Filtration Housings
A guide to products and services

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding
Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specification, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a product’s suitability for specific applications. All products are sold subject to the company’s Standard conditions of sale.
Precision Manufacturing
Experience and qualifications provide a flexible approach

Parker domnick hunter, Process Division manufacture stainless and carbon steel pressure vessels and filtration systems that are designed to meet international industry standards and specific customer application requirements.

A combination of highly skilled employees, a dedicated manufacturing facility and 35 years experience of supplying process industries around the world, Parker domnick hunter provide solutions that match your requirements for performance, quality and value.

Our fabrication facility manufacture a standard range of stainless steel and Alloy 22 housings to support our range of filters, which can be modified and adapted to meet any process requirements. Our strength is in providing a range of products that meet industry standards with a flexibility to meet your own process requirements.

Manufacturing capability
- Pressure vessels from 0.1 to 10,000 litres
- Capacity: 5,000+ per year
- Automatic and hand welding techniques
- Assembly and hydro test facility
- Helium leak test, N.D.T., P.M.I. and stress relief
- Welding capability
  - manual / mechanical
  - MIG, MAG, TIG, MMA
  - micro plasma seam
  - keyhole plasma
- Testing
  - Helium leak test
  - Surface finish
  - Hydrostatic testing
  - Pneumatic testing
  - Ultrasonic testing
  - Radiographic (x-ray)
  - Swab testing
  - Magnetic particle flow detection
  - Ridoflow testing
  - Earth continuity testing

Manufacturing best practice
- ISO9001
- ISO13485
- ISO14001

Vessels built to industry standards
- PED (CE)
- EN / 6445
- EN / 286
- BS / 1210
- ATEX
- ASME U
- ASME BPE

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Project Management
Engineering your success

Parker domnick hunter, Process Division brings a wealth of experience in working on engineering projects around the world in partnership with some of the leading engineering, consultancy and project management groups. A highly trained workforce have the skills to match your exact requirements to the highest possible standards.

As part of the Parker Hannifin Corporation, Parker domnick hunter can provide:
- Project management
- Process system design
- System fabrication
- Global support
- Operator training
- Dedicated technical support team
- Quality management systems

Our experience and expertise has seen us design and fabricate major systems for industries including:
- Pharmaceutical
- Chemical
- Food and beverage
- Industrial fermentation

A combination of hands on experience, design and manufacturing excellence have gained Parker domnick hunter a reputation for supplying high quality competitive filtration systems.

Leading edge design
Parker domnick hunter’s, Sustaining Engineering Group are dedicated to providing a complete design service for coded pressure vessels, high integrity piping and all associated controls and instrumentation for project or contract work.

Using the latest in 3D CAD technology, Parker domnick hunter have the ability to support each project with:
- Visualization - Photo Rendering
- Rapid Prototyping
- FEA - Finite Element Analysis
- CFD - Computational Flow Dynamics

Project partnership
During the whole qualification phase of a new project, Parker domnick hunter provides formal validation plans, continuous support and assistance with all stages of qualification from factory acceptance through to site installation.

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Dedicated Filter Range
Choice and flexibility to suit your application

Parker domnick hunter, Process Division manufacture a range of microfiltration cartridges for liquid and gas applications that utilize the latest production techniques, combining the most suitable membranes and filtration media with the latest easy to use formats.

All of Parker domnick hunter’s filters meet strict validation guidelines providing a high degree of assurance that they will consistently achieve a high level of performance in a given application and meet the needs of the industry that they have been specifically designed for:

- Wide choice of filtration media and filter formats
- Technical and validation support
- Industry and application specific filters
- Fully retrofitable range of products
- Manufactured in state-of-the-art facilities

Scaleability provides flexibility
The ability to scale up from small area discs to final manufacturing with minimal revalidation is paramount.

Parker domnick hunter provides a wide range of filter formats to ensure that the transition from pilot scale through to full production is as smooth as possible.

Single use systems
Disposable systems can eliminate cleaning validation, reduce capital costs, minimize health & safety risks and lower the chance of product contamination. Single-use systems also provide a more convenient way of processing a product.

Close working relationships
Parker domnick hunter have partnered engineering companies on large scale projects around the world that require filtration expertise and dedicated technical support.

Committed to process improvement
Direct access to our teams from new product development, laboratory services, technical support, manufacturing and quality provide the right solution delivered to you on time, every time.

Our goal is to continually improve your productivity, reduce your process costs and ensure the safety of your final product. Our Technical Support Group (TSG) made up from a multidisciplinary team of Scientists and Engineers working directly with your team to define your process needs and produce optimized solutions.

8 | 9
Single Cartridge Housings
K size to 40" cartridges and Demi A & B size

HSA - Sanitary air / gas housing
High specification air housing

HBA - Beverage air / gas housing
Specifically designed for the food & beverage industry

HSV - Vent housing
Flow efficient, self supportive sanitary housing

HSL - Sanitary liquid housing
Food, beverage & pharmaceutical finishes available

HSI - In-line sanitary liquid housing
Food, beverage & pharmaceutical finishes available

HIL - Industrial air / liquid housing
Ideal for water treatment & chemical applications

ZVP - Industrial plastic housing

‘H’ Series Product Structure

STANDARD
PLUS

• Basic specification
• Lower cost
• Ex-stock factory
  (in the absence of abnormal demand)

• Improved specification options
  - Surface finish
  - Connections
  - Vents
  - Drains
  - Gaskets / seals
  - Short lead times

See product information for details.

PLUS Classifications
CE  Standard Design - 10 barg
HP  Higher Pressure - 16 barg
OX  Oxygen Service
AT  ATEX (Atmospheres explosive)
Single Cartridge Housings
K size to 40” cartridges and Demi A & B size

- Particulate and micro-organism removal from compressed air and nitrogen when in contact with final product
- Top pressure to tanks / drying lines / drying process
- Vents
- Steam
- Industrial biotechnology
- Ophthalmics

- Air / CO2 / nitrogen used for injection
- Top pressure to water or beer
- Compressed air to blow dry and clean bottles or cans prior to filling
- Steam
- Prefiltration

- Food & beverage applications
- Clarification, stabilization and sterilization remove of sub 1 micron particles or microorganisms
- Industrial biotechnology
- Micro-electronics
- Ophthalmics

- Industrial or food & beverage tank vents
- Water for injection (WFI) tanks
- Ophthalmics

- Bulk chemical
- Removal of particulate contamination
- Solvents
- Water treatment
- Prefiltration
- API manufacture
- Food & beverage clarification and prefiltration

‘H’ Series Product - Singles & Demis

- Sterile Air / Gas
- Beverage Air / Gas
- Sanitary Liquid
- Sanitary Vent
- Industrial Liquid

T-Port
In-Line
HSI
HSA
HBA
HSIL
HSL
HSVLP
HSV DH
HSL
HSA
HBA
HSL
HSLP
HIL
HSA Filter Housing

- sanitary air / gas

**Specifications**

**STANDARD Range**
- **Materials of Construction**
  - Housing: 316L Stainless Steel
  - Seals: Silicone FDA
  - Clamps: 304 Stainless Steel

- **Surface Finish**
  - Internal: Polished 0.25 µm Ra (10 µIn Ra)
  - External: Polished 0.4 µm Ra (16 µIn Ra) and Electropolished

**PLUS Range**
- **Materials of Construction**
  - Housing: 316L Stainless Steel
  - Seals: PTFE FDA, Viton FDA
  - Clamps: 304 Stainless Steel

- **Surface Finish**
  - Sanitary Finish: Internal: Polished 0.6 µm Ra (24 µIn Ra), External: Polished 0.25 µm Ra (10 µIn Ra)
  - Sanitary Electropolished Finish: Internal: Polished 0.6 µm Ra (24 µIn Ra) and External: Polished 0.25 µm Ra (10 µIn Ra)

**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 No 2001

**Oxygen Service**
- Working Condition PED 97/23/EC
- Maximum Pressure: 70 barg (101.95 psig)
- Note: All housings are fully vacuum rated.

