FIL-TREK CORPORATION
55 Stafford Court
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P (519) 623-7448
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HF SERIES

High Flow Cartridge Filter Housings

- Vertical Orientation
- Flow rates up to 6,475 GPM
- ASME Design / Industrial Design

Ideal for a broad range of applications and industries, the HF Series housings provide maximum flow rates in a smaller footprint.

SUITABLE USES

Air & Gas · Desalination · Coolant · Water · Electronics · Coatings
Oil & Gas · Chemical · Pulp & Paper · Power · Marine · Equipment

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.

Custom sizes, configurations, materials of construction and other options may be available. Please contact Fil-Trek

For drawings, flow charts, custom applications and filter cartridge information please visit Fil-Trek.com

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HOUSING SPECIFICATIONS

*Indicates standard configuration

Inlet/Outlet	**3"Flange -24"Flange**
Dirty Drain	**2"NPT**
Clean Drain	**2"NPT**
Vent	**½v"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

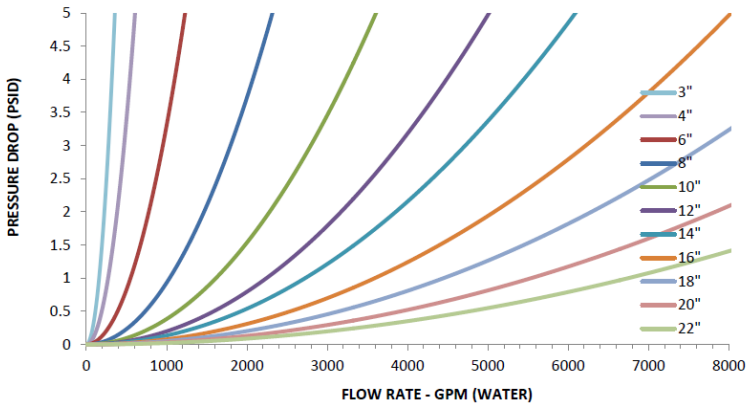
DESIGNATION	MOC	PSI	TEMP (°F)	ANSI RATING
PT1	CS	285	100	ANSI 150
	SS304/SS316	270		
PT2	CS	200	400	ANSI 150
	SS304/SS316	190		
PT3	CS	740	100	ANSI 300
	SS304/SS316	720		
PT4	CS	635	400	ANSI 300
	SS304/SS316	495		
PT5	CS	1480	100	ANSI 600
	SS304/SS316	1440		

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)
HF16	3	525	6"
HF18	4	700	6"
HF20	6	1050	8"
HF24	7	1225	10"
HF26	8	1400	12"
HF28	11	1925	12"
HF30	12	2100	12"
HF32	14	2450	14"
HF34	16	2800	14"
HF36	19	3325	16"
HF38	20	3500	16"
HF40	23	4025	16"
HF42	25	4375	18"
HF44	29	5075	18"
HF46	31	5425	20"
HF48	35	6125	22"
HF50	37	6475	24"

FLOW CHART



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MODEL DIMENSIONAL DETAILS

MODEL	SHIPPING WEIGHT (LBS)	A	B	C	D	E
HF08	230	8⅝"	22"	16"	18"	65"
HF14	400	14½"	28"	18"	26"	80"
HF16	600	16½"	30"	18"	28"	82"
HF18	800	18½"	32"	20"	30"	84"
HF20	1000	20½"	34"	20"	34"	86"
HF24	1400	22½"	36"	22"	36"	86"
HF26	1600	26½"	40"	26"	40"	92"
HF28	1800	28½"	42"	28"	44"	96"
HF30	2000	30½"	42"	28"	46"	98"
HF32	2400	32½"	44"	28"	48"	100"
HF34	2800	34¾"	46"	30"	52"	106"
HF36	3000	36¾"	46"	30"	54"	108"
HF38	3400	38¾"	46"	32"	58"	110"
HF40	3800	40¾"	48"	32"	60"	112"
HF42	4200	42¾"	48"	36"	62"	114"
HF44	4600	44¾"	50"	36"	66"	118"
HF46	5200	47"	50"	36"	68"	120"
HF48	5600	49"	52"	36"	70"	120"
HF50	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.

CHART LEGEND

A OUTSIDE DIAMETER

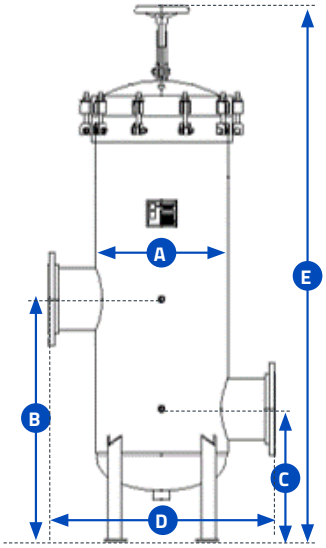
B FLOOR TO INLET

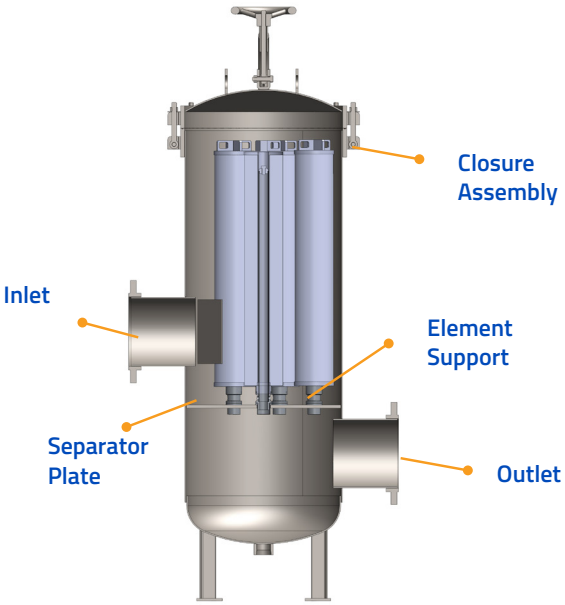
C FLOOR TO OUTLET

D FACE TO FACE

E OVERALL HEIGHT

A Side in/side out*





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.

