

BHFS SERIES

BAG FILTER HOUSING

HOUSING MODELS

BHFS - Single Bag Housing

BHFS - Multi Bag Housing

APPLICATIONS

Oil and Gas Industry

Adhesives and Resins

Water & Waste Water

Pharmaceutical and Cosmetics

Chemical Industry

Food and Beverages

Petroleum Industry

Power Industry

CODE OF CONSTRUCTION

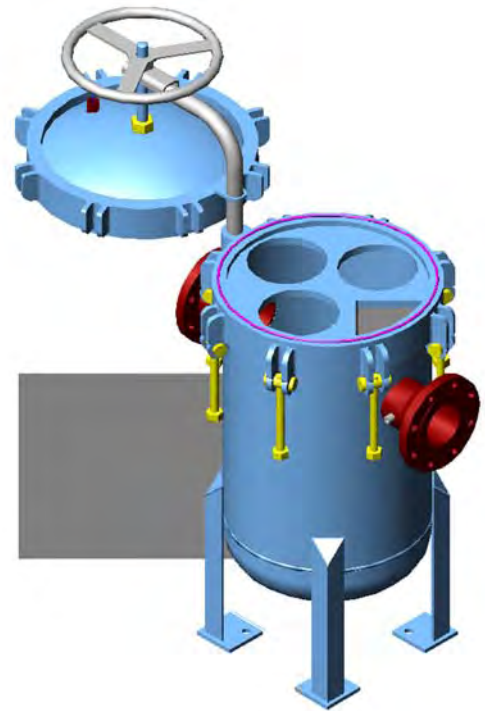
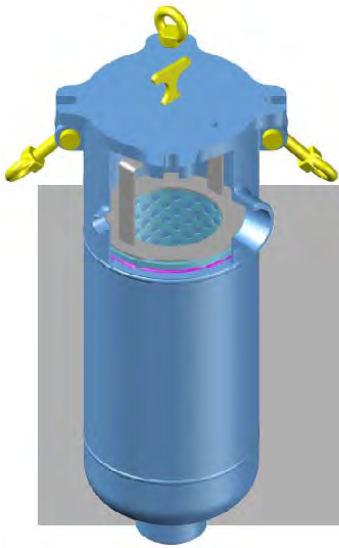
ASME Sect. VIII Div.1 - Pressure Vessel Code

FILTER SOLUTIONS INC

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649 Enfield Road, Burlington, Ontario L7T 2X9 Toll Free: 877-352-2301 Fax: 905-637-3031 info@filtersolutions.com www.filtersolutions.com

FSI's Filter bag housings can effectively remove dirt, pipe scales and contaminants from process liquids in the chemical processing, petroleum, wastewater process industries and more. Creative innovation has allowed FSI to provide a broad range of filter bag vessels to meet the standards, as well as the most demanding applications, found in process industries.



HOUSING MODELS

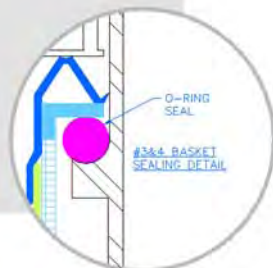
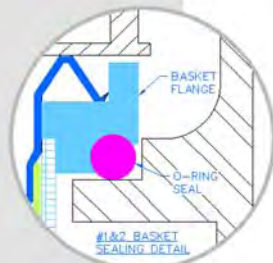
BHFS90SE - #1 SIZE BAG HOUSING
BHFS180SE - #2 SIZE BAG HOUSING
BHFS20SE - #3 SIZE BAG HOUSING
BHFS40SE - #4 SIZE BAG HOUSING
BHFS360 TO 4320 - MULTI BAG HOUSING(2 ROUNDS TO 24 ROUNDS)

FEATURES

1. All standard bag housings come with Swing Bolt Closures, with SA 193 B7/SA 194 2H (zinc plated) nuts and bolts, for quick and easy access.
2. All baskets come with an O-ring seal to prevent bypass.