**Flow efficient sanitary range of air / gas housings**
- Designed specifically for the pharmaceutical industry
- Sanitary tri-clamp body closure
- STANDARD product - Sanitary connections and surface finish
- PLUS product - Available in 4 different vessel classes: Standard (CE), ATEX, High Pressure and Oxygen Service
- Sanitary and sanitary electropolished surface finishes available
- Choice of gasket and seal materials

**Weidig**
- All assembly welds are full penetration. All welds are receivce and undercut free.

**Certification**
- Supplied as standard with vessel inspection certificate

**Material Test Certification**
- EN10204 3.1 supplied upon request.

**Sanitary Electropolished Finish**
- Designed specifically for the pharmaceutical industry
- Flow efficient sanitary range of air / gas connections
- Sanitary connection and surface finish
- PLUS product - Available in 4 different vessel classes: Standard (CE), ATEX, High Pressure and Oxygen Service
- Sanitary and sanitary electropolished surface finishes available
- Choice of gasket and seal materials

**Note:** All housings are fully vacuum rated.
**Physical Characteristics**

<table>
<thead>
<tr>
<th>Weight Range</th>
<th>A (in)</th>
<th>B (in)</th>
<th>C (in)</th>
<th>Typical Weight</th>
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<tbody>
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<td></td>
<td>1.5 Kg (3.3 lbs)</td>
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<tr>
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<td>125</td>
<td>5</td>
<td></td>
<td>2 Kg (4.4 lbs)</td>
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Dimensions shown are based on the STANDARD range. For accurate dimensions, please contact Parker domnick hunter.

**Bowl Height**

<table>
<thead>
<tr>
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**Dimensions**

**Height**

**Heat**

**Outlet Port**

**Gauge Port**

**Inlet / Outlet Port**

**Body Seal**

**Body Clamp**

**Drain Port**

**Head**

**Example: Showing Demi A Size with 1’ connections**

The PLUS product range is available with many options of connections, vents, drains, surface finish, seals classification, etc. Please see product coding.
Demi HSA® Z Style Filter Housing

- sanitary air / gas

- Flow efficient range of air / gas housings
- Available in 4 different housing classes: Standard (CE), ATEX, High Pressure & Oxygen Service
- Sanitary and sanitary electropolished surface finishes available
- A choice of connections, vents, drains, gaskets & surface finishes available
- Parker domnick hunter ‘Z’ location

(PLUS product only - no STANDARD range)

### Specification

#### Materials of Construction
- **Housing**: 316L Stainless Steel
- **Body Seal**: EPDM FDA
- **PTFE FDA**: Silicone FDA
- **Valve FDA**: PTFE FDA
- **Vent / Drain Seal**: PTFE FDA

#### Welding
- All assembly welds are full penetration. All welds are crevice and undercut free. Internal & external welds available upon request.

#### Design Code
- **Sanitary** Internal: Polished 0.1 µm Ra (4 µIn Ra)
  - External: Polished 0.25 µm Ra (10 µIn Ra)
- **Sanitary Electropolished** Internal: Polished 0.1 µm Ra (4 µIn Ra)
  - and Electropolished
  - External: Polished 0.25 µm Ra (10 µIn Ra)

#### Surface Finish Options
- **Sanitary** External: Polished 0.25 µm Ra (10 µIn Ra)
  - and Electropolished

#### Sanitary Electropolished
- **Surface Finish Internal**
  - Polished 0.4 µm Ra (16 µIn Ra)
- **Surface Finish External**
  - Polished 0.25 µm Ra (10 µIn Ra)
  - Sanitary
  - Electropolished

- **Housing**: 316L Stainless Steel
- **Vent / Drain Seal**: PTFE FDA
- **Body Clamp**: EPDM FDA

- **Vent / Drain Seal**
  - PTFE FDA

- **Body Clamp**
  - Sanitary Electropolished
  - Sanitary

- **Sanitary**
  - Sanitary electropolished surface finishes available

- **Atex**, **High Pressure & Oxygen Service**
- **Fluid Group**
  - Gas / Vapour
    - **Working Condition PED 97/23/EC**
      - **ATX**
        - Oxygen Service
      - **HP**
        - High Pressure
      - **OX**
        - Oxygen Service
  - **Working Condition PED 97/23/EC**
    - **CE**
      - Standard
    - **ATEX**
    - **High Pressure**
    - **Oxygen Service**

#### CE Conformity Assessment Category
- **Working Condition PED 97/23/EC**
  - **Oxygen Service**
  - **High Pressure**
  - **CE Standard**
  - **ATEX**

#### Dimensions are based on illustration shown.

#### Ordering Information

- **Code**
  - **HSA** 01

- **Code | Standard**
  - **ATEX**
  - **High Pressure**
  - **Oxygen Service**

- **Code | Cartridge**
  - **P**
  - **Sanitary Electropolished 0.4 µm (16 µIn Ra)**
  - **EPDM FDA**

- **Note**: All housings are fully vacuum rated.

For more detailed information on our range of industrial air / gas filter housings, please contact Parker domnick hunter’s Process Filtration Sales Department for detailed information and advice on a product’s suitability for specific applications. All products are sold subject to the company’s Standard Conditions of Sale.

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Contact Information:

- **Parker domnick hunter**
  - Tel: +44 (0)191 4105121
  - Fax: +44 (0)191 4105122
  - Email: dhprocess@parker.com
  - Website: www.parker.com/processfiltration
### Specification

**STANDARD Range**
- **Materials of Construction**
  - **Housing**: 316L Stainless Steel
  - **Body Seals**: Viton FDA, EPDM FDA, PTFE FDA
  - **Clamps**: 304 Stainless Steel

**PLUS Range**
- **Materials of Construction**
  - **Housing**: 316L Stainless Steel
  - **Body Seals**: Viton FDA, EPDM FDA, PTFE FDA
  - **Clamps**: 304 Stainless Steel

**Surface Finish**
- **Standard Surface Finish**
  - **Internal**: As Welded
  - **External**: Polished 0.8 µm Ra (32 µIn Ra)

### 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° 2031).
- PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

### Design Basis
- ASME VIII Division 1.

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

### Certification
- **Material Test Certification**
  - EN10204 3.1 supplied upon request.
- **Welding**
  - All welds are crevice and undercut free.
  - All assembly welds are full penetration.

### Pressure Drop
- Designed specifically for the food & beverage and sanitary process industries
  - Standard, sanitary and sanitary electropolished surface finishes available
  - A number of inlet / outlet port connections
  - Wide range of vent and drain connections

### Temperature
- **STANDARD Range**
  - 150 °C (302 °F)
  - 205 °C (401 °F)

### Maximum Pressure
- **STANDARD Range**
  - 0.75 0.5 2.5 3.7 5.6 7.5 9.4

### HBA Filter Housings
- **air / gas filtration**

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Note: All housings are fully vacuum rated.
Membrane Filters
HIGH FLOW TETPOR II

Food and Beverage sterile air / particulate free filtration
Sterile Air / ISO 8573.1:2001 - Class 1 Particulate Removal

Full retention of bacteria, viruses and particulate. Based on membrane technology. Retention correlated to a liquid bacterial challenge (ASTM 383-05) as well as bacterial and viral aerosol challenge. Used for the most critical of applications including medical, pharmaceutical / aseptic packaging and electronics.

<table>
<thead>
<tr>
<th>Filter Type</th>
<th>Port Size</th>
<th>Nm³/hr</th>
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<td>20</td>
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<td>51</td>
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<td>HBA01K</td>
<td>1¨</td>
<td>153</td>
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<td>HBA011</td>
<td>1 1/2¨</td>
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<td></td>
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<td>456</td>
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Flow rate @ 7 barg (100 psig) 20°C (68 °F) Initial Dp 100 mbar (1.4 psi)

**HIGH FLOW TETPOR II**

- Sterile Membrane Filters - ZHFT
- Proven depth filter technology and pleated construction to provide retention down to 0.01 micron in gas.

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<tr>
<td>HBA01A</td>
<td>3/4¨</td>
<td>200</td>
<td>117</td>
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<td>HBA01K</td>
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<td>137</td>
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<td>HBA012</td>
<td>2¨</td>
<td>1150</td>
<td>672</td>
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Depth Filters
HIGH FLOW BIO-X

Proven depth filter technology and pleated construction to provide retention down to 0.01 micron in gas.

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<th>cfm</th>
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Flow Correction Factors

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<td>7</td>
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Depth Filters
HIGH FLOW BIO-X

Proven depth filter technology and pleated construction to provide retention down to 0.01 micron in gas.

