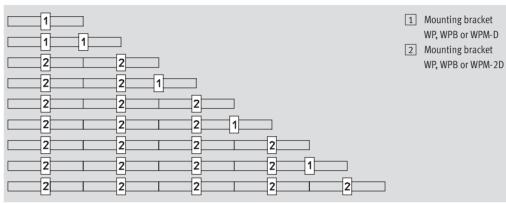
6 Mounting Bracket MS4-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations

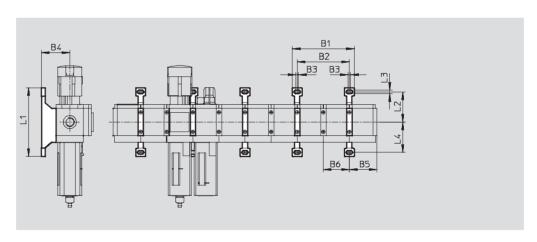
1 unit: 40 mm

2 units: 80 mm

Number of units
1 2 3 4 5 6 7 8 9 10



Mounting dimensions



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	100	40.5	5.6	40.7
MS4-WPMD				44			92.8	34.8		40

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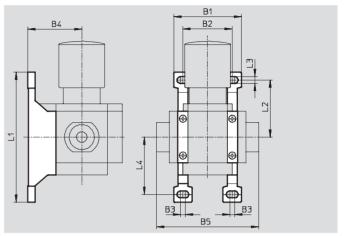
Accessories

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	

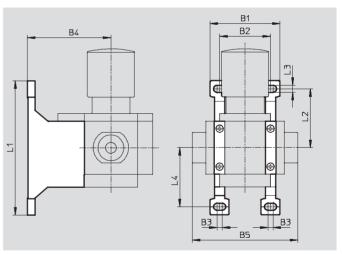
Mounting bracket MS4-WPB

- 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:

Die-cast aluminum





Dimensions	Dimensions and Ordering Data												
B1	В2	В3	В4	B5	L1	L2	L3	L4	Weight [g]	Part No.	Туре		
55.2	40.2	4	66	83.4	106	46.5	5.6	46.7	55	526063	MS4-WPB		

FESTO

Accessories

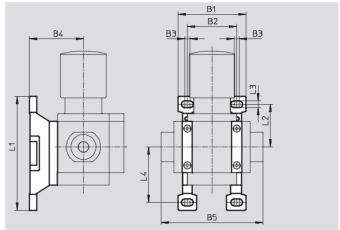
Mounting bracket MS4-WPM

- 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	Dimensions and Ordering Data												
B1	B2	В3	B4	B5	L1	L2	L3	L4	Clearance	Weight	Part No.	Туре	
										[g]			
55.2	40	/	44	83.4	92.8	34.8	5.6	45.2	40	45	526060	MS4-WPM-D	
95.2	80	4	44	123.4	72.0	J4.0	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



Accessories

Ordering Data – Special Oil OFSW											
	Description	Scope of delivery	Part No.	Туре							
	for lubricators	1 liter	152811	OFSW-32							





The proportional lubricator adds a precision adjustable quantity of oil to the compressed air stream. The pressure drop that occurs when air flows through a Venturi nozzle is used to convey oil from the container to the drip cap. From here, the oil drips into the air duct directly behind the proportional valve, where it is atomized. The oil mist component is proportional to the compressed air flow rate.

• Pneumatic connection: 1/8 NPT, 1/4 NPT, 3/8 NPT

• Supply pressure: 15 ... 176 psi

• Flow rate: 38.8 ... 77.7 scfm

Product Range Overvie	Product Range Overview												
Туре	Flow rate	Pneumatic connections		Bowl guard		Reverse flow							
	[scfm]												
		Body thread	Port plate	Plastic bowl guard	Metal bowl	Flow direction from right to left							
MS4N			AG	R	U	Z							
LOE	38.8 77.7	1/8 NPT, 1/4 NPT	1/8 NPT, 1/4 NPT, 3/8 NPT	•	•								

Features

- Proportional lubricator with precision oil metering
- Reduces wear on drive units subject to high loading
- High flow rate
- Quick and easy oil top-up even during operation (under pressure)

