

Filters LF/LFMA/LFMB/LFX/LFMBA, D series

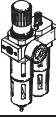
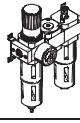
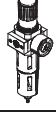
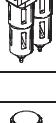
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Filters LF/LFMA/LFMB/LFX/LFMBA, D series, metal design

Product range overview D series service units, metal design

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Type	Size	Pneumatic connection										Pressure regulation range [bar]			Grade of filtration [μm]						
		M5	M7	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$	G1	QS4	QS6	0.5	0.5	2.5	...	12	12	0.01	1	5	40
Service units																					
FRC/FRCS		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	—	■	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	■	■	—	—	—	■	■	■	■	■
		Midi	—	—	—	■	■	■	—	—	—	■	■	—	—	—	■	■	■	■	■
		Maxi	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■	■	■	■
Service unit combinations																					
FRC-K		Micro	—																		
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	—	—	■	■	—	—	■
		Midi	—	—	—	■	■	■	■	—	—	—	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■	—	—	■
LFR-K LFRS-K		Micro	—																		
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	—	—	■	■	—	—	■
		Midi	—	—	—	■	■	■	■	—	—	—	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■	—	—	■
Individual devices																					
Filter regulators LFR/LFRS		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	■	■	—	—	—
		Mini	—	—	■	■	■	■	—	—	—	—	■	■	—	—	■	■	—	—	■
		Midi	—	—	—	■	■	■	■	—	—	—	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	■	—	■	■	—	—	■	■	—	—	■
Filters LF		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	■	■	—	—	—
		Mini	—	—	■	■	■	■	—	—	—	—	■	■	—	—	■	■	—	—	■
		Midi	—	—	—	■	■	■	■	■	■	—	—	—	—	■	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	■	—	—	—	■	■	—	—	■
Fine and micro filters LFMA/LFMB		Micro	—																		
		Mini	—	—	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	—	—
		Midi	—	—	—	■	■	■	■	■	■	—	—	—	—	■	■	■	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	■	■	—	—	—	■	■	—	—	■
Active carbon filters LFX		Micro	—																		
		Mini	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	■	■	—	—	—	—	—	—	—	—
Filter combinations LFMBA		Micro	—																		
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	■	■	—	—	—
		Midi	—	—	—	■	■	■	■	■	■	—	—	—	—	—	■	■	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	■	■	—	—	—	■	■	—	—	—
Pressure regulators LR/LRS		Micro	■	■	■	—	—	—	—	—	—	—	■	■	■	—	—	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	■	■	—	—	■	■	—	—	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	■	■	—	—	—	■	■	—	—	—

Filters LF/LFMA/LFMB/LFX/LFMBA, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Bowl guard		Condensate drain		Pressure indication		Actuator lock	Supply voltage		Options		➔ Page/ Internet		
		Metal bowl guard	Plastic bowl	Manual rotary	Semi-automatic	Fully automatic	With pressure gauge		Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	
Service units															
FRC/FRCS	Micro	-	■	■	■	■	-	■	■	■	-	-	-	-	frc
	Mini	■	-	■	-	■	■	■	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	■	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	■	■	■	■	-	-	■	
Service unit combinations															lfr
FRC-K	Micro	-													
	Mini	■	-	■	-	■	■	-	■	-	-	-	-	-	
	Midi	■	-	■	-	■	■	-	■	-	-	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	-	-	-	■	■	
LFR-K LFRS-K	Micro	-													lfr
	Mini	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	■	■	-	■	■	
Individual devices															lfr
Filter regulators LFR/LFRS	Micro	-	■	■	■	■	-	■	■	■	-	-	-	-	
	Mini	■	-	■	-	■	■	■	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	■	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	■	■	■	■	-	■	■	
Filters LF	Micro	-	■	■	■	■	-	-	-	-	-	-	-	-	6
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	-	
Fine and micro filters LFMA/LFMB	Micro	-													16
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	-	
Active carbon filters LFX	Micro	-													25
	Mini	■	-	-	-	-	-	-	-	-	-	-	-	-	
	Midi	■	-	-	-	-	-	-	-	-	-	-	-	-	
	Maxi	■	-	-	-	-	-	-	-	-	-	-	-	-	
Filter combinations LFMBA	Micro	-													30
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	■	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	■	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	■	
Pressure regulators LR/LRS	Micro	-	-	-	-	-	■	■	■	■	-	-	-	-	lr
	Mini	-	-	-	-	-	■	■	■	■	-	-	■	-	
	Midi	-	-	-	-	-	■	■	■	■	-	-	■	-	
	Maxi	-	-	-	-	-	■	■	■	■	-	-	■	-	

Filters LF/LFMA/LFMB/LFX/LFMBA, D series, metal design

Product range overview D series service units, metal design

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Type	Size	Pneumatic connection										Pressure regulation range [bar]	
		M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	QS4	QS6	0.5	0.5
												0.5	0.5
Individual devices													
Pressure regulators LRB/LRBS		Micro	—	—	—	—	—	—	—	—	—	■	■
		Mini	—	—	—	■	—	—	—	—	—	■	■
		Midi	—	—	—	—	■	—	—	—	—	■	■
		Maxi	—	—	—	—	—	—	—	—	—	—	—
Pressure regulator combinations LRB-K		Micro	—	—	—	—	—	—	—	—	—	■	■
		Mini	—	—	—	■	■	—	—	—	—	■	■
		Midi	—	—	—	—	■	■	—	—	—	■	■
		Maxi	—	—	—	—	—	—	—	—	—	—	—
Lubricators LOE		Micro	■	■	■	—	—	—	—	■	■	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves HE		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves, electrical HEE		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves, pneumatic HEP		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Soft-start valves HEL		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Membrane air dryers LDM1		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	—	—	—	—	—	—	—	—	—
		Midi	—	—	—	—	—	—	—	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Branching modules FRM		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Distributor block FRZ		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	—	—	—	—	—	—	—	—	—
		Midi	—	—	—	—	—	—	—	—	—	—	—
		Maxi	—	—	—	—	—	—	—	—	—	—	—

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Product range overview D series service units, metal design

Type	Size	Bowl guard		Pressure indication		Actuator lock		Supply voltage			Options		➔ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 VAC	230 VAC	Non-return function	Pressure switch	
Individual devices													
Pressure regulators LRB/LRBS	Micro	–											lrb
	Mini	–	–	–	■	■	■	–	–	–	–	–	
	Midi	–	–	–	■	■	■	–	–	–	–	–	
	Maxi	–	–										
Pressure regulator combinations LRB-K	Micro	–											lrb
	Mini	–	–	–	■	■	–	–	–	–	–	–	
	Midi	–	–	–	■	■	–	–	–	–	–	–	
	Maxi	–	–										
Lubricators LOE	Micro	–	■	–	■	–	–	–	–	–	–	–	loe
	Mini	■	–	–	■	–	–	–	–	–	–	–	
	Midi	■	–	–	■	–	–	–	–	–	–	–	
	Maxi	■	–	–	■	–	–	–	–	–	–	–	
On-off valves HE	Micro	–											he
	Mini	–	–	–	■	■	–	–	–	–	–	–	
	Midi	–	–	–	■	■	–	–	–	–	–	–	
	Maxi	–	–	–	■	■	–	–	–	–	–	–	
On-off valves, electrical HEE	Micro	–											hee
	Mini	–	–	–	■	–	–	■	■	■	–	–	
	Midi	–	–	–	■	–	–	■	■	■	–	–	
	Maxi	–	–	–	■	–	–	■	■	■	–	–	
On-off valves, pneumatic HEP	Micro	–											hep
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	
Soft-start valves HEL	Micro	–											hel
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	
Membrane air dryers LDM1	Micro	–											ldm1
	Mini	–											
	Midi	–											
	Maxi	■	–	–	■	–	–	–	–	–	–	–	
Branching modules FRM	Micro	–											frm
	Mini	–	–	–	■	–	–	–	–	–	■	■	
	Midi	–	–	–	■	–	–	–	–	–	■	■	
	Maxi	–	–	–	■	–	–	–	–	–	■	■	
Distributor block FRZ	Micro	–	–	–	■	–	–	–	–	–	–	–	frz
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	

Filters LF, D series, metal design

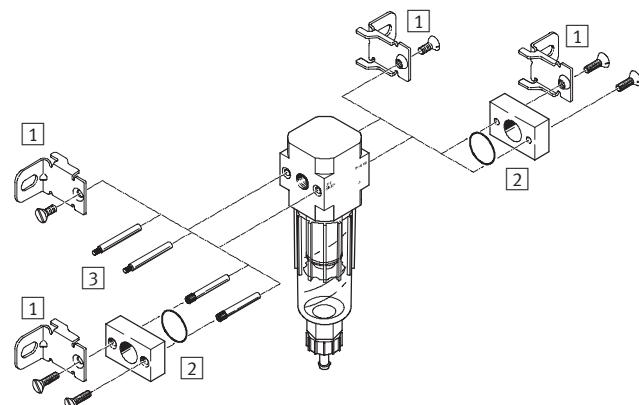
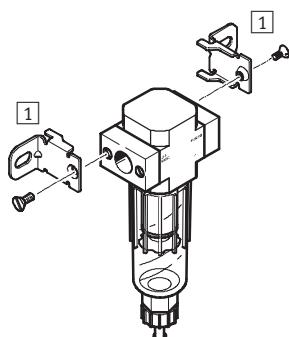
Peripherals overview

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Micro

Individual unit with connection plates,
connection size G1/8, QS4 or QS6

Individual unit without connection plates, for service unit combination
connection size M5 or M7 in housing



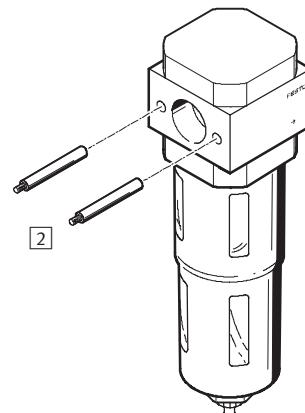
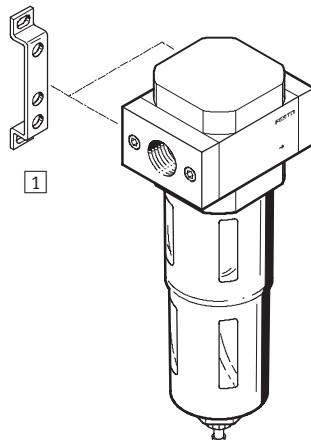
Mounting attachments and accessories

	Individual unit	Combination	➔ Page/ Internet	
	with connection plates	without connection plates		
[1] Mounting bracket HFOE	■	■	■	■
[2] Connecting plate kit PBL	-	■	-	■
[3] Threaded pin FRB	-	-	■	■

Mini/Midi/Maxi

Individual unit with connection plates

Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

	Individual unit	Combination	➔ Page/ Internet	
	with connection plates	without connection plates		
[1] Mounting bracket HFOE	■	-	■	-
[2] Threaded pin (included in scope of delivery) FRB	-	-	■	■

Filters LF, D series, metal design

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Type codes

LF - 1/4 - D - 5M - MIDI - A

Basic function	
LF	Filter

Pneumatic connection	
M5	Thread M5
M7	Thread M7
QS4	Push-in fitting QS4
QS6	Push-in fitting QS6
1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8
1/2	Thread G1/2
3/4	Thread G3/4
1	Thread G1

Series	
D	Series

Grade of filtration	
5M	5 µm
	40 µm

Size	
MICRO	Grid dimension 25 mm (without connecting plates)
MINI	Grid dimension 40 mm (without connecting plates)
MIDI	Grid dimension 55 mm (without connecting plates)
MAXI	Grid dimension 66 mm (without connecting plates)