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<tr>
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<td>3/8¨</td>
<td>110</td>
<td>66</td>
</tr>
<tr>
<td>HBA01A</td>
<td>1/2¨</td>
<td>150</td>
<td>88</td>
</tr>
<tr>
<td>HBA01A</td>
<td>3/4¨</td>
<td>200</td>
<td>117</td>
</tr>
<tr>
<td>HBA01K</td>
<td>1¨</td>
<td>230</td>
<td>137</td>
</tr>
<tr>
<td>HBA011</td>
<td>1 1/2¨</td>
<td>516</td>
<td>326</td>
</tr>
<tr>
<td>HBA012</td>
<td>2¨</td>
<td>1150</td>
<td>672</td>
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Flow Correction Factors

<table>
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<th>Line Pressure</th>
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<td>1</td>
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<tr>
<td>2</td>
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<td>3</td>
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<td>1.25</td>
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<td>5</td>
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<td>6</td>
<td>1.25</td>
</tr>
<tr>
<td>7</td>
<td>1.25</td>
</tr>
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Physical Characteristics

- High Flow Tetoport II
- Sterile Membrane Filters - ZHFT
- High Flow Bio-X
- Sterile Depth Filters - ZCHB

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

- Filter housing and cartridge performance.
- Flow and pressure drop (Dp) correlations.
- Flow correction factors.
- Modularity with many options of connections, vents, drains, surface finish, seals classification, etc. Please see product coding.

- Physical characteristics.

- Bowl height.
- Dimensions (mm): A, B, C.
- Typical weight.

Example: Showing Demi A Size with 1¨ BSPP connections.
**STANDARD Range - K to 20”**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td></td>
<td>5 (125 mm)</td>
<td>D</td>
<td>SMS 2” = 51 OD x 1.2 THK</td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>10 (250 mm)</td>
<td>G</td>
<td>ANSI RF 300.</td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
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<tr>
<td></td>
<td>20 (500 mm)</td>
<td>D</td>
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<td>EPDM</td>
<td>NPT</td>
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</tr>
<tr>
<td></td>
<td>30 (750 mm)</td>
<td>G</td>
<td>ANSI RF 300.</td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
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**STANDARD Range - Demi A & B**

<table>
<thead>
<tr>
<th>Code</th>
<th>Vessel Class</th>
<th>Code</th>
<th>Connection</th>
<th>Code</th>
<th>Thread</th>
<th>Code</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B 2 1/2¨ (65 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 40¨ (1000 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 30¨ (750 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K 5¨ (125 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
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</table>

**PLUS Range - K to 40”**

<table>
<thead>
<tr>
<th>Code</th>
<th>Vessel Class</th>
<th>Code</th>
<th>Connection</th>
<th>Code</th>
<th>Thread</th>
<th>Code</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B 2 1/2¨ (65 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 40¨ (1000 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 30¨ (750 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K 5¨ (125 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
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</tbody>
</table>

**PLUS Range - Demi A & B**

<table>
<thead>
<tr>
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<th>Vessel Class</th>
<th>Code</th>
<th>Connection</th>
<th>Code</th>
<th>Thread</th>
<th>Code</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B 2 1/2¨ (65 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 40¨ (1000 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 30¨ (750 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>K 5¨ (125 mm)</td>
<td></td>
<td></td>
<td>N</td>
<td>EPDM</td>
<td>NPT</td>
<td></td>
</tr>
</tbody>
</table>

**Specification**

**STANDARD Range**

- **Materials of Construction**
  - Easy assembly and maintenance
  - Specifications: STAINLESS STEEL 304L
  - Surface Finish: Internal: Pickled & Passivated, External: Pickled & Passivated
  - Welding: All assembly welds are full penetration

**PLUS Range**

- **Materials of Construction**
  - Sanitary Electropolished Finish
  - Surface Finish: Internal: Sanitary Electropolished, External: Pickled & Passivated
  - Welding: All assembly welds are full penetration

**Recommended Operation**

- **Guidelines Sizing**
  - Sizing vent vessels particularly for vacuum sensitive tanks can require specialist advice. It is important that VENT housings are sized on maximum gas flow capacity under actual operation conditions.

**Vacuum Protection**

- Direct connection to tank boss allows housing to be self-supportive
- Plus assembly and maintenance
- Standard surface finish & tri-clamp connection
- Plus product
  - Available as STANDARD or for Atex applications
  - Standard, sanitary and sanitary electropolished surface finishes available
  - Connection choices

(Also see HSVLP (L-Port) Datasheet)
The PLUS product range is available with many options of connections, vents, drains, surface finish, seals classification, etc. Please see product coding.

### Physical Characteristics

<table>
<thead>
<tr>
<th>Bowl Height</th>
<th>Dimensions (mm)</th>
<th>Typical Height</th>
<th>Typical Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Size 125 mm</td>
<td>125 mm (5&quot;)</td>
<td>250 mm (10&quot;)</td>
<td>1.0 Kg (2.2lbs)</td>
</tr>
<tr>
<td>B Size 65 mm</td>
<td>75 mm (2.9&quot;)</td>
<td>140 mm (5.5&quot;)</td>
<td>0.9 Kg (1.9lbs)</td>
</tr>
<tr>
<td></td>
<td>132 mm (5.2&quot;)</td>
<td>242 mm (9.5&quot;)</td>
<td>2.2 Kg (4.8 lbs)</td>
</tr>
<tr>
<td></td>
<td>132 mm (5.2&quot;)</td>
<td>392 mm (15.4&quot;)</td>
<td>2.8 Kg (6.1 lbs)</td>
</tr>
<tr>
<td></td>
<td>132 mm (5.2&quot;)</td>
<td>642 mm (25.3&quot;)</td>
<td>3.8 Kg (8.3 lbs)</td>
</tr>
<tr>
<td></td>
<td>132 mm (5.2&quot;)</td>
<td>890 mm (35.0&quot;)</td>
<td>4.8 Kg (10.6 lbs)</td>
</tr>
<tr>
<td></td>
<td>132 mm (5.2&quot;)</td>
<td>1138 mm (44.8&quot;)</td>
<td>5.8 Kg (12.8 lbs)</td>
</tr>
</tbody>
</table>

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

Note: All housings are fully vacuum rated.
HSVLP Filter Housings

- L configuration vent

Specifications

Materials of Construction

- Housing: 316L Stainless Steel
- Seals: EPDM FDA
  PTFE FDA
  Silicone FDA
  Viton FDA
  Note: Seal used only to position bowl clamp arrangement.
- Clamps: 304 Stainless Steel

Surface Finish

- Standard Finish
  Internal: As Welded
  External: Polished 0.8 µm Ra (32 µIn Ra)
- Sanitary Finish
  Internal: Polished 0.4 µm Ra (16 µIn Ra)
  External: Polished 0.25 µm Ra (10 µIn Ra)
- Sanitary Electropolished Finish
  Internal: Polished 0.4 µm Ra (16 µIn Ra)
  External: Polished 0.25 µm Ra (10 µIn Ra)

Welding

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

Ordering Information

- HSVLP
  01   | 150 mm (6")   | 01   | BS 150/151 Pipe | 01   | T 1/4" & Hex Nipple | 01   | Rectus 1521-1016 1/4" TEE Clamp | 241016 | 241016 | 241016 | 241016 | 241016 | 241016 |

- Tags
  - Yes
  - No

Note: All housings are fully vacuum rated.
Specifications

**STANDARD Range**
- **Materials of Construction**
  - Housing: 316L Stainless Steel
  - Seals: Viton FDA
  - Clamps: 304 Stainless Steel
- **Surface Finish**
  - Internal: Polished 0.4 µm Ra (16 µIn Ra) and Electropolished
  - External: Polished 0.25 µm Ra (10 µIn Ra)

**PLUS Range**
- **Materials of Construction**
  - Housing: 316L Stainless Steel
  - Seals: Silicone FDA
  - Clamps: 304 Stainless Steel
  - Seals: Silicone FDA

**Sanitary Finish**
- **Materials**
  - Housing: 316L Stainless Steel
  - Seals: Silicone FDA
  - Clamps: 304 Stainless Steel
  - Seals: Silicone FDA

**Weighing**
All assembly welds are full penetration. All welds are crevice and undercut free. All welds are父/row or weld are available for inspection.

