

## Activated carbon filter MS12N-LFX

**FESTO**



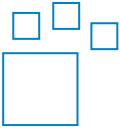
## Characteristics

### At a glance

- Removes liquid and gaseous oil particles from compressed air using activated carbon
- Elimination of odours and vapours
- Available with filter cartridge for low flow rates, suitable for sealing air and purge air applications
- Prefiltration with micro filter MS-LFM-A (grade of filtration 0.01 µm) is recommended
- Air purity class at the output [1.4.1] acc. to ISO 8573-1

### Ordering data - modular system

Link [ms12n-lfx](#)



Configurable product

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

### Pneumatic connection

Depending on the size, different connection types can be selected:

- Individual fittings that are fastened via a female thread
- Connecting plates with female thread

### 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

### Flow direction

Available with flow in the opposite direction.

## Type code

001	Series	
<b>MS</b>	MS series	
002	Size	
<b>12</b>	Grid dimension 124 mm	
003	Thread type	
<b>N</b>	NPT thread	
004	Function	
<b>LFX</b>	Activated carbon filter	
005	Pneumatic connection	
<b>N</b>	Without thread/optional NPT thread	
<b>N1</b>	1 NPT	
<b>N114</b>	1 1/4 NPT	
<b>N112</b>	1 1/2 NPT	
<b>N2</b>	2 NPT	

006	Bowl type	
<b>U</b>	Aluminium	
007	Flow rate	
	Standard	
<b>HF</b>	High flow rate	
008	Type of mounting	
	Without mounting bracket	
<b>WP</b>	Mounting bracket basic design	
009	Flow direction	
	Flow direction from left to right	
<b>Z</b>	Flow direction from right to left	

## Datasheet

## General technical data

Size	12
Design	Activated carbon filter
Type of mounting	Either: In-line installation With accessories
Mounting position	Vertical $\pm 5^\circ$
Air purity class at output	Compressed air according to ISO 8573-1:2010 [3:4:1]
Bowl guard	Metal bowl
Residual oil content	0.003 mg/m <sup>3</sup>

Standard nominal flow rate  $q_{nN}$ 

Pneumatic connection, port 1	1 NPT	1 1/4 NPT	1 1/2 NPT	2 NPT
Max. standard flow rate for clean air class	5,056 l/min	7,090 l/min	11,150 l/min	15,190 l/min
Standard nominal flow rate (standardised to DIN 1343)	4,800 l/min	5,000 l/min	5,500 l/min	6,000 l/min

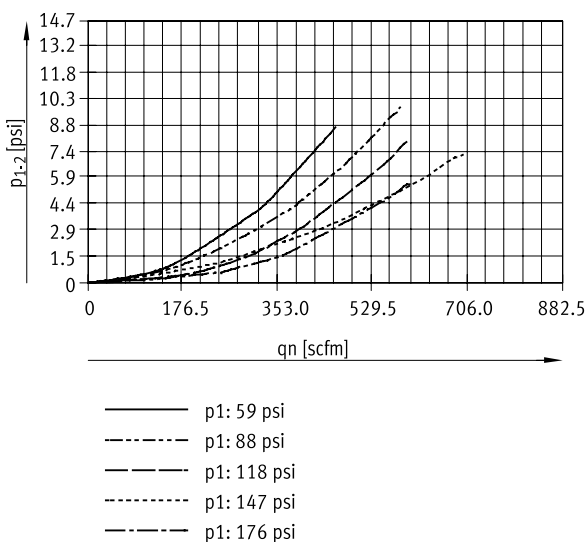
## Operating and environmental conditions

Operating pressure	0 ... 20 bar
Operating medium	Compressed air according to ISO 8573-1:2010 [3:4:2] Inert gases
Ambient temperature	-10 ... 60°C
Media temperature	5 ... 30°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC <sup>1)</sup>	2 - Moderate corrosion stress