HOUSING STANDARD SPECIFICATIONS

Design Code: ASME Section VIII, Division 1
Design Pressure: 150 PSIG / 1034 KPAG
Design Temperature: -20°F/225°F(-29°C/107°C)
M.O.C: CS, 304SS, 316SS and others
Closure: Swing Bolt with EPDM O-ring seal
Exterior Finish: (SS) Electro-polish
Exterior Finish: (CS) Blue Enamel



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STANDARD SINGLE BAG FILTER HOUSING SPECIFICATIONS

MODEL NUMBER	HOUSING HOUSING SIZE M.O.C	INLET / OUTLET SIZE	VENT	DRAIN	GAUGE PORT	DESIGN PRESSURE	DESIGN TEMP. RANGE	APPROX. EMPTY WEIGHT		MAX. FLOW RATE THROUGH HOUSING WITH BAG	PRESSURE DROP THROUGH HOUSING WITHOUT BAG @ MAX FLOW RATE		HOUSING EXTERNAL SURFACE FINISH		INLET/OUTLET CONFIGURATION STYLE	CLOSURE STYLE	REPLACEMENT BAG SIZE
								LB	KG		PSID	KPAD	STAINLESS STEEL	C/S			
BHFS20SE		N1/2	N3	N/A	N4			20	9	20	95	0.18	1.23		STYLE 1		#3
BHFS40SE	CS / 304SS / 316SS	1" FNPT	1/4" FNPT	N/A	N/A	150 PSIG / 1034 KPAG	-20 TO 225°F / -29 TO 107°C	24	11	40	189	0.71	4.90	ELECTRO-POLISH	STYLE 1	EPDM & SWING BOLT W/ HANDLE	#4
BHFS90SE		2" FNPT	1/4" FNPT	N/A	N/A			80	36	90	303	0.67	4.62	BLUE ENAMEL	STYLE 1		#1
BHFS180SE		2" FNPT	1/4" FNPT	N/A	N/A			95	43	180	568	2.36	16.24		STYLE 1		#2

STANDARD MULTI BAG FILTER HOUSING SPECIFICATIONS

MODEL NUMBER	HOUSING HOUSING SIZE M.O.C	INLET / OUTLET SIZE	VENT	DRAIN	GAUGE PORT	DESIGN PRESSURE	DESIGN TEMP. RANGE	APPROX. EMPTY WEIGHT		MAX. FLOW RATE THROUGH HOUSING WITH BAG	PRESSURE DROP THROUGH HOUSING WITHOUT BAG @ MAX FLOW RATE		HOUSING EXTERNAL SURFACE FINISH		INLET/OUTLET CONFIGURATION STYLE	CLOSURE STYLE	REPLACEMENT BAG SIZE
								LB	KG		PSID	KPAD	STAINLESS STEEL	C/S			
BHFS360		3"-150#	1/4" FNPT	1" FNPT	(2)1/2" FNPT			430	195	360	1136	1.94	13.38		STYLE 1		2-#2
BHFS540		4"-150#	1/2" FNPT	1" FNPT	(2)1/2" FNPT			440	200	540	1703	1.47	10.16		STYLE 1		3-#2
BHFS1080		6"-150#	1/2" FNPT	1.5" FNPT	(2)1/2" FNPT			650	295	1080	3407	1.14	7.89		STYLE 1		6-#2
BHFS1440	CS / 304SS / 316SS	6"-150#	1/2" FNPT	1.5" FNPT	(2)1/2" FNPT	150 PSIG / 1034 KPAG	-20 to 225°F / -29 to 107°C	930	423	1440	5110	2.57	17.75	BLUE ENAMEL	STYLE 1	EPDM & SWING BOLT W/ DAVIT	8-#2
BHFS2160		8"-150#	1/2" FNPT	1.5" FNPT	(2)1/2" FNPT			1350	614	2160	7949	2.08	14.32		STYLE 1		12-#2
BHFS3240		10"-150#	1/2" FNPT	1.5" FNPT	(2)1/2" FNPT			2350	1068	3240	10788	1.54	10.62		STYLE 1		18-#2
BHFS4320		12"-150#	1/2" FNPT	1.5" FNPT	(2)1/2" FNPT			3000	1364	4320	14763	2.92	20.13		STYLE 1		24-#2

