

FW General Industrial Cartridge Filter Housing

The 3L Filters™ FW Series cartridge filter housing removes particulates from liquid streams, often as a pre-filter ahead of finer particle separation equipment. The standard design is based upon the replaceable spun yarn cartridge, but can be adapted to many filter cartridge designs, configurations and sizes.

Applications

Used in many processing industries such as food and beverage, pharmaceutical, semi-conductor, chemical plants, water treatment and remediation.

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
- 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
- replaceable spun yarn cartridges
- standard cartridge lengths 10" (254 mm), 20" (508 mm), 30" (762 mm) and 40" (1016 mm)
- external primer finish for carbon steel housings

Options & Accessories

- stainless steel standard housings
- 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®, Teflon®, Silicone or EPDM
- custom cartridge configurations and size
- custom filter media
- internal epoxy coating on carbon steel models
- electropolishing of stainless steel housings
- passivation of stainless steel housings
- paint or coating to customer specification
- additional nozzles as needed
- valves
- safety relief valves
- pressure gauges
- duplex or multiplex arrangement
- rubber, PVC, PVDF and other internal linings
- steam jackets
- working platform



FW

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Fig.	Model No.	Filter Elements		A Vessel OD in (mm)	B1 in (mm)	B2 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	FWWFAV630E150	6	30 (762)	8.625 (219)	45 (1143)	14.5 (368)	50 (1270)	53 (1346)	80 (2032)	16.625 (422)	9.00 (229)	8 (203)	2"	3/4"	1/2"	90	210 (95)
1	FWWFAV1030E150	10	30 (762)	10.750 (273)	48 (1219)	18.0 (457)	54 (1372)	57 (1448)	84 (2134)	22.750 (578)	10.75 (273)	8 (203)	2"	3/4"	1/2"	150	315 (143)
2	FWWFAV1230E150	12	30 (762)	12.750 (324)	48 (1219)	18.0 (457)	54 (1372)	60 (1524)	84 (2134)	24.750 (629)	6.50 (165)	10 (254)	3"	3/4"	1/2"	180	360 (163)
2	FWWFAV1830E150	18	30 (762)	14.000 (356)	50 (1270)	20.0 (508)	58 (1473)	64 (1626)	88 (2235)	26.000 (660)	7.50 (191)	10 (254)	3"	3/4"	1/2"	270	440 (200)
2	FWWFAV2230E150	22	30 (762)	16.000 (406)	50 (1270)	20.0 (508)	58 (1473)	64 (1626)	88 (2235)	28.000 (711)	9.00 (229)	10 (254)	4"	3/4"	1/2"	330	480 (218)
2	FWWFAV2830E150	28	30 (762)	18.000 (457)	50 (1270)	22.5 (572)	60 (1524)	66 (1676)	90 (2286)	30.000 (762)	10.00 (254)	10 (254)	4"	3/4"	1/2"	420	575 (261)
3	FWWFAV3630E150	36	30 (762)	20.000 (508)	50 (1270)	22.5 (572)	60 (1524)	72 (1829)	90 (2286)	32.000 (813)	11.00 (279)	12 (305)	4"	3/4"	1/2"	540	625 (283)
3	FWWFAV5530E150	55	30 (762)	24.000 (610)	50 (1270)	22.5 (572)	62 (1575)	75 (1905)	92 (2337)	36.000 (914)	15.00 (381)	12 (305)	6"	3/4"	1/2"	825	725 (329)

Note:

Dimension 'E' is the minimum clearance required to remove 30" long cartridges. This dimension will vary for other cartridge lengths. Flow rates are based on water. More viscous liquids will have lower flow rates. Standard vessels based on 150 psi at 66°C (150°F). Drawings for reference only. Certified drawings will be supplied after receipt of order. Standard off the shelf products available, contact factory for more information.

