

Air line lubricator MS12-LOE

FESTO



Characteristics

At a glance

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

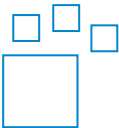
- Width dimension: 124 mm
- Proportional lubricator with precision oil dosing
- Reduces wear on drive units subject to high loads
- High flow rate performance
- Quick and easy oil top-up even during operation (under pressure)

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 [ms12-loe](#)



Configurable product

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

Diagrams

Link [ms12-loe](#)



The diagrams shown in this document are also available online. There, it is possible to display precise values.

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 protection by means of integrated metal shell.

Type of mounting

[WP] Mounting bracket standard design



- Mounting attachment and connector for air preparation unit combination or for individual device with port plates
- For size 4, 6, 9 or 12

Characteristics

Flow direction

Available with opposite flow direction.

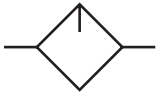
Type code

001	Series	
MS	MS series	
002	Size	
12	Width dimension 124 mm	
003	Function	
LOE	Compressed air lubricator	
004	Pneumatic connection	
AGF	Sub-base G1	
AGG	Sub-base G1 1/4	
AGH	Sub-base G1 1/2	
AGI	Sub-base G2	
G	Module without connecting thread, without sub-base	

005	Bowl type	
U	Aluminum	
006	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket standard design	
007	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data



Pneumatic connection 1	Internal
Pneumatic connection 2	Internal
Structural design	Proportional standard oil mist lubricator
Type of mounting	Alternatively: In-line installation With retaining bracket With accessories
Mounting position	Vertical $\pm 5^\circ$
Bowl guard	Integrated as metal bowl
Minimum flow rate for lubricator function	400 l/min
Max. oil capacity	1,500 cm ³

Standard nominal flow rate qnN

Normal nominal flow rate (normalized to DIN 1343) ¹⁾	20,000 ... 22,000 l/min
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1) in main flow direction 1→2;

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

Depending on the selected connection plate, must be ordered separately as an accessory → Further information www.festo.com/catalogue/ms12-ag

Operating and environmental conditions

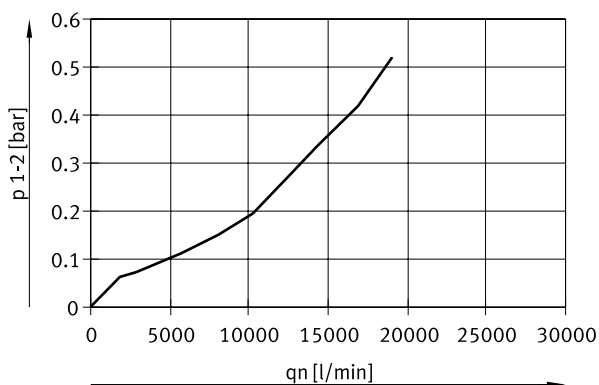
Operating pressure	1 ... 16 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	0 ... 60°C
Temperature of medium	0 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class (CRC) ²⁾	2 - Moderate corrosion stress

2) Further information, visit www.festo.com/x/topic/kbk

Materials

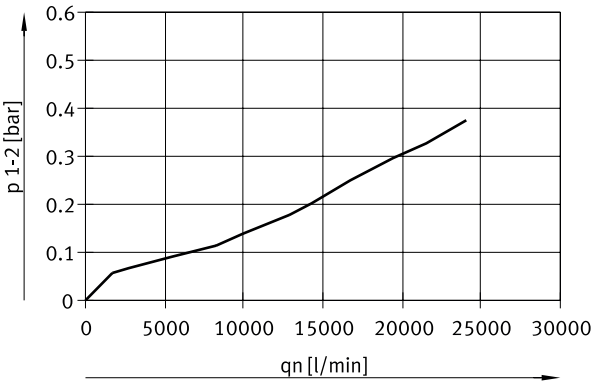
Bowl type	Aluminum
Housing material	Die-cast aluminum
Material of bowl	Wrought aluminum alloy
Seals material	NBR
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Standard flow rate qn as a function of differential pressure p₁₋₂ (pneumatic connection G1 with connecting plate MS12-AGF)

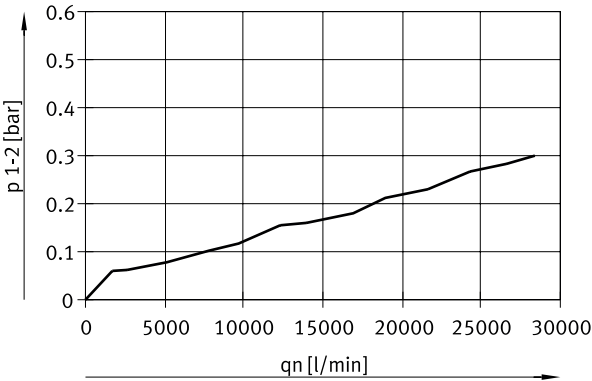


Datasheet

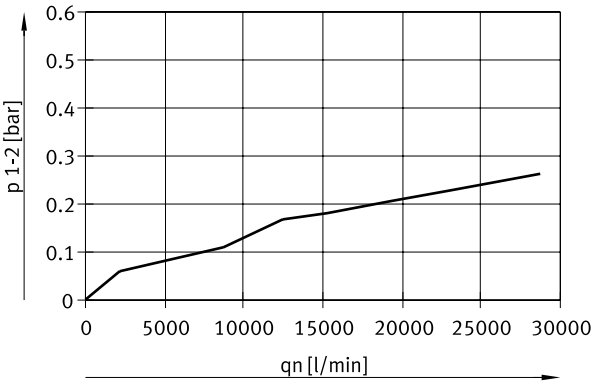
Standard flow rate q_n as a function of differential pressure p_{1-2} (pneumatic connection G1 1/4 with connecting plate MS12-AGG)