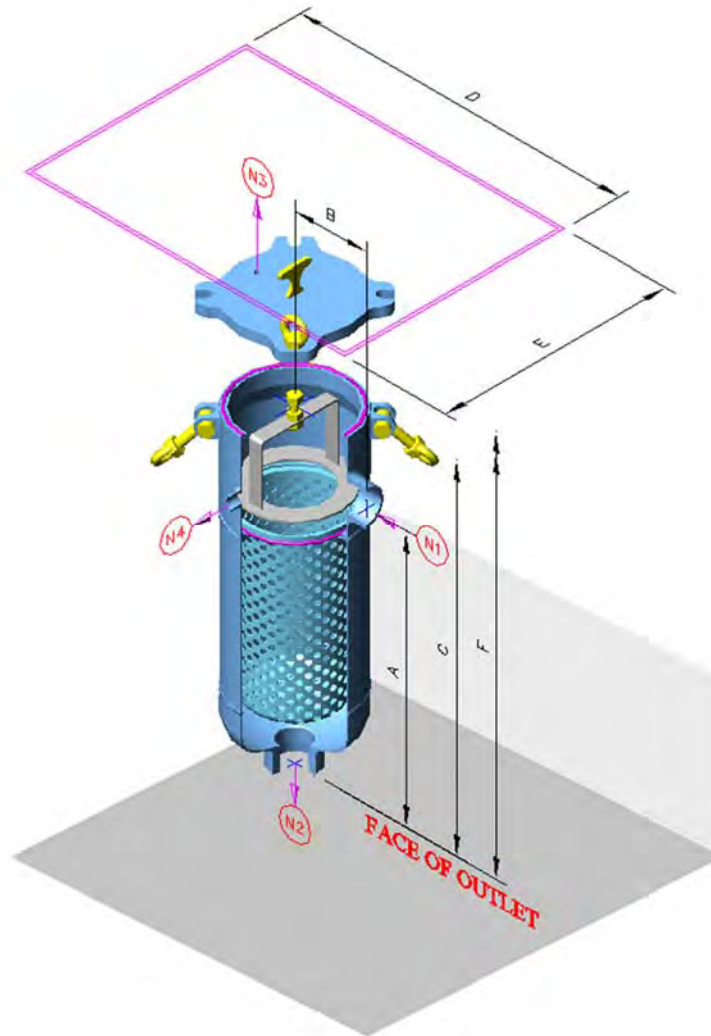
GENERAL NOTES

- Housing pressure drop is based on the flow of water through an 1/8" diameter perforated basket without a filter bag. The total system pressure drop is the sum of the housing and filter bag pressure drops. For optimal system flow rates, the type of fluid, housing pressure drop and filter element rating need to be taken into account. Increasing nozzle inlet/outlet connection sizes will decrease housing pressure drops at the same flow rate. All technical information in this bulletin are for use as a general guide only. Actual results may vary depending on the fluid being filtered, viscosity, dirt loading and temperature.
- See housing ordering guide for options
- Housing Model: BHFS90 & BHFS180 housings c/w C.S zinc plated adjustable legs. BHFS20 & BHFS40 adjustable legs are optional.