**Certificate**
Supplied as standard with vessel inspection certificates.

**Material Test Certification**
EN1092-3.1 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) and PED Conformity Assessment Category.
Physical Characteristics

<table>
<thead>
<tr>
<th>Bowl Height</th>
<th>B Size</th>
<th>A Size</th>
<th>1000 mm</th>
<th>750 mm</th>
<th>500 mm</th>
<th>250 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 mm (5&quot;)</td>
<td>156 mm (6.1&quot;)</td>
<td>156 mm (6.1&quot;)</td>
<td>1160 mm (45.7&quot;)</td>
<td>1057 mm (41.6&quot;)</td>
<td>912 mm (35.9&quot;)</td>
<td>809 mm (31.8&quot;)</td>
</tr>
<tr>
<td>125 mm (5&quot;)</td>
<td>117 mm (4.6&quot;)</td>
<td>117 mm (4.6&quot;)</td>
<td>667 mm (26.3&quot;)</td>
<td>561 mm (22.1&quot;)</td>
<td>667 mm (26.3&quot;)</td>
<td>561 mm (22.1&quot;)</td>
</tr>
</tbody>
</table>

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

HSL Filter Housings

STANDARD Range - 10" to 30"

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Connection Size</th>
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<tbody>
<tr>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
</tr>
</tbody>
</table>

Note: No drain(s) as standard.

HSL Filter Housings

STANDARD Range - Demi A & B

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Connection Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
</tr>
</tbody>
</table>

Note: No drain(s) as standard.

HSL Filter Housings

PLUS Range - K to 40"

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Connection Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
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</tbody>
</table>

Note: No drain(s) as standard.

HSL Filter Housings

PLUS Range - Demi A & B

<table>
<thead>
<tr>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Inlet Port</th>
<th>Code</th>
<th>Connection Size</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
<td>01</td>
<td>1 1/2&quot; TCF Only</td>
</tr>
</tbody>
</table>

Note: No drain(s) as standard.

DS_HS_50_01/11_2A
In-line sanitary liquid & gas

- Designed specifically for the food and beverage and pharmaceutical industry
- Sanitary tri-clamp body closure as standard
- **STANDARD product**
  - Sanitary surface finish
  - Tri-clamp connections
- **PLUS product**
  - Available in 3 different vessel classes: Standard (CE), Atex & High Pressure
  - Sanitary or sanitary electropolished surface finish options
  - Wide range of vent and drain connections
- Choice of gasket and seal materials

---

**Specifications**

**Materials of Construction**
- Surface Finish
  - PLUS Range
    - Housing: 316L Stainless Steel
    - Seals: Silicone FDA
    - Clamps: 316L Stainless Steel
  - Standard Range
    - Housing: 316L Stainless Steel
    - Seals: EPDM FDA, PTFE FDA, Silicone FDA, Viton FDA
    - Clamps: 316L Stainless Steel

**Weaving**
- 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.
- Weld finish & detail drawings available upon request.

**Design Code**
- PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

**Design Basis**
- ASME VIII Division 1.

---

**Plus Range**

<table>
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<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Temperature</th>
<th>Temperature</th>
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</table>

Physical Characteristics

<table>
<thead>
<tr>
<th>Bowl Height</th>
<th>Diameter (Inlet)</th>
<th>Height (Inlet)</th>
<th>Typical Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Size 125 mm (5&quot;)</td>
<td>63.5 mm (2.5&quot;)</td>
<td>101.6 mm (4&quot;)</td>
<td>1.0 Kg (2.2lbs)</td>
</tr>
<tr>
<td>B Size 65 mm (2.5&quot;)</td>
<td>63.5 mm (2.5&quot;)</td>
<td>101.6 mm (4&quot;)</td>
<td>0.8 Kg (1.8lbs)</td>
</tr>
<tr>
<td>C Size 250 mm (10&quot;)</td>
<td>63.5 mm (2.5&quot;)</td>
<td>101.6 mm (4&quot;)</td>
<td>3.6 Kg (8.0lbs)</td>
</tr>
<tr>
<td>D Size 500 mm (20&quot;)</td>
<td>63.5 mm (2.5&quot;)</td>
<td>101.6 mm (4&quot;)</td>
<td>4.5 Kg (9.9lbs)</td>
</tr>
<tr>
<td>E Size 750 mm (30&quot;)</td>
<td>63.5 mm (2.5&quot;)</td>
<td>101.6 mm (4&quot;)</td>
<td>5.6 Kg (12.3lbs)</td>
</tr>
</tbody>
</table>

**Example:** Showing Demi A Size with 1" connections

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

Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to make alterations to products without prior notice, the publication of this product information is intended only as a guide to help potential customers select the most suitable equipment for their purposes. Detailed specifications and technical information are available on request to the nearest Parker domnick hunter office.
**HIL Filter Housings**

- **Industrial liquid housing for prefiltration and clarification duties**
- **STANDARD product**
  - BSP (G) or NPT connections and standard finish
- **PLUS product**
  - Available in 3 different vessel classes: Standard (CE), ATEX & High Pressure
  - A number of inlet / outlet port connections
  - Choice of BSP, NPT or no vent
  - Choice of BSP or NPT drain
  - Option of C (224) location and fabricated (not cast) head

### Specification

**STANDARD Range**
- **Materials of Construction**
  - **Housing**: Cast Head - Stainless Steel
  - **Bowl**: 316L Stainless Steel
  - **Seals**: EPDM FDA
  - **Clamps**: 304 Stainless Steel

- **Surface Finish**
  - **Internal**: As Welded
  - **External**: Polished 0.8 µm Ra (32 µIn Ra)

**PLUS Range**
- **Additional Materials of Construction**
  - **Housing**: Cast Head - Stainless Steel
  - **Bowl**: 316L Stainless Steel
  - **Seals**: EPDM FDA
  - **PTFE FDA
  - Silicone FDA
  - Viton FDA

- **Surface Finish**
  - **Standard Finish**: Head - Cast, Pickled & Passivated
    - Bowl Internal: As Welded
    - Bowl External: Polished 0.8 µm Ra (32 µIn Ra)
  - **Electropolished Finish**: Head - Cast, Pickled & Passivated
    - Bowl Internal: Electropolished
    - Bowl External: Polished 0.8 µm Ra (32 µIn Ra)

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

**Certification**
- **Standard Finish**: Head - Cast, Pickled & Passivated
- **Electropolished Finish**: Head - Cast, Pickled & Passivated
- Bowl Internal: Electropolished
- Bowl External: Polished 0.8 µm Ra (32 µIn Ra)

**Design Code**
- PED / PER conformity assessments based on Fluid Group 2 Gas (harmless) including steam.
- Only housings over PS.V 50 bar / litres bear the CE mark.

**ASME VIII Division 1.**

### Design Basis

- **Industrial liquid housing for prefiltration and clarification duties**
- **STANDARD product**
  - BSP (G) or NPT connections and standard finish
- **PLUS product**
  - Available in 3 different vessel classes: Standard (CE), ATEX & High Pressure
  - Standard and electropolished surface finishes available
  - A number of inlet / outlet port connections
  - Choice of BSP, NPT or no vent
  - Choice of BSP or NPT drain
  - Option of C (224) location and fabricated (not cast) head

### Working Condition PED 97/23/EC

#### Non Dangerous

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>011</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>012</td>
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<td>013</td>
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<tr>
<td></td>
<td></td>
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<td>014</td>
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</table>

#### Dangerous

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>011</td>
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<td></td>
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<td>013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>014</td>
</tr>
</tbody>
</table>

#### Pressure ( barg )

<table>
<thead>
<tr>
<th>Volume (litres)</th>
<th>011</th>
<th>012</th>
<th>013</th>
<th>014</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3.2</td>
<td>5.1</td>
<td>7.0</td>
<td>8.9</td>
</tr>
</tbody>
</table>

#### ATEX Working Condition PED 97/23/EC

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Maximum Pressure</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>014</td>
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</tbody>
</table>

#### Non Dangerous

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<td>013</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>014</td>
</tr>
</tbody>
</table>

#### Dangerous

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
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<td></td>
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<td>013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>014</td>
</tr>
</tbody>
</table>

#### Pressure ( barg )

<table>
<thead>
<tr>
<th>Volume (litres)</th>
<th>011</th>
<th>012</th>
<th>013</th>
<th>014</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.2</td>
<td>5.1</td>
<td>7.0</td>
<td>8.9</td>
</tr>
</tbody>
</table>

### Note:

- All housings are fully vacuum rated.

