



HSI⊕ Filter Housing

- in-line sanitary liquid

- In-line sanitary liquid housing
- Available in 3 different housing classes: ATEX, CE and High Pressure
- Both beverage and pharmaceutical surface finishes available
- Sampling and drain port options



Specification

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
PTFE FDA
Silicone FDA
Viton FDA

Surface Finish

- Beverage Finish
 - Internal: Polished 0.4 µm Ra
 - External: Polished 0.25 µm Ra
- Pharmaceutical Finish
 - Internal: Polished 0.4 µm Ra and Electropolished
 - External: Polished 0.25 µm Ra

Welding

All assembly welds are full penetration. All welds are crevice and undercut free.

Weld finish & detail drawings available upon request.

Design Code

Housings designed in accordance with the European Council Pressure Equipment Directive (PED) 97/23/EC and the UK statutory Pressure Equipment Regulations (PER) 1999 N° 2001.

Design Basis

ASME VIII Division 1.
ATEX 94/9/EC (where applicable)

ATEX Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	135 °C (275 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I
Volume (litres)			1.6	2.8	4.7	6.6	8.5

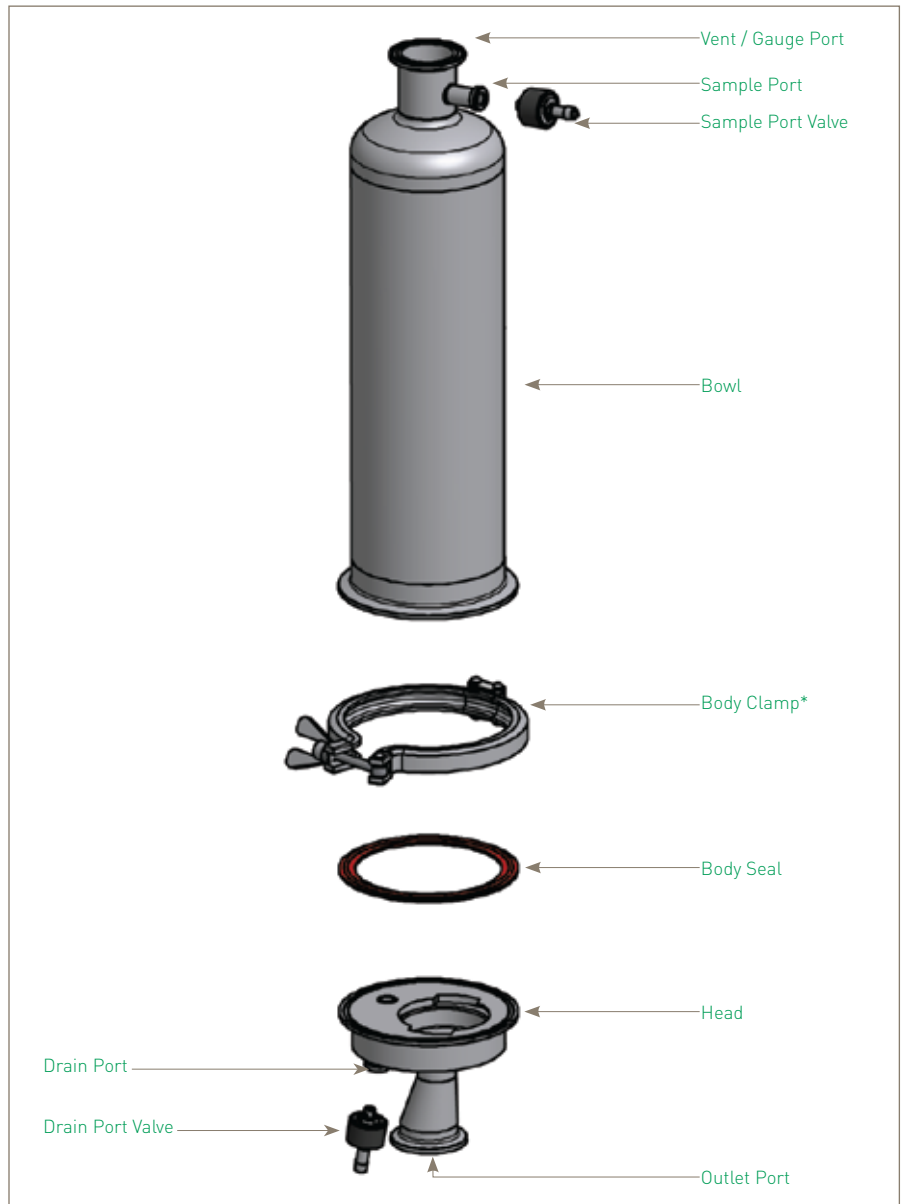
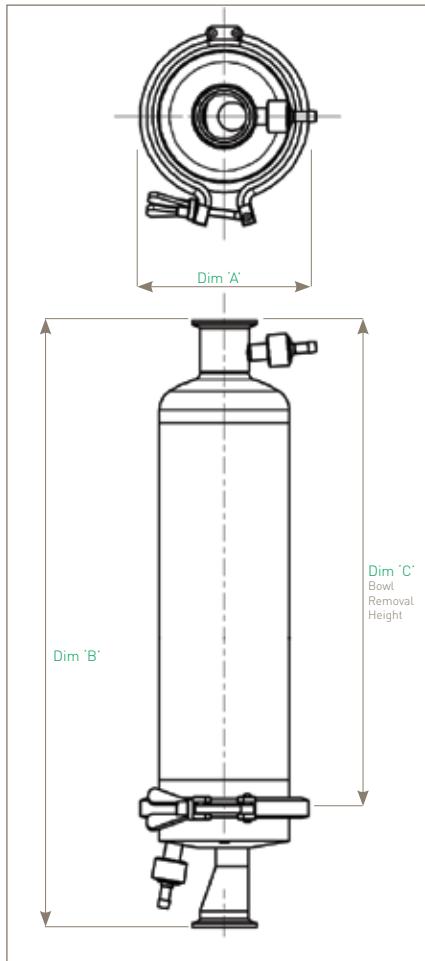
CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
Non Dangerous	Liquid	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Liquid	150 °C (302 °F)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)	5.00 barg (72.51 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I
Volume (litres)			1.6	2.8	4.7	6.6	8.5