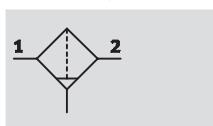
Condensate drain	
	Turned manually
H	Semi-automatic
A	Fully automatic

Filters LF, D series, metal design

Technical data

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Manual rotary condensate drain

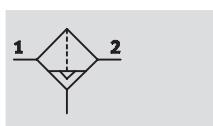


- - Flow rate
170 ... 5300 l/min

- - Temperature range
-10 ... +60 °C

- - Input pressure
0 ... 16 bar

Semi or fully automatic condensate drain



- Good particle and condensate separation
- High flow rate with minimal pressure drop
- With manual or fully automatic condensate drain
- Choice of filter cartridges: 5 µm or 40 µm
- New filter cartridges → 37

General technical data

Size	Micro	Mini	Midi	Maxi
Pneumatic connection	M5 M7 G1/8 QS4 QS6	G1/8 G1/4 G3/8 G1/4 G3/8 G1/2 G3/4 G1/2 G3/4 G1		
Operating medium	Compressed air	Compressed air		
Design	Sintered filter with centrifugal separation	Sintered filter with centrifugal separation		
Type of mounting	Via accessories In-line installation	Via accessories In-line installation		
Assembly position	Vertical ±5°	Vertical ±5°		
Grade of filtration [µm]	5	5 or 40		
Max. condensate volume [cm³]	3	22	43	80
Input pressure [bar]				
Condensate drain turned manually	0 ... 10	0 ... 16		
semi-automatic	1 ... 10	–		
fully automatic	–	2 ... 12		

- Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard nominal flow rate¹⁾ q_N [l/min]

Connection	Female thread		Connecting plate		
	M5	M7	G1/8	QS4	QS6
Micro					
LF	170	280	290	170	280

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

A minimum flow rate of 125 l/min is required for flawless functioning.

Filters LF, D series, metal design

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Technical data

Standard nominal flow rate ¹⁾ qnN [l/min]						
Connection	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Mini						
LF...-D...(-A)	1000	1200	1400	-	-	-
LF...-D-5M...(-A)	800	950	1100	-	-	-
Midi						
LF...-D...(-A)	-	1900	2700	3000	3000	-
LF...-D-5M...(-A)	-	1600	1800	2000	2000	-
Maxi						
LF...-D...(-A)	-	-	-	4400	5000	5300
LF...-D-5M...(-A)	-	-	-	3700	3600	3800

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

A minimum flow rate of 125 l/min is required for flawless functioning.

Screw-in depth of connecting thread [mm]						
Connection	M5	M7	G1/8	QS4	QS6	
Micro						
In housing	5	6	-	-	-	-
In connecting plates	-	-	8	-	-	-

Ambient conditions						
Size	Micro	Mini	Midi	Maxi		
Ambient temperature [°C]	-10 ... +60					
Temperature of medium [°C]	-10 ... +60					
Corrosion resistance class CRC ¹⁾	2					

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]						
Size	Micro		Mini	Midi	Maxi	
	Female thread	Connecting plate			Connection G1/2, G3/4	Connection G1
LF...	44	64	250	700	1340	1440

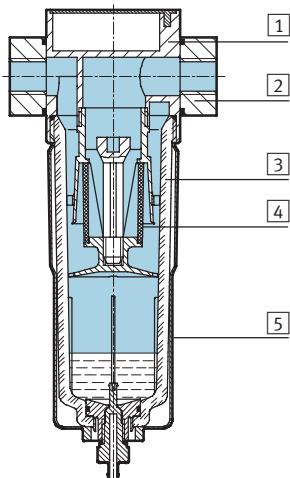
Filters LF, D series, metal design

Technical data

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Materials

Sectional view



Filter	Micro	Mini/Midi/Maxi
[1] Housing	Wrought aluminium alloy	Die-cast zinc
[2] Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium
[3] Bowl	Polycarbonate	Polycarbonate
[4] Filter cartridge	Polyethylene	Polyethylene
[5] Metal bowl guard	–	Aluminium
– Seals	Nitrile rubber	Nitrile rubber

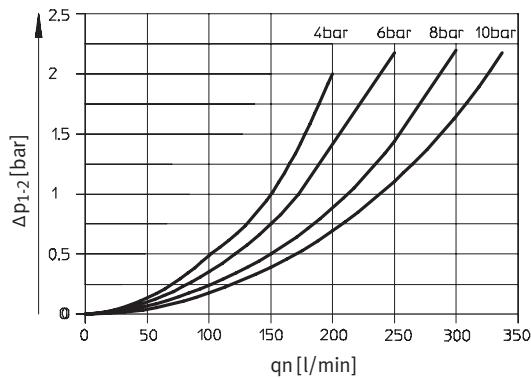
Filters LF, D series, metal design

FESTO

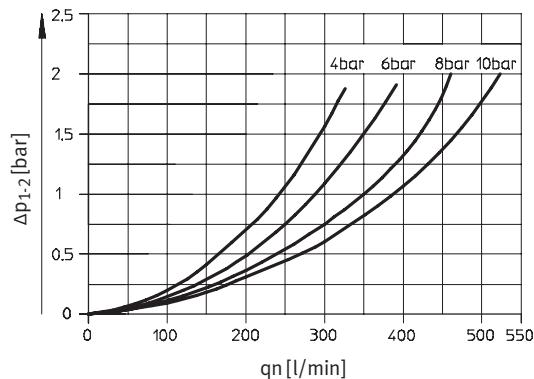
Technical data

Standard flow rate q_n as a function of the differential pressure Δp_{1-2}

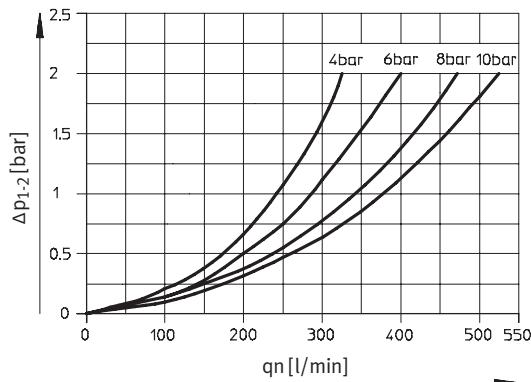
LF-M5-...-MICRO and LF-QS4-...-MICRO



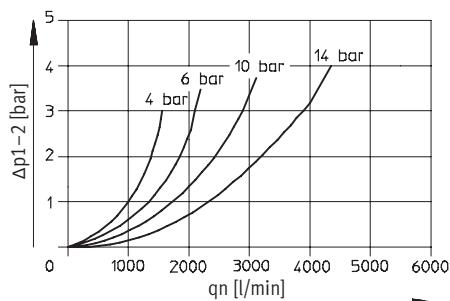
LF-1/8-...-MICRO



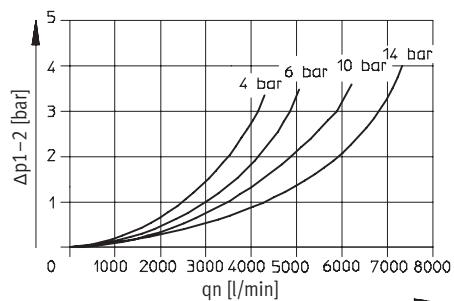
LF-M7-...-MICRO B and LF-QS6-...-MICRO



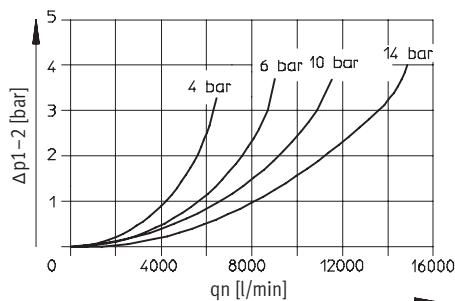
LF-1/4-D-MINI



LF-1/2-D-MIDI



LF-1-D-MAXI



Filters LF, D series, metal design

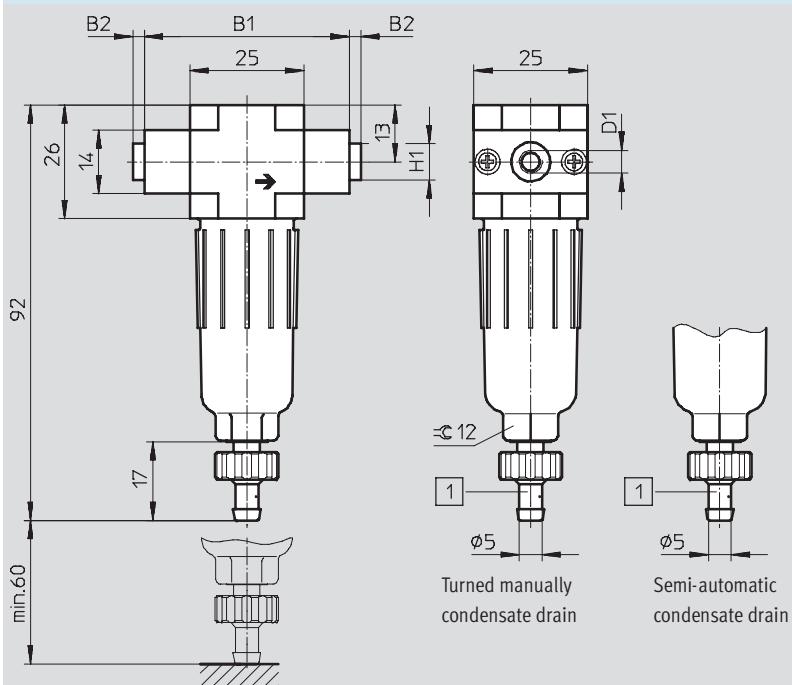
Technical data

FESTO

Dimensions

Download CAD data → www.festo.com

Micro



[1] Barbed fitting for plastic tubing
type PCN-4

→ Flow direction

Type	B1	B2	D1	H1
LF-M5-D-5M-MICRO (H)	25		M5	
LF-M7-D-5M-MICRO (H) B		-	M7	-
LF-1/8-D-5M-MICRO (H)			G1/8	
LF-QS4-D-5M-MICRO (H)	45		QS4	~8
LF-QS6-D-5M-MICRO (H)		~2.5	QS6	~10

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Filters LF, D series, metal design

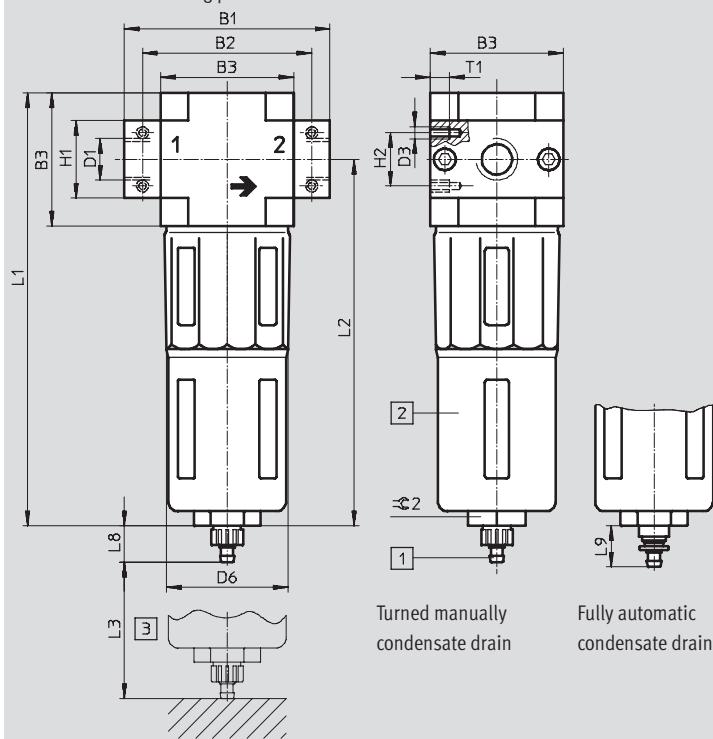
FESTO

Technical data

Dimensions

Mini/Midi/Maxi

With threaded connecting plates



[1] Barbed fitting for plastic tubing type PCN-4

[2] Metal bowl guard

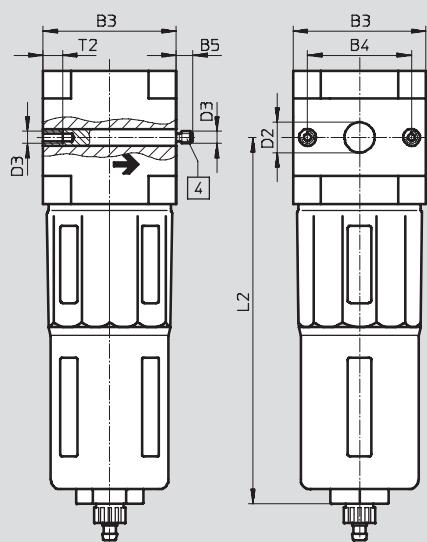
[3] Installation dimensions

[4] Threaded pin (exchangeable)