BHFS

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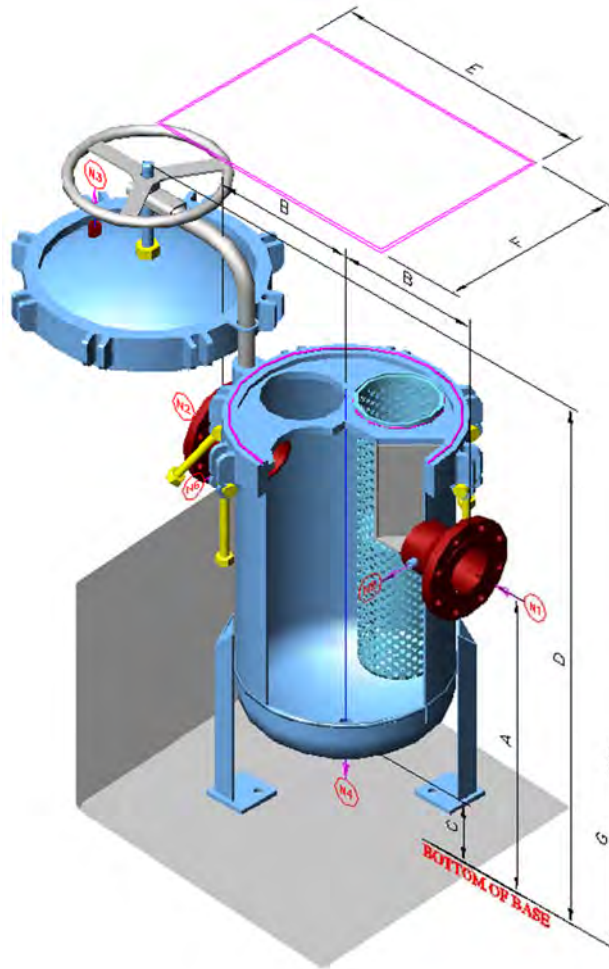


SINGLE BAG HOUSING DIMENSIONS

MODEL NUMBER	INLET C'L TO OUTLET FACE		VESSEL C'L TO INLET FACE		HOUSING (OAH)		HOUSING (OAL)		HOUSING (OAW)		BASKET REMOVAL CLEARANCE	
	A(IN)	A(mm)	B(IN)	B(mm)	C(IN)	C(mm)	D(IN)	D(mm)	E(IN)	E(mm)	F(IN)	F(mm)
BHFS20SE	11-5/8	295	3-1/4	83	17-1/4	438	6-5/16	160	6-1/8	156	21-1/4	540
BHFS40SE	16-15/16	430	3-7/16	87	22-9/16	573	6-1/2	165	6-1/8	156	31-3/4	806
BHFS90SE	20-1/16	510	5-11/16	144	27-9/16	700	10-9/16	268	10	254	38-1/4	972
BHFS180SE	34-1/16	865	5-11/16	144	41-9/16	1056	10-9/16	268	10	254	64-1/4	1632

Dimensions shown are for reference only. Consult FSI for certified drawing when required.

MULTI BAG HOUSING DIMENSIONS



MODEL NUMBER	FLOOR TO C'L INLET/OUTLET		VESSEL C'L TO INLET / OUTLET FACE		FLOOR TO DRAIN FACE		HOUSING (OAH)		HOUSING (OAL)		HOUSING (OAW)		BASKET REMOVAL CLEARANCE	
	A(IN)	A(mm)	B(IN)	B(mm)	C(IN)	C(mm)	D(IN)	D(mm)	E(IN)	E(mm)	F(IN)	F(mm)	G(IN)	G(mm)
BHFS360	29	737	14	356	5-7/8	149	51	1295	28-1/2	724	22-1/2	572	63	1600
BHFS540	29	737	14	356	5-7/8	149	51	1295	28-1/2	724	22-1/2	572	63	1600
BHFS1080	29	737	18	457	6-1/16	154	54-1/2	1384	36-1/2	927	28	711	65	1651
BHFS1440	29	737	21	533	5-5/8	143	57-1/2	1461	42	1067	36	914	67	1702
BHFS2160	29	737	24	610	6-1/16	154	60-1/2	1537	48-1/2	1232	42	1067	69	1753
BHFS3240	29	737	29	737	6-5/8	168	70	1778	58	1473	50-1/2	1283	71	1803
BHFS4320	29	737	32	813	5-15/16	151	71	1803	64-1/2	1638	56-1/2	1435	72	1829

