

# HBA<sup>+</sup> Filter Housing

- industrial air / gas

- Flow efficient range of air / gas housings
- Available in 4 different housing classes: ATEX, CE, High Pressure and Oxygen Service
- Beverage, pharmaceutical and industrial surface finishes available
- A number of inlet / outlet port connections
- Wide range of vent and drain options



## Specification

### Materials of Construction

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

### Surface Finish

- Industrial Finish
  - Internal: As Welded
  - External: Pickled & Passivated
- 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)		8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	6.60 barg (95.72 psig)	5.30 barg (76.87 psig)
PED Conformity Assessment Category				SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)				2.5	3.7	5.6	7.5	9.4

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)		8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	6.60 barg (95.72 psig)	5.30 barg (76.87 psig)
PED Conformity Assessment Category				SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)				2.5	3.7	5.6	7.5	9.4

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)
PED Conformity Assessment Category				SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)				2.5	3.7	5.6	7.5	9.4

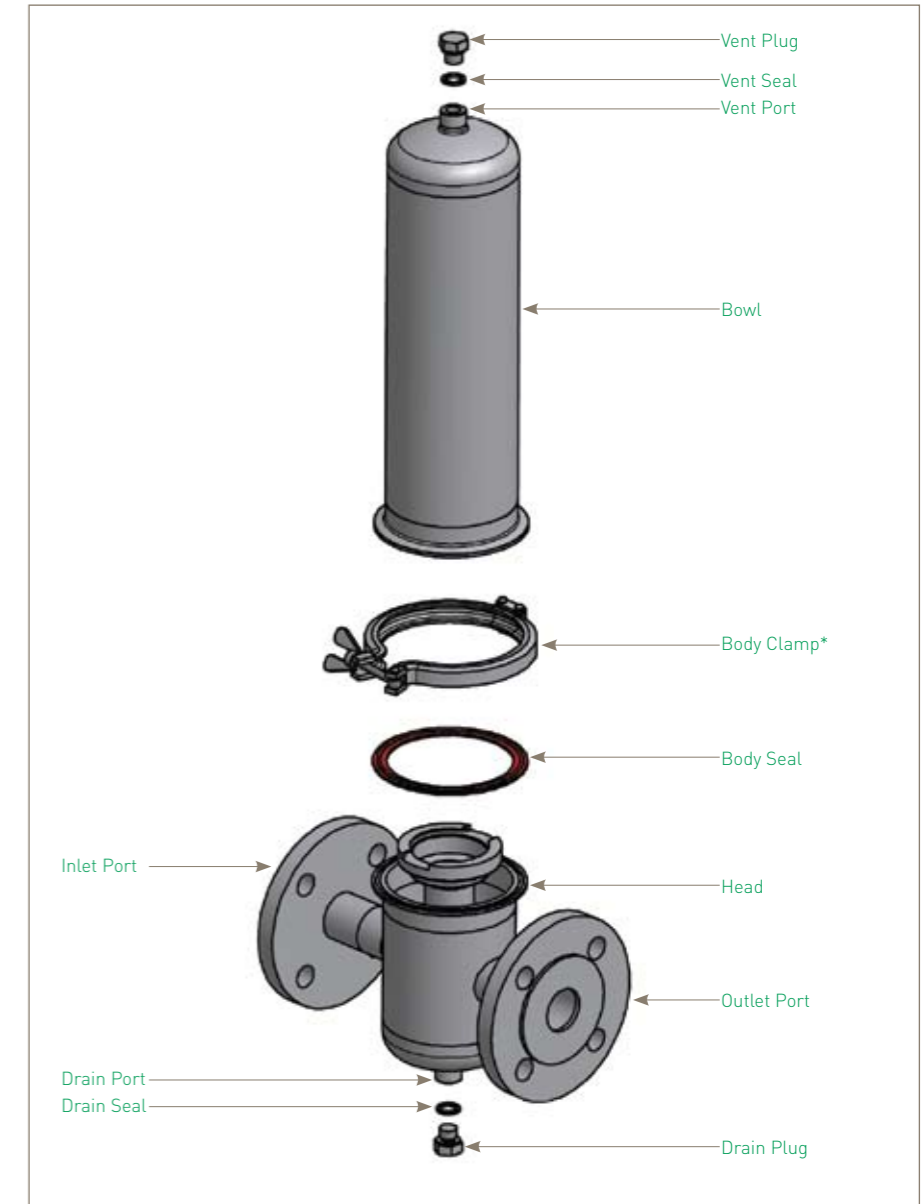
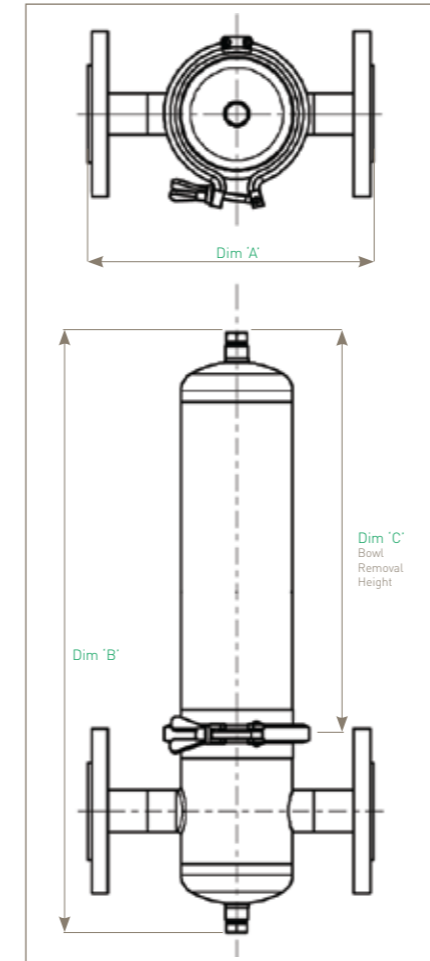
  

