

HBA Filter Housings

Air / Gas Filtration

ENERGOEKONOM
spol. s r.o.



- Flow efficient range of air / gas housings
- Demi (TRUESEAL) and K-40" (226) housing sizes
- Designed to maximize flow and minimize 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.

Directives

Housings designed in accordance with the European Council Pressure Equipment Directive (PED).
ATEX (where applicable).

Design Basis

ASME VIII Division 1.

Approvals

EAC 010-2011, (No. TC N RU D-GB. AИ01.B.00511)
Approval type: Import Certificate, TR CU Pressure Equipment (available on request).



STANDARD Range

Working Condition PED			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			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)	6.6 barg (95 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			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)	6.6 barg (95 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			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			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 (95 psig)	5.3 barg (76 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.

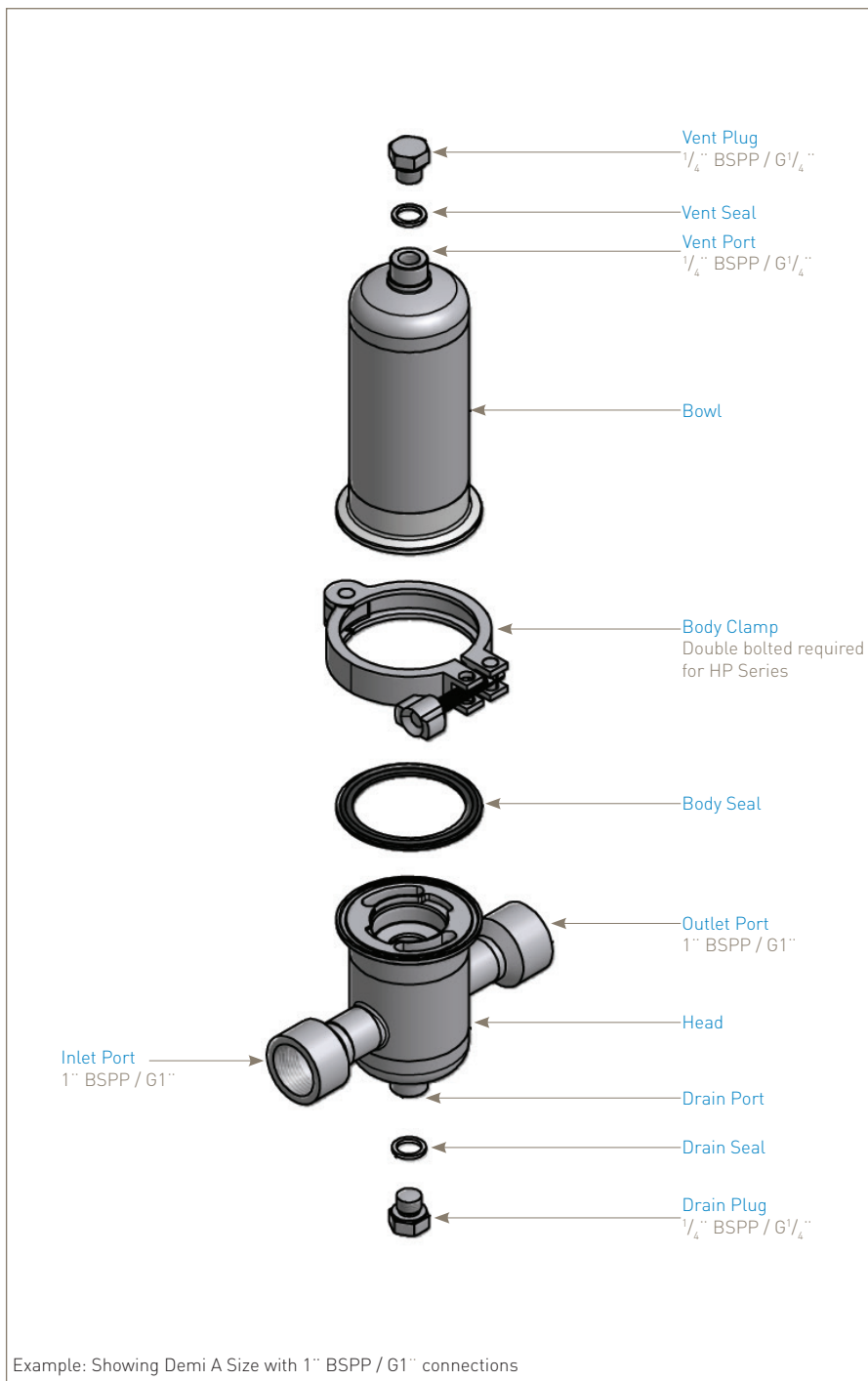
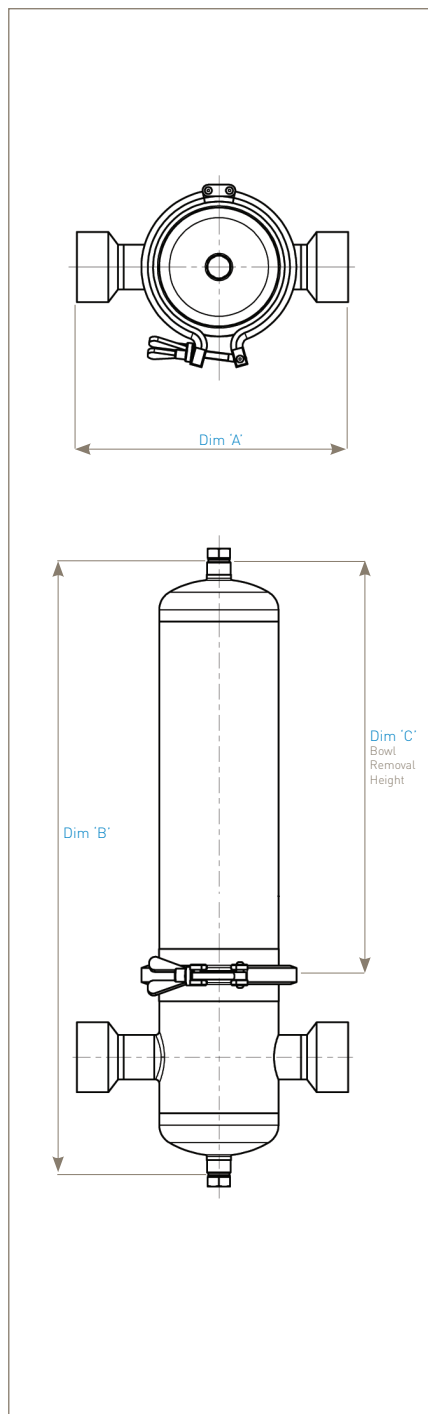
HBA Filter Housings