The following oils are recommended for Festo components: Viscosity range to ISO 3448,

Viscosity range to ISO 34 ISO class VG 32

32 mm²/s (= cSt) at 40°C

- Festo special oil OFSW-32
 - **→** 360
- ARAL Vitam GF 32
- BP Energol HLP 32
- Esso Nuto H 32
- Mobil DTE 24Shell Tellus Oil DO 32

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→ www.festo.com/catalog/ms4n-loe

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Technical Data

ISO Symbol





General Technical Data										
Pneumatic connection 1, 2		1/8 NPT	1/4 NPT							
Supply pressure	[psi]	15 176								

Standard Nominal Flow Rate qnN [scfm]									
Pneumatic connection 1, 2	1/8 NPT	1/4 NPT							
In main flow direction 1 2	38.8	77.7							

Operating and Environmental	Conditions	
Minimum flow for lubricator operation	[scfm]	1.4
Operating medium		Compressed air
Max. oil capacity	[in ³]	1.83 (with plastic bowl guard) 2.20 (with metal bowl)
Bowl guard		Plastic bowl guard Metal bowl
Ambient temperature	[°F]	14 140
Temperature of medium	[°F]	14 140
Storage temperature	[°F]	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	0.39
With metal bowl	0.71

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

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Technical Data

Standard Flow Rate qn as a Function of the Differential Pressure $\Delta p1\text{--}2$

MS4N-LOE-1/8

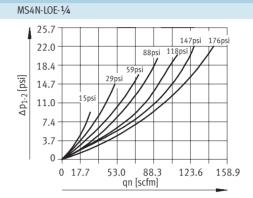
29.4
25.7
22.0
59psi
118psi
14.7
14.7
11.0
7.4
3.7

35.3 53.0

qn [scfm]

70.6

88.3

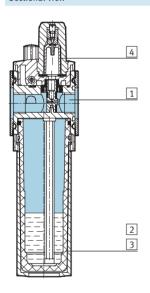


Materials

Sectional view

0

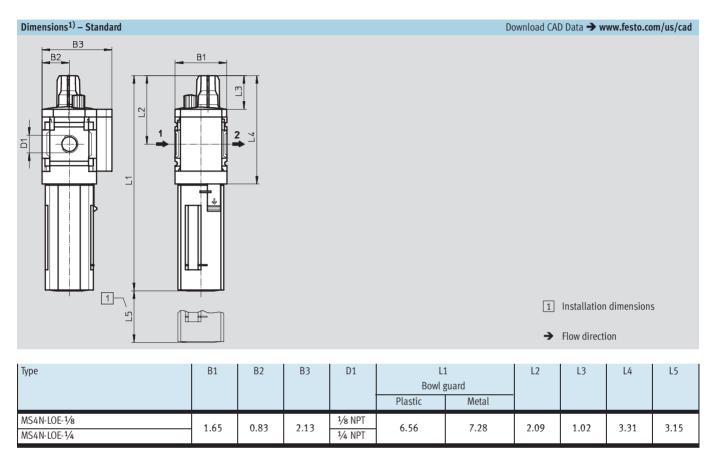
17.7



Lubr	Lubricators								
1	Body	Die-cast aluminum							
2	Plastic bowl guard	Polycarbonate/polyamide							
3	Metal bowl	Aluminum							
	Viewing window	Polyamide							
4	Lubricator dome	Polycarbonate							
-	Seals	Nitrile rubber							



Dimensional Drawings, Ordering Data – Pre-configured Products



¹⁾ Dimensions are in inches, unless otherwise noted.