High Pressure Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour Liquid	205 °C (401 °F)	14.00 barg (232.06 psig)	14.00 barg (232.06 psig)	14.00 barg (232.06 psig)	14.00 barg (232.06 psig)	14.00 barg (232.06 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT I	CAT I
Volume (litres)			1.6	2.8	4.7	6.6	8.5

Physical Characteristics

Bowl Height	Dimensions (mm)	Dimensions (mm)		Typical Weight (Kg)		
		'A'	'B'	'C'	Bowl	Head
5" (125 mm)	132 327 194	0.9	1.5	2.9		
10" (250 mm)	132 477 313	1.5	1.5	3.5		
20" (500 mm)	132 727 561	2.5	1.5	4.5		
30" (750 mm)	132 972 809	3.5	1.5	5.5		
40" (1000 mm)	132 1222 1057	4.5	1.5	6.5		

Dimensions shown are for a vessel with a vent sample port. For other formats, please contact Parker dominick hunter.



*Double bolted clamp required for HP and PTFE seal options

Ordering Information

HSI 01 - -

Code Vessel Class	Code Length (Nominal)	Code Connection Size	Code Standard	Code Cartridge	Code Seal	Code Vent	Code Drain
AT ATEX	K 5" (125 mm)	Y 1 1/2" (38.1 mm)	T Tri-Clamp	C 226	E EPDM	H 1 1/2" TCF & Hosebarb	H Hosebarb
CE Standard	1 10" (250 mm)				P* PTFE	I 1 1/2" TCF & Staubli RBE03	R Rectus 21
HP* High Pressure	2 20" (500 mm)				S Silicone	M 1 1/2" TCF & 1/2" TCF	S Staubli
	3 30" (750 mm)				V Viton	R 1 1/2" TCF & Rectus 21	R RBE03
	4 40" (1000 mm)					X No Vent	T 1/2" TCF
							X No Drain

* Supplied complete with a double bolted clamp

* Double bolted clamp required

Code Surface Finish	Internal	External
B Beverage	0.4 µm	0.25 µm
P Pharmaceutical	0.4 µm EP	0.25 µm

Code Tagged	Yes	No
T	Yes	No
X	No	Yes

For Tagged Options customer identification numbers required at time of ordering

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