

# HBA Filter Housings

Air / Gas Filtration



- Flow efficient range of air / gas housings
- Demi (TRUESEAL) and K-40<sup>™</sup> (226) housing sizes
- Designed to maximize flow and minimise pressure drop
- Designed specifically for the food and beverage industry
- STANDARD product
  - Economy and short delivery lead times
- PLUS product
  - Available in 4 different vessel classes: Standard CE, Atex, High Pressure and Oxygen Service
  - Standard, sanitary and sanitary electropolished surface finishes available
  - A number of inlet / outlet port connections
  - Wide range of vent and drain options

## Specification

### STANDARD Range

#### Materials of Construction

- Housing: 316L Stainless Steel
- Seals: Silicone FDA
- Vent / Drain Seals: PTFE FDA
- Clamps: 304 Stainless Steel

#### Standard Surface Finish

- Internal: As welded
- External: Polished 0.8 µm Ra (32 µIn Ra)  
All finishes pickled and passivated.

### PLUS Range

#### Materials of Construction

- Housing: 316L Stainless Steel
- Body Seals: Viton® / FKM FDA  
EPDM FDA  
PTFE FDA  
Silicone FDA
- Clamps: 304 Stainless Steel

#### Surface Finish

Parker domnick hunter's PLUS range of filter housings are available in a wide range of surface finishes and options. Please see product coding.

#### Welding

All assembly welds are full penetration. All welds are crevice and undercut free. Weld finish and detail drawings available upon request.

#### Certification

Supplied as standard with vessel inspection certificate.

#### Material Test Certification

EN10204 3.1 supplied 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.

## STANDARD Range

Working Condition PED 97/23/EC			Maximum Pressure				
Fluid Group	State	Temperature	01A	01B	01K	011	012
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	10 barg (145 psig)	10 barg (145 psig)	5 barg (73 psig)	5 barg (73 psig)	5 barg (73 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	SEP	CAT I
Volume (litres)			0.75	0.5	2.5	3.7	5.6

## PLUS Range

Working Condition PED 97/23/EC			Maximum Pressure						
Fluid Group	State	Temperature	01A	01B	01K	011	012	013	014
Non Dangerous	Gas / Vapour	150 °C (302 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Dangerous	Gas / Vapour	150 °C (302 °F)	10 barg (145 psig)	10 barg (145 psig)	8 barg (116 psig)	8 barg (116 psig)	8 barg (116 psig)	7 barg (102 psig)	5 barg (73 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			0.75	0.5	2.5	3.7	5.6	7.5	9.4

Working Condition PED 97/23/EC			Maximum Pressure						
Fluid Group	State	Temperature	01A	01B	01K	011	012	013	014
Non Dangerous	Gas / Vapour	135 °C (275 °F)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)	10 barg (145 psig)
Dangerous	Gas / Vapour	135 °C (275 °F)	8 barg (116 psig)	8 barg (116 psig)	8 barg (116 psig)	8 barg (116 psig)	8 barg (116 psig)	7 barg (102 psig)	5 barg (73 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			0.75	0.5	2.5	3.7	5.6	7.5	9.4

Working Condition PED 97/23/EC			Maximum Pressure						
Fluid Group	State	Temperature	01A	01B	01K	011	012	013	014
Non Dangerous	Gas / Vapour	205 °C (401 °F)	16 barg (232 psig)	16 barg (232 psig)	16 barg (232 psig)	16 barg (232 psig)	16 barg (232 psig)	16 barg (232 psig)	16 barg (232 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			0.75	0.5	2.5	3.7	5.6	7.5	9.4

Working Condition PED 97/23/EC			Maximum Pressure						
Fluid Group	State	Temperature	01A	01B	01K	011	012	013	014
Dangerous	Gas / Vapour	150 °C (302 °F)	10 barg (145 psig)	10 barg (145 psig)	8 barg (116 psig)	8 barg (116 psig)	8 barg (116 psig)	6.6 barg (96 psig)	5.3 barg (77 psig)
PED Conformity Assessment Category			SEP	SEP	SEP	CAT I	CAT I	CAT I	CAT I
Volume (litres)			0.75	0.5	2.5	3.7	5.6	7.5	9.4

Note: All housings are full vacuum rated.

