



HFV SERIES

Vertical High Flow Cartridge Filter Housings

- Vertical Orientation
- High Flow Filter Housing
- ASME Design / Industrial Design

Multi-purpose industrial ASME code ("U" & "UM") and non-code design housings.



SUITABLE USES



COMPATIBLE MEDIA Accepts multiple 40", and 60" High Flow series filters.

DESIGN PRESSURE 150psig (10.3bar) @ 400 F (204.4 C) design pressure.

AVAILABLE MATERIALS Vessels available in carbon or stainless steel 304 or 316. Also available in LDX2101, C276, AL6XN, RA2205 and Monel 400.

ADDITIONAL FEATURES Swing bolt closure allows for quick element change out. Equivalent to Cuno High Flow systems.

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HOUSING SPECIFICATIONS

*Indicates standard configuration

Inlet/Outlet	3" Flange -24" Flange
Dirty Drain	2" NPT
Clean Drain	2" NPT
Vent	½" NPT
Gauges	½" NPT
Certifications	U, UM, CE, NB, CRN

MATERIAL OF CONSTRUCTION

MATERIAL OF CONSTRUCTION	MAX. OPERATING PRESSURE	MAX. DESIGN TEMP
Carbon Steel	150 psi (10.3bar)	400°F (204.4 °C)
304 Stainless Steel	150 psi (10.3bar)	400°F (204.4 °C)
316 Stainless Steel	150 psi (10.3bar)	400°F (204.4 °C)

PRESSURE & TEMP. DESIGNATION

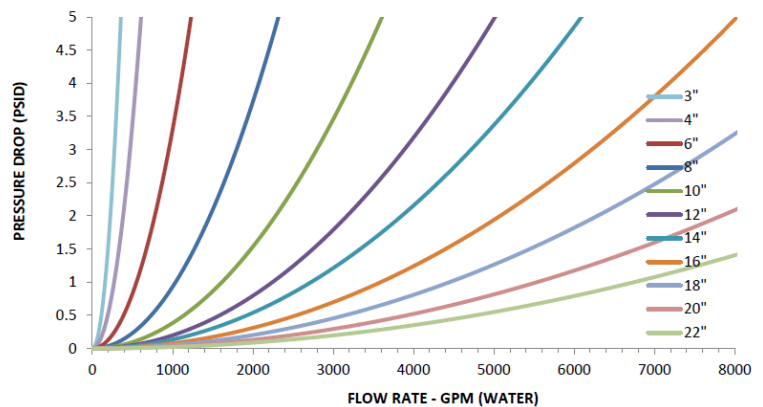
DESIGNATION	MOC	PSI	TEMP (°F)	ANSI RATING
PT1	CS	285	100	ANSI 150
	SS304/SS316	270		
PT2	CS	200	400	ANSI 150
	SS304/SS316	190		
PT3	CS	740	100	ANSI 300
	SS304/SS316	720		
PT4	CS	635	400	ANSI 300
	SS304/SS316	495		
PT5	CS	1480	100	ANSI 600
	SS304/SS316	1440		

Table above based on ANSI flange ratings. Fil-Trek will design based on application pressure and temperature requirements. Max temperature may be limited to gasket material.

MODEL FLOW RATES

MODEL	# OF FILTERS	FLOW RATE GPM (40")	MAX INLET / OUTLET(IN)
HFV16	3	525	6"
HFV18	4	700	6"
HFV20	6	1050	8"
HFV24	7	1225	10"
HFV26	8	1400	12"
HFV28	11	1925	12"
HFV30	12	2100	12"
HFV32	14	2450	14"
HFV34	16	2800	14"
HFV36	19	3325	16"
HFV38	20	3500	16"
HFV40	23	4025	16"
HFV42	25	4375	18"
HFV44	29	5075	18"
HFV46	31	5425	20"
HFV48	35	6125	22"
HFV50	37	6475	24"

FLOW CHART



Fischer-Robertson, Inc.
 3890 Symmes Road, Hamilton, OH 45015
 ph 513-860-3445 fx 513-860-4744
 www.fischer-robertson.com

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MODEL DIMENSIONAL DETAILS

MODEL	SHIPPING WEIGHT (LBS)	A	B	C	D	E
HFV08	230	8 ⁵ / ₈ "	22"	16"	18"	65"
HFV14	400	14 ¹ / ₂ "	28"	18"	26"	80"
HFV16	600	16 ¹ / ₂ "	30"	18"	28"	82"
HFV18	800	18 ¹ / ₂ "	32"	20"	30"	84"
HFV20	1000	20 ¹ / ₂ "	34"	20"	34"	86"
HFV24	1400	22 ¹ / ₂ "	36"	22"	36"	86"
HFV26	1600	26 ¹ / ₂ "	40"	26"	40"	92"
HFV28	1800	28 ¹ / ₂ "	42"	28"	44"	96"
HFV30	2000	30 ¹ / ₂ "	42"	28"	46"	98"
HFV32	2400	32 ¹ / ₂ "	44"	28"	48"	100"
HFV34	2800	34 ³ / ₄ "	46"	30"	52"	106"
HFV36	3000	36 ³ / ₄ "	46"	30"	54"	108"
HFV38	3400	38 ³ / ₄ "	46"	32"	58"	110"
HFV40	3800	40 ³ / ₄ "	48"	32"	60"	112"
HFV42	4200	42 ³ / ₄ "	48"	36"	62"	114"
HFV44	4600	44 ³ / ₄ "	50"	36"	66"	118"
HFV46	5200	47"	50"	36"	68"	120"
HFV48	5600	49"	52"	36"	70"	120"
HFV50	6000	51"	52"	40"	74"	124"

Dimensions above are for 40" element, style A and are approximate. Contact factory for weights and dimensions for all other model configurations.

