FIL-TREK CORPORATION
55 Stafford Court
Cambridge, ON N1T 1B3
P (519) 623-7448
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700V SERIES

Cartridge Filter Housings

- Vertical Orientation
- ASME Design / Industrial Design

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

SUITABLE USES

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

COMPATIBLE MEDIA	Accepts multiple 40", and 60" 700 Series filters.
DESIGN PRESSURE	150psig (10.3bar) @ 400 F (204.4 C)
AVAILABLE MATERIALS	Vessels available in carbon or stainless steel 304 or 316. Also available in C276, AL6XN, RA2205 and Monel 400.
ADDITIONAL FEATURES	Swing bolt closure allows for quick element change out. Equivalent to 3M housing 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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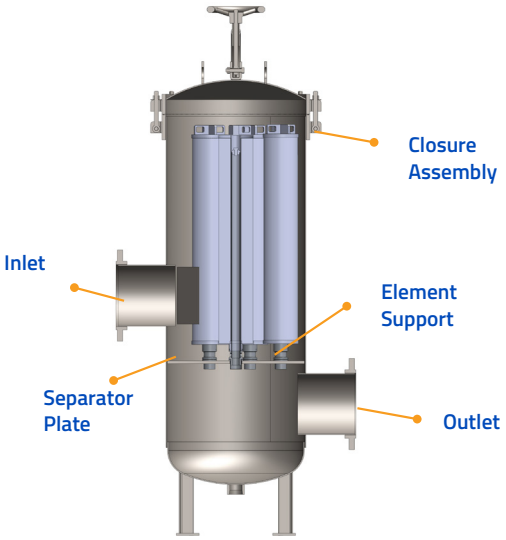
HOUSING SPECIFICATIONS

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



COMPATIBLE FILTERS

700 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 700 Series

MODEL FLOW RATES

MODEL	# OF FILTERS	FLOW RATE GPM	MAX INLET / OUTLET(IN)
700V08	1	80	4
700V14	2	160	4
700V16	3	240	6
700V18	4	320	6
700V20	6	480	8
700V24	7	560	10
700V26	8	640	12
700V28	11	880	12
700V30	12	960	12
700V32	14	1,120	14
700V34	16	1,280	14
700V36	19	1,520	16
700V38	20	1,600	16
700V40	23	1,840	16
700V42	25	2,000	18
700V44	29	2,320	18
700V46	31	2,480	20
700V48	35	2,800	22
700V50	37	2,960	24

For maximum efficiency/product life, the flow rates are based on water at 80gpm/40". Actual Flow rate is dependent on fluid viscosity, cartridge micron rating, contaminant and type of media.

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)

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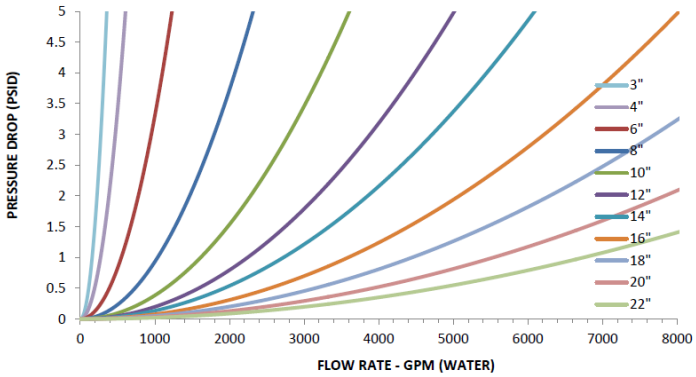
HOUSING OPTIONS

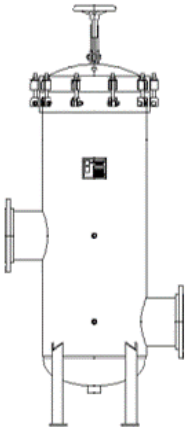
*Indicates standard configuration

Configuration Options	**(-) 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" (Standard for carbon steel housings)**
	(-) – Bead Blast (standard for stainless steel 304 and 316)
	EP1 – Electro polish Inside/Outside
	EP2 – Inside only
	EP3 – Outside only
	PP – Passivation
O-Ring Options	**(-) – Buna-N***
	ED – EPDM
	VI – Viton
	SI – Silicone
	TF - Teflon
Closure Assembly Options	**(-) Mechanical Davit (std for HFH12 and larger)***
	(-) Hydraulic Davit (std for HFH40 and larger)*
	K3 – Hydraulic Jack Davit Side
	K4 – Hydraulic Jack Davit Top
	**See page 5-6 for other closure options*
Accessories	Direct Reading Gauge
	DP Gauge
	Safety Relief Valves
	Vent Valves
	Drain Valves
	Air Eliminator
Other Options	Stainless Steel bolting
	Passivation
	Electropolished, Inside/Out
	Skid Mounting
	Duplexing