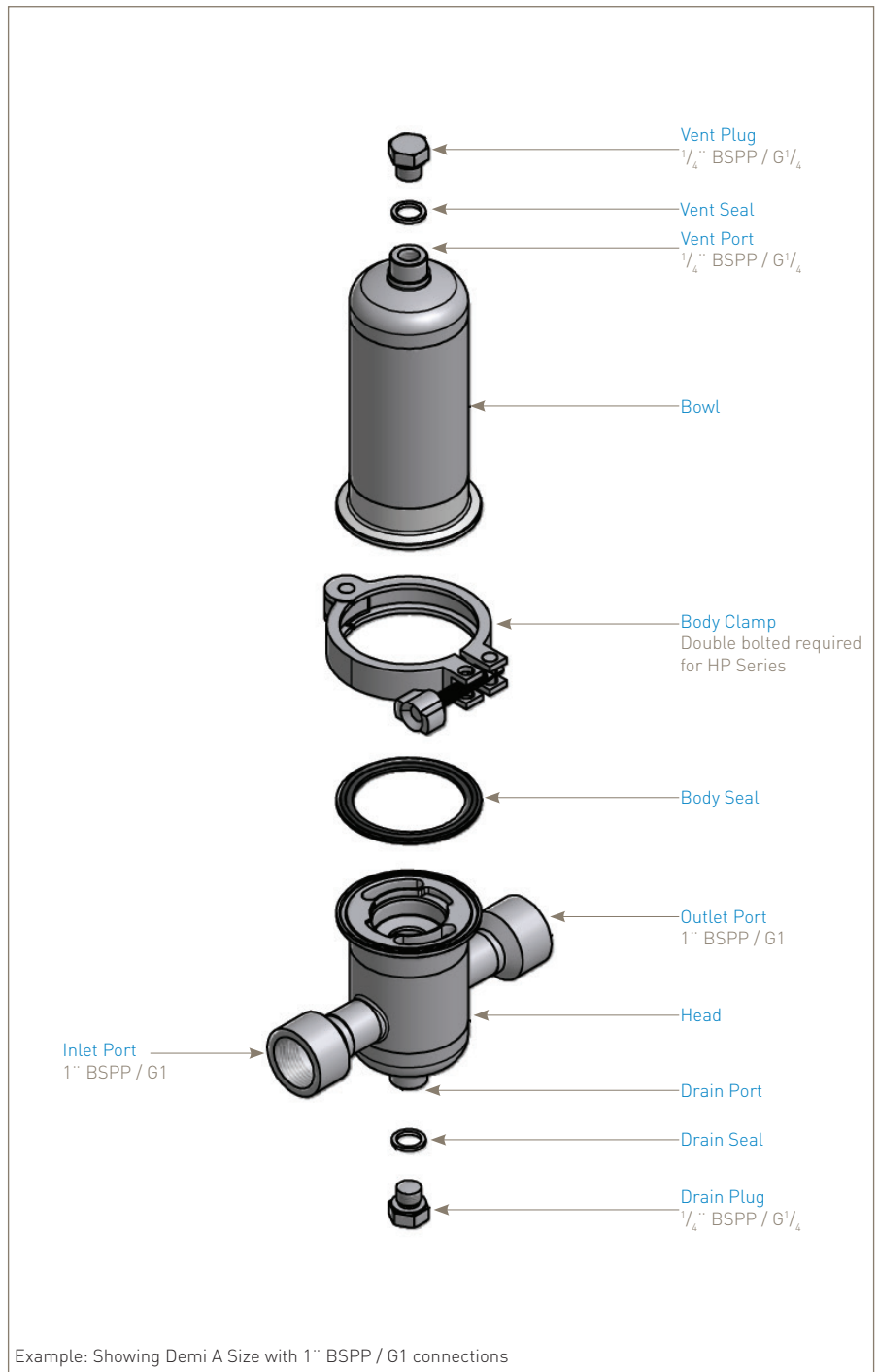
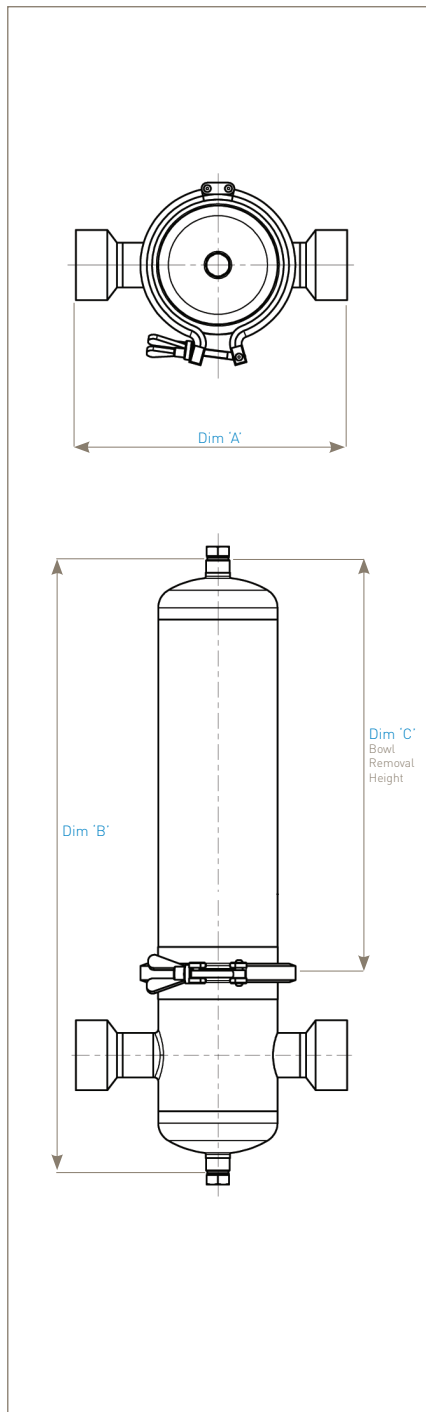
# HBA Filter Housings