---

**Note:** All housings are fully vacuum rated.
**Physical Characteristics**

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

### HIL Filter Housings

#### Dimensions (mm)

<table>
<thead>
<tr>
<th>Bowl Height</th>
<th>øA</th>
<th>øB</th>
<th>øC</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 mm</td>
<td>101.6</td>
<td>250</td>
<td>441</td>
</tr>
<tr>
<td>500 mm</td>
<td>156</td>
<td>500</td>
<td>936</td>
</tr>
<tr>
<td>750 mm</td>
<td>176</td>
<td>750</td>
<td>1217</td>
</tr>
</tbody>
</table>

#### Important Note:

As shown on the coding chart above, the HIL is also available with an option 'C' (226) location. This design incorporates a machined, not cast, head and swept bend connections, as shown in the diagram.

---

**STANDARD Range - 10¨ to 30¨**

<table>
<thead>
<tr>
<th>Code</th>
<th>Vessel Class</th>
<th>Connection Size</th>
<th>Cartridge</th>
<th>Tagged</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIL</td>
<td>CE Standard</td>
<td>1¨ (25.4 mm)</td>
<td>DOE</td>
<td>No</td>
</tr>
</tbody>
</table>

**PLUS Range - 10¨ to 40¨**

<table>
<thead>
<tr>
<th>Code</th>
<th>Vessel Class</th>
<th>Connection Size</th>
<th>Cartridge</th>
<th>Tagged</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIL</td>
<td>CE Standard</td>
<td>1¨ (25.4 mm)</td>
<td>DOE</td>
<td>No</td>
</tr>
</tbody>
</table>

---

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

**HIL Filter Housings**

- **Bowl Height**: 250 mm (10¨), 500 mm (20¨), 750 mm (30¨), 1000 mm (40¨)
- **Typical Weight**: 1.5 Kg (3.3 lbs), 2.5 Kg (5.5 lbs), 3.5 Kg (7.7 lbs)
- **Dimensions**: øA øB øC
- **Example**: Showing 10¨ Size with 1¨ connections

---

**Important Notes**:

As shown on the coding chart above, the HIL is also available with an option ‘C’ SDN location. This design incorporates a machined, not cast, head and swept bend connections, as shown in the diagram.
Demi HIF Filter Housing

- Industrial gas and liquid housing with 2" location
- STANDARD product
  - Available in 2 different vessel classes: Standard (CE), Atex, and High Pressure
  - Standard and electropolished surface finishes available
  - A number of inlet / outlet port connections
  - Choice BSP(G) or NPT vent and drains

### Specification

**STANDARD Range**

- **Materials of Construction**
  - Housing: Cast Head - Stainless Steel
  - Bowl - 316L Stainless Steel
  - Body Seal: EPDM FDA
  - Vent / Drain Seal: PTFE FDA
  - Clamps: 304 Stainless Steel

- **Surface Finish**
  - Internal: Unpolished 1 µm Typical
  - External: Polished 0.8 µm Ra (32 µIn Ra)
  - All finishes pickled & passivated.

- **Plus Range**
  - **Materials of Construction**
    - Housing: Cast Head - Stainless Steel
    - Bowl - 316L Stainless Steel
    - Body Seal: EPDM FDA
    - Vent / Drain Seal: PTFE FDA
    - Silicone FDA
    - Viton FDA
    - Clamps: 304 Stainless Steel
  - **Surface Finish Options**
    - Standard Finish
    - Head-Cast: Pickled & Passivated
    - Bowl Internal: Acid-Wepted
    - Bowl External: Polished 0.8 µm Ra (32 µIn Ra)
    - Standard Electropolished Finish
    - Head-Cast: Pickled, Passivated & Electropolished
    - Bowl Internal: Electropolished
    - Bowl External: Polished 0.8 µm Ra (32 µIn Ra)

### Weiding

All assembly welds are full penetration. All welds are crevice and undercut free.

### Certification

Supplied as standard with vessel inspection certificate.

### Material Test Certification

EN10204 3.1 supplied upon request.

### Design Code


### Design Basis

ASME VIII Division 1.

### Working Condition PED 97/23/EC

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Standard</th>
<th>Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous</td>
<td>Liquid / Gas</td>
<td>150 °C (302 °F)</td>
<td>10.00 barg (145.03 psig)</td>
<td>10.00 barg (145.03 psig)</td>
</tr>
<tr>
<td>Dangerous</td>
<td></td>
<td></td>
<td>SEP SEP</td>
<td>0.75 0.50</td>
</tr>
<tr>
<td>Non Dangerous</td>
<td>Gas / Vapour &amp; Liquid</td>
<td>135 °C (275 °F)</td>
<td>10.00 barg (145.03 psig)</td>
<td>10.00 barg (145.03 psig)</td>
</tr>
<tr>
<td>Dangerous</td>
<td></td>
<td></td>
<td>SEP SEP</td>
<td>0.75 0.50</td>
</tr>
</tbody>
</table>

### CE Working Condition PED 97/23/EC

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Standard</th>
<th>Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous</td>
<td>Liquid / Gas</td>
<td>150 °C (302 °F)</td>
<td>10.00 barg (145.03 psig)</td>
<td>10.00 barg (145.03 psig)</td>
</tr>
<tr>
<td>Dangerous</td>
<td></td>
<td></td>
<td>SEP SEP</td>
<td>0.75 0.50</td>
</tr>
<tr>
<td>Non Dangerous</td>
<td>Gas / Vapour &amp; Liquid</td>
<td>150 °C (302 °F)</td>
<td>10.00 barg (145.03 psig)</td>
<td>10.00 barg (145.03 psig)</td>
</tr>
<tr>
<td>Dangerous</td>
<td></td>
<td></td>
<td>SEP SEP</td>
<td>0.75 0.50</td>
</tr>
</tbody>
</table>

### High Pressure Working Condition PED 97/23/EC

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Standard</th>
<th>Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous</td>
<td>Liquid / Gas</td>
<td>205 °C (401 °F)</td>
<td>16.00 barg (232.06 psig)</td>
<td>16.00 barg (232.06 psig)</td>
</tr>
<tr>
<td>Dangerous</td>
<td></td>
<td></td>
<td>SEP SEP</td>
<td>0.75 0.50</td>
</tr>
</tbody>
</table>

Note: All housings are fully vacuum rated.
Physical Characteristics

<table>
<thead>
<tr>
<th>Bowl Height</th>
<th>'A'</th>
<th>'B'</th>
<th>'C'</th>
<th>Typical Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: 125 mm (5&quot;&quot;)</td>
<td>1.5 Kg (3.3lbs)</td>
<td>1.4 Kg (3.0lbs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B: 65 mm (2.5&quot;&quot;)</td>
<td>1.4 Kg (3.0lbs)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example: Showing Demi A Size with 1/2" 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 - Demi A & B

<table>
<thead>
<tr>
<th></th>
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</tbody>
</table>

PLUS Range - Demi A & B

<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to make alterations to the above specifications for improvement, all customers are advised to consult the company’s process filtration sales department for detailed information and advice on a product’s suitability for specific applications. All products are sold subject to the company’s Standard conditions of sale.
ZVP Housings

- Single cartridge polypropylene / nylon housing
- Accepts DOE filters with knife edge sealing
- Accepts plug-in cartridges with positive o-ring seals
- Meets water conditioning foundation standards for hydraulic leak test and ultimate burst pressure
- Cost-effective filtration of liquids for pharmaceutical, chemical and beverage applications

