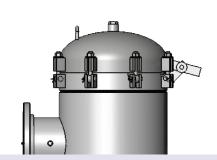
FILTRATION | SEPARATION | PURIFICATION



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

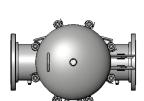
- · Industrial grade housings available in 304, 316 and carbon steel wetted parts
- · ASME U code available
- Designs for 1, 3, 4 or 7 filters per housing for flows up to 3500 GPM*
- · 150 psig designs
- · Accepts 20", 40" and 60" High Flow cartridges
- · Vertical and horizontal designs offered
- · Hold 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).

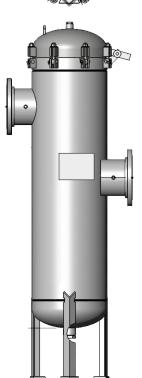
TYPICAL APPLICATIONS

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

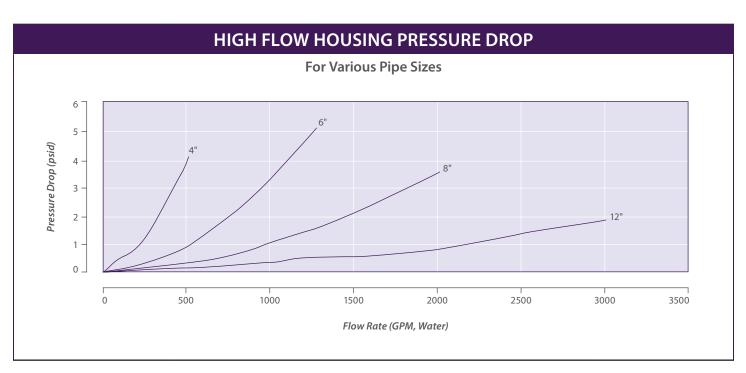
FLOW CAPACITY

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.



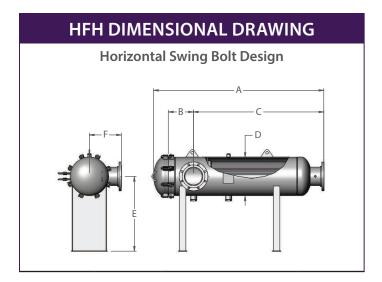


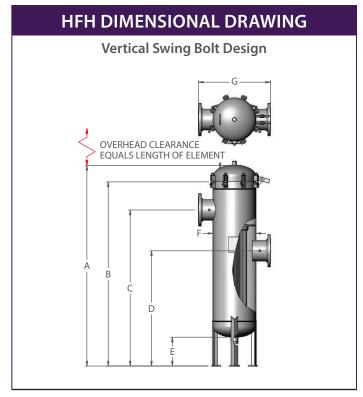
HIGH FLOW NOMENCLATURE INFORMATION													
Model	Number of Filters Around	Orien- tation	Cartridge Height (inches)	Material		Inlet/ Outle	- 1	Inlet/ Outlet Config.	Pressure Rating		Gasket		Options
HFH Series	-1 -3 -4 -7	HT Tipր Hor	izontal	R T C	304 SS 316 SS Carbon Steel	-SB 5	Sid Sid	e In/ e Out e 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 ¹ GPM (LPM)	No. 10" Elements	Filter Lengths	Dim. "A" inches (cm)	Dim. "B" inches (cm)	Dim. "C" inches (cm)	Dim. "D" ² inches (cm)	Dim. "E" ² inches (cm)	Dim. "F" ² 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.



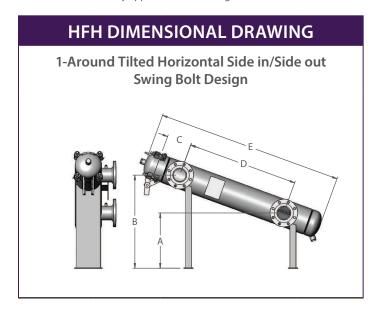


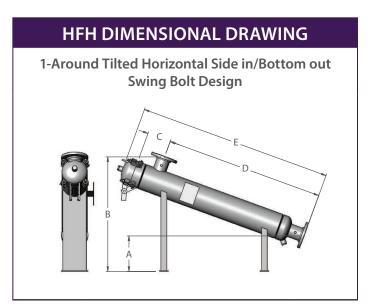
HFH DIMENSIONAL DATA: VERTICAL/SWING BOLT														
Model	Rated Flow Capacity ¹ GPM (LPM)	No. 10" Ele- ments	Filter Lengths	Dim. "A" in (cm)	Dim. "B" in (cm)	Dim. "C" in (cm)	Dim. "D" ² in (cm)	Dim. "E" ² in (cm)	Dim. "F" ² in (cm)	Dim. "G" ² in (cm)	Max. Flange	Drain	Vent	Gauge
HFH 1V-20	175 (662)	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

^{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: 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) 4" HFH 1HT-60 525 (1986) 1 18" (46) 56" (142) 80 1/2" (204) 1" NPT 1" NPT 1/4" NPT

¹Dim. "E" will increase by approx. 3" for SS swing





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" ¹ 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 ¾" (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 3/8" (166)	4"	1" NPT	1" NPT	1⁄4" NPT
HFH 1HT-60	525 (1986)	1	60	12" (30)	45 5/8" (116)	8" (20)	73 ½" (187)	85 ¾" (217)	4"	1" NPT	1" NPT	1⁄4" NPT

¹Dim. "E" will increase by approx. 3" for SS swing bolt housings.

FOR MORE INFORMATION

GTX-335 3-19

DISTRIBUTED BY

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



All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believe to be reliable. However, It is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

