



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: 1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 NPT

• Supply pressure: 15 ... 235 psi

• Flow rate: 88.3 ... 254.2 scfm

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
MS6N			AG	R	U	Z
LOE	88.3 254.2	1/4 NPT, 3/8 NPT, 1/2 NPT	1/4 NPT, 3/8 NPT, 1/2 NPT, 3/4 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 344 ISO class VG 32

32 mm²/s (= cSt) at 40°C

- Festo special oil OFSW-32
 - **→** 920
- ARAL Vitam GF 32
- BP Energol HLP 32
- Esso Nuto H 32
- Mobil DTE 24
- Shell Tellus Oil DO 32

Contents

Technical Data → 908
Dimensional Drawings → 910
Ordering Data → 910
Accessories → 912

→ www.festo.com/catalog/ms6n-loe

FESTO

Technical Data

ISO Symbol





General Technical Data										
Pneumatic connection 1, 2		1/4 NPT	3/8 NPT	1/2 NPT						
Supply pressure	[psi]	15 235								

Standard Nominal Flow Rate qnN [scfm]											
Pneumatic connection 1, 2	1/4 NPT	3/8 NPT	1/2 NPT								
In main flow direction 1 2	88.3	187.1	254.2								

Operating and Environmental	Conditions	
Minimum flow for lubricator operation	[scfm]	1.8
Operating medium		Filtered compressed air, filtration grade 40 µm
Max. oil capacity	[in ³]	4.58 (with plastic bowl guard) 4.88 (with metal bowl)
Bowl guard		Plastic bowl guard Metal bowl
Ambient temperature	[°F]	32 140
Temperature of medium	[°F]	32 140
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	1.20
With metal bowl	1.62

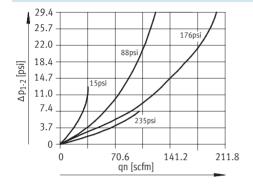
• For spare parts go to: www.festo.com/en/spare_parts_service

FESTO

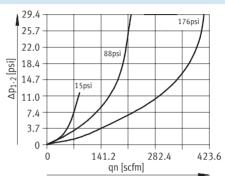
Technical Data

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

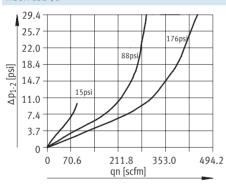
MS6N-LOE-1/4



MS6N-LOE-3/8

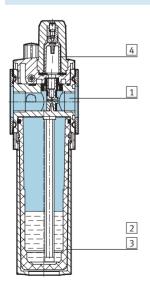


MS6N-LOE-1/2



Materials

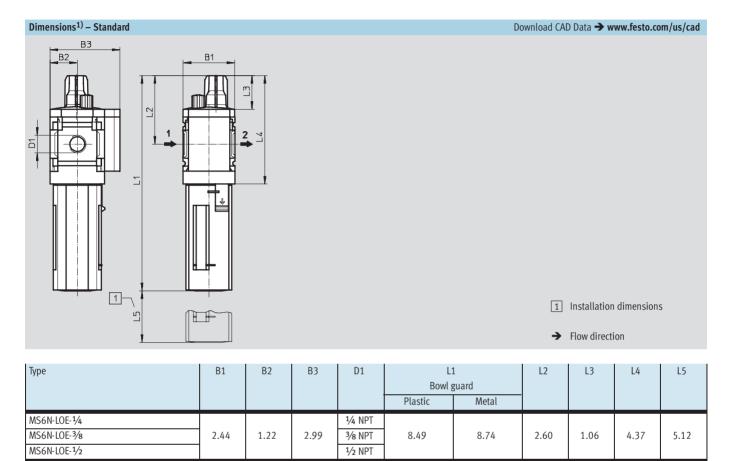
Sectional view



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	Plastic bowl with plastic bowl guard					
	Part No. Type	LT		Part No. Type	LT		
1/4 NPT	531710 MS6N-LOE-1/4-R	1D		531716 MS6N-LOE- ¹ / ₄ -U	Q		
3/8 NPT	531712 MS6N-LOE-3/8-R	1D	Ī	531718 MS6N-LOE-3/8-U	Q		
1/2 NPT	531711 MS6N-LOE-½-R	1D		531717 MS6N-LOE-1/2-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	Mandatory Data												O Options			
Part No.	S	eries	Size	Thread		Function		Connection size		Bowl		Type of mounting		Reverse flow direction		
527675	N	15	6	N		LOE		1/4, 3/8, 1/2, AQN, AQP, AQR, AQS		R U		WP WPM WB		Z		
Order example 527675	N	1S	6	N	_	LOE	_	AQN	-	R	_	WP	_	Z		

