

Inline Filters (F Series)

Catalog 4130-F
Revised, January 2001



F Series Inline Filters

Introduction

Parker F Series Inline Filters are designed for protection of instrumentation systems from undesirable materials. Component changes or repair and maintenance can admit dirt, chips, scale, or other contaminants to the small bore tubing.

Features

- Compact inline design with large filtration area
- Stainless steel and brass construction
- Replaceable sintered 316 stainless steel filter element
- Standard sintered metal micron ratings:
1, 5, 10, 50, and 100
- Optional 250 and 450 micron wire cloth filter elements
- Port connections include male and female NPT, CPI™, A-LOK®, UltraSeal, VacuSeal, BSP, SAE, and Seal-Lok®
- Heat code traceability

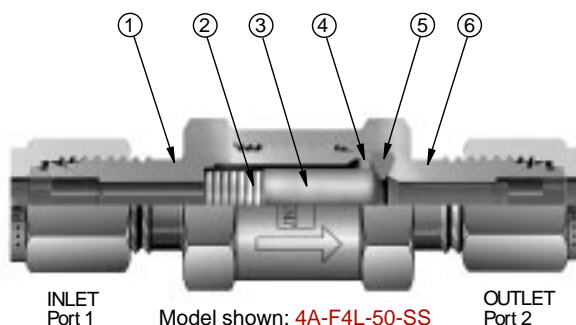
Specifications

- Pressure Rating:
316 SS - 1/8" to 3/4": 6000 psig CWP (414 bar)
1": 5000 psig CWP (345 bar)
Brass - 1/8" to 1": 3000 psig CWP (207 bar)
- Temperature Rating:
Fluorocarbon Rubber
-15 °F to 400 °F (-26 °C to 204 °C)
Buna-N Rubber
-30 °F to 275 °F (-34 °C to 135 °C)
Ethylene Propylene Rubber
-70 °F to 275 °F (-57 °C to 135 °C)
Neoprene Rubber
-45 °F to 250 °F (-43 °C to 121 °C)

Materials of Construction

Item #	Part	Stainless Steel Filter	Brass Filter
1	Body	ASTM A 276, TYPE 316	ASTM B 16, Alloy C36000
2	Spring	316 Stainless Steel	
3	Filter Element	316 Stainless Steel	
4	Guide Ring	PTFE	
5	Seal*	Fluorocarbon Rubber*	
6	Cap	ASTM A 276, TYPE 316	ASTM B 16, Alloy C36000

* Optional seal materials are available. See How to Order section.
Lubrication: Silicone Paste



Flow Calculations with 100 psig (7 bar) Inlet Pressure

Pressure Drop ΔP	F2L		F4L		F6L		F8L		F12L		F16L	
	Water gpm at 60 °F (16 °C)	Air scfm at 60 °F (16 °C)	Water gpm at 60 °F (16 °C)	Air scfm at 60 °F (16 °C)	Water gpm at 60 °F (16 °C)	Air scfm at 60 °F (16 °C)	Water gpm at 60 °F (16 °C)	Air scfm at 60 °F (16 °C)	Water gpm at 60 °F (16 °C)	Air scfm at 60 °F (16 °C)	Water gpm at 60 °F (16 °C)	Air scfm at 60 °F (16 °C)