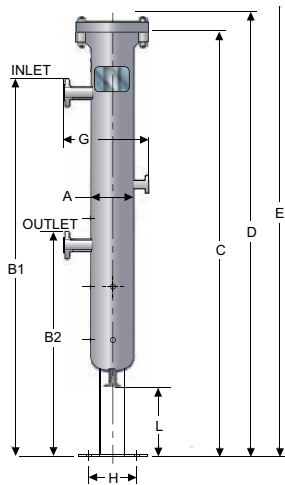


Figure 1

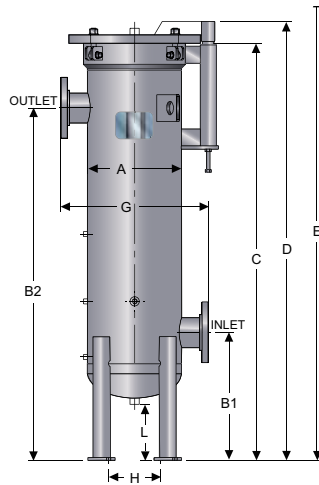


Figure 2

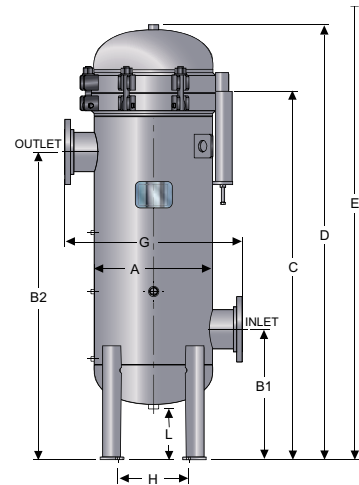


Figure 3

Model Coding

FW	W	F	A	V	10	20	E	150
GENERAL INDUSTRIAL FILTER	ELEMENT SERIES F - DOE 7 - CODE 7 0 - 222 "O" RING 4 - 425 "O" RING S - SOE TM - THREADED MALE NPT TF - THREADED FEMALE NPT		ELEMENT DIAMETER A - 2 1/2" OD B - 2 5/8" OD C - 2 3/4" OD D - 2 7/8" OD E - 3" OD F - 3 1/8" OD G - 1 1/2" OD H - 4" OD X - SPECIAL		VESSEL CONFIGURATION H - HORIZONTAL V - VERTICAL D - DUPLEX		MATERIAL A - ALUMINUM C - CARBON STEEL E - SS304 H - HASTALLOY M - MONEL® S - SS316 X - SPECIAL	
ELEMENT TYPE M - METALLIC W - WOUND				NUMBER OF CARTRIDGES				DESIGN PRESSURE (psig)
				CARTRIDGE LENGTH				

FW

General Industrial Cartridge Filter RFQ Form

Client Information:

Company Name: _____
Address: _____
City, State (Prov): _____
Country, Zip (Postal Code): _____
Contact Name: _____
Contact Title: _____
Phone / Fax: _____
E-mail: _____
Project Name: _____
Project Location: _____
Item: _____
Tag No: _____
Date: _____

Proposal Type Required:

Budgetary Bid Buy
Other: _____
Required Date for Proposal: _____
Anticipated Shipping Date for Project: _____

Required Data:

Type of Liquid: _____
Max./ Design Flow Rate: _____
 gpm ft³/hr m³/hr Other
Operating Pressure: _____
 psig barg Other
Operating Temperature: _____ °F/°C
Desired Particle Retention: _____ %
Particle Size _____ Microns Nominal Absolute
Density of Liquid at Op. Condition: _____
 lb/ft³ Other Liquid sp. gr.
Viscosity of Liquid at Op. Condition: _____
 cp SSU Other

Additional Data:

Solid Contaminants: _____
 % wt % vol Other

Type of Solid Contaminant:

Allowable Clean Pressure Drop: _____
 psi bar Other

Max. Allowable Pressure Drop: _____
 psi bar Other

Material of Construction: _____

Vessel: _____ Internals: _____ Support: _____

Design & Code:

ASME
 Other

CRN: _____

Yes
 No
 Province _____

Design Pressure:

_____ psig barg kg/cm² g Other

Design Temperature: Min. _____ Max. _____ °F/°C

Corrosion Allowance: _____ in/mm

Radiography:

None
 Spot
 Full
 100% All Butt Wells

Filter Element Type:

Disposable
 Cleanable

Filter Media:

Cotton
 Polypropylene
 Gas Fiber
 Other

Gasket:

Buna-N
 Viton® A
 EPDM
 Other

Vessel Finish:

Clean & Dry
 Other

Inlet Nozzle Size: _____

in mm

Specify: _____

Outlet Nozzle Size: _____

in mm

Notes: _____

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