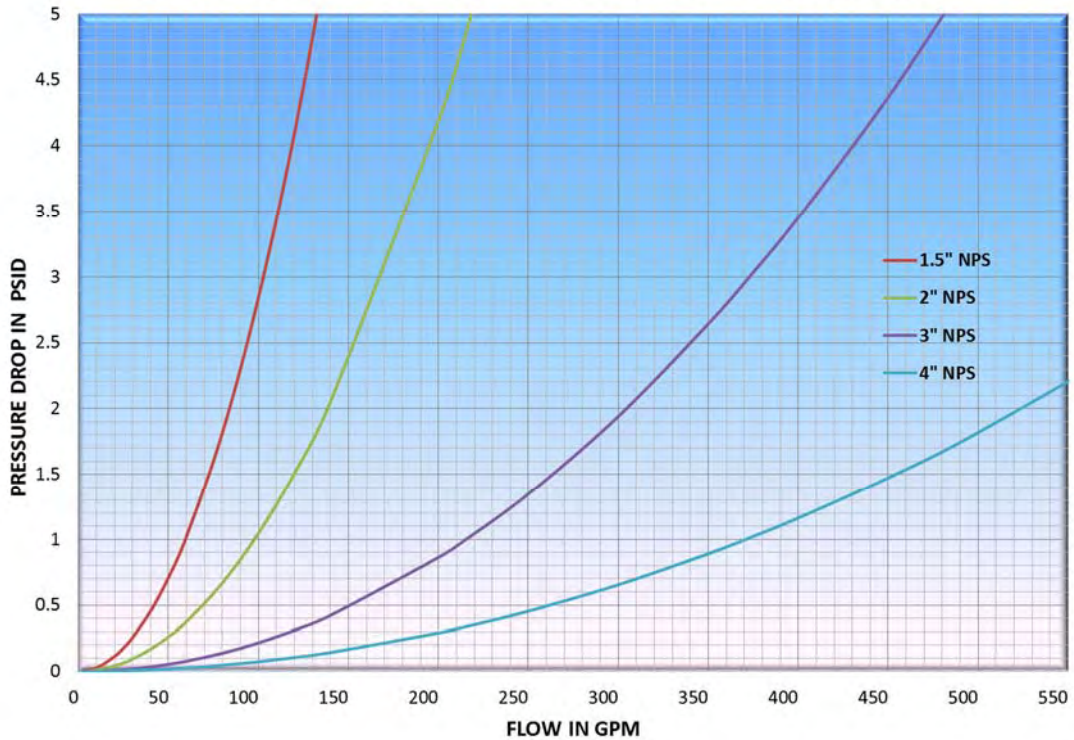
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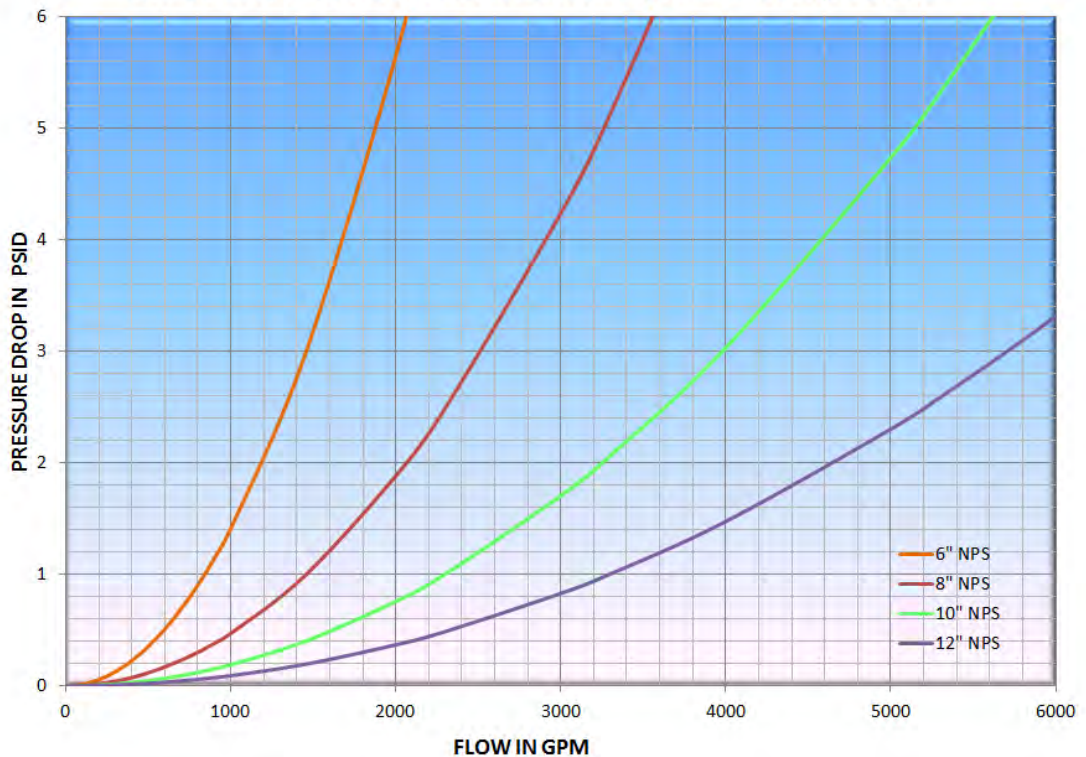
