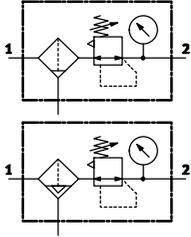


Filter Regulators LFR – Inch Series

Technical Data

FESTO



Materials
 Housing: Die-cast zinc
 Bowl: Polycarbonate
 Seals: Nitrile rubber
 Free of copper and PTFE



Technical Data		Download CAD data → www.festo.com/us/engineering				
Size	Mini		Midi		Maxi	
Pneumatic connection	1/8NPT	1/4NPT	3/8NPT	1/2NPT	3/4NPT	1NPT
Design	Filter regulator with pressure gauge					
	Filter regulator without pressure gauge					
Type of mounting	Via accessories					
	In-line installation					
	Front panel mounting					
Mounting position	Vertical ±5°					
Grade of filtration [µm]	5 or 40					
Pressure regulation range [psi]	7.5 ... 103					
	7.5 ... 176					
Pressure indication	Via pressure gauge					
Length [in]	3.0		3.7		4.2	
Width [in]	1.6 (2.5) ¹⁾		2.2 (3.3) ¹⁾		2.6 (3.8) ¹⁾ 2.6 (4.6) ¹⁾	
Height [in]	8.3		10.6		10.7	

1) Value in brackets with connecting plates.

Standard Nominal Flow Rate ¹⁾ q _N [scfm]						
Size	Mini		Midi		Maxi	
Pneumatic connection	1/8NPT	1/4NPT	3/8NPT	1/2NPT	3/4NPT	1NPT
Pressure regulation range 7.5 ... 103 psi						
	40 µm	32	53	113	138	353 388
Pressure regulation range 7.5 ... 176 psi						
Grade of filtration	5 µm	23	42	85	92	268 282
	40 µm	26	49	109	120	342 353

1) Measured at p₁ = 147 psi, p₂ = 88 psi and Δp = 15 psi.

Operating Conditions		
Condensate drain	Manual rotary Fully automatic	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [--:--]	
Supply pressure [psi]	15 ... 235 29 ... 176	
Ambient temperature [°F]	14 ... 140	

Filter Regulators LFR – Inch Series

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Ordering Data

Ordering Data – Filtration Grade 40µm								
Condensate drain	Size	Connection	Pressure regulation range 7.5 ... 103 psi		LT	Pressure regulation range 7.5 ... 176 psi		LT
			Part No.	Type		Part No.	Type	
Directly actuated diaphragm regulator								
Turned manually	Mini	1/8NPT	173762	LFR-1/8-D-7-MINI-NPT	3D	173756	LFR-1/8-D-MINI-NPT	3D
		1/4NPT	173770	LFR-1/4-D-7-MINI-NPT	3D	173764	LFR-1/4-D-MINI-NPT	3D
	Midi	3/8NPT	173786	LFR-3/8-D-7-MIDI-NPT	3D	173780	LFR-3/8-D-MIDI-NPT	3D
		1/2NPT	173794	LFR-1/2-D-7-MIDI-NPT	3D	173788	LFR-1/2-D-MIDI-NPT	3D
	Maxi	3/4NPT	173810	LFR-3/4-D-7-MAXI-NPT	3D	173804	LFR-3/4-D-MAXI-NPT	3D
		1NPT	173818	LFR-1-D-7-MAXI-NPT	3D	173812	LFR-1-D-MAXI-NPT	3D
Fully automatic	Mini	1/8NPT	173763	LFR-1/8-D-7-MINI-A-NPT	3D	173757	LFR-1/8-D-MINI-A-NPT	3D
		1/4NPT	173771	LFR-1/4-D-7-MINI-A-NPT	3D	173765	LFR-1/4-D-MINI-A-NPT	3D
	Midi	3/8NPT	173787	LFR-3/8-D-7-MIDI-A-NPT	3D	173781	LFR-3/8-D-MIDI-A-NPT	3D
		1/2NPT	173795	LFR-1/2-D-7-MIDI-A-NPT	3D	173789	LFR-1/2-D-MIDI-A-NPT	3D
	Maxi	3/4NPT	173811	LFR-3/4-D-7-MAXI-A-NPT	3D	173805	LFR-3/4-D-MAXI-A-NPT	3D
		1NPT	173819	LFR-1-D-7-MAXI-A-NPT	3D	173813	LFR-1-D-MAXI-A-NPT	3D

