# **Demi HBA** Filter Housing

• industrial and beverage 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

■ Body Seal: EPDM FDA

PTFE FDA Silicone FDA Viton FDA

■ Vent / Drain Seal: PTFE FDA

### Surface Finish Options

Industrial Finish

Internal: As Welded

Pickled & Passivated

External: Polished 0.8 µm Ra

Beverage Finish

 $\begin{array}{ll} \text{Internal:} & \text{Polished 0.4} \; \mu\text{m Ra} \\ \text{External:} & \text{Polished 0.25} \; \mu\text{m Ra} \end{array}$ 

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      | 01A                         | 01B                         |
| Non Dangerous &<br>Dangerous        | Gas / Vapour | 135 °C (275 °F)  | 10.00 barg<br>(145.03 psig) | 10.00 barg<br>(145.03 psig) |
| PED Conformity Assessment Category  |              |                  | SEP                         | SEP                         |
| Volume (litres)                     |              |                  | 0.75                        | 0.50                        |

| CE Working Condition PED 97/23/EC  |              | Maximum Pressure |                             |                             |
|------------------------------------|--------------|------------------|-----------------------------|-----------------------------|
| Fluid Group                        | State        | Temperature      | 01A                         | 01B                         |
| Non Dangerous &<br>Dangerous       | Gas / Vapour | 150 °C (302 °F)  | 10.00 barg<br>(145.03 psig) | 10.00 barg<br>(145.03 psig) |
| PED Conformity Assessment Category |              |                  | SEP                         | SEP                         |
| Volume (litres)                    |              |                  | 0.75                        | 0.50                        |

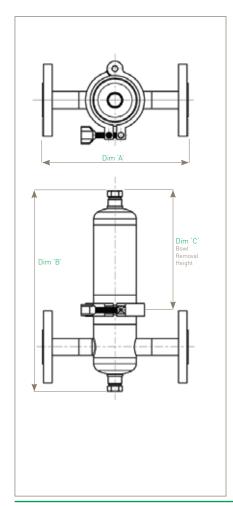
| High Pressure Working Condition PED 97/23/EC |              | Maximum Pressure |                             |                             |
|--|--------------|------------------|-----------------------------|-----------------------------|
| Fluid Group                                  | State        | Temperature      | 01A                         | 01B                         |
| Non Dangerous                                | Gas / Vapour | 205 °C (401 °F)  | 16.00 barg<br>(232.06 psig) | 16.00 barg<br>(232.06 psig) |
| PED Conformity Assessment Category           |              |                  | SEP                         | SEP                         |
| Volume (litres)                              |              |                  | 0.75                        | 0.50                        |

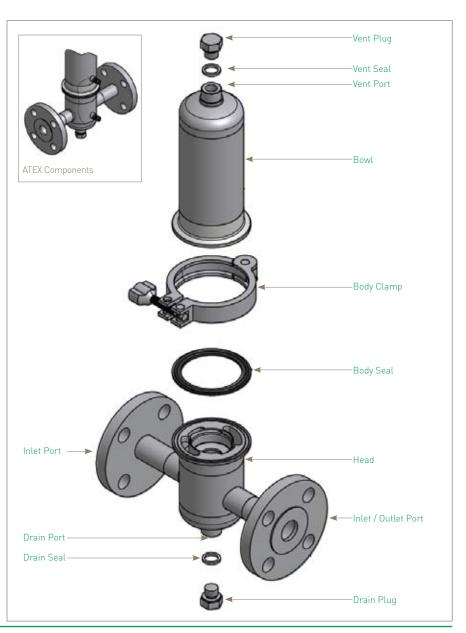
| Oxygen Service Working Condition PED 97/23/EC |              | Maximum Pressure |                             |                             |
|---|--------------|------------------|-----------------------------|-----------------------------|
| Fluid Group                                   | State        | Temperature      | 01A                         | 01B                         |
| Dangerous                                     | Gas / Vapour | 150 °C (302 °F)  | 10.00 barg<br>(145.03 psig) | 10.00 barg<br>(145.03 psig) |
| PED Conformity Assessment Category            |              |                  | SEP                         | SEP                         |
| Volume (litres)                               |              |                  | 0.75                        | 0.50                        |

## **Physical Characteristics**

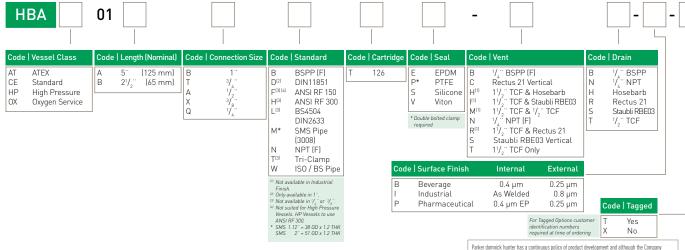
| Bowl<br>Height                               | Dimensions (mm)<br>'A' 'B' 'C' |     |     | Typical<br>Weight (Kg) |
|--|--------------------------------|-----|-----|------------------------|
| A Size 5" (125 mm)                           | 220                            | 300 | 130 | 1.5                    |
| B Size 2 <sup>1</sup> / <sub>2</sub> [65 mm] | 220                            | 245 | 70  | 1.4                    |

Dimensions are based on illustration shown (HBACE01ABFTE-BB-P-X). For accurate dimensions, please contact Parker domnick hunter.









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