Air / Gas Filtration

## Physical Characteristics

Bowl Height	Dimensions (mm)			Typical Weight
	'A'	'B'	'C'	
A Size 125 mm [5"]	175 mm [6.9"]	258 mm [10.2"]	130 mm [5.1"]	1.6 Kg [3.5lbs]
B Size 65 mm [2 1/2"]	175 mm [6.9"]	203 mm [8.0"]	70 mm [2.8"]	1.5 Kg [3.3lbs]
K Size 125 mm [5"]	231 mm [9.1"]	375 mm [14.8"]	223 mm [8.8"]	3.3 Kg [9.3 lbs]
10 in 250 mm [10"]	231 mm [9.1"]	525 mm [20.7"]	342 mm [13.5"]	3.9 Kg [8.6 lbs]
20 in 500 mm [20"]	231 mm [9.1"]	775 mm [30.5"]	590 mm [23.2"]	4.9 Kg [10.8 lbs]
30 in 750 mm [30"]	231 mm [9.1"]	1020 mm [40.2"]	838 mm [33.0"]	5.9 Kg [13 lbs]
40 in 1000 mm [40"]	231 mm [9.1"]	1270 mm [50"]	1068 mm [42.0"]	6.9 Kg [15.2 lbs]

Dimensions shown are based on the STANDARD range. For accurate dimensions, please contact Parker domnick hunter.



Example: Showing Demi A Size with 1" BSPP / G1 connections

The PLUS product range is available with many options of connections, vents, drains, surface finish, seals classification, etc. Please see product coding.

# HBA Filter Housings Air / Gas Filtration

## STANDARD Range - K to 20"

HBA  01    -  -

Code   Vessel Class	Code   Length (Nominal)	Code   Connection Size	Code   Standard	Code   Cartridge	Code   Seal
CE Standard	K 5" (125 mm) 1 10" (250 mm) 2 20" (500 mm)	Y 1/2" (38.1 mm)	B BSPP / ISO 228 N NPT	C 226	S Silicone

## STANDARD Range - Demi A & B

HBA  01    -  -

Code   Vessel Class	Code   Length (Nominal)	Code   Connection Size	Code   Standard	Code   Cartridge	Code   Seal
CE Standard	A 5" (125 mm) B 2 1/2" (65 mm)	B 1"	B BSPP / ISO 228 N NPT	C 226	S Silicone