Standard flow rate q_n as a function of differential pressure p_{1-2} (pneumatic connection G1 1/2 with connecting plate MS12-AGH)



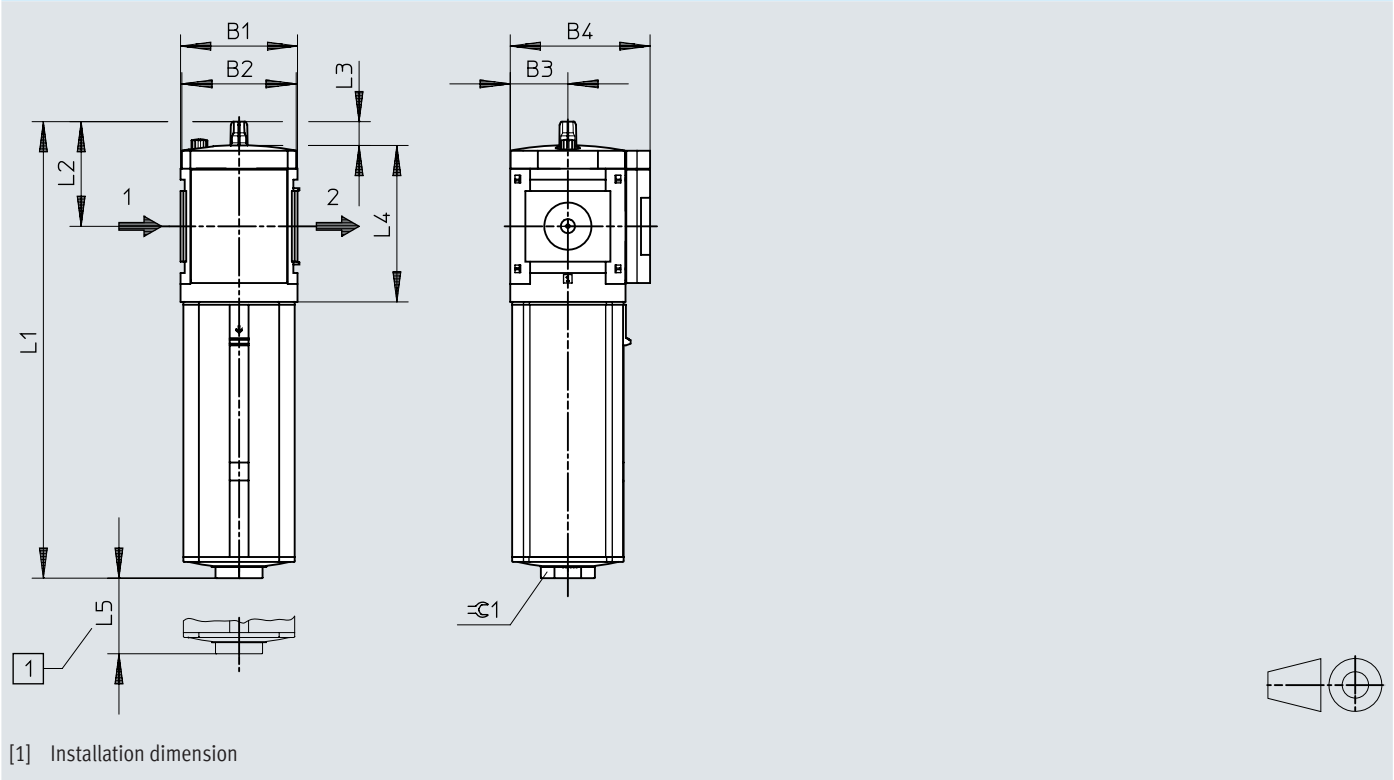
Standard flow rate q_n as a function of differential pressure p_{1-2} (pneumatic connection G2 with connecting plate MS12-AGI)



Dimensions

Dimensions – Basic type

Download CAD data www.festo.com



	B1	B2	B3	B4	L1	L2	L3	L4	L5	⌀ 1
MS12-LOE	124	122	61	148	483	111	25	166	300	50

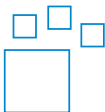
Ordering data

Ordering data



Pneumatic connection 1	Bowl type	Flow direction	Product weight	Part no.	Type
Internal	Aluminum	Flow direction from left to right	6,500 g	537156	MS12-LOE-G-U