Available Options

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Design Pressure</th>
<th>Cartridge* Location</th>
<th>Design Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZVP-1</td>
<td>Reinforced Polypropylene</td>
<td>8.6</td>
<td>B &amp; N</td>
<td>51.7 °C (125.0 °F)</td>
</tr>
<tr>
<td>ZVP-2</td>
<td>Reinforced Polypropylene</td>
<td>8.6</td>
<td>B &amp; N</td>
<td>51.7 °C (125.0 °F)</td>
</tr>
<tr>
<td>ZVP-3</td>
<td>Polycarbonate / Reinforced Polypropylene</td>
<td>8.6</td>
<td>B &amp; N</td>
<td>51.7 °C (125.0 °F)</td>
</tr>
<tr>
<td>ZVP-6</td>
<td>Nylon</td>
<td>8.6</td>
<td>B &amp; N</td>
<td>71.1 °C (160.0 °F)</td>
</tr>
<tr>
<td>ZVP-9</td>
<td>Reinforced Polypropylene</td>
<td>8.6</td>
<td>N</td>
<td>51.7 °C (125.0 °F)</td>
</tr>
<tr>
<td>ZVP-7</td>
<td>Reinforced Polypropylene</td>
<td>8.6</td>
<td>J</td>
<td>51.7 °C (125.0 °F)</td>
</tr>
<tr>
<td>ZVP-10</td>
<td>Reinforced Polypropylene</td>
<td>8.6</td>
<td>J</td>
<td>51.7 °C (125.0 °F)</td>
</tr>
<tr>
<td>ZVP-11</td>
<td>Pure Polypropylene</td>
<td>8.9</td>
<td>J</td>
<td>38.9 °C (102.0 °F)</td>
</tr>
</tbody>
</table>

* BSPP vent and drain sockets with o-rings and plugs

Design Pressure (barg): 8.9 = B (51.7 °C (125.0 °F))
Design Pressure (barg): 8.5 = B & N (71.1 °C (160.0 °F))
Design Pressure (barg): 8.6 = N (51.7 °F (125.0 °F))
Design Pressure (barg): 8.6 = J (38.9 °C (102.0 °F))

Parker Domnick Hunter has a continuous policy of product development and although the Company reserves the right to make changes in its products without notice, it always endeavours to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a product’s suitability for specific applications. All products are sold subject to the Company’s Standard Conditions of Sale.
Enhanced Plus Single Housings
K size to 30" cartridges

- HCA Enhanced PLUS - Alloy 22 gas housing
  For aggressive solvents & acids

- HCL Enhanced PLUS - Alloy 22 liquid housing
  For aggressive solvents & acids

- HPG Enhanced PLUS - high pressure air / gas housing
  For high pressure air / gas applications
**HCA Enhanced Plus Filter Housing**

- Alloy 22 gas housings

**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
  - ASME VIII Division 1
  - EN13445 (2000) Type B
  - 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.

**ATEX**
- Working Conditions PED 97/23/EC
-working conditions PED 97/23/EC

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>Maximum Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous</td>
<td>Liquid</td>
<td>160 °C (320 °F)</td>
<td>10.00 barg (145.03 psig)</td>
</tr>
<tr>
<td>Dangerous</td>
<td>Gas</td>
<td>155 °C (313 °F)</td>
<td>10.00 barg (145.03 psig)</td>
</tr>
<tr>
<td>PED Conformity Assessment Category</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>PED Conformity Assessment Category</td>
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<td>PED Conformity Assessment Category</td>
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<td>PED Conformity Assessment Category</td>
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</tr>
<tr>
<td>PED Conformity Assessment Category</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
</tbody>
</table>

**Physical Characteristics**

- **HCA Enhanced Plus Filter Housings**
- **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

**Ordering Information**

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>K</td>
<td>5¨ (125 mm)</td>
<td>01</td>
<td>1 1/2¨ (48.26 mm)</td>
<td>01</td>
<td>BSPP</td>
<td>01</td>
<td>Tri-Clamp</td>
<td>01</td>
<td>EPDM</td>
<td>01</td>
<td>NPT</td>
<td>01</td>
<td>-</td>
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<tr>
<td>02</td>
<td>C22</td>
<td>10¨ (250 mm)</td>
<td>02</td>
<td>2¨ (50.80 mm)</td>
<td>02</td>
<td>ANSI</td>
<td>02</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>03</td>
<td>226</td>
<td>20¨ (500 mm)</td>
<td>03</td>
<td>1 1/2¨ (48.26 mm)</td>
<td>03</td>
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<td>-</td>
<td>03</td>
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<tr>
<td>04</td>
<td>22</td>
<td>30¨ (750 mm)</td>
<td>04</td>
<td>2¨ (50.80 mm)</td>
<td>04</td>
<td>BS4504</td>
<td>04</td>
<td>-</td>
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</tr>
</tbody>
</table>

**Note:** All housings are fully vacuum rated.
HCL Enhanced Plus Filter Housing

- Alloy 22 liquid housings
- Range of inlet/outlet standard connections
- Designed specifically for aggressive liquids
- Suitable for cartridge types 226, K to 30"
- Wetted parts Alloy 22 - Non wetted parts 304 and 316 stainless steel

Specification

Materials of Construction

- Housing: Alloy 22
- 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

Supplied as standard with vessel inspection certificate.

Design Code


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.

ATEX Working Conditions PED 97/23/EC

<table>
<thead>
<tr>
<th>Group</th>
<th>State</th>
<th>Temperature</th>
<th>01K</th>
<th>011</th>
<th>012</th>
<th>013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous</td>
<td>Liquid / Gas</td>
<td>150 °C (302 °F)</td>
<td>10.00 barg</td>
<td>10.00 barg</td>
<td>10.00 barg</td>
<td>10.00 barg</td>
</tr>
</tbody>
</table>

PED Conformity Assessment Category

- Group A

Note: All housings are fully vacuum rated.

Physical Characteristics

### Ordering Information

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HCL</td>
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<table>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>HCL</td>
<td>02</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: All housings are fully vacuum rated.
**Specification**

**Materials of Construction**
- Housing: 316L Stainless Steel
- Seals: EPDM FDA
- Viton FDA
- Vent/Drain Seals: PTFE FDA

**Surface Finish**
- Standard Internal: Polished 0.25 µm Ra
- Internal: Polished 0.4 µm Ra

**Welding**
- All assembly welds are full penetration.

**Design Code**

**Design Basis**
- ASME VIII Division 1.

**Flow efficient range of housings for sterile filtration higher pressure air and gases**
- Standard, sanitary & sanitary electropolished surface finishes available.
- A number of inlet / outlet port connections available.
- Range of vent and drain options
- Two pressure ratings:
  - 25 barg (363 psig) @ 140 °C (284 °F)
  - 40 barg (580 psig) @ 140 °C (284 °F)
- Typical application PET bottle blowing

**Physical Characteristics**

**Temperature Code**
- 01B 01A 01K 011 012 013

**Temperature**
- SEP SEP CAT I CAT I CAT I CAT I CAT I CAT II

**Pressure**
- 0.5 0.7 2.5 3.5 5.5 7.5

**Specification**

**Materials of Construction**
- Housing: 316L Stainless Steel
- Seals: EPDM FDA
- Viton FDA
- Vent/Drain Seals: PTFE FDA

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**Physical Characteristics**

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**Pressure**
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- Internal: Polished 0.4 µm Ra

**Welding**
- All assembly welds are full penetration.

**Design Code**

**Design Basis**
- ASME VIII Division 1.
Multi Housings

3 to 30 multi round cartridge housings

ZVA - Sanitary range air / gas housing
Specifically designed for the pharmaceutical industry

VSL - Multi-element sanitary liquid housing
Designed specifically for the pharmaceutical industry

VIL - Multi-element industrial liquid housing
General purpose industrial housing

VSH - Multi-element liquid housing
Designed for prefiltration & clarification applications

VIS - High flow steam
Specifically designed for steam filtration
ZVA Housings

- Sanitary range air / gas housing
- Specifically designed for the Pharmaceutical industry
- Laboratory and pilot scale to large industrial applications
- Flow efficient design with low pressure drop
- Steam jacketed and electrically heated options

### Specification

**Materials of Construction**
- Housing: 316L Stainless Steel
- Seals: EPDM

**Surface Finish**
- **Multis - Basic Specification**
  - Internal: Inside of outlet assy and distribution box to be mechanically polished 0.8 µm Ra. Immerses entire vessel to achieve 100% pickle and passivation.
  - External: Grit blast 5 µm Ra mean
- **Multis - Full Specification**
  - Internal: Electropolish 0.6 µm Ra
  - External: Bright Polished 0.4 µm Ra

**Maximum Allowable Working Pressure (MAWP)**
- PS 6 barg (87.0 psig)

**Maximum Allowable Working Temperature (MAWT)**
- 120 °C (248 °F)

**Maximum Allowable Working Pressure Steam**
- 3 barg (43.5 psig) @ 144 °C (291 °F)

**Total Volume (litres)**
- 3 109 0.8 0.8
- 1 019 0.6 0.6
- 2 029 0.6 0.6
- 3 039 0.6 0.6

**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 2 Gas (harmless) including steam. Only housings over PS.V 50 bar / litres bear the CE mark.

