

FILTRATION | SEPARATION | PURIFICATION

High Flow Series Filter Housings

Filter Housings for High Flow Applications

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).

Product Specifications

Shell O-ring	Buna N, Viton, EPDM, Silicone
Optional	300 psig (20.6 bar) Flanged Head designs available – Consult Factory Not for use with compressed gases

Operating Parameters

Maximum operating pressure:

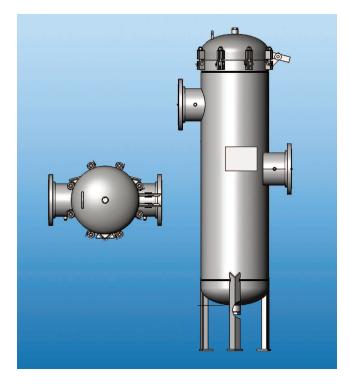
Carbon Steel 150 psig (10.3 bar) @ 500°F (260°C) in liquid service
Stainless Steel 150 psig (10.3 bar) @ 300°F(149°C)

in liquid service

Not for use with compressed gases

Note:

 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.



Available Options

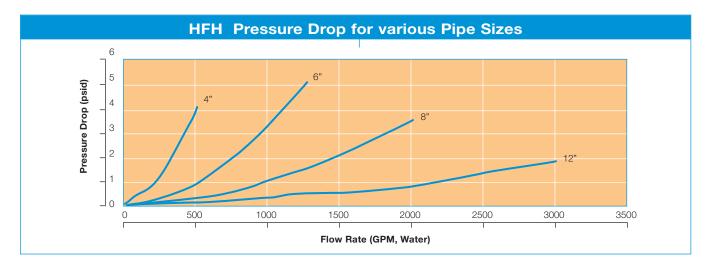
- Vertical Housing Inlet/outlet
 Side in/side out, Side in/bottom out
- Horizontal Housing Inlet/Outlet Side in/bottom out
- Tilted Horizontal
 Side in/side out, Side in/bottom out
- Gauge ports
- Hinged cover
- Davit arm

Typical Applications

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

	HFH Nomenclature Information													
HFH	1	н	40	Т	4	SS	150	-S	-H					
Model HFH Series		Orientation V Vertical H Horizontal			Inlet/Outlet Size 4, 6, 8, 12			Gasket B Buna-N	Options H Hinge DA Davit arm					
# of Filters 1 1		HT Tipped Horizontal (1 round only)			Inlet/Outlet Conf SS Side in/side of	•		S Silicone E EPDM V Viton	DA Davil aiiii					
3 3 4 4 7 7		Cartridge Height (inches) 20, 40, 60		SB Side in/bottom out Pressure Rating			VILON							
7 7		Material of Construction R 304L SS C Carbon S T 3016L SS	Steel	-	150 150 psig 300 150 psig (cor	nsult fa								

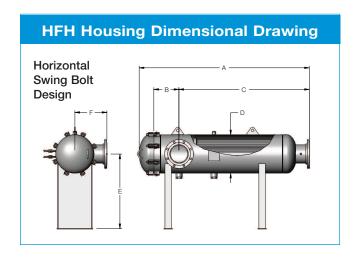
Example: HFH 1H40T4SS150-S-H



	HFH Dimensional Data - Horizontal/Swing Bolt													
Model	Rate Flow Capacity GPM (LPM)	No. 10" Elements	Filter Lengths	Dim. "A" inches (cm)	Dim. "B" inches (cm)	Dim. "C" ¹ inches (cm)	Dim. "D" ¹ inches (cm)	Dim. "E" inches (cm)	Dim. "F" ¹ inches (cm)	Max. Flange size (in)	Drain	Vent	Gauge	
HFH 3H-40	1050 (3975)	3	40	79 ¾" (203)	11 ¾" (30)	61 1/3" (155)	18" (46)	44" (112)	15" (38)	8	2" NPT	1" NPT	1/4" NPT	
HFH 4H-40	1400 (5300)	4	40	80 ¼" (204)	11 ¾" (30)	61 ¼" (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 %" (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 ½" (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 ½" (206)	20" (51)	46" (117)	16" (41)	8	2" NPT	1" NPT	1/4" NPT	
HFH 7H-60	3500 (13248)	7	60	111 ¾" (284)	15 ½" (39)	88" (224)	24" (61)	48" (122)	18" (46)	12	2" NPT	1" NPT	1/4" NPT	

