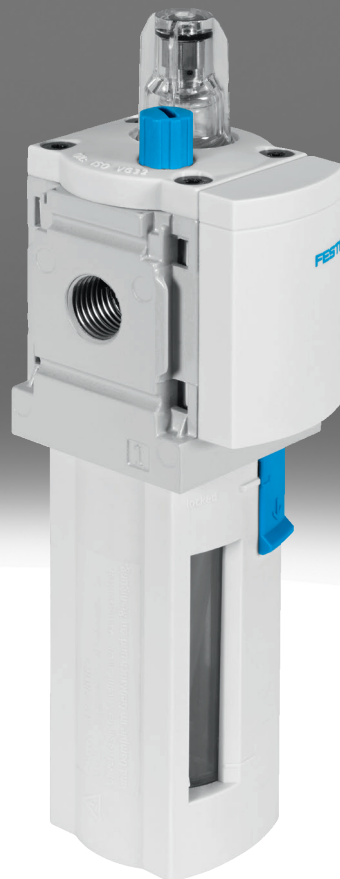


Air line lubricator MS4N-LOE

FESTO



Characteristics

At a glance

Very compact series for use close to the process directly on the machine

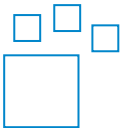
- Width dimension: 40 mm
- Proportional lubricator with precision oil dosing
- Reduces wear on drive units subject to high loads
- High flow rate performance
- Quick and easy oil top-up even during operation (under pressure)

The following oils are recommended for Festo devices (viscosity range according to ISO 3448, ISO class VG 32, 32 mm²/s (= cSt) at 40°C):

- Festo special oil OFSW-32 (see accessories)
- Castrol HySpin ZZ 32
- BP Energol HLP 32
- Mobile Nuto H 32
- Mobile DTE 24
- Shell Tellus S2 MA 32

Ordering data - modular system

Link [ms4n-loe](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

Function

The proportional lubricator supplies finely adjustable quantities of oil to the compressed air. The pressure gradient created when oil flows through a venturi nozzle is used to convey oil from a reservoir to the drip cap. From there, the oil droplet flows just behind the proportional valve into the air duct, where it is atomized. The oil mist content is proportional to the flow rate of the compressed air.

Pneumatic connection

The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

Bowl type

Shell guard selectable either as plastic bowl guard or integrated as metal shell.

Type of mounting

[WP]

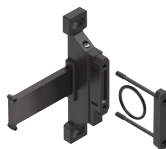
Mounting bracket standard design



- For connecting the modules for wall mounting
- In conjunction with sub-base MS4-AG... for wall mounting of an individual device
- In conjunction with mounting plate MS4-AEND for wall mounting of a single device
- With equal wall distance for mixing combination with series MS4 and MS6

[WPM]

Mounting bracket for hooking in air preparation units



- For connecting the modules for wall mounting
- In conjunction with sub-base MS4-AG... for wall mounting of an individual device
- Fast hooking and unhooking
- For installing modules with regulator knob pointing downwards

Characteristics

[WB]	Mounting centrally at rear (wall mounting top and bottom), sub-bases not required	[WBM]	Mounting centrally at rear (wall mounting top), sub-bases not required
	• For wall mounting an individual device		• For wall mounting an individual device

Flow direction

Available with opposite flow direction.

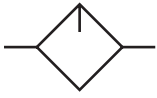
Type code

001	Series	
MS	MS series	
002	Size	
4	Width dimension 40 mm	
003	Thread type	
N	NPT thread	
004	Function	
LOE	Compressed air lubricator	
005	Pneumatic connection, inch	
1/8	Internal thread NPT 1/8	
1/4	Internal thread NPT 1/4	
AQK	Sub-base NPT1/8	
AQN	Sub-base NPT1/4	
AQP	Sub-base NPT3/8	

006	Bowl type	
R	Plastic bowl with plastic bowl guard	
U	Aluminum	
007	Type of mounting	
	Without mounting bracket	
WB	Mounting centrally at rear (wall mounting top and bottom), sub-bases not required	
WBM	Mounting centrally at rear (wall mounting top), sub-bases not required	
WP	Mounting bracket standard design	
WPM	Mounting bracket for hooking in air preparation units	
008	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data