	1 Micron		1 Micron		1 Micron		1 Micron		1 Micron		1 Micron	
5	0.04	0.38	0.13	1.34	0.13	1.38	0.56	5.91	0.66	6.90	0.91	9.52
10	0.05	0.52	0.18	1.86	0.19	1.93	0.80	8.24	0.93	9.61	1.28	13.27
50	0.11	1.03	0.40	3.67	0.42	3.80	1.78	16.21	2.08	18.92	2.87	26.12
	5 Micron		5 Micron		5 Micron		5 Micron		5 Micron		5 Micron	
5	0.06	0.61	0.26	2.74	0.31	3.26	0.92	9.69	1.81	18.96	1.88	19.75
10	0.08	0.85	0.37	3.82	0.44	4.54	1.31	13.50	2.56	26.41	2.66	27.52
50	0.18	1.67	0.83	7.53	0.98	8.94	2.92	26.57	5.71	51.99	5.95	54.18
	10 Micron		10 Micron		10 Micron		10 Micron		10 Micron		10 Micron	
5	0.25	2.63	0.38	4.01	0.45	4.74	1.68	17.67	2.33	24.45	3.04	31.88
10	0.35	3.66	0.54	5.59	0.64	6.60	2.38	24.61	3.30	34.06	4.30	44.42
50	0.79	7.21	1.21	11.00	1.43	13.00	5.32	48.45	7.37	67.05	9.61	87.44
	50 Micron		50 Micron		50 Micron		50 Micron		50 Micron		50 Micron	
5	0.37	3.92	0.76	7.95	1.80	18.89	3.67	38.52	5.23	54.87	7.64	80.16
10	0.53	5.46	1.07	11.08	2.55	26.31	5.19	53.67	7.40	76.46	10.81	111.70
50	1.18	10.75	2.40	21.81	5.69	51.80	11.61	105.65	16.54	150.50	24.16	219.86
	100 Micron		100 Micron		100 Micron		100 Micron		100 Micron		100 Micron	
5	0.51	5.37	1.33	13.94	2.74	28.72	5.13	53.77	7.95	83.42	8.38	87.88
10	0.72	7.49	1.88	19.42	3.87	40.01	7.25	74.92	11.25	116.24	11.85	122.45
50	1.62	14.73	4.20	38.22	8.65	78.76	16.21	147.48	25.14	228.81	26.49	241.03
	250 Micron		250 Micron		250 Micron		250 Micron		250 Micron		250 Micron	
5	0.58	6.03	1.77	18.46	5.41	56.57	8.95	93.50	14.28	149.18	19.14	200.01
10	0.82	8.37	2.50	25.62	7.66	78.51	12.65	129.75	20.19	207.02	27.07	277.56
50	1.82	15.85	5.59	48.53	17.12	148.74	28.29	245.81	45.14	392.21	60.52	525.83
	450 Micron		450 Micron		450 Micron		450 Micron		450 Micron		450 Micron	
5	0.78	8.08	1.82	18.92	7.02	73.18	9.05	94.28	15.36	160.03	19.81	206.39
10	1.10	11.18	2.57	26.17	9.93	101.23	12.80	130.43	21.72	221.38	28.01	285.51
50	2.45	20.54	5.74	48.07	22.21	185.94	28.62	239.57	48.57	406.62	62.64	524.43