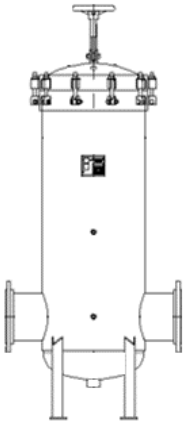
FLOW CHART



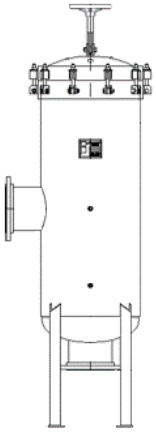
A Side in/side out*



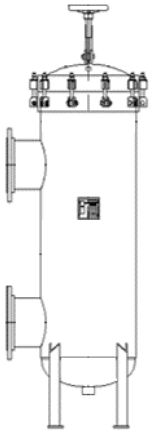
B In-Line



C Side in/Bottom out



D Side in/Side out, Same Side



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MODEL DIMENSIONAL DETAILS

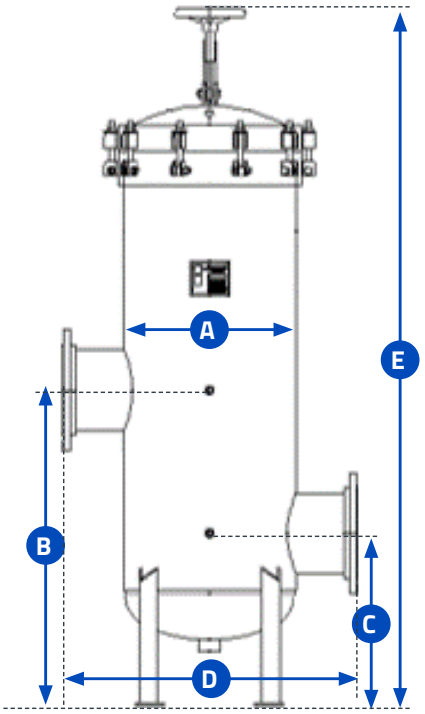
MODEL	SHIPPING WEIGHT (LBS)	A	B	C	D	E
700V08	230	8⅝"	22"	16"	18"	65"
700V14	400	14½"	28"	18"	26"	80"
700V16	600	16½"	30"	18"	28"	82"
700V18	800	18½"	32"	20"	30"	84"
700V20	1000	20½"	34"	20"	34"	86"
700V24	1400	22½"	36"	22"	36"	86"
700V26	1600	26½"	40"	26"	40"	92"
700V28	1800	28½"	42"	28"	44"	96"
700V30	2000	30½"	42"	28"	46"	98"
700V32	2400	32½"	44"	28"	48"	100"
700V34	2800	34¾"	46"	30"	52"	106"
700V36	3000	36¾"	46"	30"	54"	108"
700V38	3400	38¾"	46"	32"	58"	110"
700V40	3800	40¾"	48"	32"	60"	112"
700V42	4200	42¾"	48"	36"	62"	114"
700V44	4600	44¾"	50"	36"	66"	118"
700V46	5200	47"	50"	36"	68"	120"
700V48	5600	49"	52"	36"	70"	120"
700V50	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*



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PRESSURE & TEMPERATURE 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.

PRODUCT NOMENCLATURE

S6	700V	16	003	40	6F	PT1	-
MATERIAL	MODEL	HOUSING DIAMTER	# OF CARTRIDGES	LENGTH	CONNECTION TYPE	DESIGN PRESSURE	OPTIONS
(-) – Carbon **S4** – SS304 **S6** – SS316	**700V** – ASME Code **E700V** – Non ASME	See Table	See Table	40 60	See Table	See Pressure & Temperature Designation chart	See "Housing Options"

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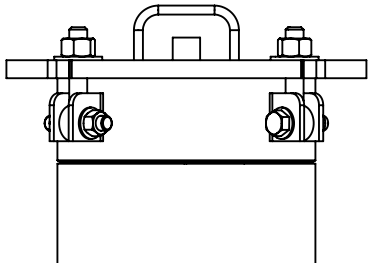
CLOSURE AND QUICK OPENING COVER OPTIONS

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

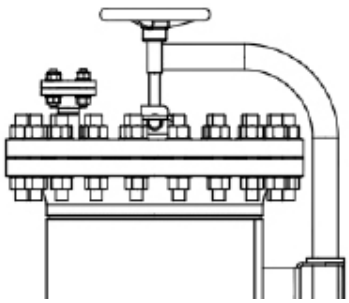


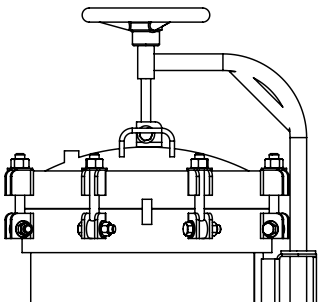
The most economical quick opening closure offered for fabricated strainers with nominal pressure applications. The swing bolt hinged cover uses an O-ring to seal. Easy to open by quickly and easily by loosening the swing bolts until they clear the holding lugs and swinging the head open on its hinge.

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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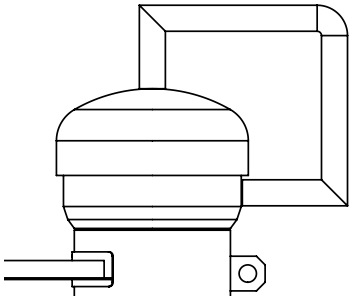
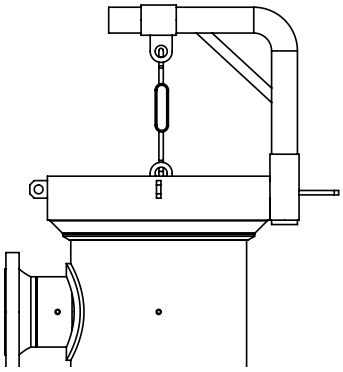
THREADED HINGED COVER



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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