



# HBA⊕ Filter Housing

- industrial air / gas

- Flow efficient range of air and 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  
Pickled & Passivated
  - External: Polished 0.8 µm Ra
- Beverage Finish
  - Internal: Polished 0.4 µm Ra
  - External: Polished 0.25 µm Ra
- Pharmacautical 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

