

Filters

F3 Series



- ❖ All-welded construction
- ❖ Maximum working pressure: 6000 psig (413 bar)
- ❖ Working temperature from -40°F to 900°F (-40°C to 482°C)
- ❖ 316 stainless steel
- ❖ Variety of end connections

Features

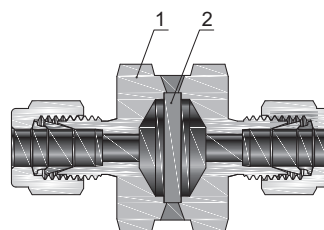
- ❖ All-welded construction prevents bypass flow
- ❖ Large filtration area
- ❖ Inline filters are for use where space is limited
- ❖ Filter is easily cleaned by backflushing
- ❖ Sintered element is available in 0.5, 2, 7, 15, 40, 60 and 90 µm
- ❖ Maximum working pressure: 6000 psig (413 bar)
- ❖ Working temperature from -40°F to 900°F (-40°C to 482°C)
- ❖ Body materials: 316 S.S., 316L S.S., 304 S.S. and 304L S.S.
- ❖ Variety of end connections available

Pressure vs. Temperature

Material	316 S.S.
Temperature, °F(°C)	Working Pressure, psig (bar)
-40 (-40) to 100 (37)	6000 (413)
200 (93)	5160 (355)
300 (148)	4660 (321)
400 (204)	4280 (294)
500 (260)	3980 (274)
600 (315)	3760 (259)
650 (343)	3700 (254)
700 (371)	3600 (248)
750 (398)	3520 (242)
800 (426)	3460 (238)
850 (454)	3380 (232)
900 (482)	3280 (225)

Standard Materials of Construction

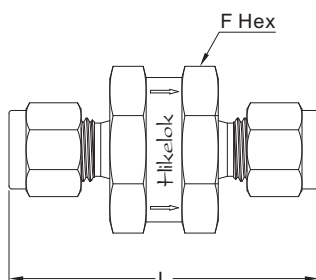
Component		Material Grade/ASTM Specification
		316 S.S.
1	Body	316 S.S./A479
2	Element	Sintered 316 S.S.



Maximum Differential Pressure of Clean Filter at 70°F (20°C)

Series	Maximum Differential Pressure psig (bar)						
	0.5 micron	2 micron	7 micron	15 micron	40 micron	60 micron	90 micron
FW	1000 (69)	1000 (69)	1000 (69)	1000 (69)	600 (41.4)	600 (41.4)	600 (41.4)

Dimensions



Basic Ordering Number	Connection Type and Size	Orifice in. (mm)	Dimension, in. (mm)	
			L	F
F3-F4-	1/4" Hikelok	0.187(4.75)	2.15(54.6)	1 (25.4)
F3-M6-	6 mm Hikelok			
F3-FNPT4-	1/4 Female NPT	0.453(11.5)	1.57(39.9)	
F3-NPT4-	1/4 Male NPT	0.281(7.14)	1.89(48.0)	
F3-GFS4-	1/4 Male GFS	0.187(4.75)	2.04(51.8)	
F3-F6-	3/8" Hikelok	0.187(4.75)	2.35(59.7)	1 1/4 (31.75)
F3-M8-	8 mm Hikelok			
F3-FNPT6-	3/8 Female NPT	0.453(11.5)	2.15(54.6)	
F3-NPT6-	3/8 Male NPT	0.281(7.14)	2.09(53.1)	
F3-GFS6-	3/8 Male GFS	0.187(4.75)	2.21(56.1)	
F3-F8-	1/2" Hikelok	0.187(4.75)	3.17(80.5)	1 3/8 (34.93)
F3-M10-	10 mm Hikelok			
F3-FNPT8-	1/2 Female NPT	0.453(11.5)	2.98(75.7)	
F3-NPT8-	1/2 Male NPT	0.281(7.14)	2.78(70.6)	
F3-GFS8-	1/2 Male GFS	0.187(4.75)	2.98(75.7)	
F3-F12-	3/4" Hikelok	0.187(4.75)	3.42(86.9)	1 5/8 (41.28)
F3-M18-	18 mm Hikelok			
F3-FNPT12-	3/4 Female NPT	0.453(11.5)	3.58(90.9)	
F3-NPT12-	3/4 Male NPT	0.281(7.14)	3.16(80.3)	
F3-F16-	1" Hikelok	0.453(11.5)	4.32(110)	1 7/8 (47.63)
F3-FNPT16-	1 Female NPT	0.281(7.14)	4.08(104)	
F3-NPT16-	1 Male NPT			

How to Order

F3 — F6 — M10 — S90 — 316

Filter Series	Inlet Type	Inlet Size	Outlet Type	Outlet Size	Element Type	Element Nom-inal Pore Size	Body Material
F3	FNPT Female NPT	2 1/8 in.		Same as inlet type and inlet size	S Sintered	05 0.5µm	316 316 S.S.
	NPT Male NPT	4 1/4 in.				2 2µm	316L 316L S.S.
	FBT Female BSPT	6 3/8 in. or 6 mm	If outlet and inlet are the same, eliminate the outlet designator	7 7µm		304 304 S.S.	
	MBT Male BSPT	8 1/2 in. or 8 mm		15 15µm		304L 304L S.S.	
	FMS Female ISO 261	10 10 mm		40 40µm			
	MS Male ISO 261	12 3/4 in. or 12 mm		60 60µm			
	FBP Female BSPP	14 14 mm or M14 x 1.5		90 90µm			
	MBP Male BSPP	16 1 in. or 16 mm					
	F Fractional Tube Fitting	18 18 mm					
	M Metric Tube Fitting	20 1 1/4 in. or 20 mm					
	FSW Fractional Tube Socket Weld	22 22 mm or M22 x1.5					
	FBW Fractional Tube Butt Weld	25 25 mm					
	GFS Male GFS Fitting						