Flow / Filtration Data

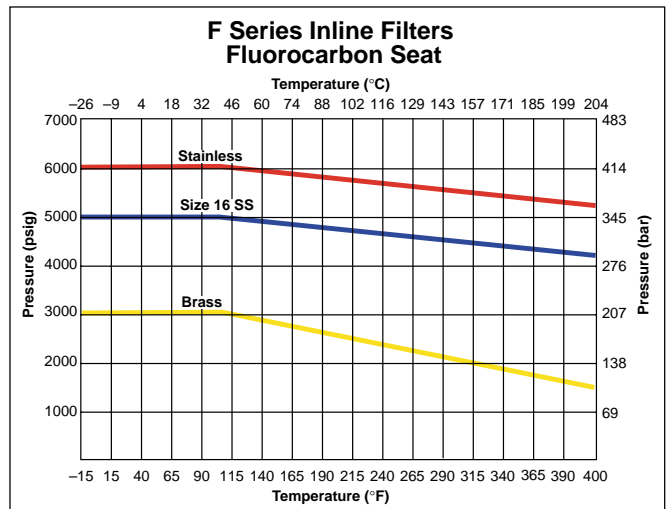
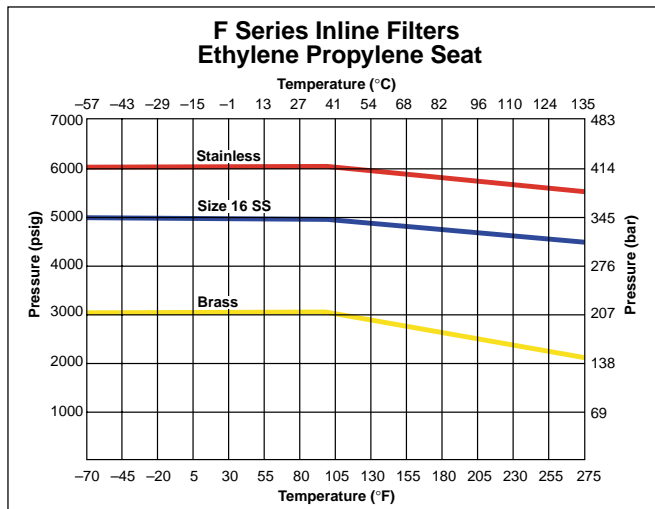
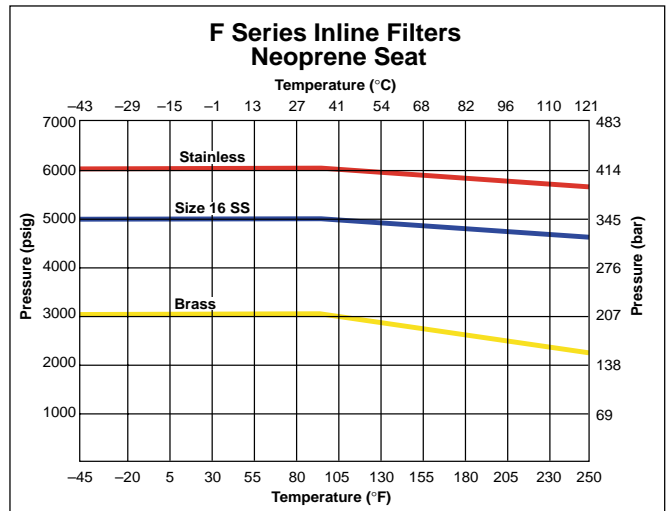
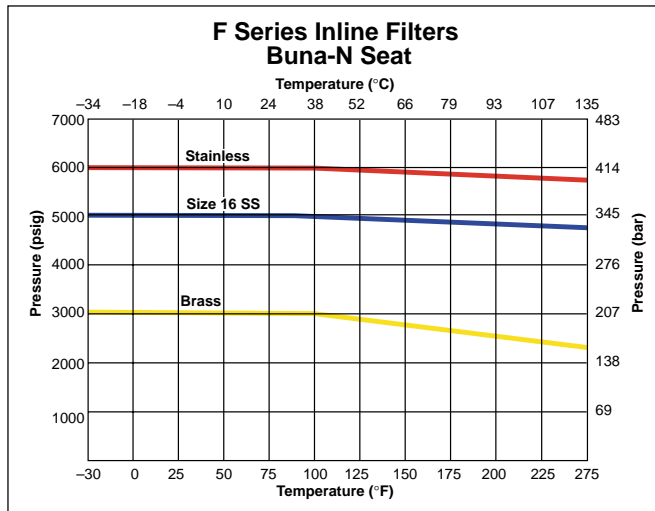
Filter Series	Effective Filtration Area		$C_v \dagger$						
			1 micron	5 micron	10 micron	50 micron	100 micron	250 Micron	450 Micron
	sq in	sq mm	Micron Range .5 to 3	Micron Range 5 to 10	Micron Range 10 to 20	Micron Range 40 to 50	Micron Range 100 to 150	Micron Range 225 to 275	Micron Range 400 to 500
F2L	0.39	252	0.016	0.026	0.112	0.167	0.229	0.258	0.347
F4L	0.70	452	0.057	0.117	0.171	0.339	0.594	0.790	0.812
F6L	1.57	1013	0.059	0.139	0.202	0.805	1.224	2.421	3.141
F8L	2.53	1632	0.252	0.413	0.753	1.642	2.292	4.001	4.047
F12L	3.77	2432	0.294	0.808	1.042	2.339	3.556	6.384	6.869
F16L	4.47	2884	0.406	0.842	1.359	3.417	3.746	8.559	8.859