→ Flow direction

Download CAD data → www.festo.com

Without threaded connecting plates



Type	B1	B2	B3	B4	B5	D1	D2	D3	D6	H1	H2	L1	L2	L3	L8	L9	T1	T2	=C2
Mini																			
LF-1/8-D-MINI	64		52		40	30		G1/8		-	M4	38	20	11	144	124	60	15	19
LF-1/4-D-MINI								G1/4		-							7	-	22
LF-3/8-D-MINI	70							G3/8											
LF-D-MINI	-	-				5.8	-	11										-	10
Midi																			
LF-1/4-D-MIDI								G1/4											
LF-3/8-D-MIDI								G3/8											
LF-1/2-D-MIDI								G1/2											
LF-3/4-D-MIDI								G3/4											
LF-D-MIDI	-	-				6.8	-	24										-	11
Maxi																			
LF-1/2-D-MAXI	96	80			66	46		G1/2											
LF3/4-D-MAXI								G3/4											
LF-1-D-MAXI	116	91						G1											
LF-D-MAXI	-	-				6.8	-	30										-	11

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Filters LF, D series, metal design

Technical data

FESTO

Ordering data			
Input pressure 1 ... 10 bar			
Condensate drain	Size	Connection	Grade of filtration 5 µm
			Part No. Type
Turned manually	Micro	Without threaded connecting plates, connecting thread in housing	
		M5	526297 LF-M5-D-5M-MICRO
		M7	534182 LF-M7-D-5M-MICRO-B
		With threaded connecting plates	
		G1/8	526299 LF-1/8-D-5M-MICRO
		With connecting plate and push-in fitting	
		QS4	526305 LF-QS4-D-5M-MICRO
		QS6	526307 LF-QS6-D-5M-MICRO
Semi-automatic	Micro	Without threaded connecting plates, connecting thread in housing	
		M5	526298 LF-M5-D-5M-MICRO-H
		M7	534183 LF-M7-D-5M-MICRO-H-B
		With threaded connecting plates	
		G1/8	526300 LF-1/8-D-5M-MICRO-H
		With connecting plate and push-in fitting	
		QS4	526306 LF-QS4-D-5M-MICRO-H
		QS6	526308 LF-QS6-D-5M-MICRO-H

Ordering data			
Input pressure 0 ... 16 bar, metal bowl guard			
Condensate drain	Size	Grade of filtration 5 µm	Grade of filtration 40 µm
		Part No. Type	Part No. Type
Without threaded connecting plates			
Turned manually	Mini	192557 LF-D-5M-MINI	192551 LF-D-MINI
	Midi	192558 LF-D-5M-MIDI	192552 LF-D-MIDI
	Maxi	192559 LF-D-5M-MAXI	192553 LF-D-MAXI
Fully automatic	Mini	192560 LF-D-5M-MINI-A	192554 LF-D-MINI-A
	Midi	192561 LF-D-5M-MIDI-A	192555 LF-D-MIDI-A
	Maxi	192562 LF-D-5M-MAXI-A	192556 LF-D-MAXI-A

Filters LF, D series, metal design

FESTO

Technical data

Ordering data			
Input pressure 0 ... 16 bar, metal bowl guard			
Condensate drain	Size	Connection	Grade of filtration 5 µm
			Part No. Type
With threaded connecting plates			
Turned manually	Mini	G1/8	162610 LF-1/8-D-5M-MINI
		G1/4	162611 LF-1/4-D-5M-MINI
		G3/8	162612 LF-3/8-D-5M-MINI
	Midi	G1/4	186460 LF-1/4-D-5M-MIDI
		G3/8	162613 LF-3/8-D-5M-MIDI
		G1/2	162614 LF-1/2-D-5M-MIDI
		G3/4	162615 LF-3/4-D-5M-MIDI
	Maxi	G1/2	186464 LF-1/2-D-5M-MAXI
		G3/4	162616 LF-3/4-D-5M-MAXI
		G1	162617 LF-1-D-5M-MAXI
Fully automatic	Mini	G1/8	162618 LF-1/8-D-5M-MINI-A
		G1/4	162619 LF-1/4-D-5M-MINI-A
		G3/8	162620 LF-3/8-D-5M-MINI-A
	Midi	G1/4	186462 LF-1/4-D-5M-MIDI-A
		G3/8	162621 LF-3/8-D-5M-MIDI-A
		G1/2	162622 LF-1/2-D-5M-MIDI-A
		G3/4	162623 LF-3/4-D-5M-MIDI-A
	Maxi	G1/2	186466 LF-1/2-D-5M-MAXI-A
		G3/4	162624 LF-3/4-D-5M-MAXI-A
		G1	162625 LF-1-D-5M-MAXI-A

Fine and micro filters LFMA/LFMB, D series, metal design

Peripherals overview

FESTO

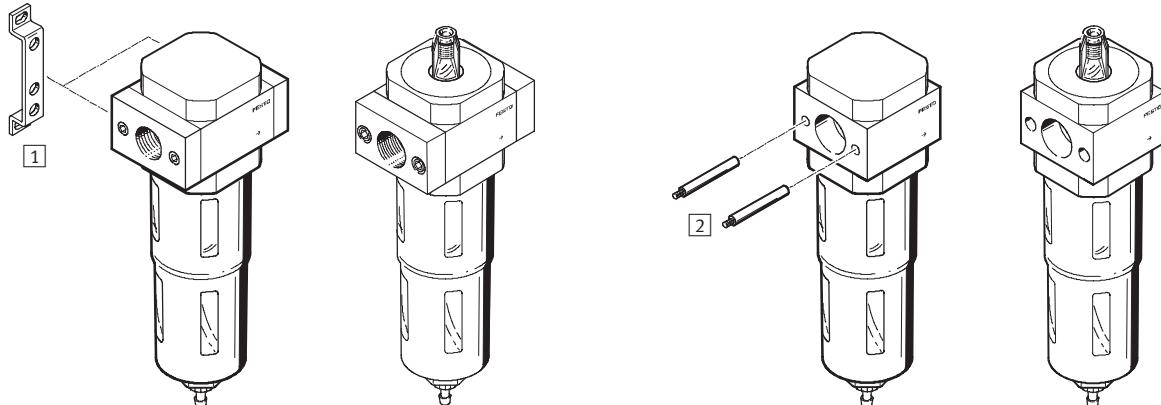
Mini/Midi/Maxi

Individual unit with connection plates
without differential pressure indicator

with differential pressure indicator

Individual unit without connection plates, for service unit combination
without differential pressure indicator

with differential pressure indicator



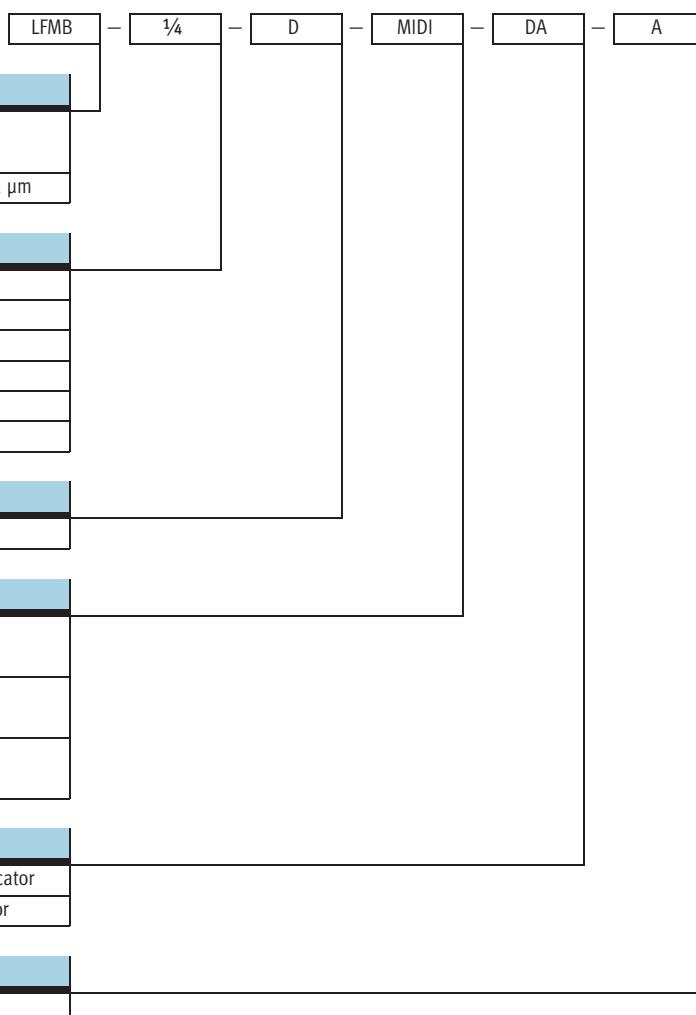
Mounting attachments and accessories

	Individual unit		Combination		→ Page/ Internet
	with connection plates	without connection plates	with connection plates	without connection plates	
[1] Mounting bracket HFOE	■	—	■	—	hfoe-d
[2] Threaded pin (included in scope of delivery) FRB	—	—	■	■	frb-d

Fine and micro filters LFMA/LFMB, D series, metal design

FESTO

Type codes

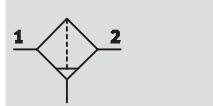


Fine and micro filters LFMA/LFMB, D series, metal design

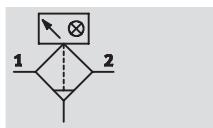
Technical data

FESTO

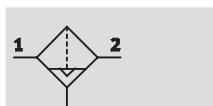
Manual rotary condensate drain,
without differential pressure indicator



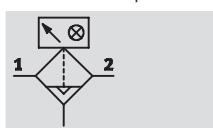
with differential pressure indicator



Fully automatic condensate drain,
without differential pressure indicator



with differential pressure indicator



- - Flow rate
130 ... 1250 l/min

- - Temperature range
-10 ... +60 °C

- - Input pressure
1 ... 16 bar



- High efficiency filter for special requirements
- Air quality to DIN ISO 8573-1
- With or without threaded connecting plates
- Version with differential pressure indicator for optical indication of filter pollution
- Choice of filter cartridges: 0.01 µm or 1 µm
- New filter cartridges → 37

LFMA:
ISO class 1 for particles:
max. particle density 0.1 mg/m³
ISO class 2 for oil aerosols:
max. oil concentration 0.1 mg/m³
Filter efficiency 99.9999%

LFMB:
ISO class 2 for particles:
max. particle density 1 mg/m³
ISO class 3 for oil aerosols:
max. oil concentration 1 mg/m³
Filter efficiency 99.99%

General technical data										
Size	Mini			Midi				Maxi		
Pneumatic connection	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1
Design	Fibre filter									
Type of mounting	Via accessories In-line installation									
Assembly position	Vertical ±5°									
Operating medium										
Micro filter LFMA	Filtered compressed air, grade of filtration 1 µm									
Fine filter LFMB	Filtered compressed air, grade of filtration 5 µm									
Grade of filtration [µm]										
Micro filter LFMA	0.01									
Fine filter LFMB	1									
Air purity class at the output										
Grade of filtration 0.01 µm	1.7.2 to DIN ISO 8573-1									
1 µm	2.7.3 to DIN ISO 8573-1									
Residual oil content [mg/m ³]										
Micro filter LFMA	≤0.01									
Fine filter LFMB	≤0.5									
Input pressure [bar]										
Condensate drain turned manually	1 ... 16									
fully automatic	1.5 ... 12									
Max. condensate volume [cm ³]										
Micro filter LFMA/fine filter LFMB	22			43				80		

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Fine and micro filters LFMA/LFMB, D series, metal design

FESTO

Technical data

Standard nominal flow rate¹⁾ qnN [l/min]

Connection	Mini			Midi				Maxi		
	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1
Micro filter LFMA	130	160	180	350	380	400	460	750	900	950
Fine filter LFMB	250	300	310	500	700	900	1000	1150	1200	1250

1) Measured at p1 = 6 bar and Δp = 70 mbar.