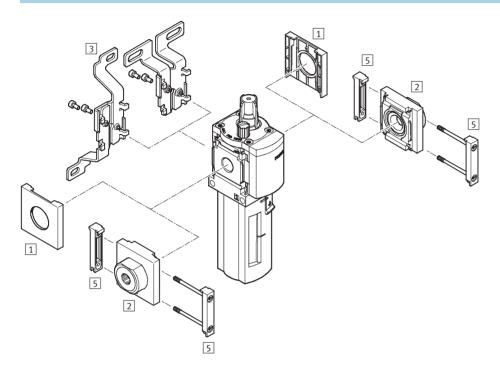
Or	dering Table				
Gr	id dimension [mm]	62	Conditions	Code	Enter code
M	Part No.	527675			
	Series	Standard		MS	MS
	Size	6		6	6
	Thread	NPT thread		N	N
	Function	Lubricators		-LOE	-LOE
	Connection size	Body thread 1/4 NPT		-1/4	
		Body thread 3/8 NPT		-3/8	
		Body thread 1/2 NPT		-1/2	
		Port plate ⅓ NPT (dimensions → 916)		-AQN	
		Port plate 3/8 NPT (dimensions → 916)		-AQP	
		Port plate ½ NPT (dimensions → 916)		-AQR	
		Port plate ¾ NPT (dimensions → 916)		-AQS	
	Bowl	Plastic bowl with plastic bowl guard		-R	
		Metal bowl		-U	
0	Type of mounting	Mounting bracket (dimensions → 917)	1	-WP	
		Mounting bracket (dimensions → 917)	1	-WPM	
		Mounting bracket (dimensions → 914)		-WB	
	Reverse flow direction	Flow direction from right to left		-Z	

WP, WPM Only with port plate AQN, AQP, AQR or AQS

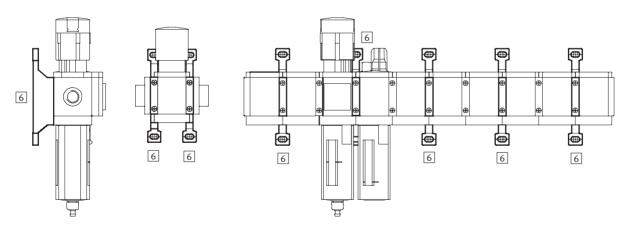
Transfer order code														
527675		MS	6	N	-	LOE	-		-		-		-	

Accessories Overview

Mounting Attachments and Accessories



Single unit and combination unit mounting brackets.





Accessories Overview

Moun	ting Attachments and Accessories					
		Single unit		Combination unit →	→ Page	
		without port plate	with port plate	without port plate	with port plate	
1	Cover cap MS6-END	•	-	•	-	915
2	Port plate MS6N-AQ	-	•	-	•	916
3	Mounting bracket MS6-WB	•	•	-	-	914
5	Body connector MS6-MV	-	•	•	•	916
6	Mounting bracket MS6-WP/WPB/WPM	-	-	•	•	917

2007/10 – Subject to change – MS Series



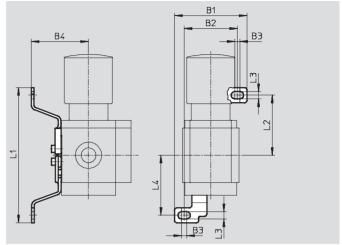
Accessories

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				

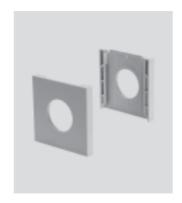
FESTO

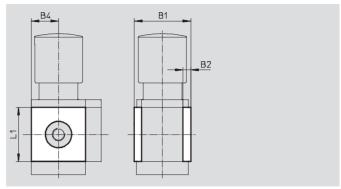
Accessories

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.	Туре					
2.64	0.31	1.22	2.44	538780	MS6-END					

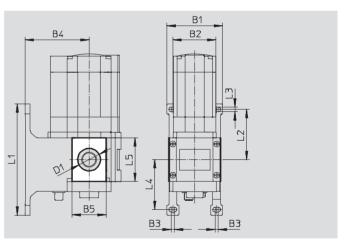
Mounting plate MS6-AEND

(order code: WBE; scope of delivery includes mounting bracket MS6-WPB)

 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	B	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.