† Tested in accordance with ISA S75.02. Gas flow will be choked when $P_1 - P_2 / P_1 = x_T$.
 $x_T=1.0$ for micron sizes 1 through 100; 0.79 for the 250 micron size, and 0.68 for the 450 micron size.

Maximum Pressure Differential Across Clean Filters at 70 °F (21 °C)

	1 micron	5 micron	10 micron	50 micron	100 micron	250 micron	450 micron
psig	2250	1950	1750	1150	1000	1000	1000
bar	155	134	120	79	69	69	69

Pressure vs. Temperature



Note: To determine MPa, multiply bar by 0.1

F Series Inline Filters

Dimensions

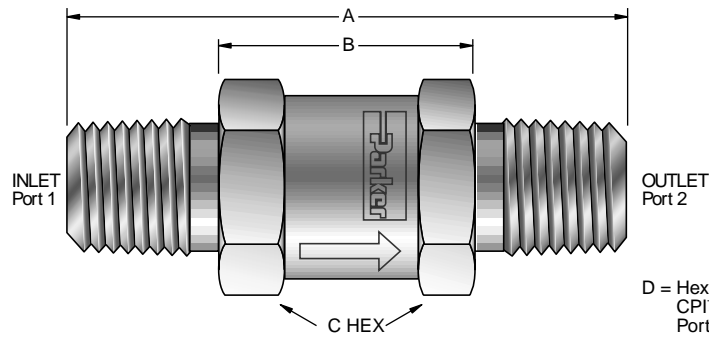
Basic Part Number	End Connections		Dimensions							
	(Inlet) Port 1	(Outlet) Port 2	A†		B		C		D	
			Inch	mm	Inch	mm	Inch	mm	Inch	mm
2A-F2L-*	1/8" A-LOK® Compression	1/8" A-LOK® Compression	2.29	58.2	1.09	27.7	.625	15.9	.438	11.1
2F-F2L-*	1/8" Female NPT	1/8" Female NPT	1.86	47.2	—	—	.625	15.9	—	—
2F5-F2L-*	1/8" Male SAE	1/8" Male SAE	1.69	42.9	1.09	27.7	.625	15.9	—	—
2G5-F2L-*	1/8" Female SAE	1/8" Female SAE	1.86	47.2	—	—	.625	15.9	—	—
2KF-F2L-*	1/8" Female BSP/ISO Tapered	1/8" Female BSP/ISO Tapered	1.86	47.2	—	—	.625	15.9	—	—
2KM-F2L-*	1/8" Male BSP/ISO Tapered	1/8" Male BSP/ISO Tapered	1.77	45.0	1.00	25.4	.625	15.9	—	—
2M-F2L-*	1/8" Male NPT	1/8" Male NPT	1.77	45.0	1.01	25.7	.625	15.9	—	—
2TA-F2L-*	1/8" Tube Adapter	1/8" Tube Adapter	1.96	49.8	.88	22.4	.625	15.9	—	—
2Z-F2L-*	1/8" CPI™ Compression	1/8" CPI™ Compression	2.29	58.2	1.09	27.7	.625	15.9	.438	11.1
M3A-F2L-*	3mm A-LOK® Compression	3mm A-LOK® Compression	2.30	58.4	1.05	26.7	.625	15.9	.472	12.0
M3Z-F2L-*	3mm CPI™ Compression	3mm CPI™ Compression	2.30	58.4	1.05	26.7	.625	15.9	.472	12.0
2M2A-F2L-*	1/8" Male NPT	1/8" A-LOK® Compression	2.03	51.6	1.06	26.9	.625	15.9	.438	11.1
2M2F-F2L-*	1/8" Male NPT	1/8" Female NPT	1.82	46.2	1.44	36.6	.625	15.9	—	—
2M2Z-F2L-*	1/8" Male NPT	1/8" CPI™ Compression	2.03	51.6	1.06	26.9	.625	15.7	.438	11.1
2F-F4L-*	1/8" Female NPT	1/8" Female NPT	2.01	51.1	—	—	.750	19.1	—	—
2M-F4L-*	1/8" Male NPT	1/8" Male NPT	1.82	46.2	1.06	26.9	.750	19.1	—	—
4A-F4L-*	1/4" A-LOK® Compression	1/4" A-LOK® Compression	2.42	61.5	1.03	26.2	.750	19.1	.563	14.3
4F-F4L-*	1/4" Female NPT	1/4" Female NPT	2.40	61.0	—	—	.750	19.1	—	—
4F5-F4L-*	1/4" Male SAE	1/4" Male SAE	2.02	51.3	1.15	29.2	.750	19.1	—	—
4G5-F4L-*	1/4" Female SAE	1/4" Female SAE	2.20	55.9	—	—	.750	19.1	—	—
4KF-F4L-*	1/4" Female BSP/ISO Tapered	1/4" Female BSP/ISO Tapered	2.40	61.0	—	—	.750	19.1	—	—
4KM-F4L-*	1/4" Male BSP/ISO Tapered	1/4" Male BSP/ISO Tapered	2.18	55.4	1.06	26.9	.750	19.1	—	—
4L-F4L-*	1/4" Seal-Lok®	1/4" Seal-Lok®	1.82	46.2	1.05	26.7	.750	19.1	—	—
4M-F4L-*	1/4" Male NPT	1/4" Male NPT	2.18	55.4	1.04	26.4	.750	19.1	—	—
4Q-F4L-*	1/4" UltraSeal	1/4" UltraSeal	1.97	50.0	1.04	26.4	.750	19.1	—	—
4V-F4L-*	1/4" VacuSeal	1/4" VacuSeal	2.22	56.4	.98	24.9	.750	19.1	—	—
4TA-F4L-*	1/4" Tube Adapter	1/4" Tube Adapter	2.35	59.7	1.07	27.2	.750	19.1	—	—