Ordering Data				
Connection	Plastic bowl with plastic bowl guard		Metal bowl	
	Part No. Type	LT	Part No. Type	LT
1/8 NPT	531703 MS4N-LOE-1/8-R	1D	535799 MS4N-LOE-1/8-U	Q
1/4 NPT	531702 MS4N-LOE-1/4-R	1D	535798 MS4N-LOE-1/4-U	Q

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



Ordering Data – Configurable Products

M Mandatory D	M Mandatory Data											O Options			
Part No.	Serie	Size	Thread		Function		Connection size		Bowl		Type of mounting		Reverse flow direction		
527702	MS	4	N		LOE		1/8, 1/4, AQK, AQN, AQP		R U		WP WPM WB WBM		Z		
Order example	MS	4	N]-	LOE	-	AQN	-	R	_	WD	_	Z		

0r	dering Table				
Gr	id dimension [mm]	40	Conditions	Code	Enter code
M	Part No.	527702			
	Series	Standard		MS	MS
	Size	4		4	4
	Thread	NPT thread		N	N
	Function	Lubricators		-LOE	-LOE
	Connection size	Body thread 1/8 NPT		-1/8	
		Body thread 1/4 NPT		-1/4	
		Port plate 1/8 NPT (dimensions → 356)		-AQK	
		Port plate 1/4 NPT (dimensions → 356)		-AQN	
		Port plate 3/8 NPT (dimensions → 356)		-AQP	
	Bowl	Plastic bowl with plastic bowl guard		-R	
		Metal bowl		-U	
)	Type of mounting	Mounting bracket (dimensions → 357)	1	-WP	
		Mounting bracket (dimensions → 357)	1	-WPM	
		Mounting bracket (dimensions → 354)		-WB	
		Mounting bracket (dimensions → 354)		-WBM	
	Reverse flow direction	Flow direction from right to left		-Z	

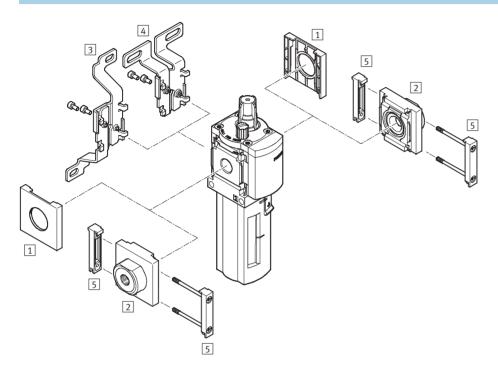
WP, WPM Only with port plate AQK, AQN or AQP

 Transfer order code

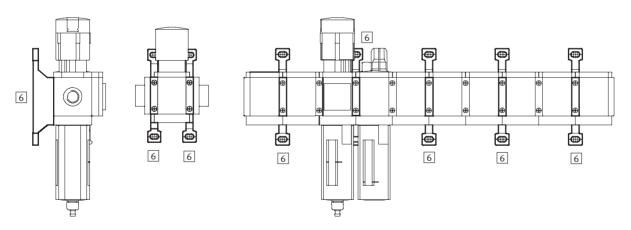
 527702
 MS
 4
 N
 LOE
 -<

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

Moun	ting Attachments and Accessories					
		Single unit	2.1-49	→ Page		
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap	_		_		355
	MS4-END	_		_		
2	Port plate	_	_	_		356
	MS4N-AQ	_	_	_	_	
3	Mounting bracket	_		_	_	354
	MS4-WB	_	_			
4	Mounting bracket	_	•			354
	MS4-WBM	_	_	_	_	
5	Body connector		_	_	_	356
	MS4-MV	_	_	•	_	
6	Mounting bracket		_	_	_	357
	MS4-WP/WPB/WPM	_	_	•	_	

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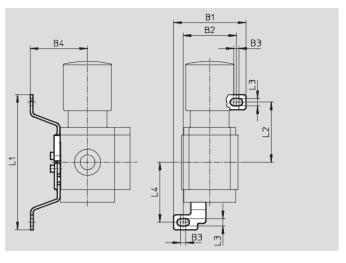
Accessories

3 Mounting bracket MS4-WB

For wall mounting

Material: Steel





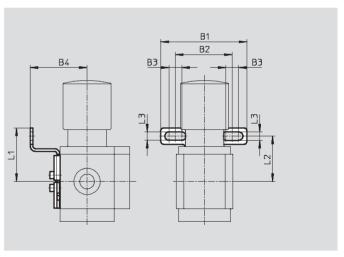
Dimensions	imensions and Ordering Data														
B1	B2	В3	B4	L1	L2	L3		Weight [lb]	Part No.	Туре					
2.21	1.62	0.16	1.74	4.12	1.83	0.22	1.83	0.09	532185	MS4-WB					