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

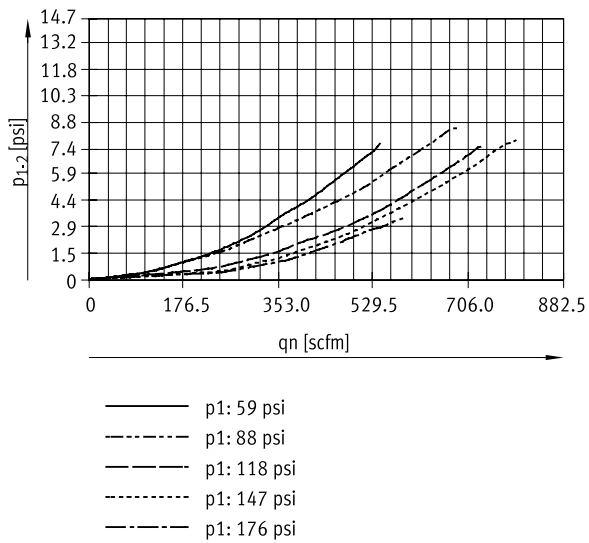
## Materials

Material housing	Die-cast aluminium
Material bowl	Wrought aluminium alloy
Material sub-base	Wrought aluminium alloy
Material filter	Activated carbon
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

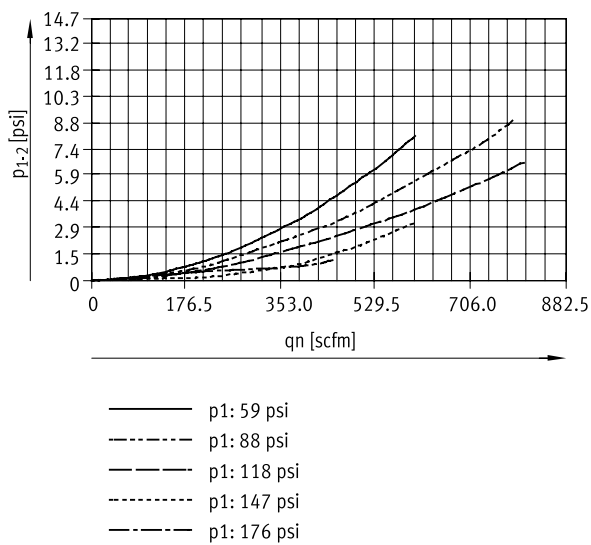
Standard flow rate  $q_n$  as a function of differential pressure  $\Delta p_{1-2}$  (with connecting plate MS12-AQT, pneumatic connection 1 NPT)

## Datasheet

Standard flow rate  $q_n$  as a function of differential pressure  $\Delta p_{1-2}$  (with connecting plate MS12-AQU, pneumatic connection 1 1/4 NPT)

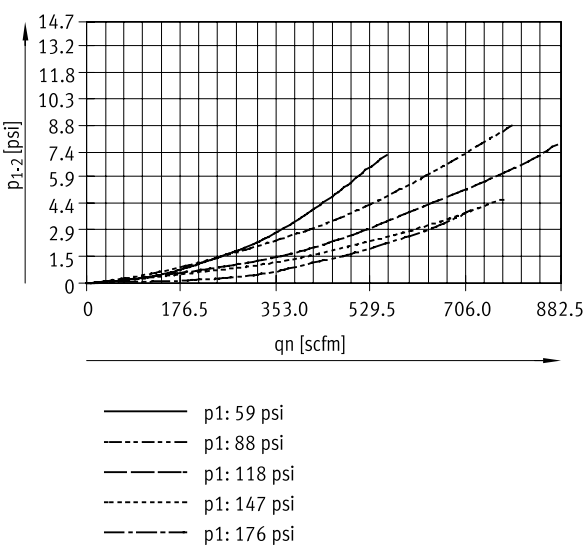


Standard flow rate  $q_n$  as a function of differential pressure  $\Delta p_{1-2}$  (with connecting plate MS12-AQV, pneumatic connection 1 1/2 NPT)



