

Air line lubricator MS12N-LOE

FESTO



Characteristics

At a glance

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

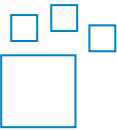
- Width dimension: 124 mm
- Proportional lubricator with precision oil dosing
- Reduces wear on drive units subject to high loads
- High flow rate performance
- Quick and easy oil top-up even during operation (under pressure)

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 [ms12n-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



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

Flow direction

Available with opposite flow direction.

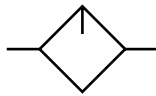
Type code

001	Series	
MS	MS series	
002	Size	
12	Width dimension 124 mm	
003	Thread type	
N	NPT thread	
004	Function	
LOE	Compressed air lubricator	

005	Pneumatic connection, inch	
AQT	Sub-base NPT1	
AQU	Sub-base NPT1 1/4	
AQV	Sub-base NPT1 1/2	
AQW	Sub-base NPT2	
G	Module without connecting thread, without sub-base	
006	Bowl type	
U	Aluminum	
007	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket standard design	
008	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data



Type of mounting	Optionally: Line installation With accessories
Mounting position	Vertical +/- 5°
Bowl type	Aluminum
Minimum flow rate for lubricator function	400 l/min

Standard nominal flow rate qnN				
Pneumatic connection	1 NPT	1 1/4 NPT	1 1/2 NPT	2 NPT
Standard nominal flow rate (standardised to DIN 1343) ¹⁾	20.000 l/min	20.500 l/min	21.000 l/min	22.000 l/min

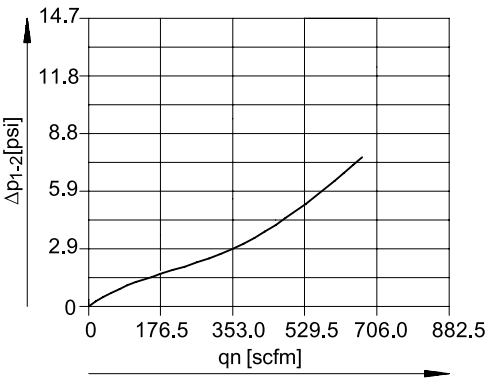
1) in main flow direction 1->2;
Measured at p1 = 6 bar and Δp = 1 bar.
Depending on the selected connection plate, must be ordered separately as an accessory → More information www.festo.com/catalogue/ms12-aq

Operating and environmental conditions	
Operating pressure	1 ... 16 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [:::]
Ambient temperature	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

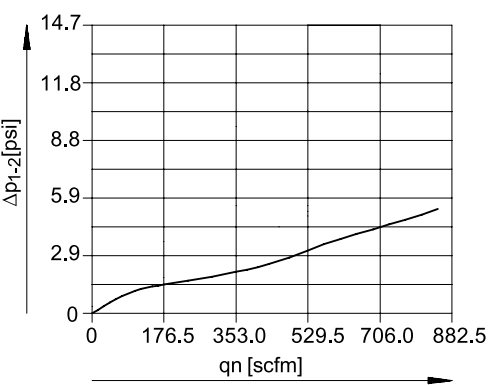
Materials	
Bowl type	Aluminum
Housing material	Die-cast aluminum
Material of bowl	Wrought aluminum alloy
LABS (PWIS) conformity	VDMA24364-B2-L

Normal flow qn as a function of outlet pressure p2 (p1 =147psi) for1NPT with AGF connection plate

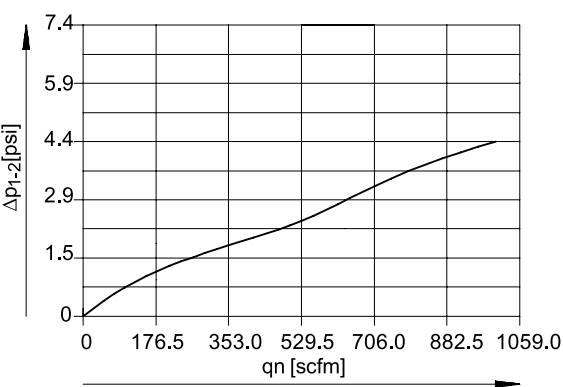


Datasheet

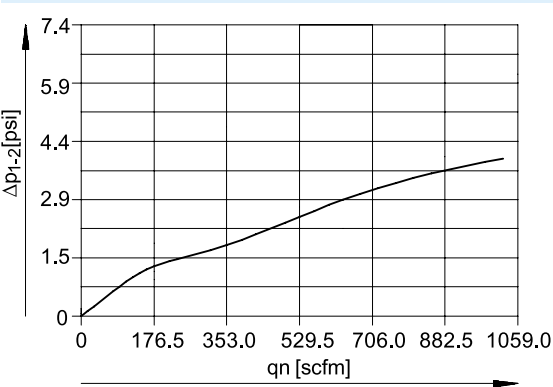
Normal flow q_n as a function of outlet pressure p_2 ($p_1 = 147\text{psi}$) for 11/4NPT with connection plate AGG