**Design Basis**
- ASME VIII Division 1.

**Custom Design**
- Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

### Physical Characteristics

<table>
<thead>
<tr>
<th>Boat</th>
<th>Height</th>
<th>Dimensions (mm)</th>
<th>Typical Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot;</td>
<td>336</td>
<td>794</td>
<td>43.0</td>
</tr>
<tr>
<td>20&quot;</td>
<td>336</td>
<td>1044</td>
<td>47.0</td>
</tr>
<tr>
<td>30&quot;</td>
<td>336</td>
<td>1294</td>
<td>50.0</td>
</tr>
</tbody>
</table>

Note: All housings are fully vacuum rated.

### Ordering Information

#### Code 1: Inlet Class
- 03 3
- 05 5
- 09 9
- 15 15

#### Code 2: Connection Type
- Flanged
- Weld Prepared

#### Code 3: Connection Standard
- ANSI / NPT
- B SPP
- ISO

#### Code 4: Connection Size
- 3"
- 4"
- 6"
- 8"

#### Code 5: Vent / Drain Connect. Type
- B BSPP
- A NPT / ANSI

#### Code 6: Surface Finish
- Economy Spec
- Full Spec

Note: For accessories, i.e. gauges, please contact Parker domnick hunter - Process Division for full availability.

Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to make alterations to its products, we will endeavor to inform customers of any such alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a product’s suitability for specific applications. All products are sold subject to the company’s Standard conditions of sale.

Note: All housings are fully vacuum rated.
**VIS Housings**

- **high flow steam**

### Specification

**Materials of Construction**
- Housing: 316L Stainless Steel
- Seals: EPDM

**Surface Finish**
- **Internal:** Inside of outlet and distribution box to be mechanically mirror polished 0.8 µm Ra. Immerse vessel to achieve 100% pickle and passivation.
- **External:** Grit blast 5 µm Ra mean

**Maximum Allowable Working Pressure**
- (MAWP) PS: 7 barg (101.5 psig)

**Maximum Allowable Working Temperature**
- (MAWT) TS: 170.5 °C (339 °F)

**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 2 Gas (harmless) allowing for in-situ steam sterilisation. Only housings over PS.V bear the CE mark.

**Design Basis**
- ASME VIII Division 1.

### Ordering Information

**VIS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Standard Class</th>
<th>Code</th>
<th>1st of Cartridges</th>
<th>Code</th>
<th>Length</th>
<th>Nominal</th>
<th>Code</th>
<th>Connection Size</th>
<th>Code</th>
<th>Connection Type</th>
</tr>
</thead>
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<tr>
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<td></td>
</tr>
</tbody>
</table>

Note: For accessories, i.e., gauges, please contact Parker domnick hunter - Process Division for full availability.
VSL Housings

- Multi-element sanitary liquid housing
- Designed specifically for the pharmaceutical industry
- Electropolished internal finish

### Specification

**Materials of Construction**
- Housing: 316L Stainless Steel
- Seals: EPDM

**Surface Finish**
- Internal: Electropolished 0.4 µm Ra
- External: Polished 0.25 µm Ra

**Economy Spec**
An economy version is available with a lower specification, external finished to 0.8 µm Ra.

**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 No 2001. PED / PER Conformity assessments based on Fluid Group 2 Gas (harmless) allowing for in-situ steam sterilisation. Only housings over PS.V 50 bar / litres bear the CE mark.

**Design Basis**
ASME VIII.

**Custom Design**
Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

### Physical Characteristics

#### Working Condition PED 97/23/EC

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>1/5 Round</th>
<th>2/5 Round</th>
<th>3/5 Round</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous / Non Dangerous</td>
<td>Condensed</td>
<td>30°C (86°F)</td>
<td>2.0 barg (29.5 psig)</td>
<td>3.0 barg (43.5 psig)</td>
<td>5.0 barg (74.5 psig)</td>
</tr>
<tr>
<td>Non Dangerous / Non Dangerous</td>
<td>True / Pasteur</td>
<td>54°C (129°F)</td>
<td>2.0 barg (29.5 psig)</td>
<td>3.0 barg (43.5 psig)</td>
<td>5.0 barg (74.5 psig)</td>
</tr>
</tbody>
</table>

**PED Conformity Assessment Category**
- CAT I
- CAT II
- CAT II

**Volume (litres)**
- 10.7
- 18.5
- 26.3

**Dimensions (mm) Typical**

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>10¨ (250 mm)</td>
<td>271</td>
<td>493</td>
<td>320</td>
</tr>
<tr>
<td>20¨ (500 mm)</td>
<td>271</td>
<td>743</td>
<td>570</td>
</tr>
<tr>
<td>30¨ (750 mm)</td>
<td>271</td>
<td>993</td>
<td>820</td>
</tr>
</tbody>
</table>

Dimensions shown are for a 3 Round VSL, 2¨ TCF inlet / outlet connections. For the full range of dimensions and weights, please contact Parker domnick hunter - Process Division for full availability.

**Note:** All housings are fully vacuum rated.

### Ordering Information

**VSL**

- Code
- Length (Nominal)
- N° of Cartridges
- Connection Standard
- Seal
- Connection Type

**Code**
- CE Standard
- DN 20
- 18 (1500 mm)
- 20
- Tri-Clamp
- British Standard
- Metric Series

**Code**
- SDP

Note: For accessories, i.e. gauges, please contact Parker domnick hunter - Process Division for full availability.

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VIL Multi Filter Housing

• Multi-element industrial liquid housing
• Laboratory and pilot scale to large industrial applications
• Flow efficient design with low pressure drop

Specification

Materials of Construction

Housing: 316L Stainless Steel
Seals: EPDM

Surface Finish

Internal / External:
- DOE Economy: As fabricated then pickled to remove weld discolouration
- DOE Standard: As fabricated then electropolished
- P-7 (226) o-ring: As fabricated then electropolished

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 No. 2001.

Design Basis

ASME VIII Division 1.

Custom Design

Parker donnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

Physical Characteristics

Ordering Information

Note: All housings are fully vacuum rated.

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Note: For accessories, i.e., gauges, please contact Parker donnick hunter - Process Division for full availability.

Note: * Only applicable for housings with flange connection type

** PTFE seal option requires flanged closure

Note: Dimensions shown are for a 3 Round, DOE 25mm (212) order: other configurations for full range of dimensions and weights, please contact Parker donnick hunter.

Note: All housings are fully vacuum rated.
VSH Multi Housings

- Multi-element sanitary liquid housing
- Designed specifically for the food & beverage industry
- High quality crevice free construction
- Available in 3 to 30 round versions
- Steam sterilizable

**Specification**

**Materials of Construction**
- Housing: 316L Stainless Steel
- Seals: Silicone

**Surface Finish**
- Internal: Mechanically Polished
- External: Mechanically Polished

**Steam Sterilization**
Refer to Parker domnick hunter for individual housing parameters.

**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.

**Custom Design**
Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

**Physical Characteristics**

**Ordering Information**

**Note:** For 12, 18, 24 and 30 Round options, customer system specifications to be met

**Surface Finish**
- Internal: Mechanically Polished  Ra <0.8 µm

**Seals**
- Silicone

**High quality crevice free construction**
Designed specifically for the food & beverage industry

**Multi-element sanitary liquid housing**
VSH Multi Housings

**Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions (mm)</th>
<th>Typical Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>500 x 200 x 300</td>
<td>A: 34.5</td>
</tr>
<tr>
<td>18</td>
<td>500 x 200 x 300</td>
<td>B: 54.5</td>
</tr>
<tr>
<td>24</td>
<td>500 x 200 x 300</td>
<td>C: 74.5</td>
</tr>
<tr>
<td>30</td>
<td>500 x 200 x 300</td>
<td>D: 94.5</td>
</tr>
</tbody>
</table>