A minimum flow rate of 125 l/min is required for flawless functioning.

Ambient conditions

Size	Mini	Midi	Maxi
Ambient temperature [°C]	-10 ... +60		
Temperature of medium [°C]	+1.5 ... +60		
Corrosion resistance class CRC ¹⁾	2		

1) Corrosion resistance class 2 according to Festo standard 940 070

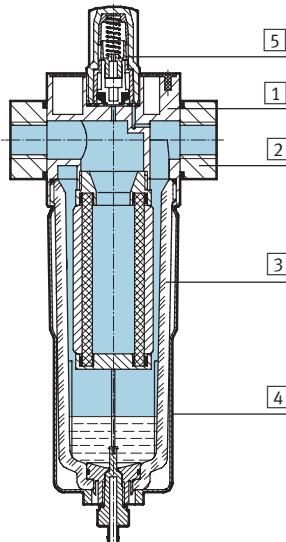
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]

Size	Mini	Midi	Maxi
Without differential pressure indicator	250	650	1200
With differential pressure indicator	368	834	1340

Materials

Sectional view



Fine and micro filters

[1] Housing	Die-cast zinc
[2] Connecting plates	Aluminium
[3] Bowl	Polycarbonate
[4] Metal bowl guard	Aluminium
[5] Housing for version with differential pressure indicator	Polycarbonate
- Seals	Nitrile rubber
Note on materials	Free of copper and PTFE

Fine and micro filters LFMA/LFMB, D series, metal design

Technical data

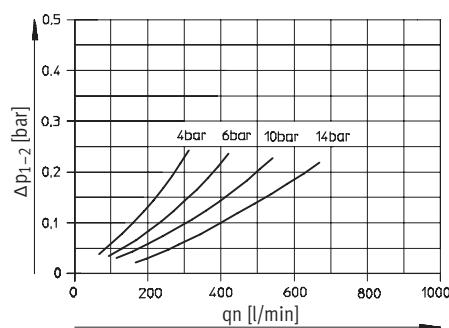
FESTO

Standard flow rate q_n as a function of the differential pressure Δp_{1-2}

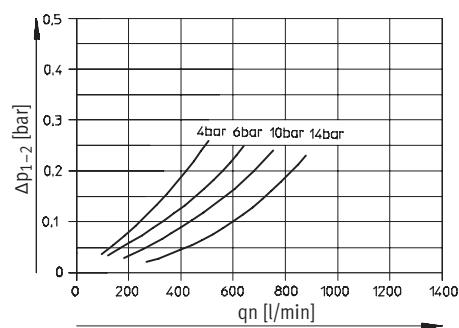
Grade of filtration 0.01 μm

Grade of filtration 1 μm

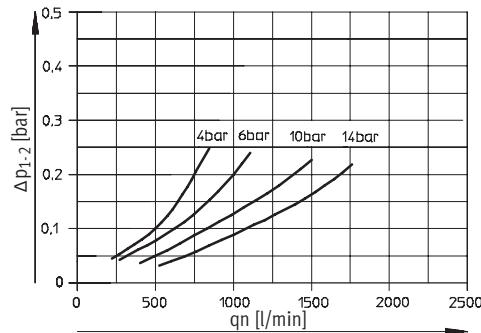
LFMA-1/4-D-MINI and LFMA-1/4-D-MINI-A



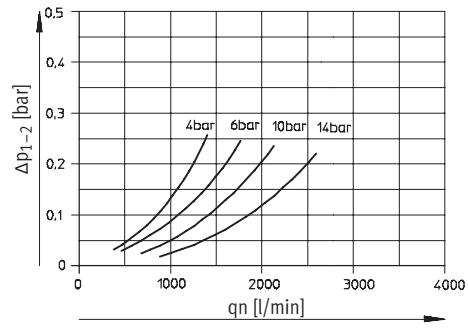
LFMB-1/4-D-MINI and LFMB-1/4-D-MINI-A



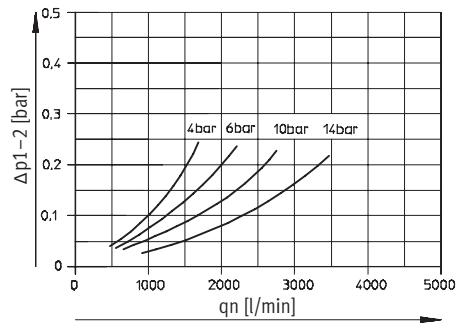
LFMA-1/2-D-MIDI and LFMA-1/2-D-MIDI-A



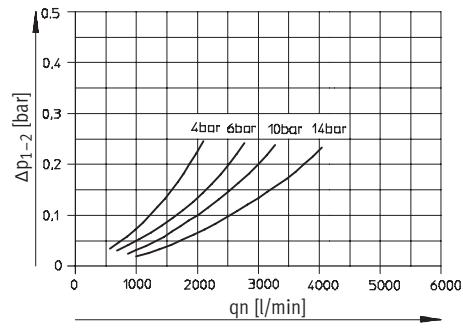
LFMB-1/2-D-MIDI and LFMB-1/2-D-MIDI-A



LFMA-1-D-MAXI and LFMA-1-D-MAXI-A



LFMB-1-D-MAXI and LFMB-1-D-MAXI-A



Fine and micro filters LFMA/LFMB, D series, metal design

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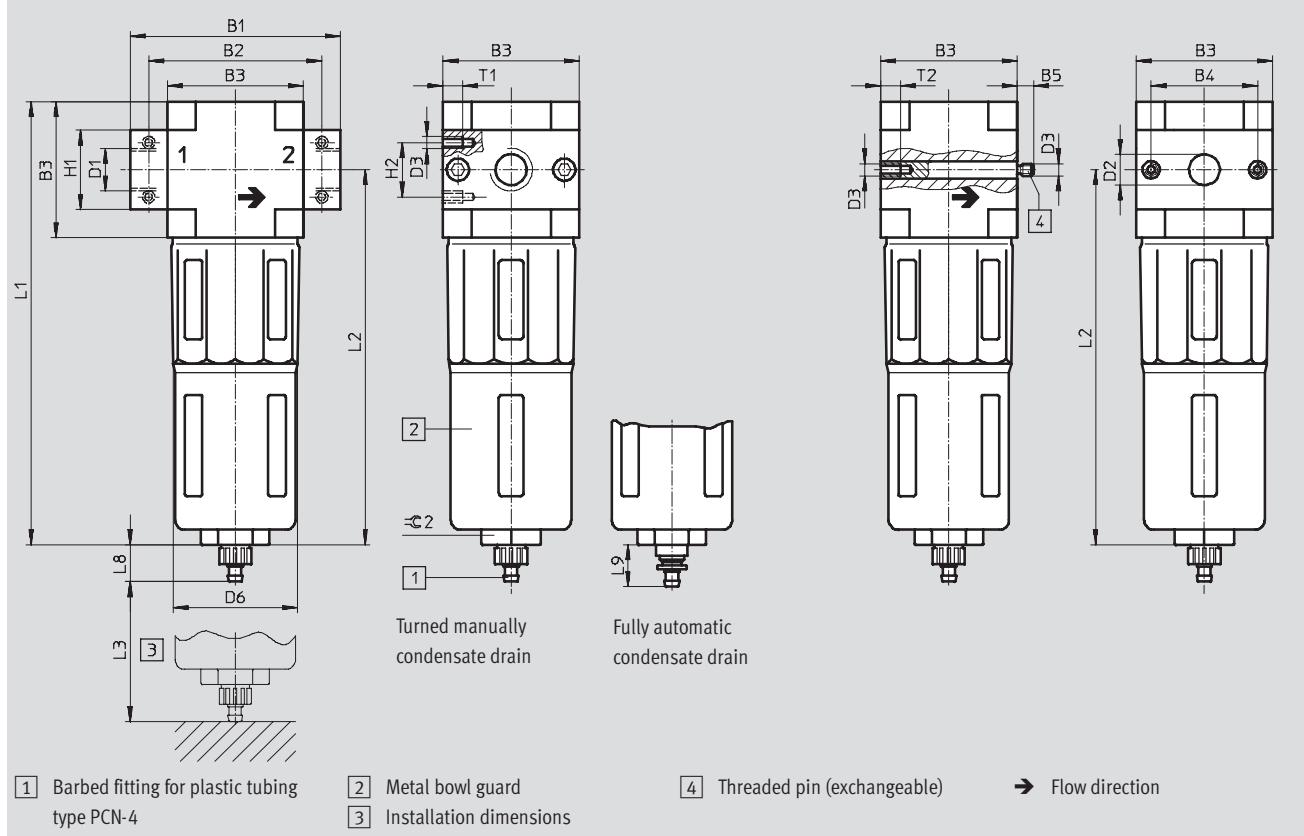
Technical data

Dimensions

With threaded connecting plates

Download CAD data → www.festo.com

Without threaded connecting plates



Type	B1	B2	B3	B4	B5	D1	D2	D3	D6	H1	H2	L1	L2	L3	L8	L9	T1	T2	=G 2
Mini																			
LFMB/A-1/8-D-MINI	64	52	40	30	-	G1/8	-	M4	38	20	11	144	124	60	15	19	7	-	22
LFMB/A-1/4-D-MINI						G1/4													
LFMB/A-3/8-D-MINI	70					G3/8													
LFMB/A-D-MINI	-	-		5.8	-	11				-	-						-	10	
Midi																			
LFMB/A-1/4-D-MIDI						G1/4	-	M5	52	32	22	179	151	80	15	19	8	-	24
LFMB/A-3/8-D-MIDI	85	70	55	43	-	G3/8													
LFMB/A-1/2-D-MIDI						G1/2													
LFMB/A-3/4-D-MIDI						G3/4													
LFMB/A-D-MIDI	-	-		6.8	-	24				-	-						-	11	
Maxi																			
LFMB/A-1/2-D-MAXI	96	80	66	46	-	G1/2	-	M5	65	32	22	203	170	90	15	19	8	-	24
LFMB/A-3/4-D-MAXI						G3/4													
LFMB/A-1-D-MAXI	116	91				G1													
LFMB/A-D-MAXI	-	-		6.8	-	30				-	-						-	11	