4Z-F4L-*	1/4" CPI™ Compression	1/4" CPI™ Compression	2.42	61.5	1.03	26.2	.750	19.1	.563	14.3
6A-F4L-*	3/8" A-LOK® Compression	3/8" A-LOK® Compression	2.55	64.8	1.03	26.2	.750	19.1	.688	17.5
6Z-F4L-*	3/8" CPI™ Compression	3/8" CPI™ Compression	2.55	64.8	1.03	26.2	.750	19.1	.688	17.5
M6A-F4L-*	6mm A-LOK® Compression	6mm A-LOK® Compression	2.43	61.7	1.03	26.2	.750	19.1	.551	14.0
M6Z-F4L-*	6mm CPI™ Compression	6mm CPI™ Compression	2.43	61.7	1.03	26.2	.750	19.1	.551	14.0
4M4A-F4L-*	1/4" Male NPT	1/4" A-LOK® Compression	2.31	58.7	1.04	26.4	.750	19.1	.563	14.3
4M4F-F4L-*	1/4" Male NPT	1/4" Female NPT	2.29	58.2	1.72	43.7	.750	19.1	—	—
4M4Z-F4L-*	1/4" Male NPT	1/4" CPI™ Compression	2.32	58.9	1.05	26.7	.750	19.1	.563	14.3
4M6A-F4L-*	1/4" Male NPT	3/8" A-LOK® Compression	2.38	60.5	1.05	26.7	.750	19.1	.688	17.5
4M6Z-F4L-*	1/4" Male NPT	3/8" CPI™ Compression	2.38	60.5	1.05	26.7	.750	19.1	.688	17.5
6A-F6L-*	3/8" A-LOK® Compression	3/8" A-LOK® Compression	3.27	83.1	1.75	44.5	1.000	25.4	.688	17.5
6F-F6L-*	3/8" Female NPT	3/8" Female NPT	3.03	77.0	—	—	1.000	25.4	—	—
6F5-F6L-*	3/8" Male SAE	3/8" Male SAE	2.71	68.8	1.76	44.7	1.000	25.4	—	—
6G5-F6L-*	3/8" Female SAE	3/8" Female SAE	2.96	75.2	—	—	1.000	25.4	—	—
6KF-F6L-*	3/8" Female BSP/ISO Tapered	3/8" Female BSP/ISO Tapered	3.03	77.0	—	—	1.000	25.4	—	—
6KM-F6L-*	3/8" Male BSP/ISO Tapered	3/8" Male BSP/ISO Tapered	2.96	75.2	1.84	46.7	1.000	25.4	—	—
6L-F6L-*	3/8" Seal-Lok®	3/8" Seal-Lok®	2.65	67.3	1.77	45.0	1.000	25.4	—	—
6M-F6L-*	3/8" Male NPT	3/8" Male NPT	2.96	75.2	1.82	46.2	1.000	25.4	—	—
6Q-F6L-*	3/8" UltraSeal	3/8" UltraSeal	2.75	69.8	1.80	45.7	1.000	25.4	—	—
6V-F6L-*	3/8" VacuSeal	3/8" VacuSeal	3.56	90.4	2.05	52.1	1.000	25.4	—	—
6TA-F6L-*	3/8" Tube Adapter	3/8" Tube Adapter	3.24	82.3	1.80	45.7	1.000	25.4	—	—
6Z-F6L-*	3/8" CPI™ Compression	3/8" CPI™ Compression	3.27	83.1	1.75	44.5	1.000	25.4	.688	17.5
8A-F6L-*	1/2" A-LOK® Compression	1/2" A-LOK® Compression	3.55	90.2	1.81	46.0	1.000	25.4	.875	22.2
8Z-F6L-*	1/2" CPI™ Compression	1/2" CPI™ Compression	3.55	90.2	1.81	46.0	1.000	25.4	.875	22.2
M8A-F6L-*	8mm A-LOK® Compression	8mm A-LOK® Compression	3.33	84.6	1.87	47.5	1.000	25.4	.630	16.0
M8Z-F6L-*	8mm CPI™ Compression	8mm CPI™ Compression	3.33	84.6	1.87	47.5	1.000	25.4	.630	16.0
M10A-F6L-*	10mm A-LOK® Compression	10mm A-LOK® Compression	3.35	85.1	1.81	46.0	1.000	25.4	.748	19.0
M10Z-F6L-*	10mm CPI™ Compression	10mm CPI™ Compression	3.35	85.1	1.81	46.0	1.000	25.4	.748	19.0
6M6A-F6L-*	3/8" Male NPT	3/8" A-LOK® Compression	3.14	79.8	1.81	46.0	1.000	25.4	.688	17.5
6M6F-F6L-*	3/8" Male NPT	3/8" Female NPT	3.04	77.2	2.47	62.7	1.000	25.4	—	—
6M6Z-F6L-*	3/8" Male NPT	3/8" CPI™ Compression	3.14	79.8	1.81	46.0	1.000	25.4	.688	17.5
6M8A-F6L-*	3/8" Male NPT	1/2" A-LOK® Compression	3.25	82.6	1.81	46.0	1.000	25.4	.875	22.2
6M8Z-F6L-*	3/8" Male NPT	1/2" CPI™ Compression	3.25	82.6	1.81	46.0	1.000	25.4	.875	22.2