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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 / G 1" connections

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

STANDARD Range - K to 20"

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 1/2" (38.1 mm)	B BSPP / ISO 228 N NPT	C 226	S Silicone

STANDARD Range - Demi A & B

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"

Code Vessel Class	Code Length (Nominal)	Code Connection Size	Code Standard	Code Cartridge	Code Seal	Code Vent	Code Drain
CE Standard AT ATEX 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 1/2" (38.1 mm) C 2" (50.8 mm)	B BSPP (G) / ISO 228 D DIN11851(M) FLANGE F ⁽¹⁾ ANSI cl.150 FLANGE H ANSI cl.300 FLANGE L EN1092-1 PN16 N NPT 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 1/4" BSPP / G 1/4" C Rectus 21 Vertical ⁽²⁾ H 1 1/2" Tri-Clamp® & Hosebarb ⁽²⁾ I 1 1/2" Tri-Clamp® & Staubli™ RBE03 ⁽²⁾ M 1 1/2" Tri-Clamp® & 1/2" TCF ⁽²⁾ N 1/4" Tri-Clamp® R 1 1/2" Tri-Clamp® & Rectus 21 ⁽²⁾ S Staubli™ RBE03 Vertical ⁽²⁾ T 1 1/2" Tri-Clamp® Only ⁽²⁾	B 1/4" BSPP / G 1/4" N 1/4" NPT H Hosebarb R Rectus 21 S Staubli™ RBE03 T 1/2" Tri-Clamp®
* Supplied complete with a double bolted clamp					* Double bolted clamp required ⁽²⁾ Not available in Industrial Finish.		
						Code Surface Finish	Code Tagged
						Internal External	T Yes X No
						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	
						For Tagged Options customer identification numbers required at time of ordering	

PLUS Range - Demi A & B

Code Vessel Class	Code Length (Nominal)	Code Connection Size	Code Standard	Code Cartridge	Code Seal	Code Vent	Code Drain
CE Standard AT ATEX 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 ⁽²⁾ DIN11851 F ⁽³⁾⁽⁴⁾ ANSI RF 150 H ⁽³⁾ ANSI RF 300 L ⁽³⁾ EN1092-1 PN16 M* SMS Pipe (3008) N NPT T ⁽³⁾ Tri-Clamp® W ⁽³⁾ Butt Weld BS4825 Pt.1	T 126	E EPDM P* PTFE S Silicone V Viton™ / FKM	B 1/4" BSPP / G 1/4" C Rectus 21 Vertical H ⁽¹⁾ 1 1/2" Tri-Clamp® & Hosebarb I ⁽¹⁾ 1 1/2" Tri-Clamp® & Staubli™ RBE03 M ⁽¹⁾ 1 1/2" Tri-Clamp® & 1/2" Tri-Clamp® N 1/4" Tri-Clamp® R ⁽¹⁾ 1 1/2" Tri-Clamp® & Rectus 21 S Staubli™ RBE03 Vertical T 1 1/2" Tri-Clamp® Only	B 1/4" BSPP / G 1/4" N 1/4" NPT H Hosebarb R Rectus 21 S Staubli™ RBE03 T 1/2" Tri-Clamp®
* Supplied complete with a double bolted clamp					* Double bolted clamp required		
						Code Surface Finish	Code Tagged
						Internal External	T Yes X No
						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	
						For Tagged Options customer identification numbers required at time of ordering	

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