## PLUS Range - K to 40"

HBA  01      -   -

Code   Vessel Class	Code   Length (Nominal)	Code   Connection Size	Code   Standard	Code   Cartridge	Code   Seal	Code   Vent	Code   Drain												
CE Standard AT ATEX 94/9/EC HP* High Pressure OX Oxygen Service	K 5" (125 mm) 1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm) 4 40" (1000 mm)	Y 1/2" (38.1 mm) C 2" (50.8 mm)	B BSPP (G) / ISO 228 D DIN 11851 (M) F (1) FLANGE ANSI cl.150 H FLANGE ANSI cl.300 L FLANGE ISO / DIN N NPT (F) M* SMS Pipe (3008) T Tri-Clamp® W Butt Weld BS4825 Pt.1	C 226	E EPDM P* PTFE S Silicone V Viton® / FKM	B 1/2" BSPP (F) / G 1/2" C Rectus 21 Vertical <sup>(2)</sup> H 1 1/2" Tri-Clamp® & Hosebarb <sup>(2)</sup> I 1 1/2" Tri-Clamp® & Staubli™ RBE03 <sup>(2)</sup> M 1 1/2" Tri-Clamp® & 1/2" TCF <sup>(2)</sup> N 1/2" Tri-Clamp® (F) R 1 1/2" Tri-Clamp® & Rectus 21 <sup>(2)</sup> S Staubli™ RBE03 Vertical <sup>(2)</sup> T 1 1/2" Tri-Clamp® Only <sup>(2)</sup>	B 1/2" BSPP (F) / G 1/2" N 1/2" NPT H Hosebarb R Rectus 21 S Staubli™ RBE03 T 1/2" Tri-Clamp®												
* Supplied complete with a double bolted clamp						<table border="1"> <thead> <tr> <th>Code   Surface Finish</th> <th>Internal</th> <th>External</th> </tr> </thead> <tbody> <tr> <td>B Sanitary</td> <td>0.4 µm</td> <td>0.25 µm</td> </tr> <tr> <td>I Standard</td> <td>As Welded</td> <td>0.8 µm</td> </tr> <tr> <td>P Sanitary Electropolished</td> <td>0.4 µm EP</td> <td>0.25 µm</td> </tr> </tbody> </table>		Code   Surface Finish	Internal	External	B Sanitary	0.4 µm	0.25 µm	I Standard	As Welded	0.8 µm	P Sanitary Electropolished	0.4 µm EP	0.25 µm
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<p><sup>(1)</sup> Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.</p> <p>* SMS 1.12" = 38 OD x 1.2 THK SMS 2" = 51 OD x 1.2 THK</p>						<table border="1"> <thead> <tr> <th>Code   Tagged</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>X</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Code   Tagged	Yes	No	T	Yes	No	X	No	No			
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## PLUS Range - Demi A & B

HBA  01      -   -

Code   Vessel Class	Code   Length (Nominal)	Code   Connection Size	Code   Standard	Code   Cartridge	Code   Seal	Code   Vent	Code   Drain												
CE Standard AT ATEX 94/9/EC HP* High Pressure OX Oxygen Service	A 5" (125 mm) B 2 1/2" (65 mm)	B 1" T 3/4" A 1/2" X 3/8" Q 1/4"	B BSPP (G) / ISO 228 D <sup>(2)</sup> DIN 11851 F <sup>(3)(4)</sup> ANSI RF 150 H <sup>(5)</sup> ANSI RF 300 L <sup>(5)</sup> FLANGE ISO / DIN M* SMS Pipe (3008) N NPT (F) T <sup>(5)</sup> Tri-Clamp® W <sup>(5)</sup> Butt Weld BS4825 Pt.1	T 126	E EPDM P* PTFE S Silicone V Viton® / FKM	B 1/2" BSPP (F) / G 1/2" C Rectus 21 Vertical H <sup>(1)</sup> 1 1/2" Tri-Clamp® & Hosebarb I <sup>(1)</sup> 1 1/2" Tri-Clamp® & Staubli™ RBE03 M <sup>(1)</sup> 1 1/2" Tri-Clamp® & 1/2" Tri-Clamp® N 1/2" Tri-Clamp® (F) R <sup>(1)</sup> 1 1/2" Tri-Clamp® & Rectus 21 S Staubli™ RBE03 Vertical T 1 1/2" Tri-Clamp® Only	B 1/2" BSPP (F) / G 1/2" N 1/2" NPT H Hosebarb R Rectus 21 S Staubli™ RBE03 T 1/2" Tri-Clamp®												
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<p><sup>(1)</sup> Not available in Industrial Finish.</p> <p><sup>(2)</sup> Only available in 1".</p> <p><sup>(3)</sup> Not available in 1/2" or 3/4".</p> <p><sup>(4)</sup> Not suited for High Pressure Vessels. HP Vessels to use ANSI RF 300.</p> <p>* SMS 1" = 25 OD x 1.2 THK</p>						<table border="1"> <thead> <tr> <th>Code   Tagged</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>X</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Code   Tagged	Yes	No	T	Yes	No	X	No	No			
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Staubli™ is a trademark of Staubli AG.  
Tri-Clamp® is a trademark of Alfa-Laval, Inc.  
Viton® is a registered trademark of DuPont Performance Elastomers L.L.C.

Note: All Tri-Clamp® connections conform to BS4825 Pt. 3



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