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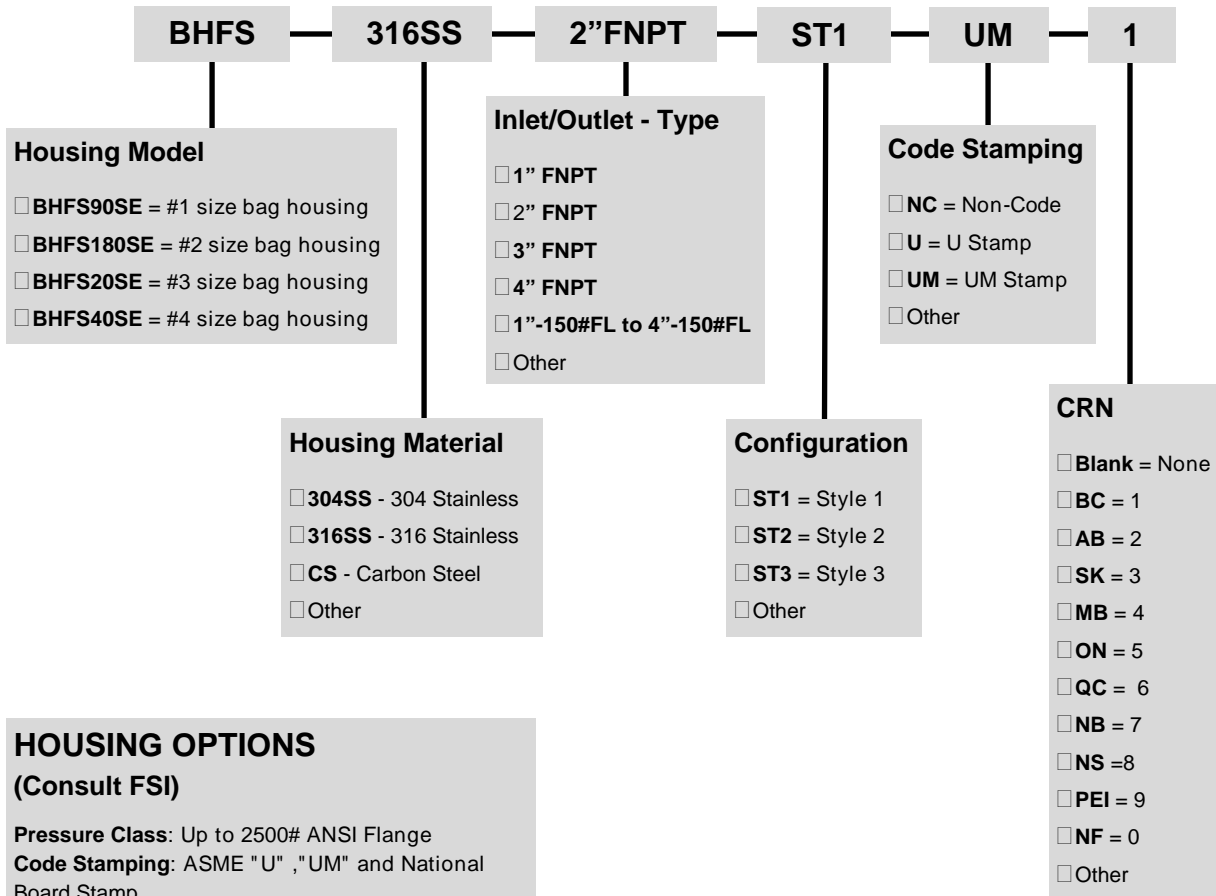
BAG HOUSING CLEAN PRESSURE DROP FOR 1.5"-4" INLET/OUTLET