Oxygen Service Working Condition PED 97/23/EC				Maximum Pressure				
Fluid Group	State	Temperature		01K	011	012	013	014
Dangerous	Gas / Vapour	150 °C (302 °F)		8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	8.00 barg (116.03 psig)	6.60 barg (95.72 psig)	5.30 barg (76.87 psig)
PED Conformity Assessment Category				SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)				2.5	3.7	5.6	7.5	9.4

## Physical Characteristics

Bowl Height	Dimensions (mm)			Typical Weight (Kg)		
	'A'	'B'	'C'	Bowl	Head	Total
5" (125 mm)	259	398	223	1.0	5.4	7.0
10" (250 mm)	259	548	342	1.6	5.4	7.6
20" (500 mm)	259	798	590	2.6	5.4	8.6
30" (750 mm)	259	1043	838	3.6	5.4	9.6
40" (1000 mm)	259	1293	1068	4.6	5.4	10.6

Dimensions shown are for a vessel with 1 1/2" BS4504 DIN2633 ports, 1/2" BSPP vent and drain. For other formats, please contact Parker domnick hunter.



\*Double bolted clamp required for HP and PTFE seal options

## Ordering Information

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)	B	BSPP (F)	C	226	E	EPDM	B	1/4" BSPP (F)	B	G 1/4" BSPP
CE	Standard	1	10" (250 mm)	C	2" (50.8 mm)	D	DIN11851 (M)			P*	PTFE	C	Rectus 21 Vertical <sup>(2)</sup>	N	G 1/4" NPT
HP*	High Pressure	2	20" (500 mm)			F	ANSI RF 150 <sup>(1)</sup>			S	Silicone	H	1 1/2" TCF & Hosebarb <sup>(2)</sup>	H	Hosebarb
OX	Oxygen Service	3	30" (750 mm)			H	ANSI RF 300			V	Viton	I	1 1/2" TCF & Staubli RBE03 <sup>(2)</sup>	R	Rectus 21
		4	40" (1000 mm)			L	BS4504					M	1 1/2" TCF & 1/2" TCF <sup>(2)</sup>	S	Staubli RBE03
							DIN2633					N	1/2" NPT (F)	T	1/2" TCF
						N	NPT (F)					R	1 1/2" TCF & Rectus 21 <sup>(2)</sup>		
						M*	SMS Pipe (3008)					S	Staubli RBE03 Vertical		
						T	Tri-Clamp					T	1 1/2" TCF Only <sup>(2)</sup>		
						W	ISO / BS Pipe								

Code   Surface Finish	Internal	External	
B	Beverage	0.4 µm	0.25 µm
I	Industrial	As Welded	0.8 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](#)