COMPATIBLE FILTERS

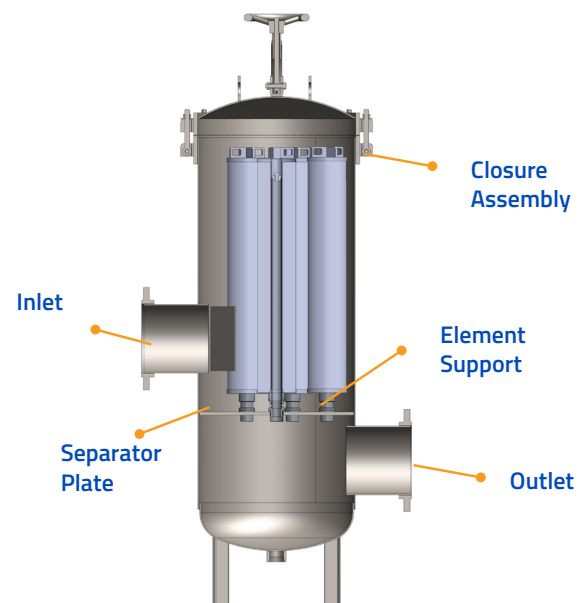
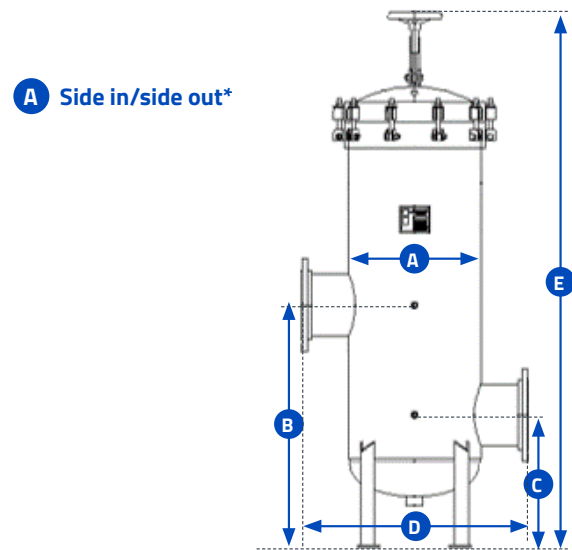
HF SERIES FILTERS

Absolute rated, pleated media filters that suit a wide range of applications. Available in micron ratings between 1 and 70.



CHART LEGEND

- A** OUTSIDE DIAMETER
- B** FLOOR TO INLET
- C** FLOOR TO OUTLET
- D** FACE TO FACE
- E** OVERALL HEIGHT



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HOUSING OPTIONS

*Indicates standard configuration

Configuration (-) **A – Side in/side out***

Options
(at bottom)

B – In-Line
C – Side in/Bottom out
D – Side in/Side out, Same Side

Finish (-) - External paint "National Blue" (std for CS)

Options
(-) – Bead Blast (std for SS304 and SS316)

EP1 – Electro polish Inside/Outside
EP2 – Inside only
EP3 – Outside only
PP – Passivation

O-Ring (-) **BN – Buna-N*** SI – Silicone
Options ED – EPDM TF - Teflon
VI – Viton

Closure (-) **Mechanical Davit (std for UFV12 and larger)***

Assembly (-) **Hydraulic Davit (std for UFV40 and larger)***

Options
K3 – Hydraulic Jack Davit Side
K4 – Hydraulic Jack Davit Top

*See page 5-6 for other closure options

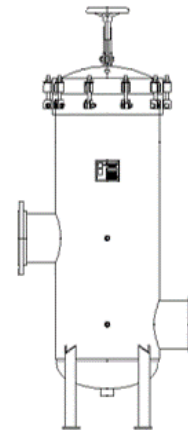
Accessories

Direct Reading Gauge	Vent Valves
DP Gauge	Drain Valves
Safety Relief Valves	Air Eliminator

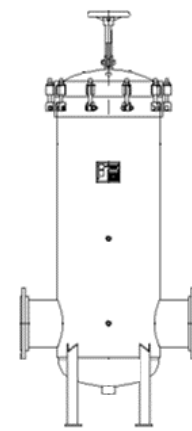
Other Options

Stainless Steel bolting	Skid Mounting
Passivation	Duplexing
Electropolished, Inside/Out	