Pneumatic connection 1	1/8 NPT		1/4 NPT	
Bowl type	Plastic bowl with plastic bowl guard	Aluminum	Plastic bowl with plastic bowl guard	Aluminum
Pneumatic connection 2	1/8 NPT		1/4 NPT	
Structural design	Proportional standard oil mist lubricator			
Type of mounting	Optionally: Line installation With accessories			
Mounting position	Vertical +/- 5°			
Minimum flow rate for lubricator function	40 l/min			
Max. oil capacity	30 ml	36 cm³	30 ml	36 cm³

Standard nominal flow rate qnN

Pneumatic connection 1	1/8 NPT	1/4 NPT
Normal nominal flow rate (normalized to DIN 1343) ¹⁾	1,100 l/min	2,200 l/min

1) In main flow direction 1->2

Operating and environmental conditions

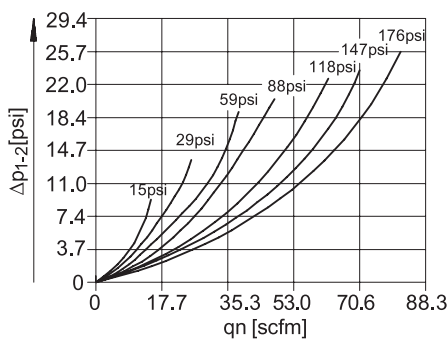
Operating pressure	1 ... 12 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gases
Information on operating and pilot media	Operation with oil lubrication possible
Ambient temperature	-10 ... 60°C
Temperature of medium	-10 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class (CRC) ¹⁾	2 - Moderate corrosion stress

1) For more information, visit www.festo.com/x/topic/kbk

Materials

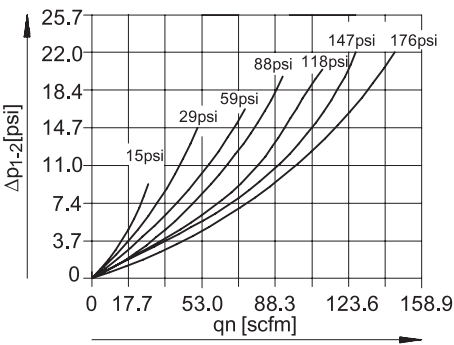
Bowl type	Plastic bowl with plastic bowl guard	Aluminum
Housing material	Die-cast aluminum	
Material of bowl	PC	Die-cast aluminum, Wrought aluminum alloy
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

Normal flow rate qn as a function of the differential pressure p1-2 (MS4N-LOE-1/8)



Datasheet

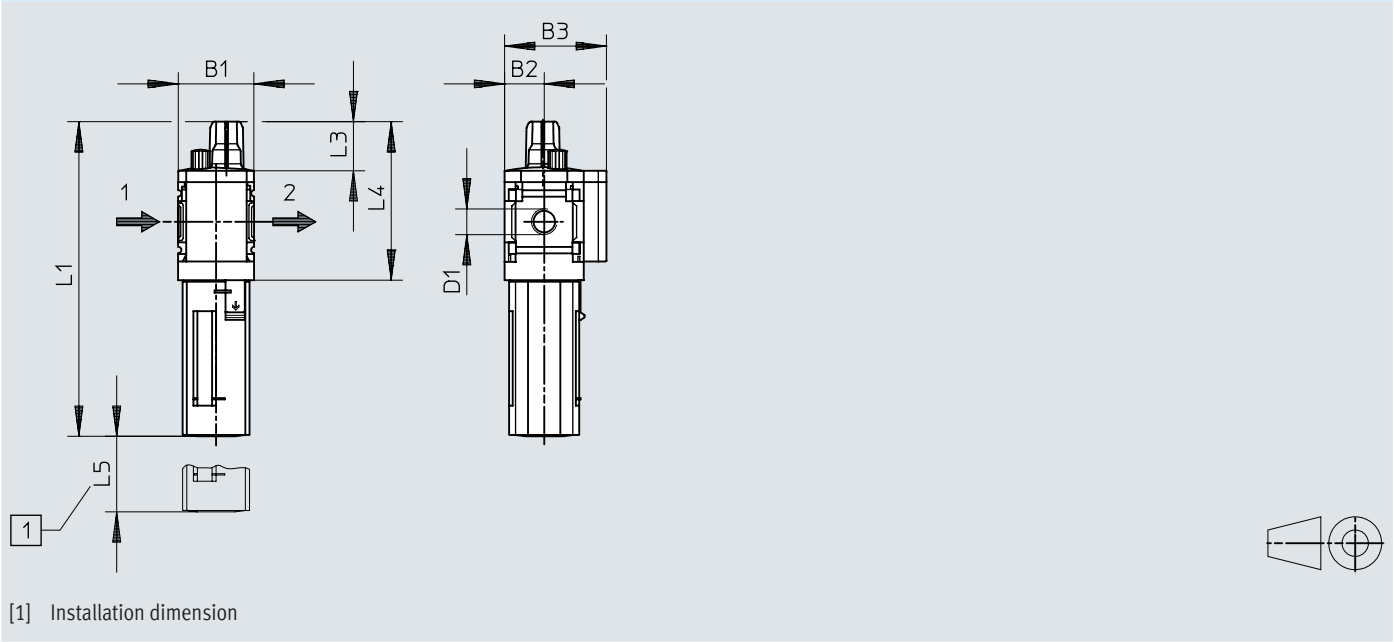
Standard flow rate qn as a function of differential pressure p1-2 (MS4-LOE-1/4)