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

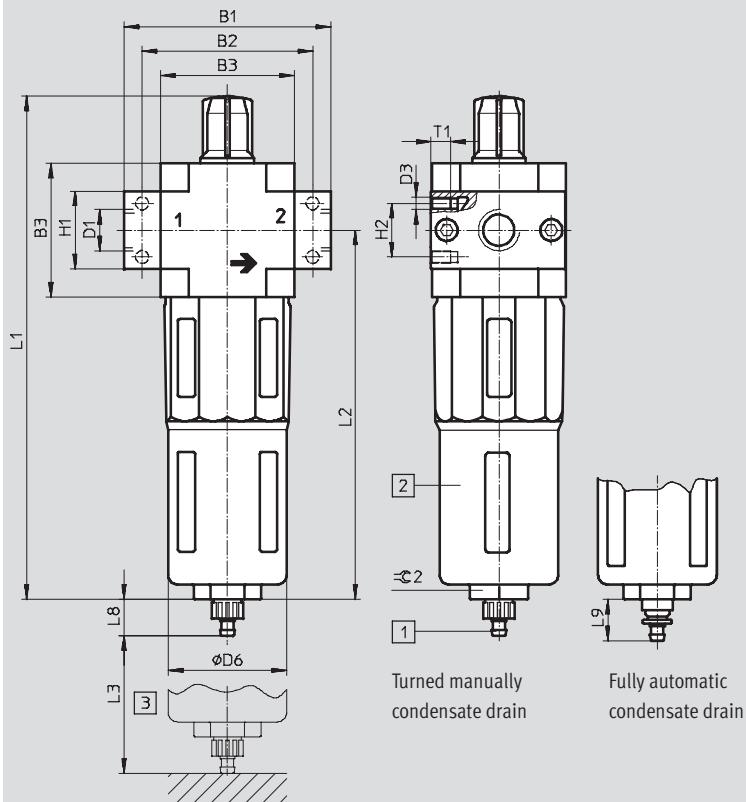
Fine and micro filters LFMA/LFMB, D series, metal design

Technical data

FESTO

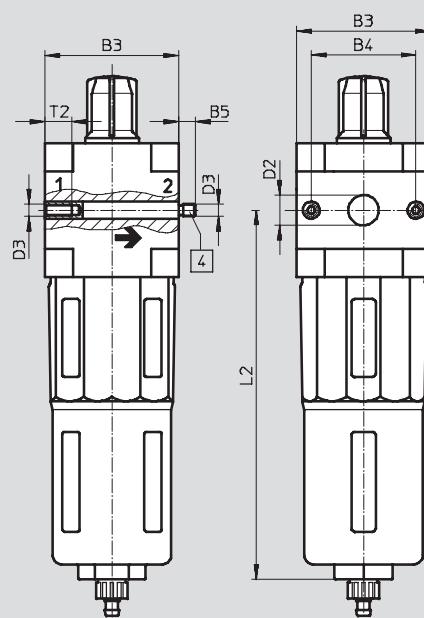
Dimensions with differential pressure indicator DA

With threaded connecting plates



Download CAD data → www.festo.com

Without threaded connecting plates



1 Barbed fitting for plastic tubing
type PCN-4

2 Metal bowl guard
3 Installation dimensions

4 Threaded pin (exchangeable)

→ Flow direction

Type	B1	B2	B3	B4	B5	D1	D2	D3	D6	H1	H2	L1	L2	L3	L8	L9	T1	T2	=C 2
Mini																			
LFMB/A-1/8-D-MINI-DA	64	52					G1/8												
LFMB/A-1/4-D-MINI-DA			40	30		-	G1/4					M4	38	20	11	173	124	60	22
LFMB/A-3/8-D-MINI-DA	70						G3/8												
LFMB/A-D-MINI-DA	-	-				5.8	-	11									7	-	
																			10
Midi																			
LFMB/A-1/4-D-MIDI-DA							G1/4					M5	52	32	22	207	151	80	24
LFMB/A-3/8-D-MIDI-DA	85	70	55	43		-	G3/8												
LFMB/A-1/2-D-MIDI-DA							G1/2												
LFMB/A-3/4-D-MIDI-DA							G3/4												
LFMB/A-D-MIDI-DA	-	-				6.8	-	24									8	-	
																			11
Maxi																			
LFMB/A-1/2-D-MAXI-DA	96	80					G1/2					M5	65	32	22	232	170	90	24
LFMB/A-3/4-D-MAXI-DA			66	46		-	G3/4												
LFMB/A-1-D-MAXI-DA	116	91					G1												
LFMB/A-D-MAXI-DA	-	-				6.8	-	30									8	-	
																			11

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Fine and micro filters LFMA/LFMB, D series, metal design

FESTO

Technical data

Ordering data – Micro filter LFMA

Grade of filtration 0.01 µm, metal bowl guard

Size	Connection	Input pressure 1 ... 16 bar		Input pressure 1.5 ... 12 bar	
		Condensate drain turned manually		Condensate drain fully automatic	
		Part No.	Type	Part No.	Type
Without threaded connecting plates					
Mini		192563	LFMA-D-MINI	192566	LFMA-D-MINI-A
Midi		192564	LFMA-D-MIDI	192567	LFMA-D-MIDI-A
Maxi		192565	LFMA-D-MAXI	192568	LFMA-D-MAXI-A
With threaded connecting plates					
Mini	G ¹ / ₈	162642	LFMA-1/8-D-MINI	162650	LFMA-1/8-D-MINI-A
	G ¹ / ₄	162643	LFMA-1/4-D-MINI	162651	LFMA-1/4-D-MINI-A
	G ³ / ₈	162644	LFMA-3/8-D-MINI	162652	LFMA-3/8-D-MINI-A
Midi	G ¹ / ₄	186469	LFMA-1/4-D-MIDI	186470	LFMA-1/4-D-MIDI-A
	G ³ / ₈	162645	LFMA-3/8-D-MIDI	162653	LFMA-3/8-D-MIDI-A
	G ¹ / ₂	162646	LFMA-1/2-D-MIDI	162654	LFMA-1/2-D-MIDI-A
	G ³ / ₄	162647	LFMA-3/4-D-MIDI	162655	LFMA-3/4-D-MIDI-A
Maxi	G ¹ / ₂	186476	LFMA-1/2-D-MAXI	186475	LFMA-1/2-D-MAXI-A
	G ³ / ₄	162648	LFMA-3/4-D-MAXI	162656	LFMA-3/4-D-MAXI-A
	G ₁	162649	LFMA-1-D-MAXI	162657	LFMA-1-D-MAXI-A

Ordering data – Fine filter LFMB

Grade of filtration 1 µm, metal bowl guard

Size	Connection	Input pressure 1 ... 16 bar		Input pressure 1.5 ... 12 bar	
		Condensate drain turned manually		Condensate drain fully automatic	
		Part No.	Type	Part No.	Type
Without threaded connecting plates					
Mini		192569	LFMB-D-MINI	192572	LFMB-D-MINI-A
Midi		192570	LFMB-D-MIDI	192573	LFMB-D-MIDI-A
Maxi		192571	LFMB-D-MAXI	192574	LFMB-D-MAXI-A
With threaded connecting plates					
Mini	G ¹ / ₈	162626	LFMB-1/8-D-MINI	162634	LFMB-1/8-D-MINI-A
	G ¹ / ₄	162627	LFMB-1/4-D-MINI	162635	LFMB-1/4-D-MINI-A
	G ³ / ₈	162628	LFMB-3/8-D-MINI	162636	LFMB-3/8-D-MINI-A
Midi	G ¹ / ₄	186467	LFMB-1/4-D-MIDI	186468	LFMB-1/4-D-MIDI-A
	G ³ / ₈	162629	LFMB-3/8-D-MIDI	162637	LFMB-3/8-D-MIDI-A
	G ¹ / ₂	162630	LFMB-1/2-D-MIDI	162638	LFMB-1/2-D-MIDI-A
	G ³ / ₄	162631	LFMB-3/4-D-MIDI	162639	LFMB-3/4-D-MIDI-A
Maxi	G ¹ / ₂	186473	LFMB-1/2-D-MAXI	186474	LFMB-1/2-D-MAXI-A
	G ³ / ₄	162632	LFMB-3/4-D-MAXI	162640	LFMB-3/4-D-MAXI-A
	G ₁	162633	LFMB-1-D-MAXI	162641	LFMB-1-D-MAXI-A

Fine and micro filters LFMA/LFMB, D series, metal design

Technical data

FESTO

Ordering data – Micro filter LFMA with differential pressure indicator DA

Working pressure 12 bar, grade of filtration 0.01 µm, metal bowl guard

Size	Connection	Condensate drain turned manually		Condensate drain fully automatic	
		Part No.	Type	Part No.	Type
Without threaded connecting plates					
Mini		532837	LFMA-D-MINI-DA	532840	LFMA-D-MINI-DA-A
Midi		532838	LFMA-D-MIDI-DA	532841	LFMA-D-MIDI-DA-A
Maxi		532839	LFMA-D-MAXI-DA	532842	LFMA-D-MAXI-DA-A
With threaded connecting plates					
Mini	G1/8	532843	LFMA-1/8-D-MINI-DA	532853	LFMA-1/8-D-MINI-DA-A
	G1/4	532844	LFMA-1/4-D-MINI-DA	532854	LFMA-1/4-D-MINI-DA-A
	G3/8	532845	LFMA-3/8-D-MINI-DA	532855	LFMA-3/8-D-MINI-DA-A
Midi	G1/4	532846	LFMA-1/4-D-MIDI-DA	532856	LFMA-1/4-D-MIDI-DA-A
	G3/8	532847	LFMA-3/8-D-MIDI-DA	532857	LFMA-3/8-D-MIDI-DA-A
	G1/2	532848	LFMA-1/2-D-MIDI-DA	532858	LFMA-1/2-D-MIDI-DA-A
	G3/4	532849	LFMA-3/4-D-MIDI-DA	532859	LFMA-3/4-D-MIDI-DA-A
Maxi	G1/2	532850	LFMA-1/2-D-MAXI-DA	532860	LFMA-1/2-D-MAXI-DA-A
	G3/4	532851	LFMA-3/4-D-MAXI-DA	532861	LFMA-3/4-D-MAXI-DA-A
	G1	532852	LFMA-1-D-MAXI-DA	532862	LFMA-1-D-MAXI-DA-A

Ordering data – Fine filter LFMB with differential pressure indicator DA

Working pressure 12 bar, grade of filtration 1 µm, metal bowl guard

Size	Connection	Condensate drain turned manually		Condensate drain fully automatic	
		Part No.	Type	Part No.	Type
Without threaded connecting plates					
Mini		532811	LFMB-D-MINI-DA	532814	LFMB-D-MINI-DA-A
Midi		532812	LFMB-D-MIDI-DA	532815	LFMB-D-MIDI-DA-A
Maxi		532813	LFMB-D-MAXI-DA	532816	LFMB-D-MAXI-DA-A
With threaded connecting plates					
Mini	G1/8	532817	LFMB-1/8-D-MINI-DA	532827	LFMB-1/8-D-MINI-DA-A
	G1/4	532818	LFMB-1/4-D-MINI-DA	532828	LFMB-1/4-D-MINI-DA-A
	G3/8	532819	LFMB-3/8-D-MINI-DA	532829	LFMB-3/8-D-MINI-DA-A
Midi	G1/4	532820	LFMB-1/4-D-MIDI-DA	532830	LFMB-1/4-D-MIDI-DA-A
	G3/8	532821	LFMB-3/8-D-MIDI-DA	532831	LFMB-3/8-D-MIDI-DA-A
	G1/2	532822	LFMB-1/2-D-MIDI-DA	532832	LFMB-1/2-D-MIDI-DA-A
	G3/4	532823	LFMB-3/4-D-MIDI-DA	532833	LFMB-3/4-D-MIDI-DA-A
Maxi	G1/2	532824	LFMB-1/2-D-MAXI-DA	532834	LFMB-1/2-D-MAXI-DA-A
	G3/4	532825	LFMB-3/4-D-MAXI-DA	532835	LFMB-3/4-D-MAXI-DA-A
	G1	532826	LFMB-1-D-MAXI-DA	532836	LFMB-1-D-MAXI-DA-A

