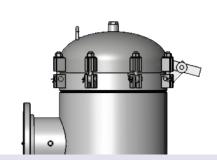
### FILTRATION | SEPARATION | PURIFICATION



### **Product Specifications**

Shell/O-Ring:

Buna-N, EPDM, Silicone, Viton

### **Optional:**

300 psig (20.6 bar) Flanged Head designs available - Consult Factory *Not for use with compressed gases* 

### **Operating Parameters**

### Maximum operating pressure:

Carbon Steel

150 psig (10.3 bar) @ 500°F (260°C) in liquid service

Stainless Steel

150 psig (10.3 bar) @ 300°F(149°C) in liquid service Not for use with compressed gases

### **Available Options**

- Vertical Housing Inlet/outlet Side in/side out, Side in/bottom out
- Horizontal Housing Inlet/Outlet Side in/bottom out
- Tilted Horizontal Side in/side out, Side in/bottom out
- Gauge ports
- · Hinged cover
- Davit arm

# **High Flow Series Filter Housings**

## Filter Housings for **High Flow Applications**

Graver High Flow Series filter housings are designed to accept Graver and competitive High Flow Series large geometry filter elements. Available in both vertical and horizontal orientations, the High Flow housings can accept from 1 to 7 filter elements. Also available is a single round tipped horizontal design that allows easier removal without the need for a platform and readily drains from back of vessel to eliminate fluid spills.

### **FEATURES & BENEFITS**

- · Industrial grade housings available in 304, 316 and carbon steel wetted parts
- · ASME U code available
- Designs for 1, 3, 4 or 7 filters per housing for flows up to 3500 GPM\*
- · 150 psig designs
- · Accepts 20", 40" and 60" High Flow cartridges
- · Vertical and horizontal designs offered
- · Hold down plate prevents elements from unseating due to back pressure
- · Filter removal tool available to facilitate element changeout
- Swing bolts on 150 psig design
- Equipped with 1" vent and 2" drain (1" drain on tipped horizontal style).

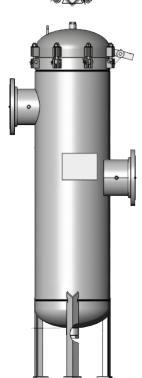
### TYPICAL APPLICATIONS

- Pre RO
- · Food and Beverage
- Water
- Pulp and Paper
- Desalination
- · Petrochemicals
- · Oil and Gas

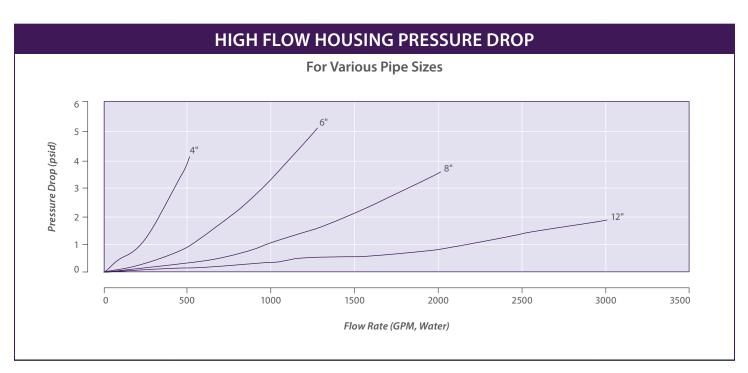
### FLOW CAPACITY

Flow capacity based on light dirt load and low viscosity. Actual flow rate may be lower with vessel sizing based on fluid dirt loads, nature of contaminant, viscosity, micron rating and temperature.