Datasheet

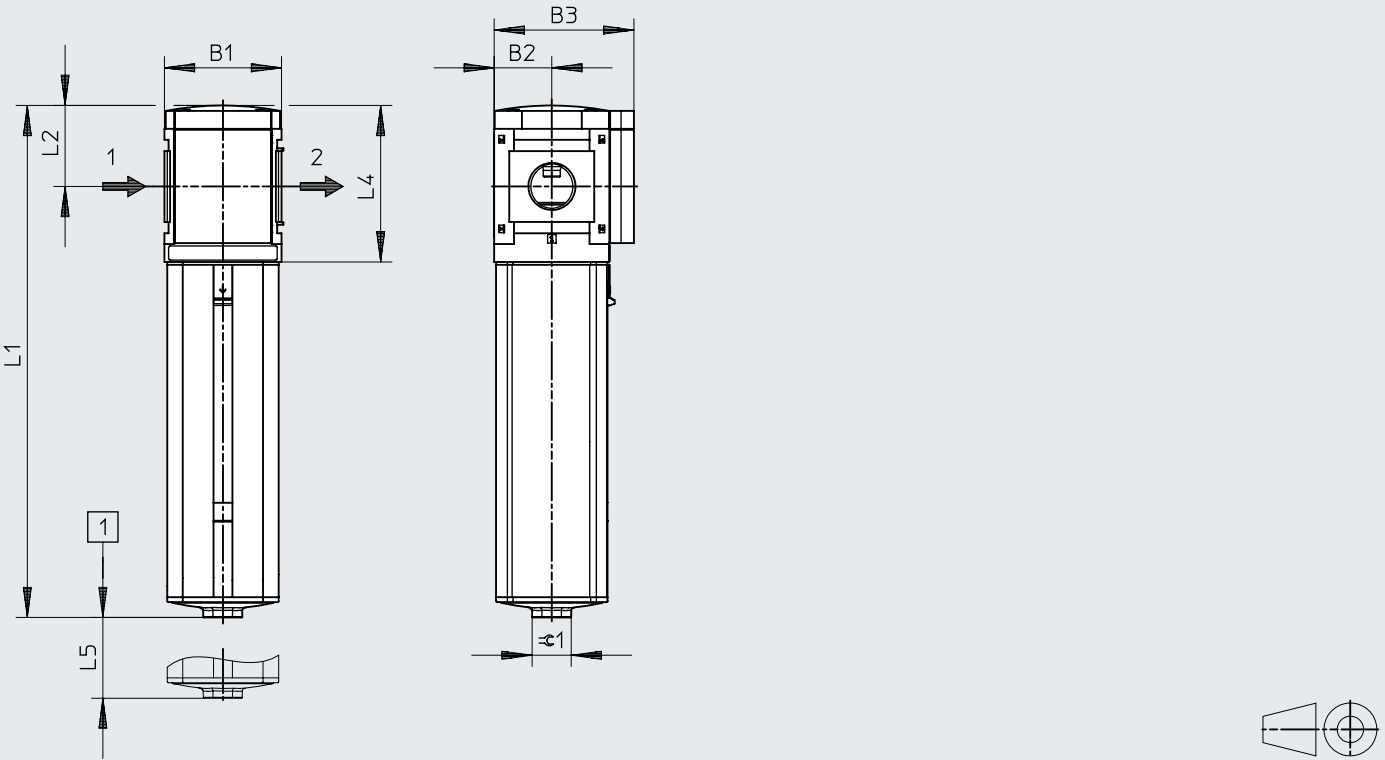
Standard flow rate  $q_n$  as a function of differential pressure  $\Delta p_{1-2}$  (with connecting plate MS12-AQW, pneumatic connection 2 NPT)



Dimensions

Dimensions – Basic type

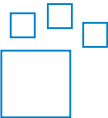
Download CAD data [www.festo.com](http://www.festo.com)



[1] Installation dimension

	B1 [inch]	B2 [inch]	B3 [inch]	L1 [inch]	L2 [inch]	L4 [inch]	L5 [inch]	Ø 1 [inch]
MS12N-LFX	4,882	2,413	5,839	21,351	3,377	6,526	13,776	1,110