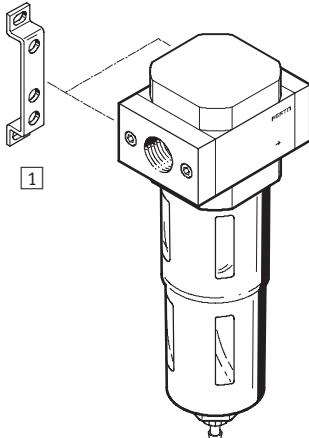
Active carbon filters LFX, D series, metal design

FESTO

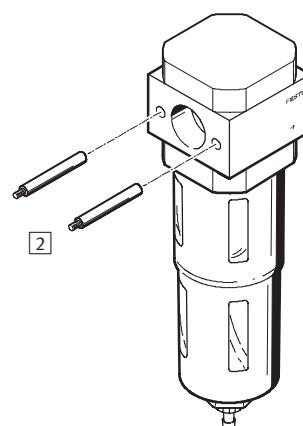
Peripherals overview and Type codes

Mini/Midi/Maxi

Individual unit with connection plates



Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

	Individual unit	Combination		→ Page/ Internet
		with connection plates	without connection plates	
[1] Mounting bracket HFOE	■	-	■	-
[2] Threaded pin (included in scope of delivery) FRB	-	-	■	■

LFX – 1/4 – D – MIDI

Basic function

LFX Activated carbon filters

Pneumatic connection

1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8
1/2	Thread G1/2
3/4	Thread G3/4
1	Thread G1

Series

D Series

Size

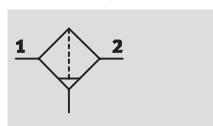
MINI	Grid dimension 40 mm (without connection plates)
MIDI	Grid dimension 55 mm (without connection plates)
MAXI	Grid dimension 66 mm (without connection plates)

Active carbon filters LFX, D series, metal design

Technical data

FESTO

Manual rotary condensate drain



- 1 - Flow rate
300 ... 1430 l/min
- 2 - Temperature range
-10 ... +60 °C
- 3 - Input pressure
0 ... 16 bar



- Removal of liquid and gaseous oil particles from compressed air using active carbon
- Active carbon filter cartridges provide odour and oil-free air to food industry standard
- Prefiltration down to a particle size of 0.01 µm is recommended
- New filter cartridges → 37

General technical data											
Size	Mini			Midi				Maxi			
Pneumatic connection	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1	
Operating medium	Compressed air, filtered, unlubricated, grade of filtration 0.01 µm										
Design	Fibre filter (filter fabric made of active carbon)										
Type of mounting	Via accessories In-line installation										
Assembly position	Vertical ±5°										
Residual oil content [mg/m³]	≤0.003										
Air purity class at the output	1.7.1 to DIN ISO 8573-1										
Input pressure [bar]	0 ... 16										

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard nominal flow rate 1) qnN and standard flow rate qn [l/min]						
Connection	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Mini						
qnN	300	330	400	—	—	—
qn max	360	360	360	—	—	—
Midi						
qnN	—	650	950	1050	1100	—
qn max	—	900	900	900	900	—
Maxi						
qnN	—	—	—	1350	1400	1430
qn max	—	—	—	1100	1100	1100

1) Measured at p1 = 6 bar and Δp = 70 mbar.

A minimum flow rate of 125 l/min is required for flawless functioning.

Ambient conditions			
Size	Mini	Midi	Maxi
Ambient temperature [°C]	-10 ... +60 °C		
Temperature of medium [°C]	+5 ... +30 °C		
Corrosion resistance class CRC ¹⁾	2		

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Active carbon filters LFX, D series, metal design

FESTO

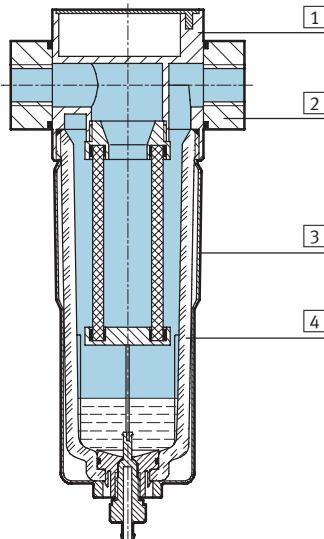
Technical data

Weight [g]

Size	Mini	Midi	Maxi
With connecting plates	376	816	1191
Without connecting plates	283	600	921

Materials

Sectional view

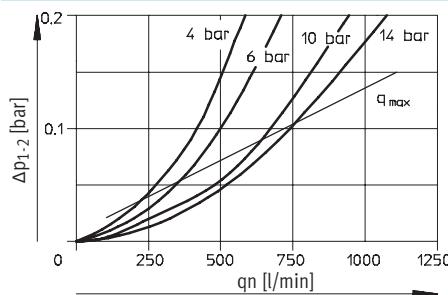


Active carbon filter

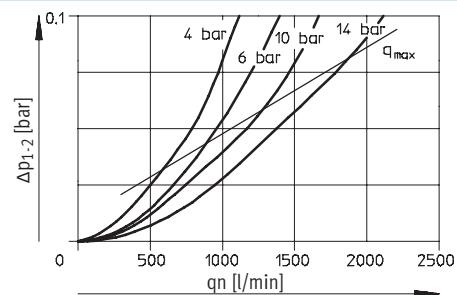
[1] Housing	Die-cast zinc
[2] Connecting plates	Aluminium
[3] Bowl	Polycarbonate
[4] Metal bowl guard	Aluminium
- Seals	Nitrile rubber
Note on materials	Free of copper, PTFE and silicone

Standard flow rate q_n as a function of the differential pressure Δp_{1-2}

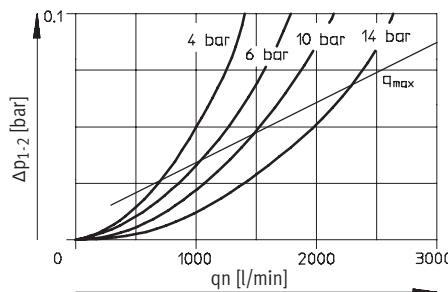
LFX-1/4-D-MINI



LFX-1/2-D-MIDI



LFX-1-D-MAXI



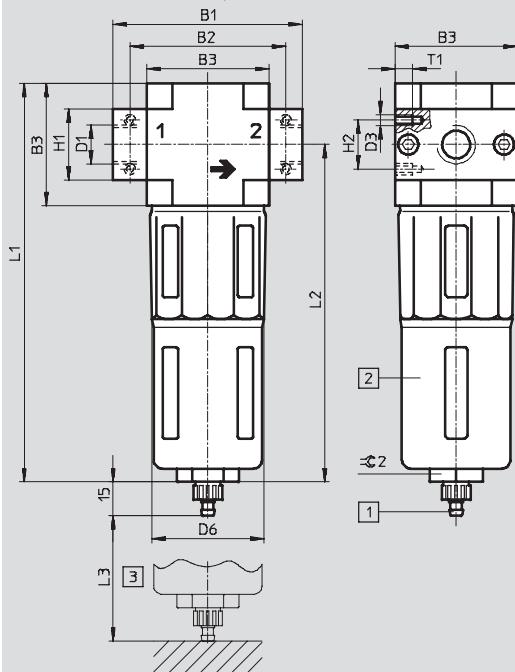
Active carbon filters LFX, D series, metal design

FESTO

Technical data

Dimensions

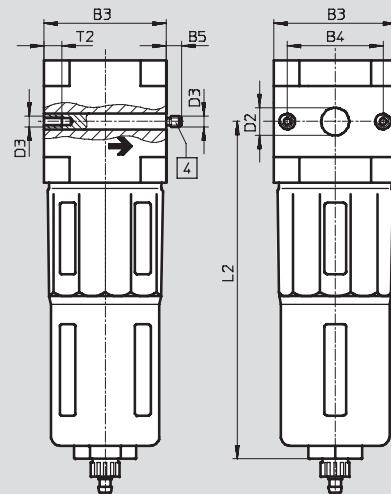
With threaded connecting plates



[1] Barbed fitting for plastic tubing
type PCN-4

[2] Metal bowl guard
[3] Installation dimensions

Without threaded connecting plates



[4] Threaded pin (exchangeable)

→ Flow direction

Type	B1	B2	B3	B4	B5	D1	D2	D3	D6	H1	H2	L1	L2	L3	T1	T2	=C 2
Mini																	
LFX-1/8-D-MINI	64					G1/8											
LFX-1/4-D-MINI		52		40	30	G1/4	-	M4		38	20	11	144	124	60	7	-
LFX-3/8-D-MINI	70					G3/8											22
LFX-D-MINI	-	-			5.8	-	11	-								-	10
Midi																	
LFX-1/4-D-MIDI		85		70		G1/4											
LFX-3/8-D-MIDI				55		G3/8	-										
LFX-1/2-D-MIDI				43		G1/2											
LFX-3/4-D-MIDI						G3/4											
LFX-D-MIDI	-	-			6.8	-	24									-	11
Maxi																	
LFX-1/2-D-MAXI	96	80			66	G1/2											
LFX-3/4-D-MAXI					46	G3/4	-										
LFX-1-D-MAXI	116	91				G1											
LFX-D-MAXI	-	-			6.8	-	30									-	11

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Active carbon filters LFX, D series, metal design

FESTO

Technical data

Ordering data

Active carbon filter with metal bowl guard

Size	Part No.	Type
Without threaded connecting plates		
Mini	532776	LFX-D-MINI
Midi	532777	LFX-D-MIDI
Maxi	532778	LFX-D-MAXI

Ordering data

Active carbon filter with metal bowl guard

Size	Connection	Part No.	Type
With threaded connecting plates			
Mini	G ¹ / ₈	532779	LFX-1/8-D-MINI
	G ¹ / ₄	532802	LFX-1/4-D-MINI
	G ³ / ₈	532780	LFX-3/8-D-MINI
Midi	G ¹ / ₄	532781	LFX-1/4-D-MIDI
	G ³ / ₈	532782	LFX-3/8-D-MIDI
	G ¹ / ₂	532783	LFX-1/2-D-MIDI
	G ³ / ₄	532784	LFX-3/4-D-MIDI
Maxi	G ¹ / ₂	532785	LFX-1/2-D-MAXI
	G ³ / ₄	532786	LFX-3/4-D-MAXI
	G ₁	532787	LFX-1-D-MAXI

