

# HCA Enhanced Plus Filter Housing

- Alloy 22 gas housings

- Flow efficient range of gas housings
- Single element housing
- Designed to maximize flow and minimize pressure drop
- Designed specifically for aggressive gases and solvents
- Suitable for cartridge type 226, K to 30"
- Wetted parts Alloy 22
  - Non wetted parts 304 and 316 stainless steel



## Specification

### Materials of Construction

- Housing: Alloy 22  
*(Stainless Steel non-wetted parts)*
- Seals: PTFE, EPDM, Silicone or Viton  
*(All FDA)*
- Vent / Drain Seals: PTFE *(BSP Only)*

### Surface Finish

- Internal: Polished 0.8 µm Ra
- External: Polished 0.8 µm Ra  
*All finishes pickled & passivated.*

### Welding

All assembly welds are full penetration. All welds are crevice and undercut free. Weld finish & 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.

PED / PER conformity assessments based on Fluid Group 1 Gas (dangerous) liquid and gases. Only housings over PS.V 25 bar / litres bear the CE mark.

### Design Basis

ASME VIII Division 1.  
ATEX 94/9/EC (where applicable).

C22 Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	State	Temperature	01K	011	012	013
Non Dangerous	Liquid / Gas	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)
Dangerous			10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT 1
Volume (litres)			1.3	2.2	3.5	4.8

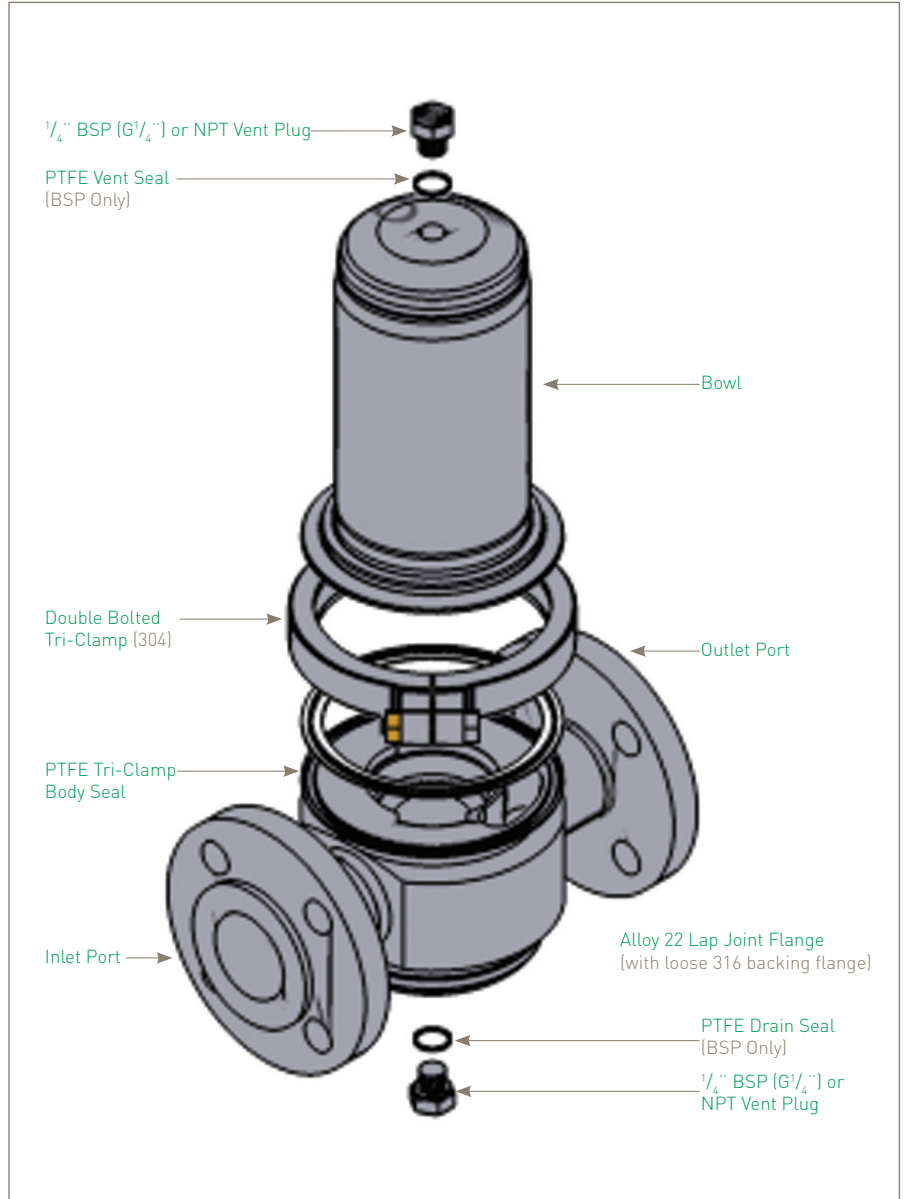
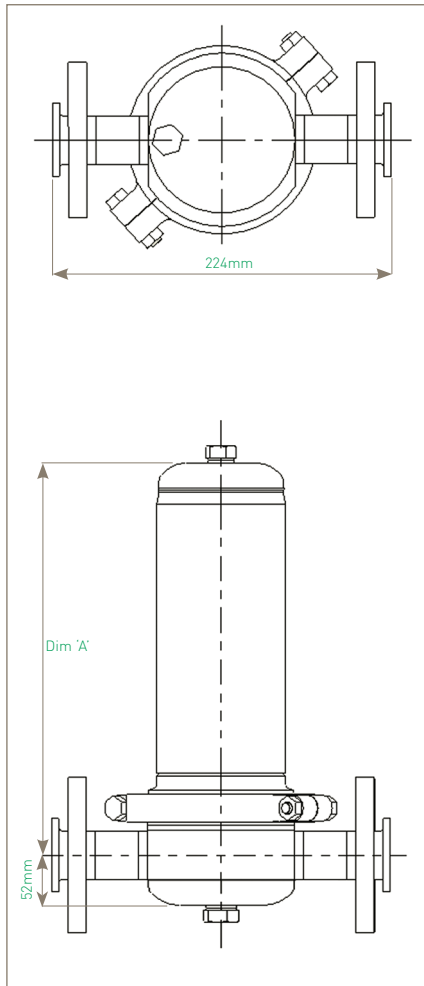
ATEX Working Condition PED 97/23/EC			Maximum Pressure			
Fluid Group	State	Temperature	01K	011	012	013
Non Dangerous	Liquid / Gas	135 °C (275 °F)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
Dangerous			10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)	10.00 barg (145.03 psig)
PED Conformity Assessment Category			SEP	SEP	CAT I	CAT 1
Volume (litres)			1.3	2.2	3.5	4.8

