



Industrial Filter Housings for Cartridges and Bags

Envirogen offers a comprehensive range of filter housings for cartridge and bag applications, from single cartridge housings to multi-round bag or cartridge housings, as well as sanitary designs.

Our industrial multi-cartridge housings are supplied with a universal seat cup that allows either 222 (code 3 and code 8) or DOE filters to be fitted to the same housing.

For applications requiring pleated filter cartridges we recommend that SOE 222 filters are fitted. For applications using melt blown filter cartridges, cut-end DOE filters are usually preferable.

The following tables provide guidance to aid in selection of the appropriate housing for your application. Contact Envirogen for more info.



Single Round Industrial Cartridge Housings

(See below for single round sanitary)

Category	Comm/Light Indus	Comm/Light Indus	Comm/Light Indus	Industrial	Industrial
Product Name	HCS-PP	HCS-PC	HCS-VP	HCS-SSD	HCS-SS3
Bowl Material	Polypropylene	Polycarbonate	Virgin PP	316SS	316SS, 304SS
Head Material	Polypropylene	Polypropylene	Virgin PP	316 SS	316SS, 304SS
Closure	Threaded	Threaded	Threaded	Clamp	Clamp
Electropolished	n/a	n/a	n/a	Yes	Yes
Number of filters	1	1	1	1	1
Filter lengths	10"	10"	10, 20"	4, 10, 20"	4, 10, 20, 30"
End Styles Accepted	DOE	DOE	Code 3 - 222/flat	DOE	Code 3 - 222/flat
Inlet/Outlet	NPT	NPT	NPT	NPT	NPT
I/O Sizes	3/4"	3/4"	3/4", 1"	3/4"	3/4", 1"
Vent	1/4"	1/4"	1/4"	1/8"	1/8"
Drain	n/a	n/a	1/4"	1/4"	1/4"
Gasket Options	Buna N, Epdm, Viton	Buna N, Epdm, Viton	Buna N, Epdm, Viton	Viton, EPDM, TEV	Viton, EPDM, TEV
Max Oper Pressure at Ambient Temp	150 psi	150 psi	125psi	175 psi	175 psi
FDA Materials	Yes	Yes	Yes	SS	SS
Maximum Recom Flow Rate per 10" Equiv*	10 GPM	10 GPM	10 GPM	10 GPM	10 GPM
Optional Bracket	Yes	Yes	Yes	Yes	Yes
Advantages	Economical	Clear Bowl	High Purity	Sealing confirmation	Code 3 seal

Multi-Round Cartridge Housings

Category	Sanitary	Industrial	Industrial	Industrial	High Flow
Product Name	HCS-SAN or HCM-SAN	HCM-LG	HCM-M	HCM-NC	HC-HFH or HC-HFV
Head and Shell Materials	316 or 316L	304, 316 or 316L SS	304, 316 or 316L SS	304, 316 or 316L SS	304, 316 or 316L SS
Closure	Tri Clamp or Swing Eye Bolts	Swing Eye Bolts	Swing Eye Bolts	Band Clamp	Swing Eye Bolts
Electropolished	Yes, 0.2RA internal	No EP, Mech polish optional	Optional EP or mech polish	Optional EP or mech polish	No EP, Mech polish optional
Number of Filters	1, 3, 4, 6, 8, 11, 15, 20, 24, 29	12,18,22,28,36,42,52,61,69,81,94,105,119,131,147	3, 5, 7, 12, 21	3, 5, 7, 9, 12	1, 2, 3, 4, 5, 7, 8, 9, 12,13, 15, 17, 19
Number of 10" Equivalents	1 to 116	24 to 588	3 to 112	3 to 48	n/a
Flow Rate Capability (based on 5 GPM/10")*	5 to 580 GPM	120 to 2900 GPM	15 to 560 GPM	15 to 240 GPM	175 to 9500 GPM
Filter lengths	10, 20, 30, 40	20, 30, 40	10, 20, 30, 40	10, 20, 30, 40	20, 40, 60
End Styles Accepted	3, 7, 8	DOE,3,7,8	DOE, 3,7,8	DOE, 3,7,8	High Flow Style
Accepts Filter Diameter	2.8"	2.67"	2.67"	2.67"	6"
Inlet/Outlet	TriClamp	ANSI Flange	ANSI Flange or NPT	ANSI Flange or NPT	ANSI Flange
I/O Sizes	1, 1.5, 2, 2.5, 3, 4, 6"	3, 4, 6, 8, 10, 12"	1.5, 2, 3, 4"	1.5, 2, 2.5, 3"	4 to 14"
Vent	1/2 to 1" TC	1" NPT	1/4", 3/4"	1/4"	1" NPT
Drain	no	1.5" NPT	3/4, 1.5"	3/4"	1.5" NPT
Gauge Port	no	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Gasket Options	Silicone, TEV, Viton	EPDM, Silicone, TEV, Viton	EPDM, Silicone, TEV, Viton	EPDM, Silicone, TEV, Viton	EPDM, Silicone, TEV, Viton
Max Oper Pressure at Ambient Temp	100 or 150 psi	150 psi	150 psi	100 psi	150 psi
Legs	included	included	included	included	included
Davit Arm	no	included	no	no	included
ASME Code	U or UM Stamp Optional	U or UM Stamp Optional	U or UM Stamp Optional	No	U or UM Stamp Optional
Advantages	For sterile applications	For higher flow requirements	Medium flow industrial	Band closure for general applications	Fewer filters for high flow applications