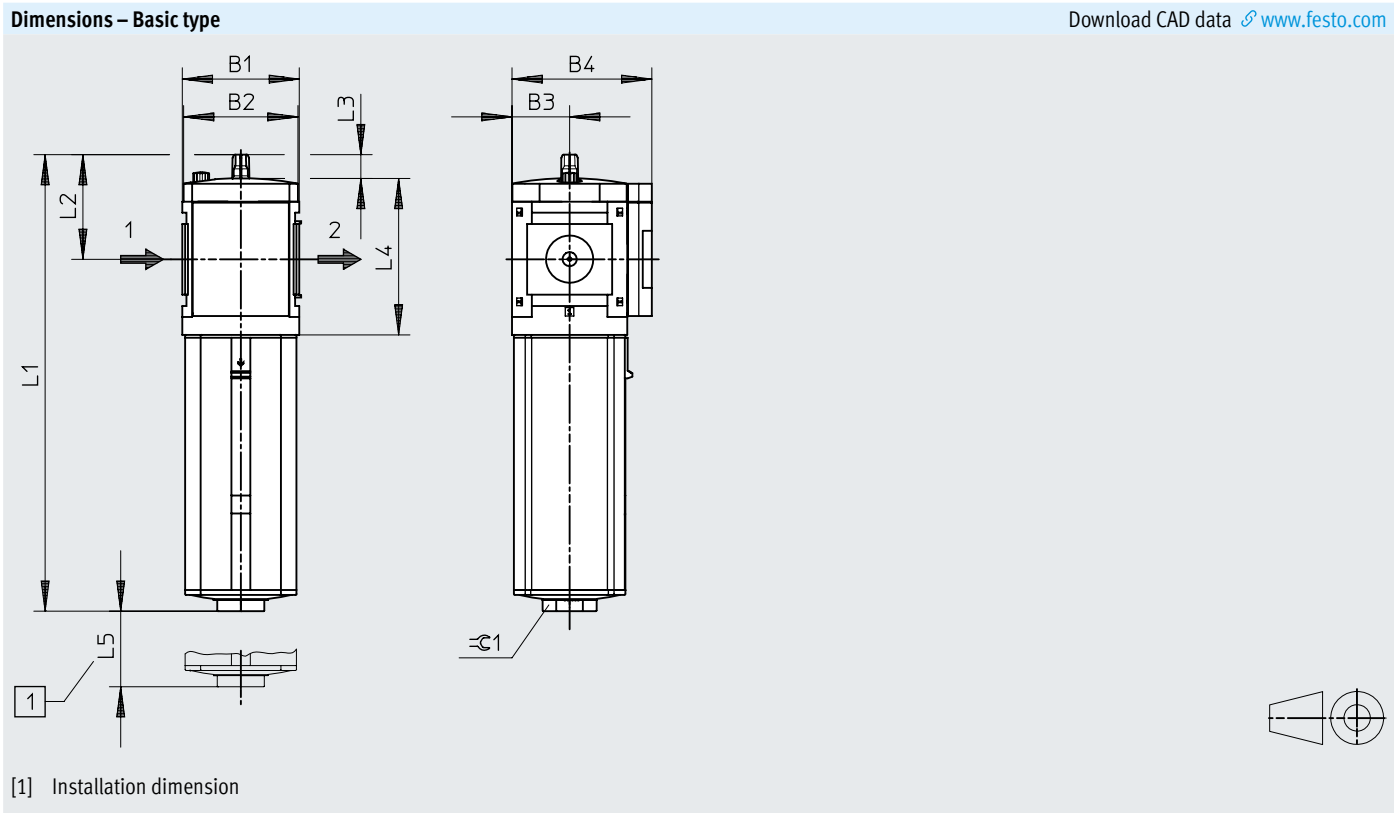
Normal flow q_n as a function of outlet pressure p_2 ($p_1 = 147\text{psi}$) for 11/2NPT with AGH connection plate



Normal flow q_n as a function of outlet pressure p_2 ($p_1 = 147\text{psi}$) for 2NPT with AGI connection plate