Click to view HF Series

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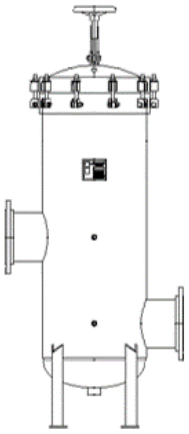
HOUSING OPTIONS

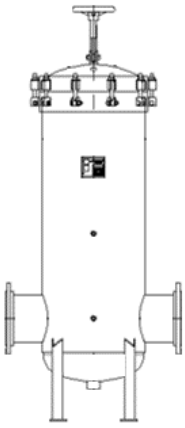
*Indicates standard configuration

Configuration Options *(at bottom)*	**(-) A – Side in/side out***	
	B – In-Line	
	C – Side in/Bottom out	
	D – Side in/Side out, Same Side	
Finish Options	**(-) - External paint "National Blue" (std for CS)**	
	(-) – Bead Blast (std for SS304 and SS316)	
	EP1 – Electro polish Inside/Outside	
	EP2 – Inside only	
	EP3 – Outside only	
	PP – Passivation	
O-Ring Options	**(-) BN – Buna-N***	SI – Silicone
	ED – EPDM	TF - Teflon
	VI – Viton	
Closure Assembly Options	**(-) Mechanical Davit (std for UFV12 and larger)***	
	(-) Hydraulic Davit (std for UFV40 and larger)*	
	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	

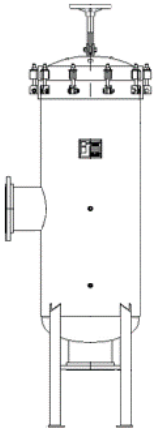
A Side in/side out*



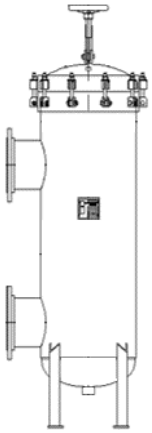
B In-Line



C Side in/Bottom out



D Side in/Side out, Same Side



PRODUCT NOMENCLATURE

S4	HF	16	003	40	4F	PT1	-
MATERIAL	**MODEL**	**HOUSING DIAMETER**	**# OF FILTERS**	**LENGTH**	**CONNECTION TYPE**	**PRESSURE CLASS**	**OPTIONS**
(-) - Carbon **S4** - SS304 **S6** - SS316	**HF – High Flow Series**	See Table	See Table	40 60	See Table	See Pressure & Temperature Designation chart	See Housing Options

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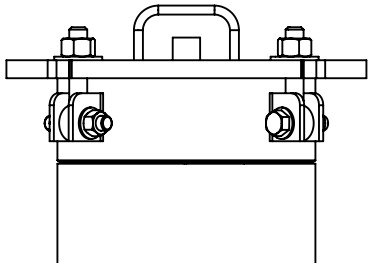
CLOSURE AND QUICK OPENING COVER OPTIONS

Fil-Trek designs and fabricates a variety of closure and quick opening cover options to accomodate 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

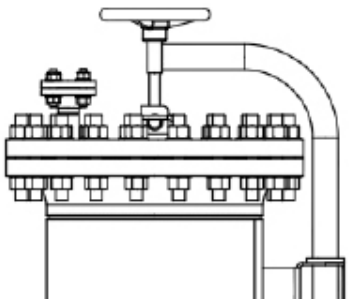


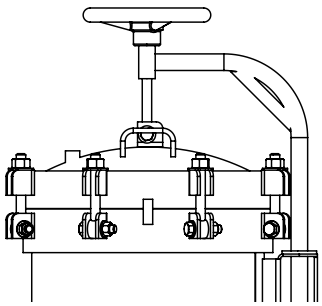
The most economical quick opening closure offered for fabricated strainers with nominal pressure applications. The swing bolt hinged cover uses an O-ring to seal. Easy to open by quickly and easily by loosening the swing bolts until they clear the holding lugs and swinging the head open on its hinge.

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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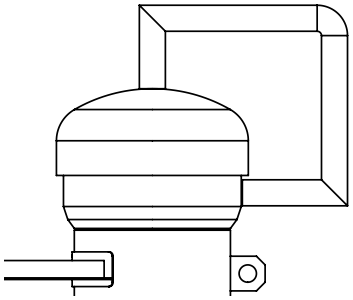
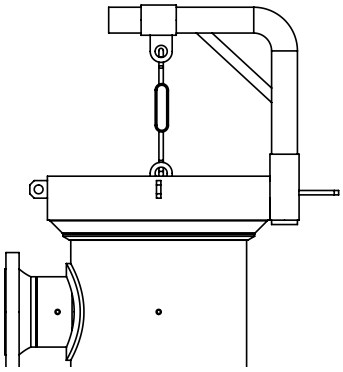
THREADED HINGED COVER



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

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