

Lubricator MS12-LOE

FESTO



Characteristics

At a glance

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

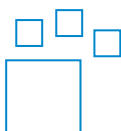
- Grid dimension: 124 mm
- Proportional lubricator with precision oil dosing
- Reduces wear on drive units subject to high loads
- High flow rate performance
- Quick and easy oil top-up even during operation (under pressure)

The following oils are recommended for Festo components (viscosity range 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
- Mobil Nuto H 32
- Mobil 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. These can be used to display precise values.

Function

The proportional lubricator adds a precisely adjustable amount of oil to the compressed air. The pressure drop that occurs when air flows through a Venturi nozzle is used to feed oil from a reservoir to the drip cap. From there, the oil drips into the air duct directly behind the proportional valve, where it is atomised. The amount of oil mist is proportional to the compressed air flow rate.

Pneumatic connection

By installing connecting plates it is easier to replace the module if necessary (e.g. when using piping).

Bowl type

Bowl guard tanks to integrated metal bowl.

Type of mounting

[WP] Mounting bracket basic design



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

Characteristics

Flow direction

Available with flow in the opposite direction.

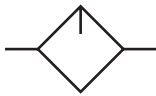
Type code

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

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

Datasheet

General technical data



Pneumatic connection, port 1	Internal
Pneumatic connection, port 2	Internal
Design	Proportional standard mist lubricator
Type of mounting	Either: Inline installation With mounting bracket With accessories
Mounting position	Vertical $\pm 5^\circ$
Bowl guard	Integrated as metal bowl
Min. flow rate for lubricator function	400 l/min
Max. oil capacity	1,500 cm ³

Standard nominal flow rate q_{nN}

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

Measured at $p_1 = 6$ bar and $\Delta p = 1$ bar.

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

Operating and environmental conditions

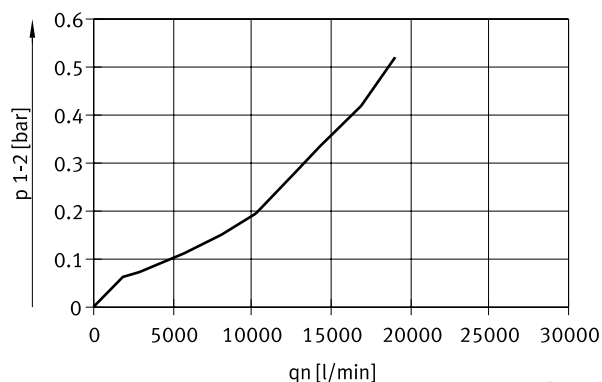
Operating pressure	1 ... 16 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	0 ... 60°C
Media temperature	0 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress

2) More information www.festo.com/x/topic/crc

Materials

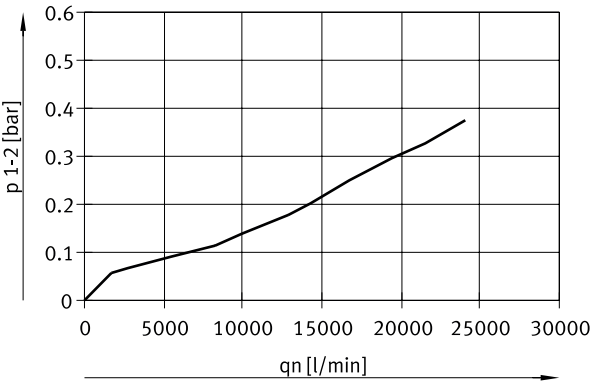
Bowl type	Aluminium
Material housing	Die-cast aluminium
Material bowl	Wrought aluminium alloy
Material seals	NBR
LABS (PWIS) conformity	VDMA24364-B1/B2-L

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

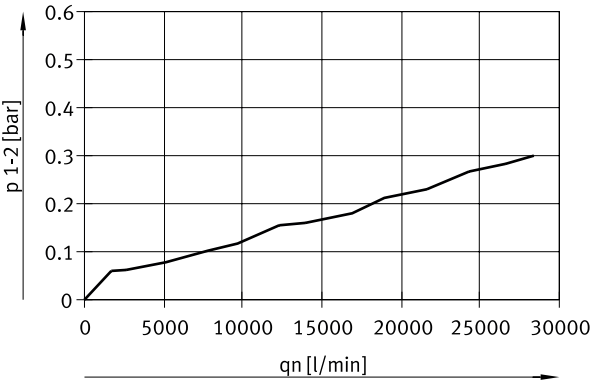


Datasheet

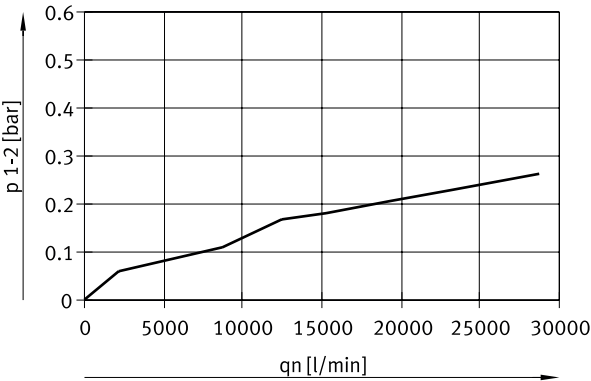
Standard flow rate q_n as a function of differential pressure p_{1-2} (pneumatic connection G1 1/4 with connecting plate MS12-AGG)



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



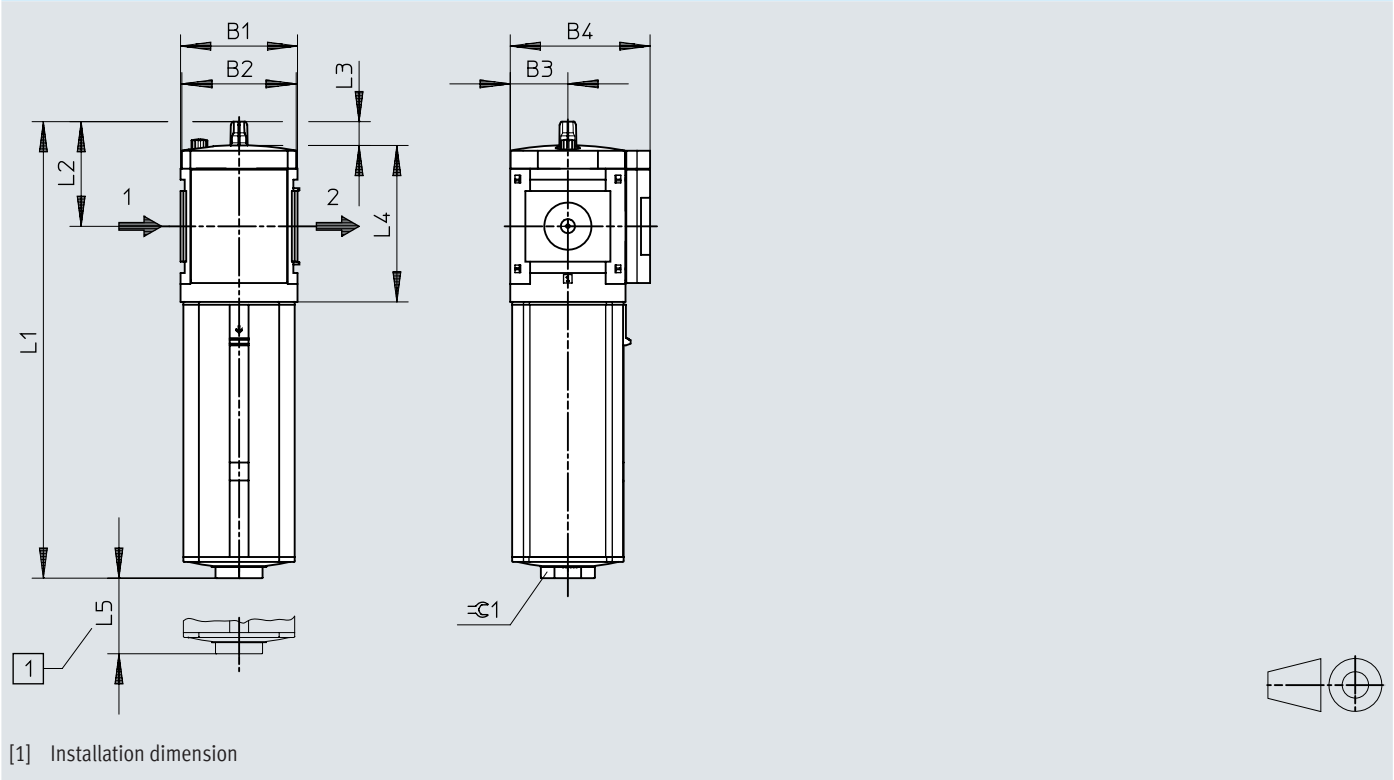
Standard flow rate q_n as a function of differential pressure p_{1-2} (pneumatic connection G2 with connecting plate MS12-AGI)