FESTO

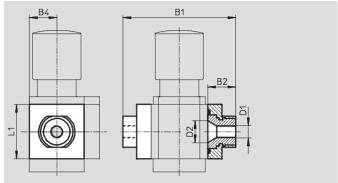
Accessories

3 Port plate MS6N-AQ...

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

Material: Aluminum





Dimensions and C	Dimensions 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	1.04		1/2 NPT	0.94			526078	MS6N-AQR						
			3/4 NPT				526079	MS6N-AQS						

5 Body connector MS...-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...

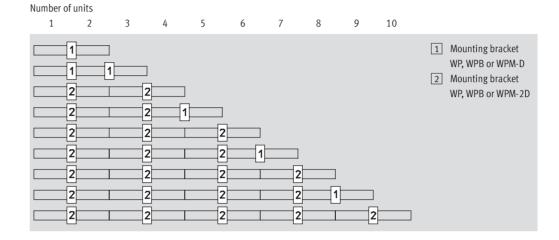
Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 2.44 in with WP, WPB

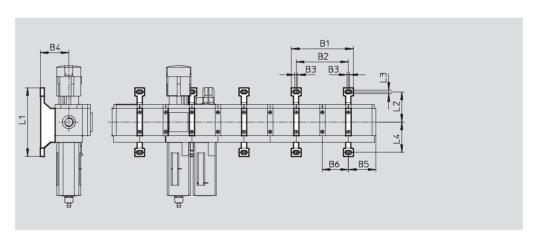
2.715 in with WPM-D

2 units: 4.88 in with WP, WPB

5.43 in with WPM-2D



Mounting dimensions



Туре	B1	B2	В3	B4	B5	B6	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	0.10	3.56	2.34	2.44	0.22	2.00	0.26	2.00
MS6-WPMD	6.61	5.43	0.69	2.13	2.58	2.72	3.88	1.63		1.63



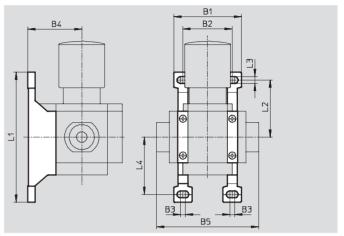
Accessories

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		

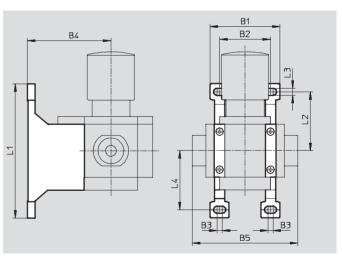
Mounting bracket MS6-WPB

- 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	Dimensions 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

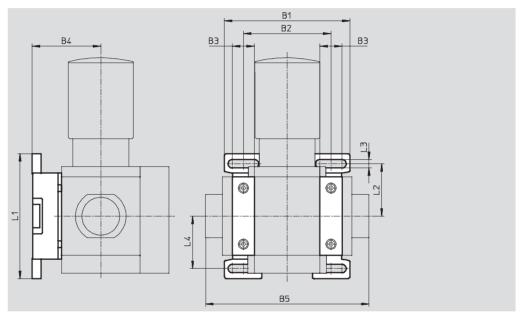
- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

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	0.60	2.13	5.08	3.88	1.63	0.26	1.63	2.44	0.29	526073	MS6-WPM-D		
6.61	5.43	0.69	0.69	0.69	2.17	7.80	7.00	1.05	0.20	1.05	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



Accessories

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

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation ComponentsComplete custom engineered solutions



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.



ElectromechanicalElectromechanical actuators, motors, controllers & drives



PneumaticsPneumatic linear and rotary actuators, valves, and air supply



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

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 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.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Festo North America

United States

Customer Resource Center

502 Earth City Expy., Suite 125 Earth City, MO 63045

For ordering assistance, or to find your nearest Festo Distributor, **Call:** 1.800.99.FESTO **Fax:** 1.800.96.FESTO

Email: customer.service@us.festo.com

For technical support,
Call: 1.866.GO.FESTO
Fax: 1.800.96.FESTO

Email: product.support@us.festo.com

Headquarters

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

Sales Offices

Appleton

N. 922 Tower View Drive, Suite N Greenville, WI 54942

Boston

120 Presidential Way, Suite 330 Woburn, MA 01801

Chicago

1441 East Business Center Drive Mt. Prospect, IL 60056

Dallas

1825 Lakeway Drive, Suite 600 Lewisville, TX 75057

Detroit - Automotive Engineering Center 2601 Cambridge Court, Suite 320 Auburn Hills, MI 48326

New York

395 Moreland Road Hauppauge, NY 11788

Silicon Valley

4935 Southfront Road, Suite F 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: 4935 Southfront Road, Suite F, Livermore, CA 94550

Mexico

Headquarters

Festo Pneumatic, S.A.

Av. Ceylán 3, Col. Tequesquinahuac
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



Festo Worldwide

Argentina Australia Australia Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela