

VF Cartridge Filter Housing

The 3L Filters™ VF Series cartridge filter housing for aviation and petroleum use specific pleated or depth media cartridges to remove particles as small as 0.5 micron.

Applications

Filtration of particulate from hydrocarbon liquids including jet fuels, diesel, gasoline, solvents, coolants, lubricating oils, hydraulic oils and processing fluids.

Standard Features

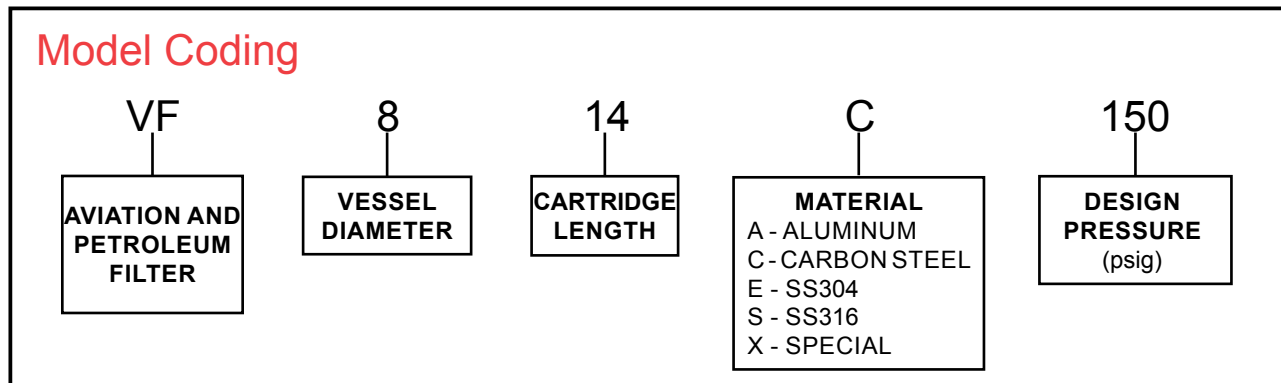
- designed to ASME Section VIII Div.1 & 2
- 150 psig standard design pressure
- -20°F to 150°F (-29°C to 66°C) standard design temperature
- 150 lb ANSI RF flanged inlet/outlet nozzles
- 3000 lb NPT couplings for vent, drain and pressure gauge connections
- carbon steel standard housings
- stainless steel cartridge hardware
- housing dimensions under 12" (305 mm) utilize handles, not headlifts
- 3L Pogo (spring-assisted) headlift on housing diameters 8" to 18" (203 mm to 457 mm); hydraulic Jack headlift on housing diameters over 18" (457 mm)
- quick access to replace cartridges
- standard Swing Bolt closures
- O-ring closure seal
- standard cartridge lengths 14" (356 mm), 29" (737 mm), 44" (1118 mm) and 56" (1424 mm)
- external primer finish for carbon steel housings
- epoxy coated interior

Options & Accessories

- custom design pressures to 3000 psig
- higher design temperatures
- custom flange rating
- custom housing materials
- optional headlifts: handwheel or 3L Cantilever
- optional closures: Thru-Bolt or patented Easy Access Closure
- O-ring closure seal in Buna, Viton® or Teflon®
- custom cartridge configurations and size
- custom filter media
- additional nozzles as needed
- valves
- safety relief valves
- pressure gauges
- duplex or multiplex arrangement
- working platform
- rubber, PVC, PVDF and other internal linings