Notes

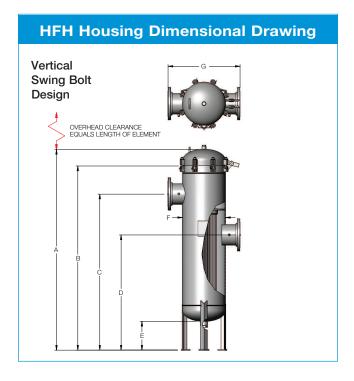
- 1. Dimensions are based on the maximum connection sizes.
- 2. Dimensions include support legs.
- 3. Dim. "A" will increase by approx. 3" for S.S. swing bolt housings.



	HFH Dimensional Data - Vertical/Swing Bolt													
Model	Rate Flow Capacity GPM (LPM)	No. 10" Elements	Filter Lengths	Dim. "A" inches (cm)		-	Dim. "D" ¹ inches (cm)	Dim. "E" inches (cm)	Dim. "F" ¹ inches (cm)	Dim. "G" inches (cm)	Max. Flange size (in)	Drain	Vent	Gauge
HFH 1V-20	175 (662)	1	20	51 %" (132)	48" (122)	40" (102)	28" (71)	12" (30)	8 %" (22)	18" (46)	4	2" NPT	1" NPT	1/4" NPT
HFH 3V-20	525 (1986)	3	20	63 %" (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 %" (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 1/3" (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

Notes:

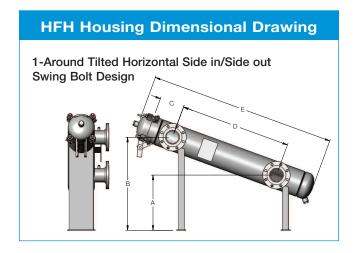
- 1. Dimensions are based on the maximum connection sizes.
- 2. Dimensions include support legs.
- 3. Dim. "A" will increase by approx. 3" for S.S. swing bolt housings.



	HFH Dimensional Data - Horizontal Tipped (Side in/Side out, Swing Bolt)												
Model	Rate 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 size (in)	Drain	Vent	Gauge	
HFH 1HT-20	175 (662)	1	20	18" (46)	23 ½" (60)	8" (20)	16" (41)	40 ½" (103)	4	1" NPT	1" NPT	1/4" NPT	
HFH 1HT-40	350 (1325)	1	40	18" (46)	30 1/6" (77)	8" (20)	36" (91)	60 ½" (154)	4	1" NPT	1" NPT	1/4" NPT	
HFH 1HT-60	525 (1986)	1	60	18" (46)	37 1/8" (94)	8" (20)	56" (142)	80 ½" (204)	4	1" NPT	1" NPT	1/4" NPT	

Notes

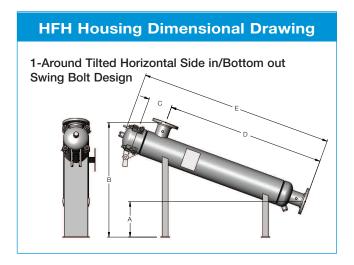
1. Dim. "E" will increase by approx. 3" for S.S. swing bolt housings.



HI	HFH Dimensional Data - Horizontal Tipped (Side in/Bottom out, Swing Bolt)													
Model	Rate 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 size (in)	Drain	Vent	Gauge		
HFH 1HT-20	175 (662)	1	20	12" (30)	31 15/16" (81)	8" (20)	33 ½" (85)	45 %" (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 %" (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 %" (217)	4	1" NPT	1" NPT	1/4" NPT		

Notes

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



For More Information:

Phone: 716.649.2326 Fax: 716.649.9006 Website: www.filtersource.com