Note: Optional wire cloth filter elements may slightly alter dimensions A and B on filters with combination end connections.

*Filter element, seat material and body material.

†For CPI™ and A-LOK®: Dimensions are measured with nuts in the finger tight position.

F Series Inline Filters



D = Hex Diameter of Nuts on
CPI™ and A-LOK® Compression
Ported Valves

Model shown: 4M-F4L-100-BN-SS

Dimensions (continued)

Basic Part Number	End Connections		Dimensions							
	(Inlet) Port 1	(Outlet) Port 2	A†		B		C		D	
			Inch	mm	Inch	mm	Inch	mm	Inch	mm
8A-F8L-*	1/2" A-LOK® Compression	1/2" A-LOK® Compression	4.08	103.6	2.34	59.4	1.250	31.8	.875	22.2
8F-F8L-*	1/2" Female NPT	1/2" Female NPT	3.56	90.4	-	-	1.250	31.8	-	-
8F5-F8L-*	1/2" Male SAE	1/2" Male SAE	3.45	87.6	2.34	59.4	1.250	31.8	-	-
8G5-F8L-*	1/2" Female SAE	1/2" Female SAE	3.56	90.4	-	-	1.250	31.8	-	-
8KF-F8L-*	1/2" Female BSP/ISO Tapered	1/2" Female BSP/ISO Tapered	3.56	90.4	-	-	1.250	31.8	-	-
8KM-F8L-*	1/2" Male BSP/ISO Tapered	1/2" Male BSP/ISO Tapered	3.56	90.4	2.06	52.3	1.250	31.8	-	-
8L-F8L-*	1/2" Seal-Lok®	1/2" Seal-Lok®	3.22	81.8	2.21	56.1	1.250	31.8	-	-
8M-F8L-*	1/2" Male NPT	1/2" Male NPT	3.56	90.4	2.05	52.1	1.250	31.8	-	-
8Q-F8L-*	1/2" UltraSeal	1/2" UltraSeal	3.28	83.3	2.33	59.2	1.250	31.8	-	-
8TA-F8L-*	1/2" Tube Adapter	1/2" Tube Adapter	3.75	95.3	1.78	45.2	1.250	31.8	-	-
8V-F8L-*	1/2" VacuSeal	1/2" VacuSeal	3.56	90.4	2.05	52.1	1.250	31.8	-	-
8Z-F8L-*	1/2" CPI™ Compression	1/2" CPI™ Compression	4.08	103.6	2.34	59.4	1.250	31.8	.875	22.2
M12A-F8L-*	12mm A-LOK® Compression	12mm A-LOK® Compression	4.06	103.1	2.34	59.4	1.250	31.8	.866	22.0
M12Z-F8L-*	12mm CPI™ Compression	12mm CPI™ Compression	4.06	103.1	2.34	59.4	1.250	31.8	.866	22.0
8M8A-F8L-*	1/2" Male NPT	1/2" A-LOK® Compression	3.82	97.0	2.19	55.7	1.250	31.8	.875	22.2
8M8F-F8L-*	1/2" Male NPT	1/2" Female NPT	3.56	90.4	2.80	71.1	1.250	31.8	-	-
8M8Z-F8L-*	1/2" Male NPT	1/2" CPI™ Compression	3.82	97.0	2.19	55.7	1.250	31.8	.875	22.2
12A-F12L-*	3/4" A-LOK® Compression	3/4" A-LOK® Compression	4.34	110.2	2.60	66.0	1.375	34.9	1.125	28.6
12F-F12L-*	3/4" Female NPT	3/4" Female NPT	4.09	103.9	-	-	1.375	34.9	-	-
12F5-F12L-*	3/4" Male SAE	3/4" Male SAE	4.05	102.9	2.59	65.8	1.375	34.9	-	-
12G5-F12L-*	3/4" Female SAE	3/4" Female SAE	4.13	104.9	-	-	1.375	34.9	-	-
12KF-F12L-*	3/4" Female BSP/ISO Tapered	3/4" Female BSP/ISO Tapered	4.09	103.9	-	-	1.375	34.9	-	-
12KM-F12L-*	3/4" Male BSP/ISO Tapered	3/4" Male BSP/ISO Tapered	4.09	103.9	2.59	65.8	1.375	34.9	-	-
