



HSL⊕ Filter Housing

- sanitary liquid

- Single element sanitary liquid housings
- Available in 3 different housing classes: Atex, CE and High Pressure
- Both beverage and pharmaceutical surface finishes available
- Wide range of connection, vent and drain options available



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)			1.7	2.9	4.8	6.7	8.6

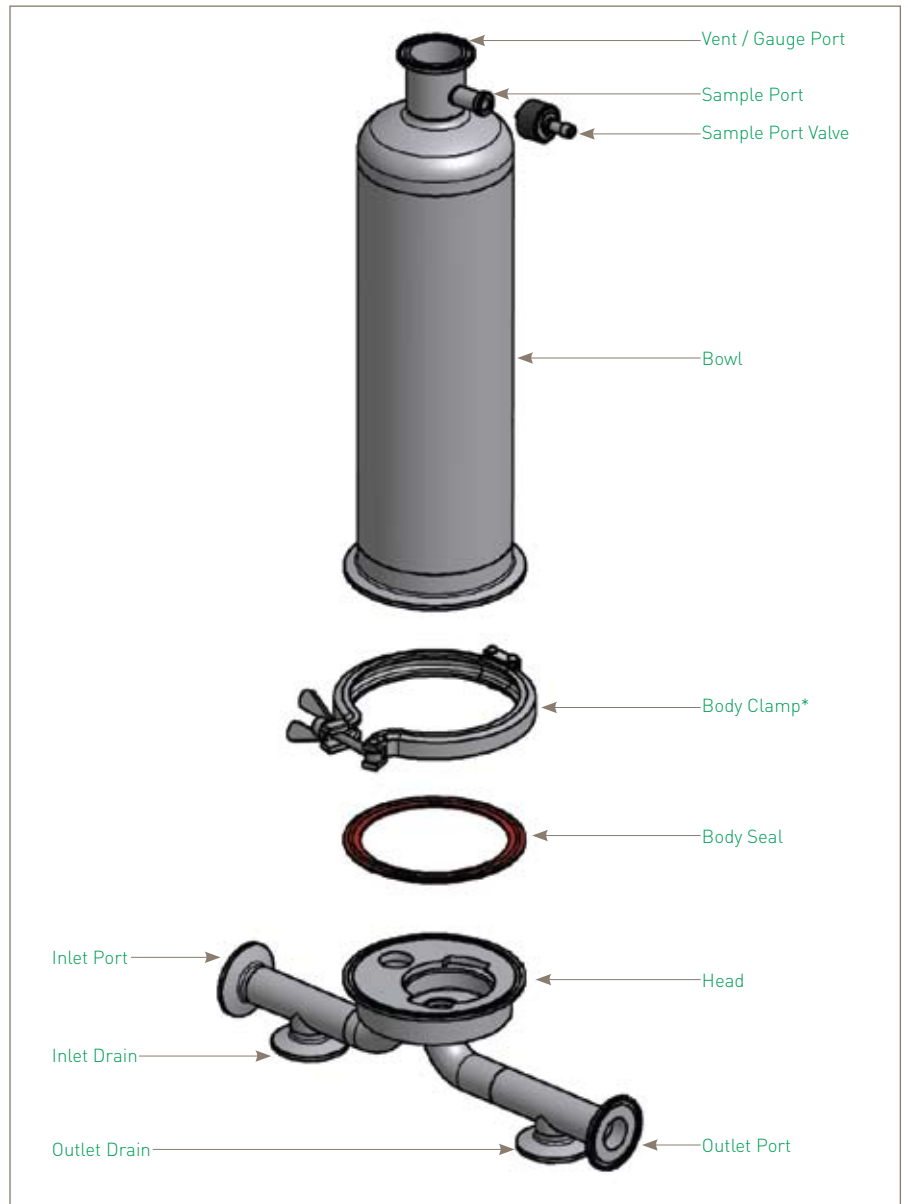
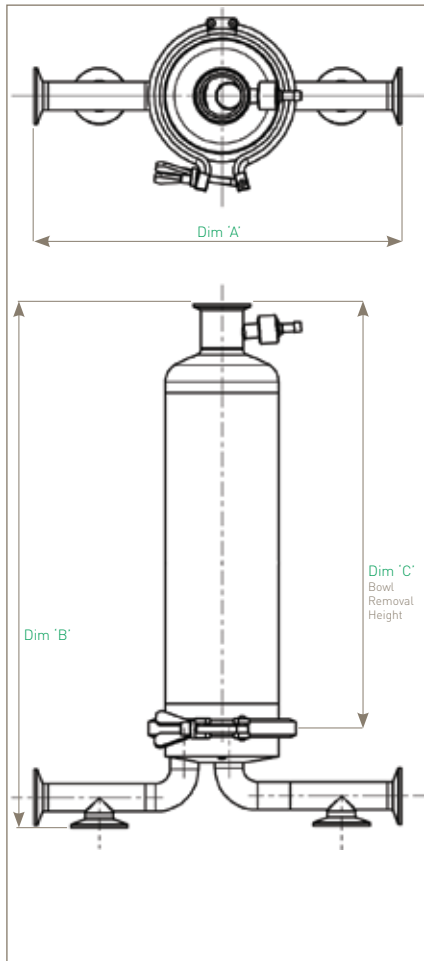
CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °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)			1.7	2.9	4.8	6.7	8.6

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)			1.7	2.9	4.8	6.7	8.6

Physical Characteristics

Bowl Height	Dimensions (mm)	Dimensions (mm)			Typical Weight (Kg)		
		'A'	'B'	'C'	Bowl	Head	Total
5" (125 mm)	330 321 194	0.9	1.9	3.3			
10" (250 mm)	330 472 315	1.5	1.9	3.9			
20" (500 mm)	330 722 561	2.5	1.9	4.9			
30" (750 mm)	330 967 809	3.5	1.9	5.9			
40" (1000 mm)	330 1217 1057	4.5	1.9	6.9			

Dimensions shown are for a vessel with 1" tri-clamp ports and inlet / outlet drains. For other formats, please contact Parker dominick hunter.



*Double bolted clamp required for HP and PTFE seal options

Ordering Information

HSL 01 -

Code Vessel Class	Code Length (Nominal)	Code Connection Size	Code Standard	Code Cartridge	Code Seal	Code Vent	Code Drain
AT ATEX CE Standard HP* High Pressure	K 5" (125 mm) 1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm) 4 40" (1000 mm)	B 1" (25.4 mm)	D DIN11851(M) F ⁽¹⁾ ANSI RF 150 H ⁽²⁾ ANSI RF 300 L ⁽²⁾ BS4504 DIN2633 R RJT(M) S SMS Union (M) T Tri-Clamp W ISO / BS Pipe	C 226	E EPDM P* PTFE S Silicone V Viton	A 1/2" TCF & 2 x Rectus 21 E 1/2" TCF & 2 x Staubli RBE03 H 1/2" TCF & Hosebarb I 1/2" TCF & Staubli RBE03 M 1 1/2" TCF & 1/2" TCF R 1 1/2" TCF & Rectus 21 S Staubli RBE03 Vertical T 1/2" TCF Only	H Hosebarb Inlet Only R Rectus 21 Inlet Only S Staubli RBE03 X No Drain Y 1" TCF Inlet Only Z 1" TCF Inlet & Outlet

* Supplied complete with a double bolted clamp

⁽¹⁾ Not suited for High Pressure Vessels.
HP Vessels to use ANSI RF 300.
⁽²⁾ Flanged vessels based on 1" O.D. pipe but use 1/2" or NW20 flanges.

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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