Ordering Data – Basic Units without Threaded Connecting Plates, Filtration Grade 5µm								
Condensate drain	Size	Connection	Pressure regulation range 7.5 ... 103 psi		LT	Pressure regulation range 7.5 ... 176 psi		LT
			Part No.	Type		Part No.	Type	
Basic Unit without pressure gauge								
Turned manually	Mini	–	546454	LFR-D-5M-MINI	1D	–	–	
	Midi	–	546455	LFR-D-5M-MIDI	1D	–	–	
	Maxi	–	546461	LFR-D-5M-MAXI	1D	–	–	
Fully automatic	Mini	–	546462	LFR-D-5M-MINI-A	1D	–	–	
	Midi	–	546468	LFR-D-5M-MIDI-A	1D	–	–	
	Maxi	–	546469	LFR-D-5M-MAXI-A	1D	–	–	

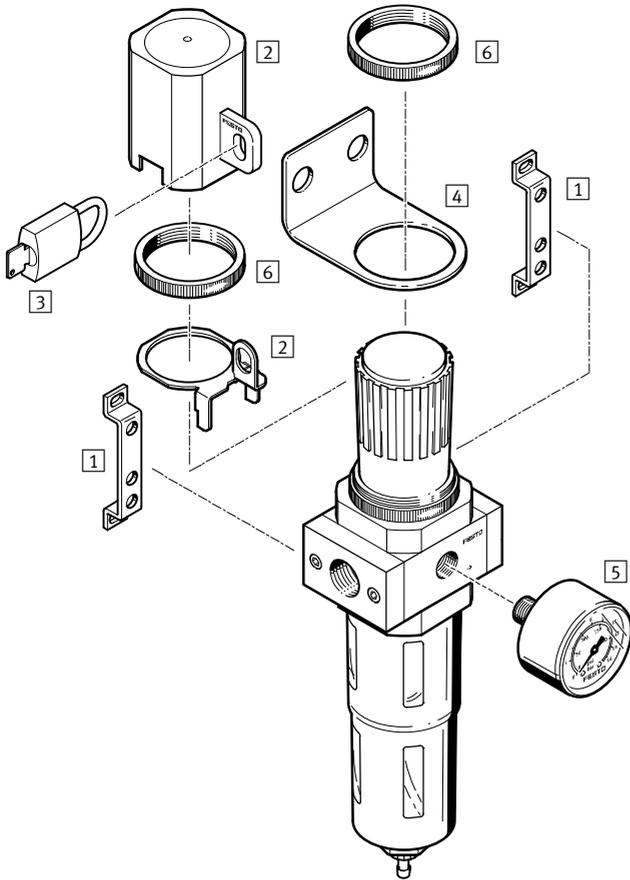
Ordering Data – Basic Units without Threaded Connecting Plates, Filtration Grade 40µm								
Condensate drain	Size	Connection	Pressure regulation range 7.5 ... 103 psi		LT	Pressure regulation range 7.5 ... 176 psi		LT
			Part No.	Type		Part No.	Type	
Basic Unit without pressure gauge								
Turned manually	Mini	–	546456	LFR-D-7-MINI	1D	546432	LFR-D-MINI	1D
	Midi	–	546463	LFR-D-7-MIDI	1D	546425	LFR-D-MIDI	1D
	Maxi	–	546470	LFR-D-7-MAXI	1D	546437	LFR-D-MAXI	1D
Fully automatic	Mini	–	546457	LFR-D-7-MINI-A	1D	546433	LFR-D-MINI-A	1D
	Midi	–	546464	LFR-D-7-MIDI-A	1D	546426	LFR-D-MIDI-A	1D
	Maxi	–	546471	LFR-D-7-MAXI-A	1D	546438	LFR-D-MAXI-A	1D
Basic Unit without pressure gauge, with integrated return flow function								
Turned manually	Maxi	–	546514	LFR-D-7-DI-MAXI	1D	546512	LFR-D-DI-MAXI	1D
Fully automatic	Maxi	–	546518	LFR-D-7-DI-MAXI-A	1D	546515	LFR-D-DI-MAXI-A	1D

LT = Lead time 1D typically ships same day/next day 3D typically ships within 3 days

Filter Regulators LFR – Inch Series

Accessories

Accessories Overview



Mounting attachments and accessories		→ Page/Internet
1	Mounting bracket HFOE	209
2	Regulator lock LRVS	209
3	Padlock LRVS-D	lrvs-d
4	Mounting bracket HR-D	209
5	Pressure gauge MA	208
6	Knurled nut HMR (not included in the basic units' scope of delivery)	hmr