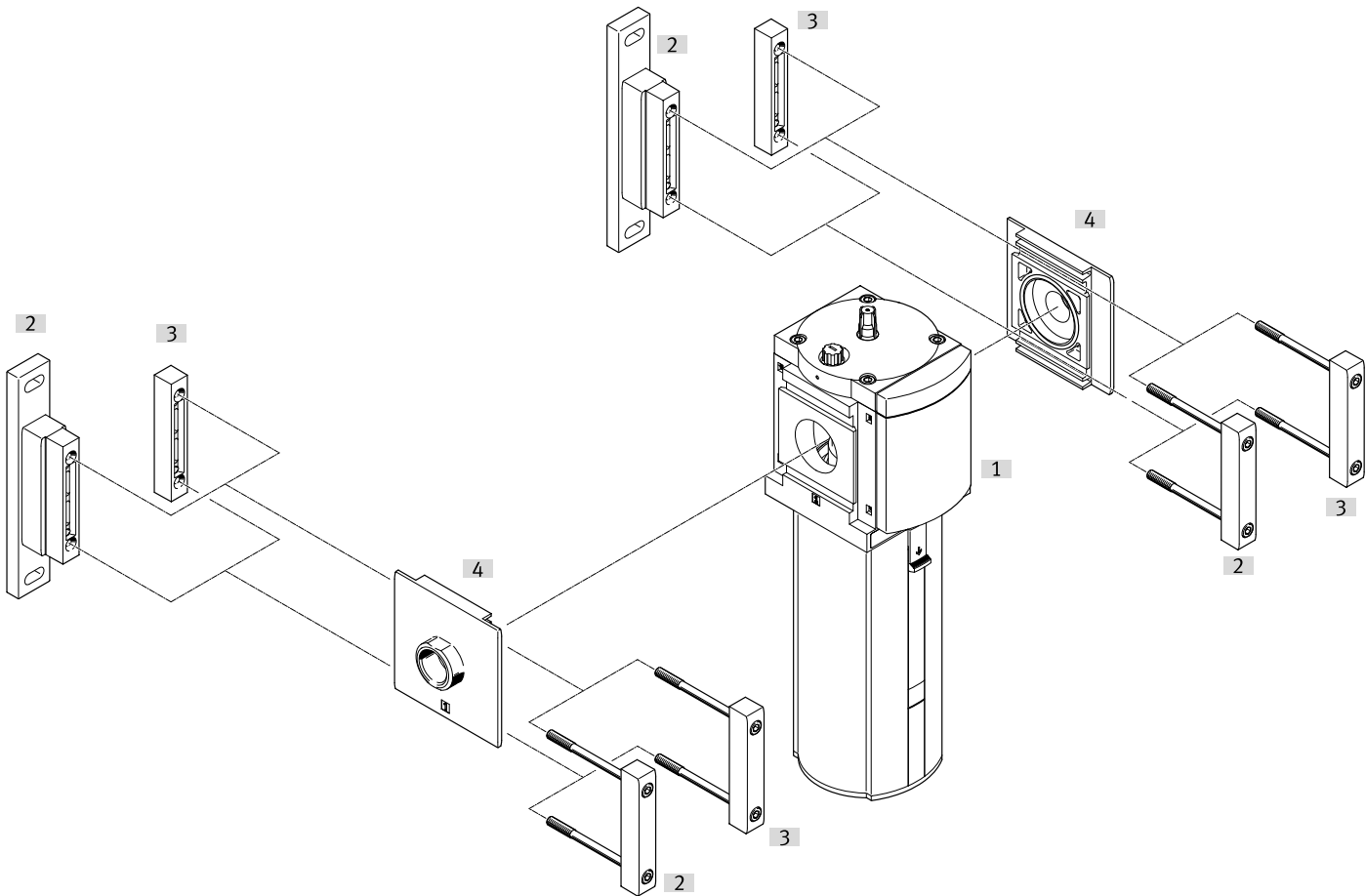
Ordering data– Modular product system



Type code	Part no.	Type
MS12	535041	MS12-LOE

Peripherals overview

Peripherals overview



Accessories		→ Page/Internet
Type/order code	Description	
[1] Lubricator MS12-LOE		ms12-loe
[2] Sub-base SET MS12-AG...	for device combinations	10
[3] Module connector MS12-MV	for appliance combinations and individual appliances with connection plate	10
[4] Mounting bracket MS12-WP	for single device	10

Accessories

Module connector MS6-MV1



Size	Product weight	Part no.	Type
12	500 g	537134	MS12-MV

Mounting bracket MS6-WP...



Size	Product weight	Part no.	Type
12	700 g	537133	MS12-WP

Sub-base-SET MS6-AG...



Size	Pneumatic connection 1	Product weight	Part no.	Type
12	G1	1,300 g	537135	MS12-AGF
	G1 1/4		537136	MS12-AGG
	G1 1/2		537137	MS12-AGH
	G2		537138	MS12-AGI

Special oil OFSW (1 liter)



Type code	LABS (PWIS) conformity	Part no.	Type
OFSW	VDMA24364-B2-L	152811	OFSW-32