

# HSL<sup>+</sup> 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

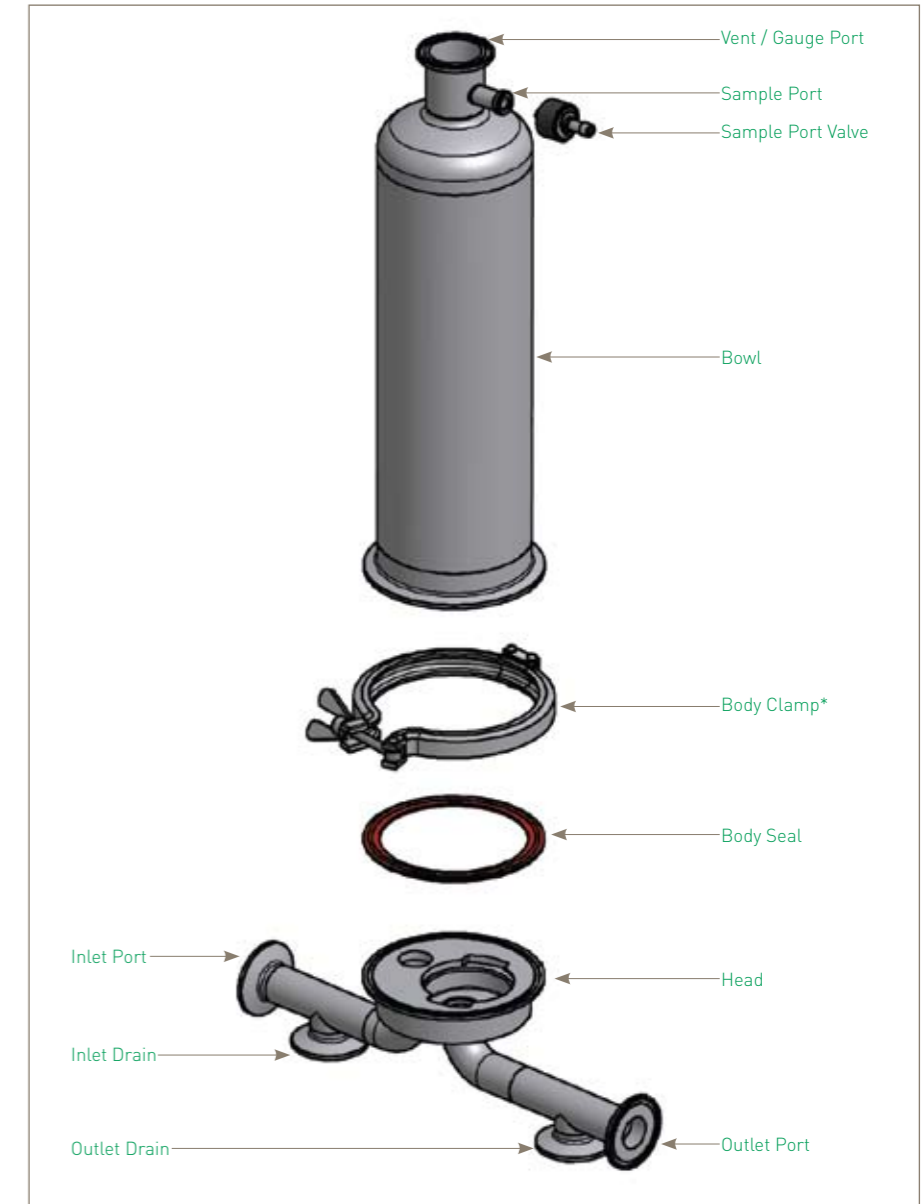
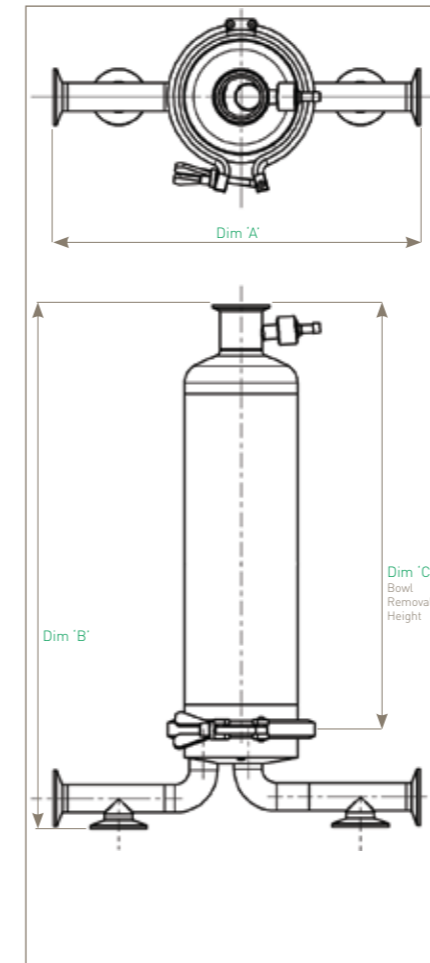
CE Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous	Gas / Vapour	150 °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	205 °C (401 °F)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)
	Liquid		16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 barg (232.06 psig)	16.00 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)			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 domnick 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	K 5" (125 mm)	B 1" (25.4 mm)	D DIN11851(M)	C 226	E EPDM	A 1/2" TCF & 2 x Rectus 21	H Hosebarb Inlet Only
CE Standard	1 10" (250 mm)		F ANSI RF 150 <sup>(1)</sup>		P* PTFE	B 1/2" TCF & 2 x Staubli RBE03	R Rectus 21 Inlet Only
HP* High Pressure	2 20" (500 mm)		H ANSI RF 300		S Silicone	H 1/2" TCF & Hosebarb	S Staubli RBE03
	3 30" (750 mm)		L BS4504		V Viton	I 1/2" TCF & Staubli RBE03	X No Drain
	4 40" (1000 mm)		DIN2633			M 1/2" TCF & 1/2" TCF	Y 1" TCF Inlet Only
			R RJT(M)			R 1/2" TCF & Rectus 21	Z 1" TCF Inlet & Outlet
			S SMS Union (M)			S Staubli RBE03 Vertical	
			T Tri-Clamp			T 1/2" TCF Only	
			W ISO / BS Pipe				

<sup>(1)</sup> Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.

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

PROSEP FILTER SYSTEMS LTD  
Unit G19  
River Bank Way  
Lowfields Business Park  
Elland  
West Yorkshire  
HX5 9DN

**Tel: 01422 377367**

**Fax: 01422 377369**

Email: [enquiries@prosep.co.uk](mailto:enquiries@prosep.co.uk)

[www.prosep.co.uk](http://www.prosep.co.uk)

**Map and Directions to Prosep Filters Limited**



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)