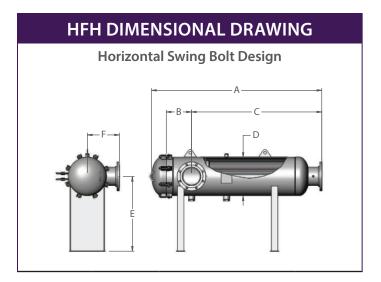


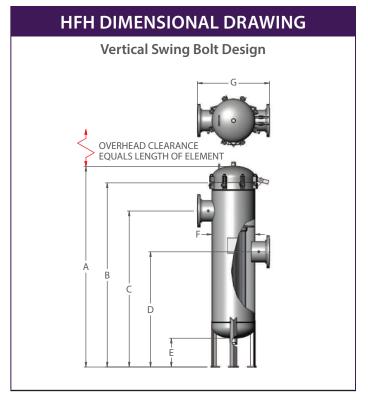
HIGH FLOW NOMENCLATURE INFORMATION													
Model	Number of Filters Around	Orien- tation	Cartridge Height (inches)	Material		Inlet/ Outle Size	- 1	Inlet/ Outlet Config.	Pressure Rating		Gasket		Options
HFH Series	-1 -3 -4 -7	HT Tipp	izontal	R T C	304 SS 316 SS Carbon Steel	-SB 5	Sid Sid	le In/ le Out le In/ ttom Out	150 300	150 psig 300 psig (Consult Factory)	-B -E -S -V -H -DA		
Example	Example: HFH1H40T-4-SS150-S-H												
HFH	1	Н	40	Т		-4		-SS	150		-S		-H



	HFH DIMENSIONAL DATA: HORIZONTAL/SWING BOLT												
Model	Rated Flow Capacity <sup>1</sup> GPM (LPM)	No. 10" Elements	Filter Lengths	Dim. "A" inches (cm)	Dim. "B" inches (cm)	Dim. "C" inches (cm)	Dim. "D" <sup>2</sup> inches (cm)	Dim. "E" <sup>2</sup> inches (cm)	Dim. "F" <sup>2</sup> inches (cm)	Max. Flange	Drain	Vent	Gauge
HFH 3H-40	1050 (3975)	3	40	79 ¾" (203)	11 ¾" (30)	61 1/8" (155)	18" (46)	44" (112)	15" (38)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 4H-40	1400 (5300)	4	40	80 1/4" (204)	11 ¾" (30)	61 1/8" (155)	20" (51)	46" (117)	16" (41)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 7H-40	2450 (9275)	7	40	91 %" (233)	15 ½" (39)	68" (173)	24" (61)	48" (122)	18" (46)	12"	2" NPT	1" NPT	1⁄4" NPT
HFH 1H-60	500 (1893)	1	60	85" (216)	8" (20)	73" (185)	8 5/8" (22)	40" (102)	9" (23)	4"	2" NPT	1" NPT	1⁄4" NPT
HFH 3H-60	1500 (5680)	3	60	99 ¾" (253)	11 ¾" (30)	81 1/8" (206)	18" (46)	44" (112)	15" (38)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 4H-60	2000 (7570)	4	60	100 ¼" (255)	11 ¾" (30)	81 1/8" (206)	20" (51)	46" (117)	16" (41)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 7H-60	3500 (13248)	7	60	111 %" (284)	15 ½" (39)	88" (224)	24" (61)	48" (122)	18" (46)	12"	2" NPT	1" NPT	1⁄4" NPT

1. Dimensions are based on the maximum connection sizes. 2. Dimensions include support legs. 3. Dim. "A" will increase by approx. 3" for SS swing bolt housings.