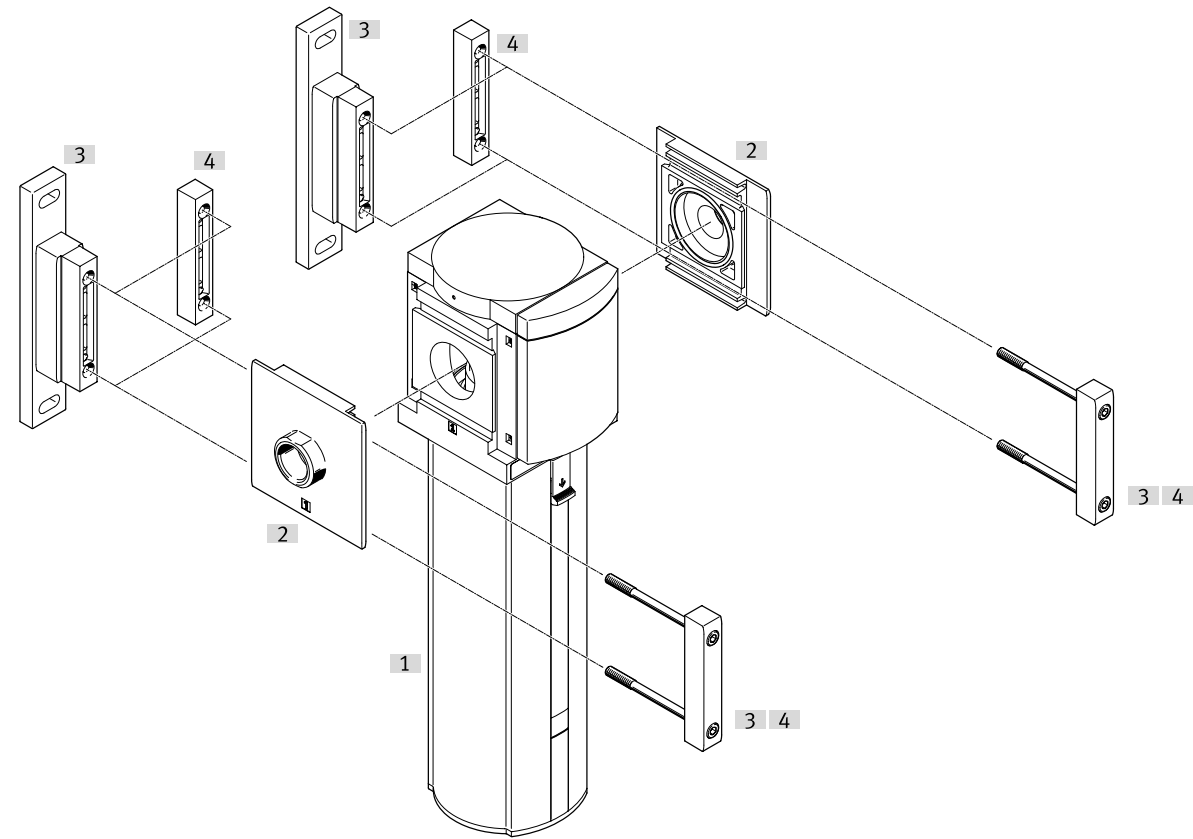
Ordering data

Ordering data – Modular product system			
	Short type code	Part no.	Type
	MS12	535046	MS12N-LFX



Peripherals


Peripherals overview




Accessories		→ Link
Type/order code	Description	
[1] Filter MS12N-LF		<a href="#">ms12-lfx</a>
[2] Connecting plateSET MS12-AQ...	Order code [AG...]; for device combinations	<a href="#">10</a>
[3] Mounting bracket MS12-WP	For individual device	<a href="#">10</a>
[4] Module connector MS12-MV	For device combinations and individual devices with connecting plate	<a href="#">10</a>

## Accessories


## Activated carbon filter cartridge – MS-...-LFX

	Size	Residual oil content	Material filter	Product weight	Part no.	Type
	12	0.003 mg/m³	Activated carbon	445 g	<b>537147</b>	<b>MS12-LFX</b>


## Module connector MS6-MV1

	Size	Product weight	Part no.	Type
	12	500 g	<b>537134</b>	<b>MS12-MV</b>

## Mounting bracket MS12-WP

	Size	Product weight	Part no.	Type
	12	700 g	<b>537133</b>	<b>MS12-WP</b>

## Sub-base SET MS12-AQ...

	Size	Pneumatic connection, port 1	Product weight	Part no.	Type
	12	1 NPT	1,300 g	<b>537139</b>	<b>MS12-AQT</b>
		1 1/4 NPT		<b>537140</b>	<b>MS12-AQU</b>
		1 1/2 NPT		<b>537141</b>	<b>MS12-AQV</b>
		2 NPT		<b>537142</b>	<b>MS12-AQW</b>