4 Mounting bracket MS4-WBM

• For wall mounting

Material: Steel





Dimensions an	mensions 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						

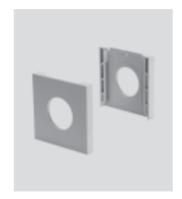
FESTO

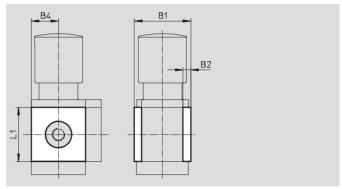
Accessories

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





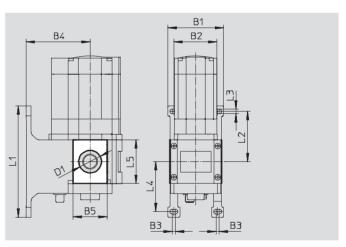
Dimensions and Ordering Data										
B1	B2	B4	L1	Part No.	Туре					
1.72	0.24	0.83	1.65	538779	MS4-END					

Mounting plate MS4-AEND

 In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit on a wall with body thread

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]		
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.

FESTO

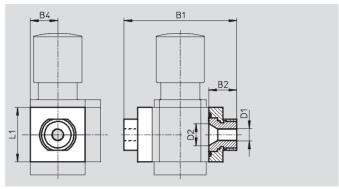
Accessories

2 Port plate MS4N-AQ...

Adapter for pneumatic connection

Material: Aluminum





Dimensions and C	Dimensions and Ordering Data											
B1	B2	B4	D1	D2	L1	Weight [lb]	Part No.	Туре				
			1/8 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

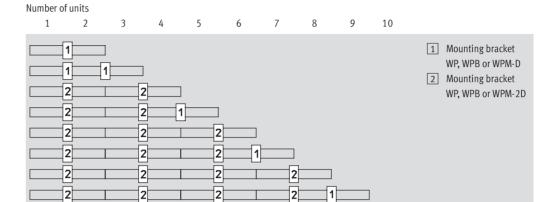
6 Mounting Bracket MS4-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations

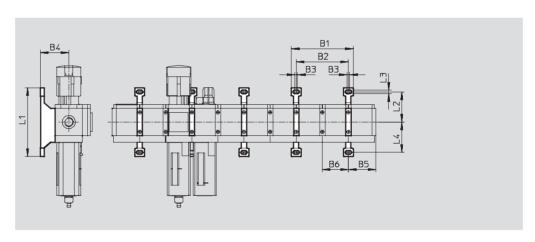
2

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



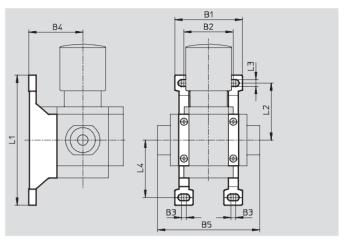
Accessories

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





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

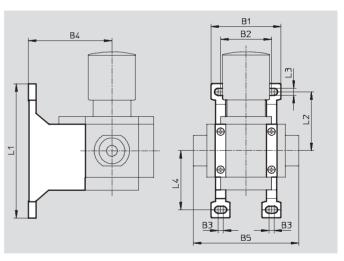
Mounting bracket MS4-WPB

- 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	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	

FESTO

Accessories

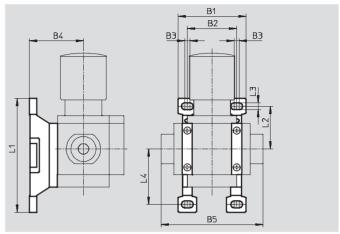
Mounting bracket MS4-WPM

- 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	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./ 3	4.86	3.65 1.37	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



Accessories

Ordering Data - S	Ordering Data – Special Oil OFSW										
	Description	Scope of delivery	Part No.	Туре							
	for lubricators	1 liter	152811	OFSW-32							

Product Range and Company Overview

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Custom Control CabinetsComprehensive engineering support and on-site services



Complete SystemsShipment, stocking and storage services

The Broadest Range of Automation Components

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
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
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and I/O devices

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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 11,500 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

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