Filter combinations LFMBA, D series, metal design

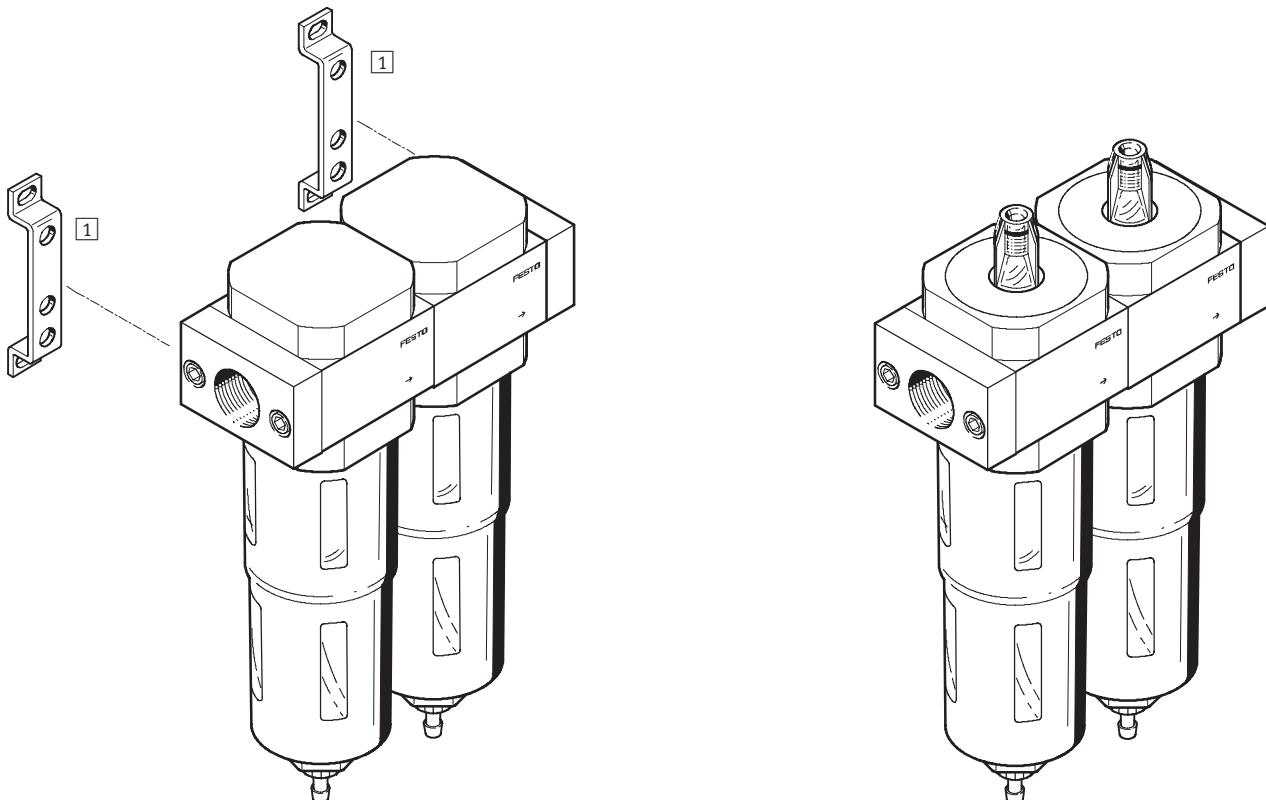
Peripherals overview

FESTO

Mini/Midi/Maxi

without differential pressure indicator

with differential pressure indicator



Mounting components

→ Page/
Internet

[1] Mounting bracket
HFOE

hfoe-d

Filter combinations LFMBA, D series, metal design

FESTO

Type codes

LFMBA - 1/4 - D - MIDI - DA - A

Basic function

LFMBA Filter combination

Pneumatic connection

1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8
1/2	Thread G1/2
3/4	Thread G3/4
1	Thread G1

Series

D Series

Size

MINI	Grid dimension 40 mm (without connecting plates)
MIDI	Grid dimension 55 mm (without connecting plates)
MAXI	Grid dimension 60 mm (without connecting plates)

Filter change sensor

	Without differential pressure indicator
DA	With differential pressure indicator

Condensate drain

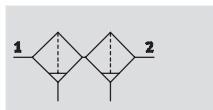
	Turned manually
A	Fully automatic

Filter combinations LFMBA, D series, metal design

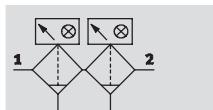
Technical data

FESTO

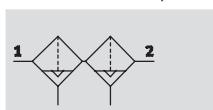
Manual rotary condensate drain,
without differential pressure indicator



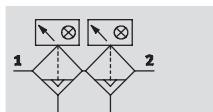
with differential pressure indicator



Fully automatic condensate drain,
without differential pressure indicator



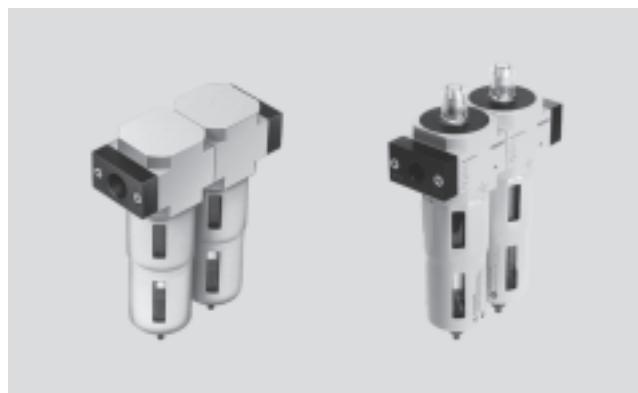
with differential pressure indicator



- - Flow rate
125 ... 600 l/min

- - Temperature range
-10 ... +60 °C

- - Input pressure
1 ... 16 bar



- High efficiency filter for special requirements
- Air quality to DIN ISO 8573-1
- Available as pre-assembled filter combination
- Version with differential pressure indicator for optical indication of filter pollution
- Filter cartridges with 1 µm and 0.01 µm
- New filter cartridges → 37

ISO class 1 for particles:
max. particle density 0.1 mg/m³
ISO class 2 for oil aerosols:
max. oil concentration 0.1 mg/m³
Filter efficiency 99.9999%

General technical data

Size	Mini			Midi				Maxi									
Pneumatic connection	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1							
Operating medium	Filtered compressed air																
Design	Fibre filter																
Type of mounting	Via accessories In-line installation																
Assembly position	Vertical ±5°																
Grade of filtration [µm]	0.01 and 1																
Residual oil content [mg/m³]	≤0.01																
Max. condensate volume [cm³]	22			43				80									
Input pressure [bar]																	
Condensate drain	turned manually	1 ... 16															
	fully automatic	1.5 ... 12															

- Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard nominal flow rate¹⁾ qN [l/min]

Connection	Mini			Midi				Maxi		
	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1
LFMBA	125	130	140	300	350	350	350	550	550	600

1) Measured at p1 = 6 bar and Δp = 70 mbar.

A minimum flow rate of 125 l/min is required for flawless functioning.

Filter combinations LFMBA, D series, metal design

FESTO

Technical data

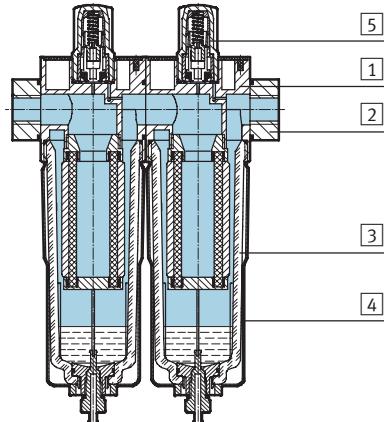
Ambient conditions			
Size	Mini	Midi	Maxi
Ambient temperature [°C]	-10 ... +60		
Temperature of medium [°C]	+1.5 ... +60		
Corrosion resistance class CRC ¹⁾	2		

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]			
Size	Mini	Midi	Maxi
Without differential pressure indicator	500	1300	2400
With differential pressure indicator	651	1429	2362

Materials			
Sectional view			

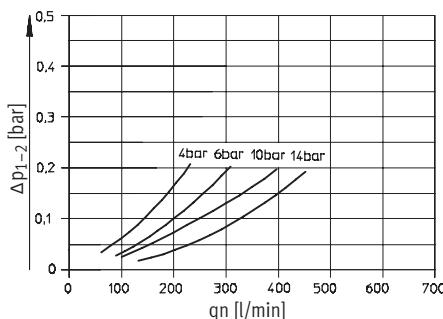


Filter combination

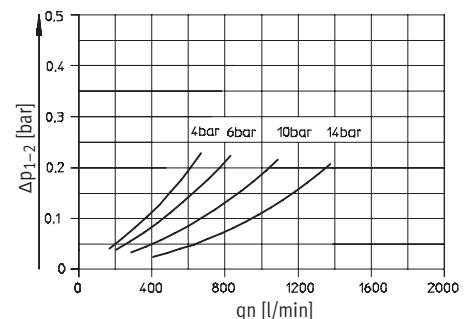
[1] Housing	Die-cast zinc
[2] Connecting plates	Die-cast zinc
[3] Bowl	Polycarbonate
[4] Bowl guard	Aluminium
[5] Housing for version with differential pressure indicator	Polycarbonate
– Seals	Nitrile rubber
Note on materials	Free of copper and PTFE

Standard flow rate q_n as a function of the differential pressure Δp_{1-2}

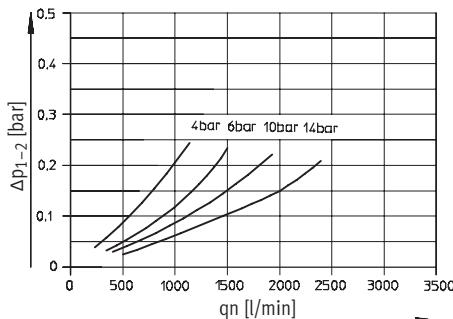
LFMBA-1/4-D-MINI and LFMBA-1/4-D-MINI-A



LFMBA-1/2-D-MIDI and LFMBA-1/2-D-MIDI-A



LFMBA-1-D-MAXI and LFMBA-1-D-MAXI-A



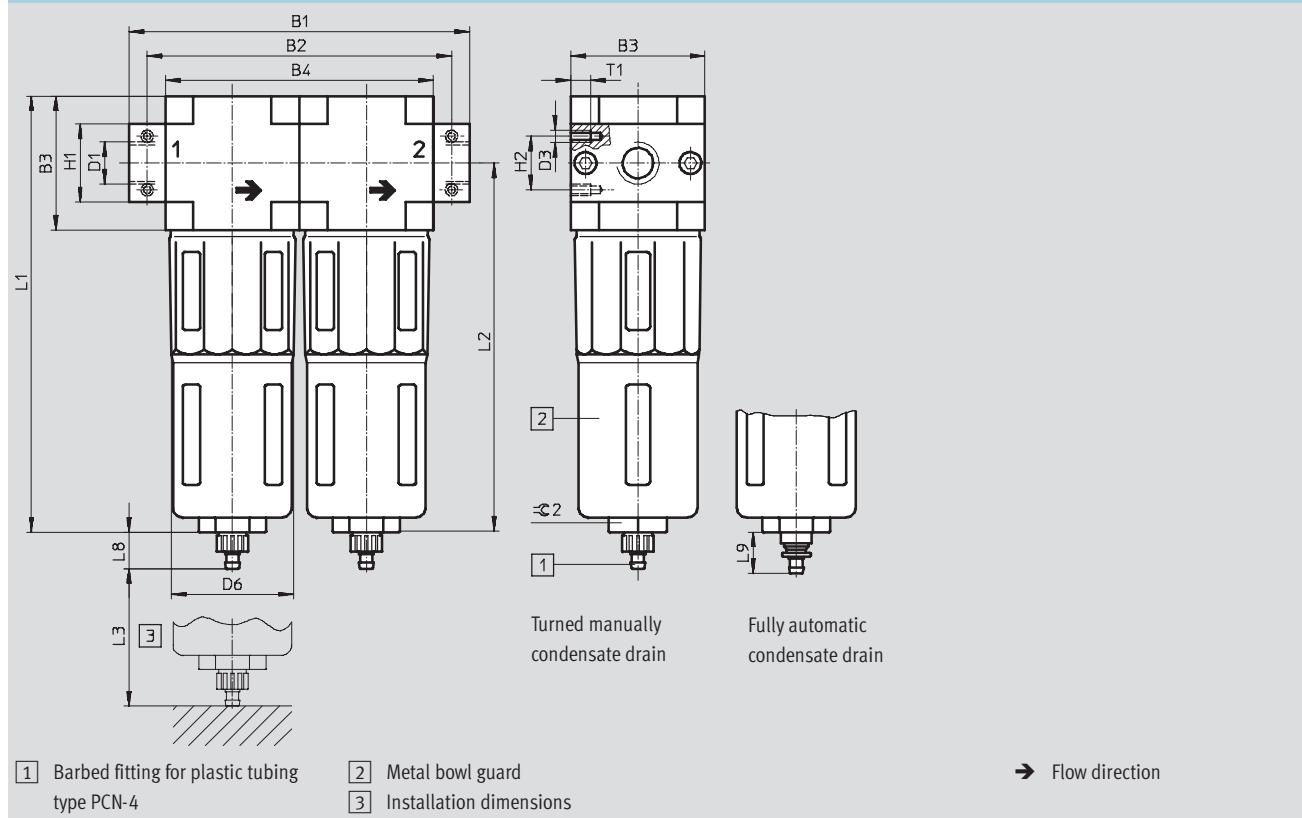
Filter combinations LFMBA, D series, metal design