BAG HOUSING CLEAN PRESSURE DROP FOR 6"-12" INLET/OUTLET



SINGLE BAG HOUSING ORDERING GUIDE



HOUSING OPTIONS

(Consult FSI)

Pressure Class: Up to 2500# ANSI Flange

Code Stamping: ASME "U" , "UM" and National Board Stamp

CRN Registration: All the applicable Canadian Jurisdiction

NDE: RT, UT, LPT, MT, WFMT, PMI & HT

PWHT: Per code or special requirement

Sour Service: Nace MR-103 & MR-0175 Compliance

Corrosion Allowance: 1/16" [1.6mm] to 1/4" [6mm]

Housing Material: Hastelloy, Alloy 20 and other

Bolting Material: SA 193 B7M/2HM, Stainless 304SS or 316SS

Adjustable Leg: Stainless Steel option

Connection: Add and up size

Configuration Style: All available styles and other such as duplex, Triplex etc.

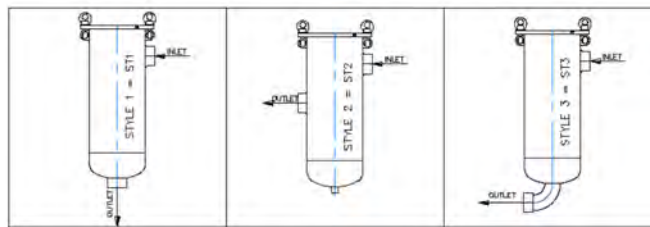
Surface Preparation: C/S interior blasting / SS interior mechanical polish & electro-polish

Coating: Ext / Internal with special paint.