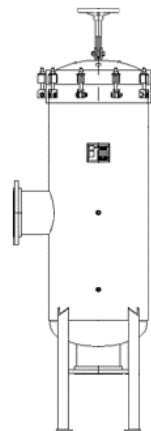
A Side in/side out*



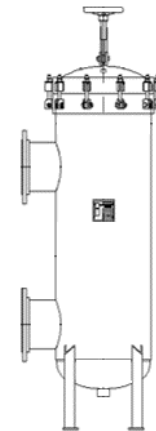
B In-Line



C Side in/Bottom out



D Side in/Side out, Same Side



PRODUCT NOMENCLATURE

S4	HFV	16	003	40	4F	PT1	-
MATERIAL	MODEL	HOUSING DIAMETER	# OF FILTERS	LENGTH	CONNECTION TYPE	PRESSURE CLASS	OPTIONS
(-) - Carbon S4 - SS304 S6 - SS316	HFV – ASME Code EHFV – Non ASME	See Table	See Table	40 60	See Table	See Pressure & Temperature Designation chart	See Housing Options



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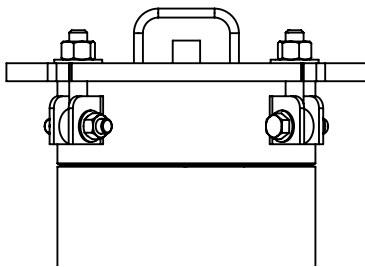
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CLOSURE AND QUICK OPENING COVER OPTIONS

Fil-Trek designs and fabricates a variety of closure and quick opening cover options to accommodate strict applications and requirements. All materials of construction are in accordance with ASME specifications and manufacturing complies with the applicable rules of the ASME Code for Pressure Piping and with the ASME Boiler and Pressure Vessel Code.

HINGED COVER

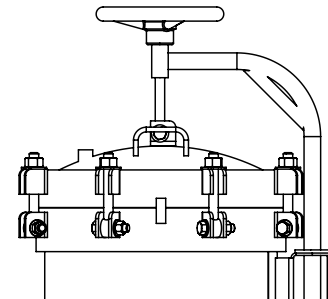
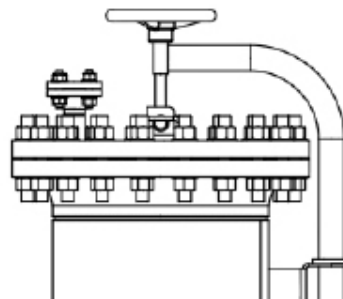


The most economical quick opening closure offered for fabricated strainers with nominal pressure applications. The swing bolt hinged cover uses an O-ring to seal. Easy to open by quickly and easily by loosening the swing bolts until they clear the holding lugs and swinging the head open on its hinge.

MECHANICAL DAVIT ASSEMBLY

Our mechanical davit assembly makes it easy for the operator to open and swing the cover away to facilitate basket or screen removal for cleaning. It is used primarily for larger strainers where cover removal is difficult and heavy. This is the most inexpensive alternative to quick release covers, especially when operating conditions require a bolted cover. Available for swing bolt and ANSI closures.

**Hydraulic davit head lift also available.



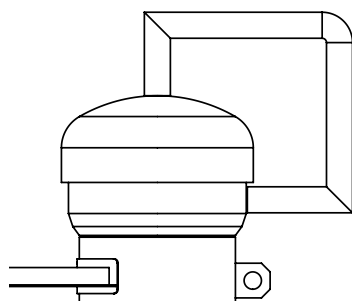
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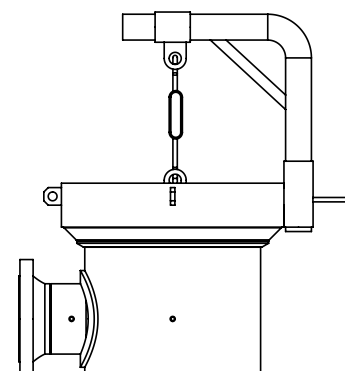
THREADED HINGED COVER



The quick open threaded hinged closure uses a cap fastened to a hub and is welded to the strainer body. The female cap is threaded onto the male hub using O-rings to seal. The O-ring prevents corrosion of the closure threads and provides a long, trouble free service. The threaded cover can be used for both nominal and high pressure applications. Available in both vertical and horizontal configurations.

YOKE CLOSURE

The Yoke hinged cover is a true ANSI rated closure and uses an O-ring seal. Used primarily on high pressure applications, it is available for 150#, 300#, 600#, 900# and 1500# ANSI ratings with a wide range of operating aids, ranging from a single lever chain and sprocket drive to completely automated.



CLOSURE COMPARISON

	COVER TYPE			
	HINGED COVER	MECHANICAL DAVIT	THREADED COVER	YOKE CLOSURE
COST	Low	Moderate	High	High
QUICK OPENING ABILITY	Good	Fair	Best	Best
LOW PRESSURE APPLICATIONS	X	X	-	-
NOMINAL PRESSURE APPLICATIONS	X	X	X	X
HIGH PRESSURE APPLICATIONS	-	X	X	X