Note: All housings are fully vacuum rated.

## Physical Characteristics

Bowl Height	Dimensions (mm)	Weight (Kg)		
		'A'	Bowl	Head Total
5" (125 mm)	250	2.0	3.0	5.0
10" (250 mm)	370	3.0	3.0	6.0
20" (500 mm)	615	5.0	3.0	8.0
30" (750 mm)	865	7.0	3.0	10.0

Dimensions are based on illustration shown.  
For accurate dimensions, please contact Parker domnick hunter.



## Ordering Information

**HCA**  **01**      -   -  -

Code   Material	Code   Length (Nominal)	Code   Connection Size	Code   Standard	Code   Cartridge	Code   Seal	Code   Vent	Code   Drain
22 Alloy 22 AT ATEX	K 5" (125 mm) 1 10" (250 mm) 2 20" (500 mm) 3 30" (750 mm)	C* 2" (50.80 mm) Y* 1 1/2" (48.26 mm)	B BSPP (F) F <sup>(1)</sup> ANSI RF 150 H <sup>(1)</sup> ANSI RF 300 L <sup>(1)</sup> BS4504 DIN2633 N NPT (F) T 2" Tri-Clamp	C 226	E EPDM P PTFE S Silicone V Viton	B 1/4" BSPP (F) N 1/4" NPT (F)	B 1/4" BSPP N 1/4" NPT
				<b>Code   Surface Finish</b>	<b>Internal</b>	<b>External</b>	<b>Code   Tagged</b>
				E Electropolished	Electropolished	0.8 µm	T Yes
				I Standard	As Welded	0.8 µm	X No

\* Tri-Clamp only  
\* Nominal Bore

<sup>(1)</sup> Loose stainless 316 lap joint flange

For Tagged Options customer identification numbers required at time of ordering

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