O-Ring: Buna-N, EPR, Silicon, Viton, T.E.V, and other

Closure: Clam Shell Style, Q.O.C, ANSI bolted type and other

HOUSING CONFIGURATION



OTHERS CONFIGURATIONS

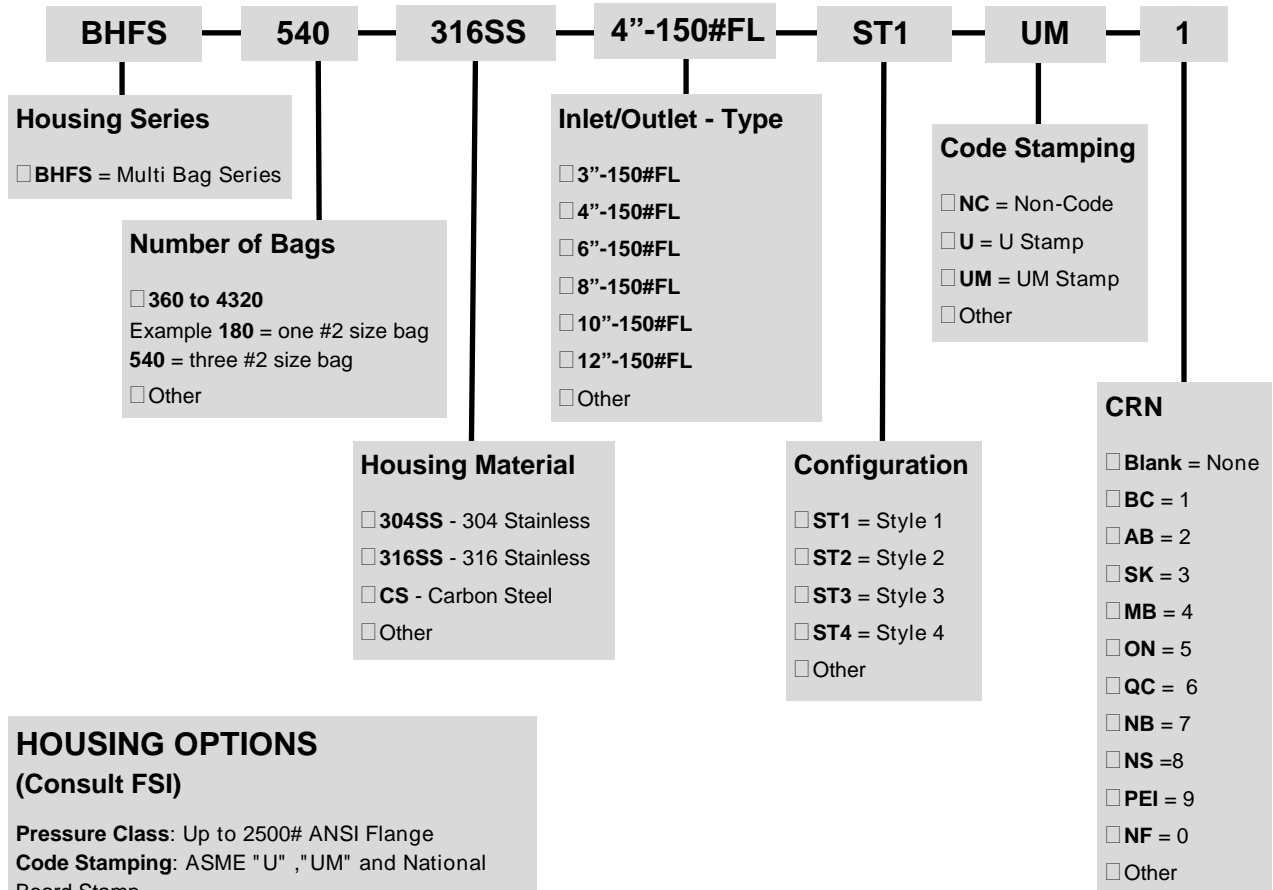
-DUPLEX
 -TRIPLEX
 -QUADPLEX
 THE ABOVE CAN BE CONNECTED IN SERIES OR PARALLEL AND SERIES/ PARALLEL.

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Code Stamping: ASME "U" , "UM" and National Board Stamp
CRN Registration: All the applicable Canadian Jurisdiction
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PWHT: Per code or special requirement
Sour Service: Nace MR-103 & MR-0175 Compliance
Corrosion Allowance: 1/16" [1.6mm] to 1/4" [6mm]
Housing Material: Hastelloy, Alloy 20 and other
Bolting Material: SA 193 B7M/2HM, Stainless 304SS or 316SS
Adjustable Leg: Stainless Steel option
Connection: Add and up size
Configuration Style: All available styles and other such as duplex, Triplex etc.
Surface Preparation: C/S interior blasting / SS interior mechanical polish & electro-polish
Coating: Ext / Internal with special paint.
O-Ring: Buna-N, EPR, Silicon, Viton, T.E.V, and other

HOUSING CONFIGURATION