12L-F12L-*	3/4" Seal-Lok®	3/4" Seal-Lok®	3.78	96.0	2.44	62.0	1.375	34.9	-	-
12M-F12L-*	3/4" Male NPT	3/4" Male NPT	4.09	103.9	2.58	65.5	1.375	34.9	-	-
12Q-F12L-*	3/4" UltraSeal	3/4" UltraSeal	3.78	96.0	2.64	67.1	1.375	34.9	-	-
12TA-F12L-*	3/4" Tube Adapter	3/4" Tube Adapter	4.24	107.7	2.18	55.4	1.375	34.9	-	-
12V-F12L-*	3/4" VacuSeal	3/4" VacuSeal	4.64	117.9	2.64	67.1	1.375	34.9	-	-
12Z-F12L-*	3/4" CPI™ Compression	3/4" CPI™ Compression	4.34	110.2	2.60	66.0	1.375	34.9	1.125	28.6
M20A-F12L-*	20mm A-LOK® Compression	20mm A-LOK® Compression	4.32	109.7	2.56	65.0	1.375	34.9	1.260	32.0
M20Z-F12L-*	20mm CPI™ Compression	20mm CPI™ Compression	4.32	109.7	2.56	65.0	1.375	34.9	1.260	32.0
M22A-F12L-*	22mm A-LOK® Compression	22mm A-LOK® Compression	4.30	109.2	2.56	65.0	1.375	34.9	1.260	32.0
M22Z-F12L-*	22mm CPI™ Compression	22mm CPI™ Compression	4.30	109.2	2.56	65.0	1.375	34.9	1.260	32.0
12M12A-F12L-*	3/4" Male NPT	3/4" A-LOK® Compression	4.22	107.2	2.59	65.8	1.375	34.9	1.125	28.6
12M12F-F12L-*	3/4" Male NPT	3/4" Female NPT	4.09	103.9	3.34	84.8	1.375	34.9	-	-
12M12Z-F12L-*	3/4" Male NPT	3/4" CPI™ Compression	4.22	107.2	2.59	65.8	1.375	34.9	1.125	28.6
16A-F16L-*	1" A-LOK® Compression	1" A-LOK® Compression	4.63	117.6	2.53	64.3	1.625	41.3	1.500	38.1
16F-F16L-*	1" Female NPT	1" Female NPT	4.84	122.9	-	-	1.625	41.3	-	-
16F5-F16L-*	1" Male SAE	1" Male SAE	4.10	104.1	2.64	67.1	1.625	41.3	-	-
16G5-F16L-*	1" Female SAE	1" Female SAE	4.84	122.9	-	-	1.625	41.3	-	-
16KF-F16L-*	1" Female BSP/ISO Tapered	1" Female BSP/ISO Tapered	4.84	122.9	-	-	1.625	41.3	-	-
16KM-F16L-*	1" Male BSP/ISO Tapered	1" Male BSP/ISO Tapered	4.52	114.8	2.64	67.1	1.625	41.3	-	-
16M-F16L-*	1" Male NPT	1" Male NPT	4.52	114.8	2.63	66.8	1.625	41.3	-	-
16L-F16L-*	1" Seal-Lok®	1" Seal-Lok®	3.83	97.3	2.45	62.2	1.625	41.3	-	-
16TA-F16L-*	1" Tube Adapter	1" Tube Adapter	5.11	129.8	2.52	64.0	1.625	41.3	-	-
16Z-F16L-*	1" CPI™ Compression	1" CPI™ Compression	4.63	117.6	2.53	64.3	1.625	41.3	1.500	38.1
M25A-F16L-*	25mm A-LOK® Compression	25mm A-LOK® Compression	4.74	120.4	2.64	67.1	1.625	41.3	1.496	38.0
M25Z-F16L-*	25mm CPI™ Compression	25mm CPI™ Compression	4.74	120.4	2.64	67.1	1.625	41.3	1.496	38.0
16M16A-F16L-*	1" Male NPT	1" A-LOK® Compression	4.57	116.1	2.58	65.5	1.625	41.3	1.500	38.1
16M16F-F16L-*	1" Male NPT	1" Female NPT	4.69	119.1	3.74	95.0	1.625	41.3	-	-
16M16Z-F16L-*	1" Male NPT	1" CPI™ Compression	4.57	116.1	2.58	65.5	1.625	41.3	1.500	38.1