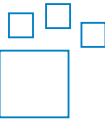


Dimensions



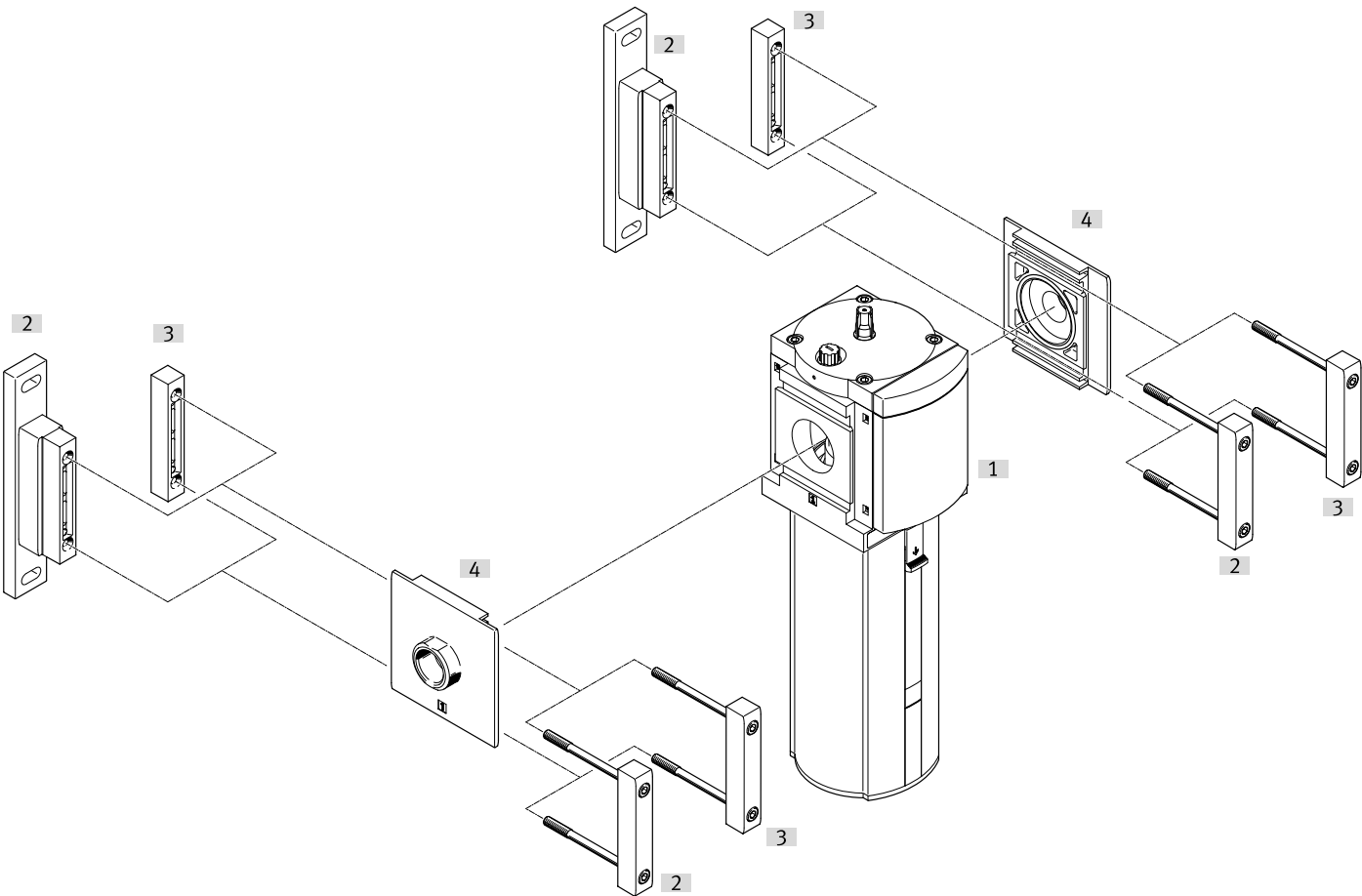
	B1 [inch]	B2 [inch]	B3 [inch]	B4 [inch]	L1 [inch]	L2 [inch]	L3 [inch]	L4 [inch]	L5 [inch]	1/8 [inch]
MS12N-LOE	4,88	4,80	2,40	5,83	19,02	4,37	0,98	6,54	11,81	1,97

Ordering data

Ordering data- Modular product system			
	Type code	Part no.	Type
	MS12	535044	MS12N-LOE

Peripherals overview

Peripherals overview

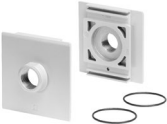


Accessories		→ Page/Internet
Type/order code	Description	
[1] Lubricator MS12N-LOE		ms12n-loe
[2] Sub-base SET MS12-AQ...	Order code [AQ...]; for device combinations	9
[3] Module connector MS12-MV	for appliance combinations and individual appliances with connection plate	9
[4] Mounting bracket MS12-WP	for single device	9

Accessories

Module connector MS6-MV1						
	Size	Plate material	LABS (PWIS) conformity	Product weight	Part no.	Type
	12	Die-cast aluminum	VDMA24364-B1/B2-L	500 g	537134	MS12-MV

Mounting bracket MS6-WP...						
	Size	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	12	Die-cast aluminum	VDMA24364-B1/B2-L	700 g	537133	MS12-WP

Sub-base SET MS12-AQ...						
	Size	Pneumatic connection 1	Material of sub-base	Product weight	Part no.	Type
	12	1 NPT	Die-cast aluminum	1,300 g	537139	MS12-AQT
		1 1/4 NPT			537140	MS12-AQU
		1 1/2 NPT			537141	MS12-AQV
		2 NPT			537142	MS12-AQW

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