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	D1	D3	D6	H1	H2	L1	L2	L3	L8	L9	T1	=C 2		
Mini																		
LFMBA-1/8-D-MINI	104		92	40	80	G ¹ / ₈		M4	38	20	11	144	124	60	15	19		
LFMBA-1/4-D-MINI						G ¹ / ₄									7	22		
LFMBA-3/8-D-MINI	110					G ³ / ₈												
Midi																		
LFMBA-1/4-D-MIDI	140		125	55	110	G ¹ / ₄		M5	52	32	22	179	151	80	15	19	8	24
LFMBA-3/8-D-MIDI						G ³ / ₈												
LFMBA-1/2-D-MIDI						G ¹ / ₂												
LFMBA-3/4-D-MIDI						G ³ / ₄												
Maxi																		
LFMBA-1/2-D-MAXI	162	146	66	132	G ¹ / ₂		M5	65	32	22	203	170	90	15	19	8	24	
LFMBA-3/4-D-MAXI					G ³ / ₄													
LFMBA-1-D-MAXI					G1													

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

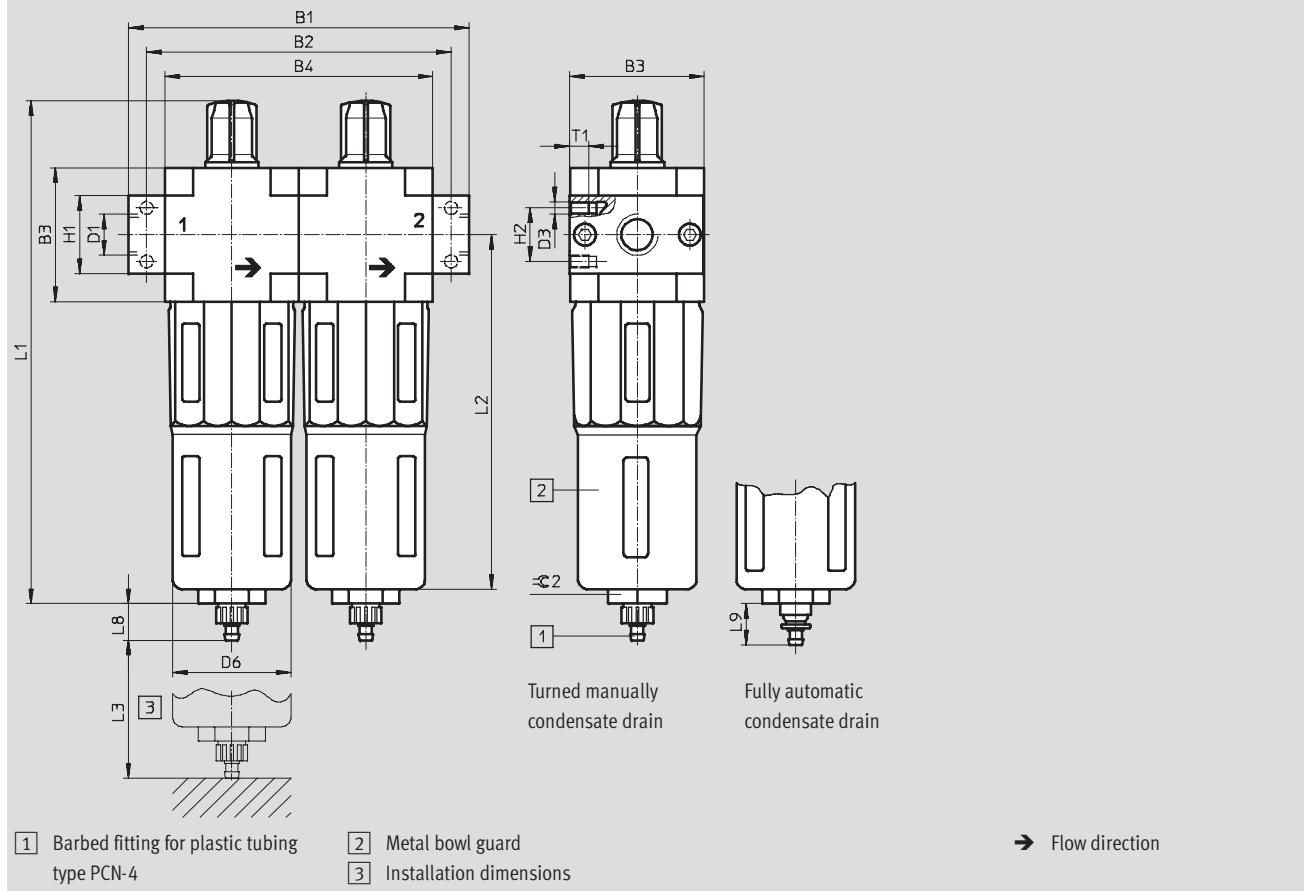
Filter combinations LFMBA, D series, metal design

FESTO

Technical data

Dimensions with differential pressure indicator

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	D1	D3	D6	H1	H2	L1	L2	L3	L8	L9	T1	=C 2
Mini																
LFMBA-1/8-D-MINI-DA	104				G1/8											
LFMBA-1/4-D-MINI-DA		92	40	80	G1/4	M4	38	20	11	173	124	60	15	19	7	22
LFMBA-3/8-D-MINI-DA	110				G3/8											
Midi																
LFMBA-1/4-D-MIDI-DA					G1/4											
LFMBA-3/8-D-MIDI-DA	140	125	55	110	G3/8	M5	52	32	22	206	151	80	15	19	8	24
LFMBA-1/2-D-MIDI-DA					G1/2											
LFMBA-3/4-D-MIDI-DA					G3/4											
Maxi																
LFMBA-1/2-D-MAXI-DA	162	146	66	132	G1/2											
LFMBA-3/4-D-MAXI-DA					G3/4	M5	65	32	22	231	170	90	15	19	8	24
LFMBA-1-D-MAXI-DA	182	157			G1		40									

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Filter combinations LFMBA, D series, metal design

Technical data

FESTO

Ordering data – Filter combination LFMBA			
Grade of filtration 1 µm and 0.01 µm, metal bowl guard			
Size	Connection	Input pressure 1 ... 16 bar	Input pressure 1.5 ... 12 bar Condensate drain turned manually
		Condensate drain turned manually	
		Part No. Type	
Mini	G1/8	162658 LFMBA-1/8-D-MINI	162666 LFMBA-1/8-D-MINI-A
	G1/4	162659 LFMBA-1/4-D-MINI	162667 LFMBA-1/4-D-MINI-A
	G3/8	162660 LFMBA-3/8-D-MINI	162668 LFMBA-3/8-D-MINI-A
Midi	G1/4	186471 LFMBA-1/4-D-MIDI	186472 LFMBA-1/4-D-MIDI-A
	G3/8	162661 LFMBA-3/8-D-MIDI	162669 LFMBA-3/8-D-MIDI-A
	G1/2	162662 LFMBA-1/2-D-MIDI	162670 LFMBA-1/2-D-MIDI-A
	G3/4	162663 LFMBA-3/4-D-MIDI	162671 LFMBA-3/4-D-MIDI-A
Maxi	G1/2	186477 LFMBA-1/2-D-MAXI	186478 LFMBA-1/2-D-MAXI-A
	G3/4	162664 LFMBA-3/4-D-MAXI	162672 LFMBA-3/4-D-MAXI-A
	G1	162665 LFMBA-1-D-MAXI	162673 LFMBA-1-D-MAXI-A

Ordering data – Filter combination LFMBA with differential pressure indicator DA			
Grade of filtration 1 µm and 0.01 µm, metal bowl guard			
Size	Connection	Input pressure 1 ... 16 bar	Input pressure 1.5 ... 12 bar Condensate drain fully automatic
		Condensate drain turned manually	
		Part No. Type	
Mini	G1/8	532863 LFMBA-1/8-D-MINI-DA	532873 LFMBA-1/8-D-MINI-DA-A
	G1/4	532864 LFMBA-1/4-D-MINI-DA	532874 LFMBA-1/4-D-MINI-DA-A
	G3/8	532865 LFMBA-3/8-D-MINI-DA	532875 LFMBA-3/8-D-MINI-DA-A
Midi	G1/4	532866 LFMBA-1/4-D-MIDI-DA	532876 LFMBA-1/4-D-MIDI-DA-A
	G3/8	532867 LFMBA-3/8-D-MIDI-DA	532877 LFMBA-3/8-D-MIDI-DA-A
	G1/2	532868 LFMBA-1/2-D-MIDI-DA	532878 LFMBA-1/2-D-MIDI-DA-A
	G3/4	532869 LFMBA-3/4-D-MIDI-DA	532879 LFMBA-3/4-D-MIDI-DA-A
Maxi	G1/2	532870 LFMBA-1/2-D-MAXI-DA	532880 LFMBA-1/2-D-MAXI-DA-A
	G3/4	532871 LFMBA-3/4-D-MAXI-DA	532881 LFMBA-3/4-D-MAXI-DA-A
	G1	532872 LFMBA-1-D-MAXI-DA	532882 LFMBA-1-D-MAXI-DA-A

Filters LF/LFMA/LFMB/LFX/LFMBA, D series, metal design

FESTO

Accessories

Filter cartridges, D series, metal design



Ordering data

Size	Filter cartridge	Grade of filtration [μm]	Part No.	Type
Micro	Filter cartridge	5	526818	LFP-D-MICRO-5M
Mini	Micro-filter cartridge	0.01	162674	MS4/D-MINI-LFM-A
	Fine-filter cartridge	1	162677	MS4/D-MINI-LFM-B
	Filter cartridge	5	159640	LFP-D-MINI-5M
	Filter cartridge	40	363665	LFP-D-MINI-40M
	Active carbon filter cartridge	-	532912	MS4/D-MINI-LFX
Midi	Micro-filter cartridge	0.01	162675	LFMAP-D-MIDI
	Fine-filter cartridge	1	162678	LFMBP-D-MIDI
	Filter cartridge	5	159594	LFP-D-MIDI-5M
	Filter cartridge	40	363667	LFP-D-MIDI-40M
	Active carbon filter cartridge	-	532788	LFACP-MIDI
Maxi	Micro-filter cartridge	0.01	162676	LFMAP-D-MAXI
	Fine-filter cartridge	1	162679	LFMBP-D-MAXI
	Filter cartridge	5	159641	LFP-D-MAXI-5M
	Filter cartridge	40	363664	LFP-D-MAXI-40M
	Active carbon filter cartridge	-	532789	LFACP-MAXI