Note: Optional wire cloth filter elements may slightly alter dimensions A and B on filters with combination end connections.

*Filter element, seat material and body material.

†For CPI™ and A-LOK®: Dimensions are measured with nuts in the finger tight position.

F Series Inline Filters

How to Order

The correct part number is easily derived by following the circled number sequence. The six product characteristics required are coded as shown below. * Note: If both the inlet and outlet ports are the same, eliminate the outlet port designator.

Example: 4M * - F4L - 5 - BN - B

 ① ② ③ ④ ⑤ ⑥

 Inlet Outlet Body Micron Seat Body

 Port Port Size Rating Material Material

Describes an F Series Inline Filter with 1/4" male NPT inlet and outlet ports, a 5 micron element, Buna-N seal and brass body construction.

Example: 16M 16A - F16L - 10 - NE - SS

 ① ② ③ ④ ⑤ ⑥

 Inlet Outlet Body Micron Seat Body

 Port Port Size Rating Material Material

Describes an F Series Inline Filter with a 1" male NPT inlet port and a 1" A-LOK® outlet port, a 10 micron element, neoprene seal and stainless steel body construction.

① Inlet Port	② Outlet Port	③ Body Size	④ Micron Rating	⑤ Seal Material	⑥ Body Material
2A, 2F, 2F5, 2G5, 2KF, 2KM 2M, 2TA, 2Z, M3A, M3Z,	2A, 2F, 2F5, 2G5, 2KF, 2KM 2M, 2TA, 2Z, M3A, M3Z,	F2L	1 micron	Blank - Fluorocarbon Rubber	B - Brass
4A, 4F, 4F5, 4G5, 4KF, 4KM, 4L, 4M, 4Q, 4TA, 4V, 4Z, M6A, M6Z,	4A, 4F, 4F5, 4G5, 4KF, 4KM, 4L, 4M, 4Q, 4TA, 4V, 4Z, M6A, M6Z,	F4L	5 micron		
6A, 6F, 6F5, 6G5, 6KF, 6KM, 6L, 6M, 6Q, 6TA, 6V, 6Z, M8A, M8Z, M10A, M10Z,	6A, 6F, 6F5, 6G5, 6KF, 6KM, 6L, 6M, 6Q, 6TA, 6V, 6Z, M8A, M8Z, M10A, M10Z,	F6L	10 micron	BN - Buna-N Rubber	SS - 316 Stainless Steel
8A, 8F, 8F5, 8G5, 8KF, 8KM, 8L, 8M, 8Q, 8TA, 8V, 8Z, M12A, M12Z,	8A, 8F, 8F5, 8G5, 8KF, 8KM, 8L, 8M, 8Q, 8TA, 8V, 8Z, M12A, M12Z,	F8L	50 micron		
12A, 12F, 12F5, 12G5, 12KF, 12KM, 12L, 12M, 12Q, 12TA, 12V, 12Z, M20A, M20Z, M22A, M22Z,	12A, 12F, 12F5, 12G5, 12KF, 12KM, 12L, 12M, 12Q, 12TA, 12V, 12Z, M20A, M20Z, M22A, M22Z,	F12L	100 micron	EPR - Ethylene Propylene Rubber	
16A, 16F, 16F5, 16G5, 16KF, 16KM, 16L, 16M, 16TA, 16Z, M25A, M25Z,	16A, 16F, 16F5, 16G5, 16KF, 16KM, 16L, 16M, 16TA, 16Z, M25A, M25Z,	F16L	250 micron		
			450 micron	NE - Neoprene Rubber	

Options

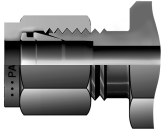
Oxygen Cleaning - Add the suffix **-C3** to the end of the part number to receive filters cleaned and assembled for oxygen service in accordance with Parker specification ES8003. **Example:** 4A-F4L-10-V-SS-C3

Special Cleaning - All face seal ended filters are cleaned in accordance with Parker Specification ES8001. This is an option for all filters by adding the suffix **-C1** to the end of the part number. **Example:** M6A-F4L-50-NE-SS-C1

Laser Weld - Add the suffix **-LW** to the end of the part number to receive tamper-resistant stainless steel filters. **Example:** 2M-F2L-5-SS-LW

Available End Connections

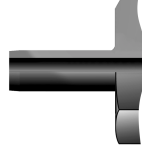
A-Two ferrule A-LOK® compression port



M-ANSI/ASME B1.20.1, External pipe threads



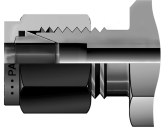
TA-Tube adapter connection



L-SAE J1453, Fitting – O-ring face seal – External thread with O-ring groove designed to seal with an elastomer against a sleeve



Z-Single ferrule CPI™ compression port



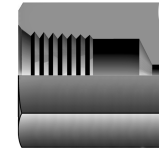
Q-UltraSeal face seal port



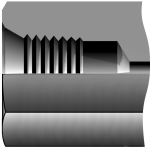
F5-SAE J1926/2, Part 2: Heavy-duty (S Series) stud ends



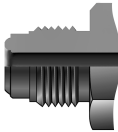
KF-British Standard BS 21 (ISO 7-1), Internal pipe threads



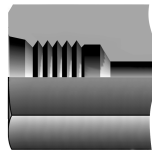
F-ANSI/ASME B1.20.1, Internal pipe threads



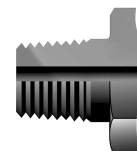
V-VacuSeal face seal port



G5-SAE J1926/1, Part 1: Threaded port with O-ring seal in truncated housing



KM-British Standard BS 21 (ISO 7-1), External pipe threads



Kit Information

To order repair kits for the F Series Inline Filters simply fill in the designators from the chart below.

Size	Micron Rating	Seat Material
F2	1	V - Fluorocarbon Rubber
F4	5	
F6	10	BN - Buna-N Rubber
F8	50	EPR - Ethylene Propylene Rubber
F12	100	
F16	250	
	450	NE - Neoprene Rubber

Examples: KIT-F8-10-V
KIT-F16-100-BN



Filter Kits Contain: Molded Seat, Filter Element, Guide Ring, Spring and Maintenance Instructions

Caution: When interchanging sintered metal elements with wire cloth filter elements, the flow direction is reversed.

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Catalog 4130-F, 20M, 01/01

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