Dimensions

Dimensions – Basic type

Download CAD data www.festo.com

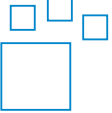


	B1	B2	B3	D1	¹⁾ L1	²⁾ L1	L2	L3	L4	L5
	[inch]	[inch]	[inch]		[inch]	[inch]	[inch]	[inch]	[inch]	[inch]
MS4N-LOE-1/8	1,65	0,83	2,13	1/8 NPT	6,56	7,28	2,09	1,02	3,33	3,94
MS4N-LOE-1/4				1/4 NPT						

- 1) Bowl guard, polymer
- 2) Bowl guard, metal

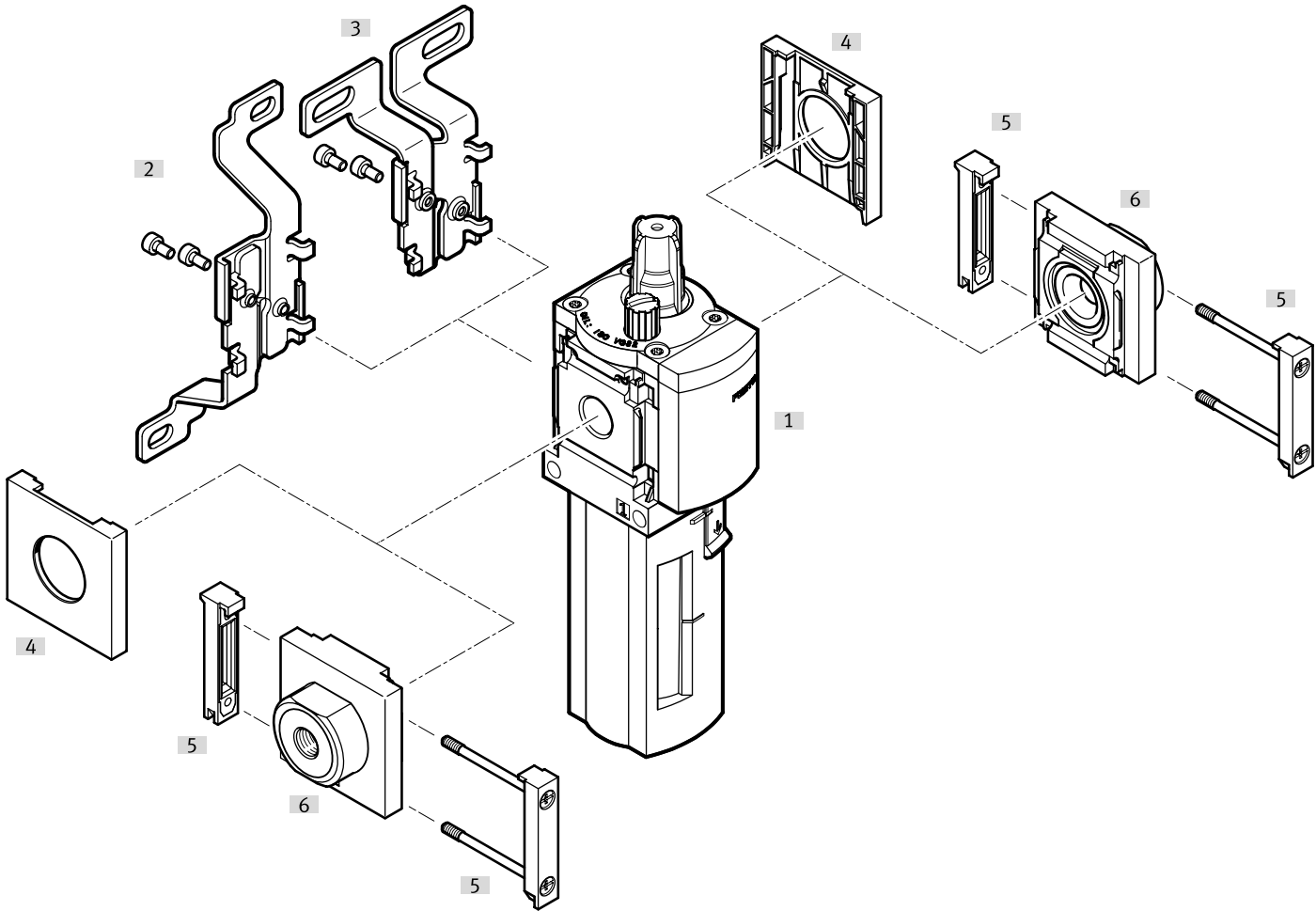
Ordering data

Ordering data						
	Pneumatic connection 1	Bowl type	Flow direction	Product weight	Part no.	Type
	1/8 NPT	Plastic bowl with plastic bowl guard	Flow direction from left to right	194 g	531703	MS4N-LOE-1/8-R
		Aluminum		354 g	535799	MS4N-LOE-1/8-U
	1/4 NPT	Plastic bowl with plastic bowl guard		194 g	531702	MS4N-LOE-1/4-R
		Aluminum		354 g	535798	MS4N-LOE-1/4-U

Ordering data– Modular product system			
	Type code	Part no.	Type
	MS4N-LOE	527702	MS4N-LOE

Peripherals overview

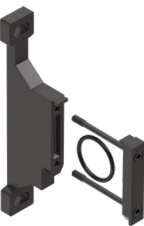
Peripherals overview



Accessories		→ Page/Internet
Type/order code	Description	
[1] Lubricator MS4N-LOE		ms4n-loe
[2] Mounting bracket MS4-WB	for single device	10
[3] Mounting bracket MS4-WBM	for single device	10
[4] Cover cap MS4-END	for devices without connection plate	11
[5] Module connector MS4-MV1	for appliance combinations and individual appliances with connection plate	10