Model Coding



VF

Aviation and Petroleum Cartridge Filters

Fig.	Model No.	Filter Elements		A Vessel OD in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	G in (mm)	H in (mm)	L in (mm)	Inlet/ Outlet (RF)	Vent Safety Drains (NPT)	Press. Gauge (NPT)	GPM (US)	Weight lbs (kg)
		Qty	Lg in (mm)													
1	VF814C150	1	14 (356)	8.625 (219)	3.0 (76)	27.750 (705)	29.500 (749)	42.250 (1073)	13.00 (330)	10.375 (264)	2 (51)	2"	3/4"	1/2"	50	225 (102)
1	VF829C150	1	29 (737)	8.625 (219)	3.0 (76)	41.750 (1060)	43.500 (1110)	70.750 (1778)	13.00 (330)	10.375 (264)	2 (51)	2"	3/4"	1/2"	100	265 (120)
1	VF844C150	1	44 (1118)	8.625 (219)	3.0 (76)	55.750 (1416)	57.500 (1461)	99.250 (2521)	13.00 (330)	10.375 (264)	2 (51)	2"	3/4"	1/2"	150	305 (138)
2	VF1614C150	4	14 (356)	16.000 (406)	15.0 (381)	37.375 (949)	40.375 (1026)	51.875 (1318)	24.25 (616)	9.000 (229)	10 (254)	4"	3/4"	1/2"	200	500 (227)
2	VF1629C150	4	29 (737)	16.000 (406)	15.0 (381)	52.125 (1324)	55.625 (1413)	81.125 (2061)	24.25 (616)	9.000 (229)	10 (254)	4"	3/4"	1/2"	400	560 (254)
2	VF2029C150	6	29 (737)	20.000 (508)	19.5 (497)	56.500 (1435)	62.000 (1575)	85.500 (2172)	28.00 (711)	13.000 (330)	10 (254)	6"	3/4"	1/2"	600	1000 (454)
2	VF2044C150	6	44 (1118)	20.000 (508)	19.5 (497)	71.000 (1803)	76.375 (1940)	114.500 (2908)	28.00 (711)	13.000 (330)	10 (254)	6"	3/4"	1/2"	900	1100 (499)
3	VF2829C150	12	29 (737)	28.000 (711)	24.0 (610)	48.500 (1232)	64.750 (1645)	77.500 (1969)	36.00 (914)	18.000 (457)	12 (305)	8"	3/4"	1/2"	1200	1500 (680)
3	VF2844C150	12	44 (1118)	28.000 (711)	24.0 (610)	63.500 (1613)	79.750 (2026)	107.000 (2718)	36.00 (914)	18.000 (457)	12 (305)	8"	3/4"	1/2"	1800	1600 (726)
3	VF3644C150	18	44 (1118)	36.000 (914)	26.0 (660)	63.375 (1610)	77.000 (1956)	106.875 (2715)	48.00 (1219)	23.000 (584)	12 (305)	10"	3/4"	1/2"	2700	2250 (1021)
3	VF4244C150	27	44 (1118)	42.000 (1067)	28.0 (711)	66.000 (1676)	86.625 (2200)	109.500 (2781)	54.00 (1372)	28.000 (711)	12 (305)	12"	3/4"	1/2"	4050	3800 (1724)

Note:

Dimension 'E' is the minimum clearance required for cartridge removal.
 Flow rates are based on water. More viscous liquids will have lower flow rates.
 Drawings for reference only. Certified drawings will be supplied after receipt of order.

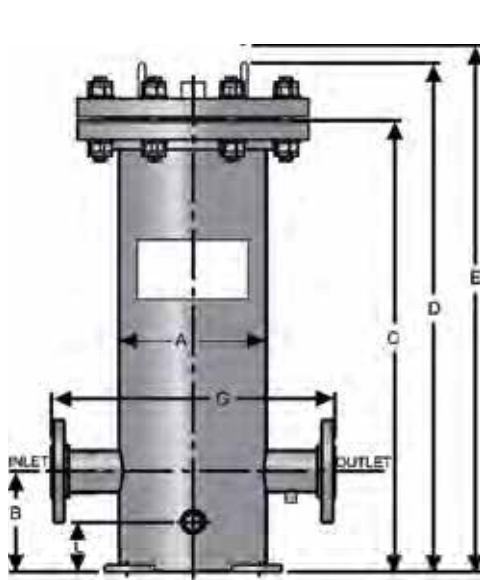


Figure 1

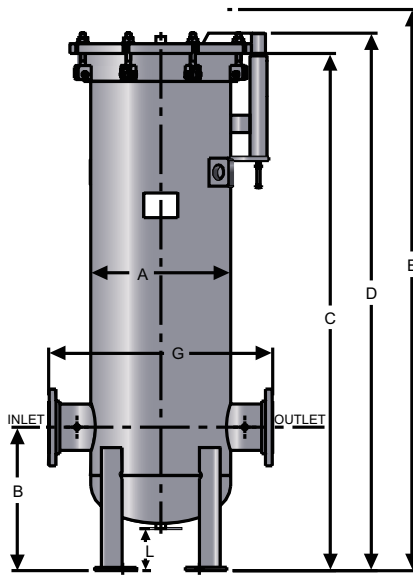


Figure 2

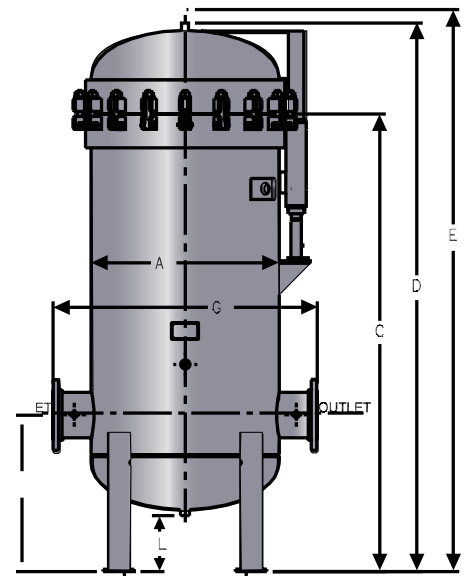


Figure 3