Bag Filter Housings

Category	Single	Single	Multi
Product Name	HBFS	HBFC	HBFS
Head and Shell Materials	304L or 316L SS	Carbon Steel	304L or 316L SS
Closure	Clamp or Swing Bolts	Clamp or Swing Bolts	Swing Bolts, Clamp (2 rnd only)
Standard Exterior Finish	Poly Coating	Painted	Poly Coating
Finish Options	Electropolish, Mech (glass bead), passivate, epoxy coating	EP, Mech (glass bead), passivate, epoxy coating	Electropolish, Mech (glass bead), passivate, epoxy coating
Number of Bags	1	1	2, 3, 4, 5, 6, 8
Max Recommended Flow Rate*	25 to 150 GPM	25 to 150 GPM	300 to 1200 GPM
Accepts Bag Sizes	1, 2, 3, 4	1, 2	2
Inlet/Outlet Configuration	Side in/Bottom out(std), Side in/Side out (option)	Side in/Bottom out (std), Side in/Side out (option)	Side In/Side Out
Inlet/Outlet	FNPT(std), ANSI Flange (optional)	FNPT(std), ANSI Flange (optional)	ANSI Flange
I/O sizes	.75, 1, 1.5, 2	2"	3 to 8"
Vent (FNPT)	1/4"	1/4"	1/2"
Drain (FNPT)	1/2"	1/2"	1/2", 3/4"
Gauge Port (FNPT)	1/4"	1/4"	1/4"
Gasket Options	Buna (std), EPR, Silicone, TES, Viton	Buna (std), EPR, Silicone, TES, Viton	Buna (std), EPR, Silicone, TES, Viton
Max Oper Pressure at Ambient Temp	150 psi (10.3 Bar)	150 psi (10.3 Bar)	150 psi (10.3 Bar)
Legs	Size 1&2 - Standard Adjustable Size 3 & 4 Optional	Standard Adjustable	Standard Welded
Davit Arm	No	No	Standard
ASME Code	Optional	Optional	Optional
Advantages	Heavy duty construction for max durability	Lowest cost option when SS not required. Not for aqueous use.	Multi bags for high flow applications



Ordering Guide

(See tables above for available options for each product line)

Bag Housing Ordering Information

# of Bags	Product Name	Element Size	Closure	I/O size	I/O type	Flange Type (if applicable)	Materials of Construction	I/O Orientation	Gasket Material	ASME Code	Options	ASME Stamp
Blank - 1	HBFC	Bags	C-Band Clamp	1	N- FNPT	Blank - ANSI	304L	Blank - Side in/Bottom Out	N-Buna N(std)	C- ASME Code	EP - Electropolish	U
2	HBFS	1	SB-Swing Bolts	1.5	F-Flange	J-JIS	316L	2- side in/side out	S- Silicone	Blank - Non Code	MP- Mechanical Polish	UM
3		2		2		D-DIN	CS		V-Viton		P-Passivate	
4		3		3					E- EPR		EC- Epoxy Coat	
5		4		4					T-TES			
6				6								
8				8								

Example - HBFS2SB2N304N

Cartridge Housing Ordering Information

# of Filter Cartridges (10" equiv)	Product Name	Element Size	Materials of Construction	Closure	I/O size	I/O type	Flange Type (if applicable)	Gasket Material	Filter Seal Type	ASME Code	Options	ASME Stamp
1 to 588 (See tables)	See tables	1- 10"	304	Blank -Threaded	0.75	N- NPT	Blank - ANSI	E- EPDM	DOE	C- ASME Code	EP - Electropolish	U
for multi cartridge vessels only omit for single cart hsgs		2-20"	316	TC-Tri-Clamp	1	F-Flange	J-JIS	S- Silicone	3- 222/flat	Blank - Non Code	MP- Mechanical Polish	UM
		3-30"	316L	VB-Band Clamp	1.5	TC-Tri clamp	D-DIN	V-Viton	6- 226/flat		D - Davit Arm	
		4-40"	PP	SB-Swing Bolts	2			N-Buna N	7- 226/fin		SA - Spring Assist	
		04-4"	VPP		2.5			T-TEV	8- 222/fin		HY - Hydraulic Assist	
		6-60"	SAN		3				HF-High Flow		B-Bracket	
					4							
					6							
					8							
					10							
					12							
					14							

Example - 588HCMGLG4316SB12FE3CDUUM

HOU-NA-0317



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