[6] Sub-base-SET MS4-A...	for device combinations	11

Accessories

Module connector MS4-MV1						
	Size	Module connector material	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	POM, High-alloy stainless steel	VDMA24364-B1/B2-L	13 g	8119201	MS4-MV1

Mounting bracket MS4-WP...						
	Size	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	Die-cast aluminum	VDMA24364-B1/B2-L		558869	MS4-WPE
				39 g	532184	MS4-WP
				45 g	526060	MS4-WPM-D
				55 g	526063	MS4-WPB
					526061	MS4-WPM-2D

Mounting bracket MS4-WB						
	Size	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	Steel	VDMA24364-B1/B2-L	46 g	532185	MS4-WB

Mounting bracket MS4-WBM						
	Size	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	Steel	VDMA24364-B1/B2-L	48 g	526062	MS4-WBM

Accessories

Cover cap MS4-END					
	Size	Housing material	LABS (PWIS) conformity	Part no.	Type
	4	PA-reinforced	VDMA24364-B1/B2-L	538779	MS4-END

Sub-base SET MS4-AQ...						
	Size	Pneumatic connection 1	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	1/4 NPT	VDMA24364-B1/B2-L	300 g	526076	MS6N-AQN
		3/8 NPT			526077	MS6N-AQP
		1/2 NPT			526078	MS6N-AQR
		3/4 NPT			526079	MS6N-AQS

Special oil OFSW (1 liter)			
	Type code	Part no.	Type
	OFSW	152811	OFSW-32