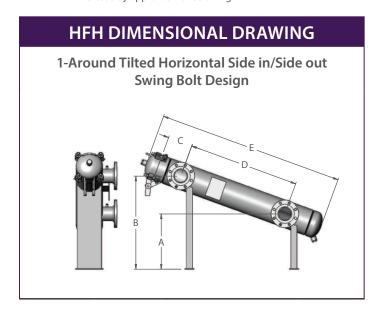


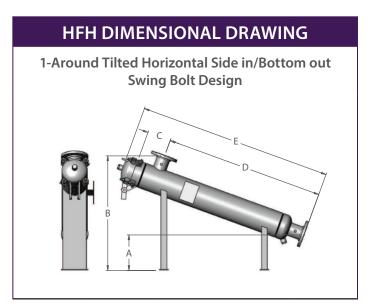
	HFH DIMENSIONAL DATA: VERTICAL/SWING BOLT													
Model	Rated Flow Capacity <sup>1</sup> GPM (LPM)	No. 10" Ele- ments	Filter Lengths	Dim. "A" in (cm)	Dim. "B" in (cm)	Dim. "C" in (cm)	<b>Dim. "D"</b> <sup>2</sup> in (cm)	Dim. "E" <sup>2</sup> in (cm)	Dim. "F" <sup>2</sup> in (cm)	Dim. "G" <sup>2</sup> in (cm)	Max. Flange	Drain	Vent	Gauge
HFH 1V-20	175 (662)	1	20	51 %" (132)	48" (122)	40" (102)	28" (71)	12" (30)	8 5/8" (22)	18" (46)	4"	2" NPT	1" NPT	1⁄4" NPT
HFH 3V-20	525 (1986)	3	20	63 5%" (162)	56 ¾" (144)	45" (114)	28" (71)	12" (30)	18" (46)	30" (76)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 1V-40	350 (1325)	1	40	71 %" (183)	68" (173)	60" (152)	48" (122)	12" (30)	8 5/8" (22)	18" (46)	4"	2" NPT	1" NPT	1⁄4" NPT
HFH 3V-40	1050 (3975)	3	40	83 %" (212)	76 ¾" (195)	65" (165)	48" (122)	12" (30)	18" (46)	30" (76)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 4V-40	1400 (5300)	4	40	84 1/8" (214)	76 ¾" (195)	65" (165)	48" (122)	12" (30)	20" (51)	32" (81)	8"	2" NPT	1" NPT	1⁄4" NPT
HFH 7V-40	2450 (9275)	7	40	95 %" (244)	87 ½" (222)	72" (183)	52" (132)	12" (30)	24" (61)	36" (91)	12"	2" NPT	1" NPT	1⁄4" NPT

<sup>1.</sup> Dimensions are based on the maximum connection sizes. 2. Dimensions include support legs. 3. Dim. "A" will increase by approx. 3" for SS swing bolt housings.

#### HFH DIMENSIONAL DATA: HORIZONTAL TIPPED (SIDE IN/SIDE OUT, SWING BOLT) Rated Flow No. 10" Filter Dim. "A" Dim. "B" Dim. "C" Dim. "D" Dim. "E"1 Max. Model Capacity Drain Vent Gauge Elements Lengths inches (cm) inches (cm) inches (cm) inches (cm) inches (cm) Flange GPM (LPM) HFH 1HT-20 175 (662) 1 20 18" (46) 23 1/2" (60) 8" (20) 16" (41) 40 1/2" (103) 1" NPT 1" NPT 1/4" NPT HFH 1HT-40 350 (1325) 18" (46) 30 5/16" (77) 8" (20) 36" (91) 60 1/2" (154) 1" NPT 1" NPT 1/4" NPT 37 1/8" (94) 8" (20) 80 1/2" (204) 4" 1/4" NPT HFH 1HT-60 525 (1986) 1 18" (46) 56" (142) 1" NPT 1" NPT

<sup>&</sup>lt;sup>1</sup>Dim. "E" will increase by approx. 3" for SS swing





HFH D	HFH DIMENSIONAL DATA: HORIZONTAL TIPPED (SIDE IN/BOTTOM OUT, SWING BOLT)													
Model	Rated Flow Capacity GPM (LPM)	No. 10" Elements	Filter Lengths	Dim. "A" inches (cm)	Dim. "B" inches (cm)	Dim. "C" inches (cm)	Dim. "D" inches (cm)	Dim. "E" <sup>1</sup> inches (cm)	Max. Flange	Drain	Vent	Gauge		
HFH 1HT-20	175 (662)	1	20	12" (30)	31 15/16" (81)	8" (20)	33 ½" (85)	45 3/8" (115)	4"	1" NPT	1" NPT	1⁄4" NPT		
HFH 1HT-40	350 (1325)	1	40	12" (30)	38 ¾" (98)	8" (20)	53 ½" (136)	65 ¾" (166)	4"	1" NPT	1" NPT	1⁄4" NPT		
HFH 1HT-60	525 (1986)	1	60	12" (30)	45 %" (116)	8" (20)	73 ½" (187)	85 ¾" (217)	4"	1" NPT	1" NPT	1⁄4" NPT		

<sup>&</sup>lt;sup>1</sup>Dim. "E" will increase by approx. 3" for SS swing bolt housings.

#### FOR MORE INFORMATION

GTX-335 3-19

Customer Service/Technical Support: 1-888-353-0303 Europe (UK): +44-1424-777791 | China: +86-21-5238-6576 Asia: +65-9635-7690



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