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

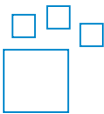
Ordering data

Ordering data



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

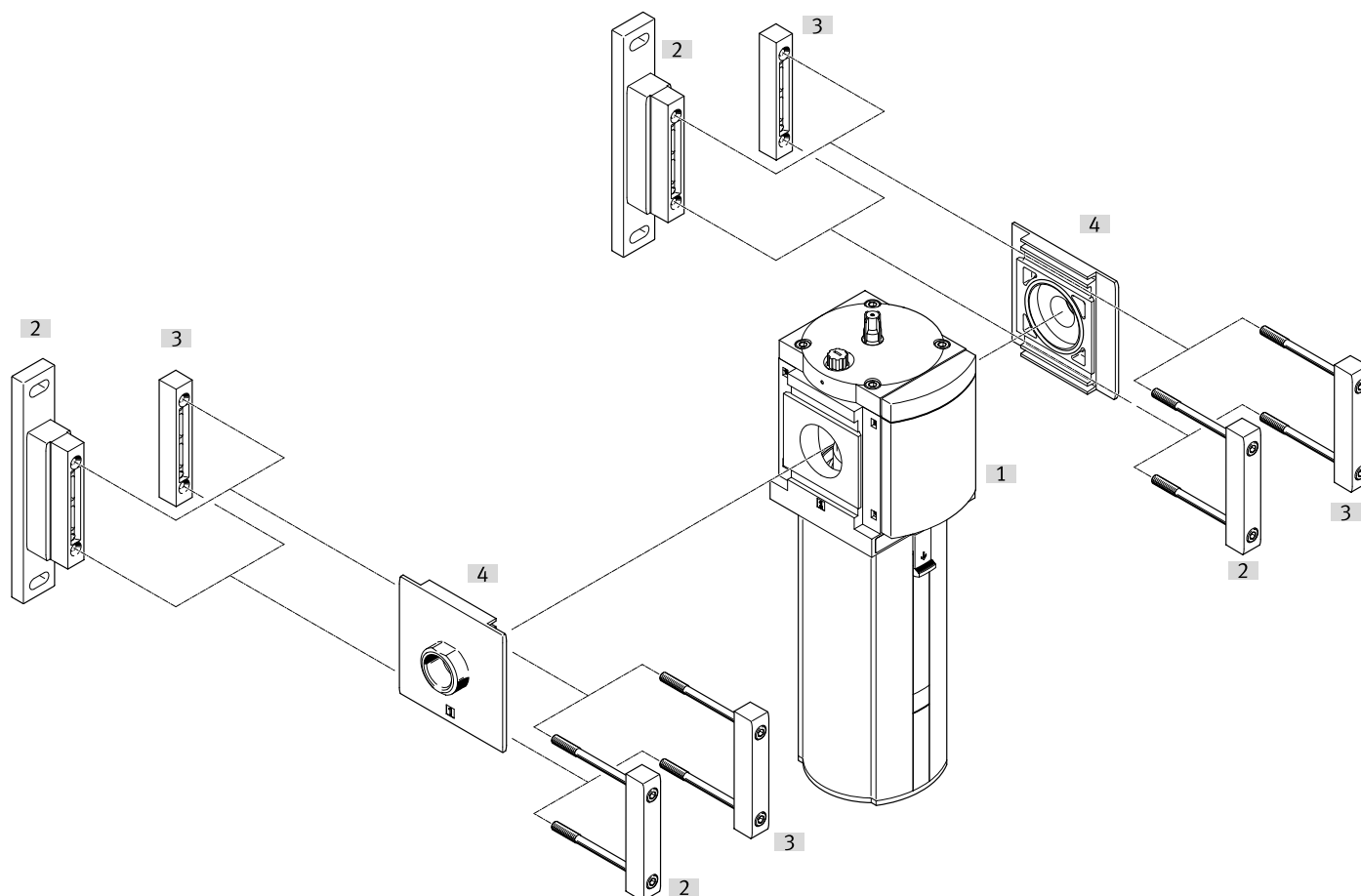
Ordering data – Modular product system



Short type code	Part no.	Type
MS12	535041	MS12-LOE

Peripherals

Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Lubricator MS12-LOE		ms12-loe
[2] Connecting plate SET MS12-AG...	For device combinations	10
[3] Module connector MS12-MV	For device combinations and individual devices with connecting plate	10
[4] Mounting bracket MS12-WP	For individual device	10

Accessories

Module connector MS6-MV1



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

Mounting bracket MS12-WP



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

Connecting plate SET MS12-AG...



Size	Pneumatic connection, port 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 litre)



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