**Working Condition PED 97/23/EC**

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>031</th>
<th>032</th>
<th>033</th>
<th>034</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
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<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
</tbody>
</table>

**Maximum Pressure**

<table>
<thead>
<tr>
<th>Volume (mm)</th>
<th>State</th>
<th>Temperature</th>
<th>031</th>
<th>032</th>
<th>033</th>
<th>034</th>
</tr>
</thead>
<tbody>
<tr>
<td>10¨ (250 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
<tr>
<td>20¨ (500 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
<tr>
<td>30¨ (750 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
<tr>
<td>40¨ (1000 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
</tbody>
</table>

**Ordering Information**

VSH

**Code**

- 1: Liquid
- 2: Gas / Vapour

**Code of Material**

- A: Steel
- B: Stainless Steel
- C: Cast Iron
- D: Cast Copper Nickel
- E: Brass
- F: Monel
- G: Aluminum
- H: Titanium
- I: Inconel
- J: Stainless Steel

**Code of Connection Type**

- A: Flanged
- B: Welded
- C: Tri-Clamp
- D: Male
- E: Female

**Code of Connection Standard**

- A: PN 16
- B: PN 25
- C: PN 40
- D: PN 63
- E: PN 100

**Code of Seal**

- A: Viton
- B: EPDM

**Physical Characteristics**

**Working Condition PED 97/23/EC**

<table>
<thead>
<tr>
<th>Fluid Group</th>
<th>State</th>
<th>Temperature</th>
<th>031</th>
<th>032</th>
<th>033</th>
<th>034</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non Dangerous</td>
<td>Liquid</td>
<td>8 - 25°C</td>
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<td>8 - 25°C</td>
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<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
</tbody>
</table>

**Maximum Pressure**

<table>
<thead>
<tr>
<th>Volume (mm)</th>
<th>State</th>
<th>Temperature</th>
<th>031</th>
<th>032</th>
<th>033</th>
<th>034</th>
</tr>
</thead>
<tbody>
<tr>
<td>10¨ (250 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
<tr>
<td>20¨ (500 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
<tr>
<td>30¨ (750 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
<tr>
<td>40¨ (1000 mm)</td>
<td>Liquid</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
<td>8 - 25°C</td>
</tr>
</tbody>
</table>

**Design Basis**

- CE Standard
- PED Conformity Assessment Category

**Surface Finish**
- Internal: Mechanically Polished
- External: Mechanically Polished

**Seals**
- Silicone

**Steam Sterilization**
Refer to Parker domnick hunter for individual housing parameters.

**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.

**Custom Design**
Parker domnick hunter offers a specialist and fabrication service allowing individual customer system specifications to be met.

**Note:**
For 12, 18, 24 and 30 Round options, customer system specifications to be met.
Accessories

Gauges
Industry and product specific options

Valves
Comprehensive range of manual valves

Spares
Replacement parts and accessories

Certificates
Comprehensive range of supporting documentation
Specifications

- Comprehensive range of heating equipment to support the demi and single 'H' range of housings
- Silicone or PTFE / glass silk jacket
- PID (Proportional, Integral, Differential) controller in a polycarbonate housing [available without controller]
- 'Fool Proof' connection of plugs and sockets
- Lower running costs. Approximately 2/3 kw/hr compared to traditional metal jackets
  - Short return on investment

- Blue silicone foam rubber heating hacket with internally meshed heating wires. Open longitudinal slit down the length to slide over a housing.
- Alternative, lower cost, PTFE glass silk heating jacket with velcro fastenings.
- Four standard sizes, A (Demi), K, 10¨, 20¨, 30¨.
- 110 (115) and 230 (240) volts supply, not grounded.
- Protection rating: IP65.
- Design standards: EN 60519-1 & 2.
- Temperature sensor, PT100, built-in with 1m cable.
  - Maximum temperature 200 °C (392 °F).
  - Temperature limiter at 150 °C ± 5°C (302 °F ± 41 °F).
- 1m power cable with plug to controller.
- Silicone heater is moister and weather proof.
- Glass silk heater not moisture and weather proof - for indoor use only.
- To be used with temperature controller.
- Parker domnick hunter logo adhered to silicone heater, sewn on to glass silk heater.
  - Comprehensive Installation, Operation and Maintenance Instructions (IOMI).

ISOPOD temperature controller:
- ON / OFF switch.
- 115 or 230 V live and neutral.
- Maximum ambient temperature 55 °C (131 °F).
- Set temperature display: 8mm red led.
- Actual temperature display: 10mm green led.
- Protection rating: IP65.
- Design standards: EN61010-1.
- 1m power cable.
- Volt free output for an alarm.
  - Comprehensive Installation, Operation and Maintenance Instructions (IOMI).
- PID Control
  - SSR Output (12V)
  - Alarm relay (2.4A)
  - Auto tuning
  - PT100 sensor

Physical Characteristics

<table>
<thead>
<tr>
<th>Housing</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>K</td>
<td>150</td>
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<td>90</td>
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</tr>
<tr>
<td>190</td>
<td>191</td>
<td>250</td>
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</tr>
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Ordering Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Material</th>
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<td>XBH</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Length (Nominal)</th>
<th>Code</th>
<th>Supply Voltage</th>
<th>Code</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5¨</td>
<td></td>
<td>110V 110 Volts</td>
<td></td>
<td>NC No Controller</td>
</tr>
<tr>
<td></td>
<td>10¨</td>
<td></td>
<td>230V 230 Volts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>XBHXT2M</td>
<td>2m Power &amp; Signal Cable Extension</td>
</tr>
</tbody>
</table>

Note: Heaters require a power cable for your supply.

Parker domnick hunter also offer an economy range of metal heaters. Please contact Parker domnick hunter for further information.
Parker dornick hunter provide a comprehensive range of pressure gauges to support their standard air / gas and liquid housings.

<table>
<thead>
<tr>
<th>Type</th>
<th>Connection</th>
<th>Pressure / Temperature</th>
<th>Ordering Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold stainless steel</td>
<td>1/4&quot; NPT</td>
<td>0 - 10 barg / 150 °C (302 °F)</td>
<td>XPGSS03BS15</td>
</tr>
<tr>
<td>Gold stainless steel</td>
<td>1/2&quot; NPT</td>
<td>0 - 10 barg / 150 °C (302 °F)</td>
<td>XPGSS03BS12</td>
</tr>
<tr>
<td>Gold stainless steel</td>
<td>3/4&quot; NPT</td>
<td>0 - 10 barg / 150 °C (302 °F)</td>
<td>XPGSS03BS11</td>
</tr>
<tr>
<td>Gold stainless steel</td>
<td>1&quot; NPT</td>
<td>0 - 10 barg / 150 °C (302 °F)</td>
<td>XPGSS03BS10</td>
</tr>
</tbody>
</table>

Sanitary gauge manifold with double sanitary valves and sight glass for beverage applications. Stainless steel ball valve.

Ordering Code: XPGSS03BS15

Parker dornick hunter have a continuous policy of product development and although the Company reserves the right to make alterations, customers are informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a product's suitability for specific applications. All products are sold subject to the company's Standard Conditions of Sale.

Parker dornick hunter provide a comprehensive range of manual valves to support their standard air / gas and liquid housings.

<table>
<thead>
<tr>
<th>Type</th>
<th>Connection</th>
<th>Pressure / Temperature</th>
<th>Ordering Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial 1 Piece Ball Valve</td>
<td>1/4&quot; NPT</td>
<td>0 - 16 barg</td>
<td>XPGSS03BS15</td>
</tr>
<tr>
<td>2 Piece Ball Valve</td>
<td>1/4&quot; BSP</td>
<td>0 - 10 barg</td>
<td>XPGSS03BS12</td>
</tr>
</tbody>
</table>

Stainless steel butterfly valve with silicone seals and polymer handle.

Ordering Code: XPGSS03BS15

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Before design services are also available for customized projects to ensure customer specifications are met. Services are delivered locally by our global network of qualified service engineers.

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Hydrogen, nitrogen, argon & air gas generators from Parker domnick hunter provide a comprehensive range of spare parts to support their standard gas supply. Allowing customers to select the ideal gas for their application.

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Hypertall, maintains productivity and maximizes costs, as well as easy conformity to regulations on water quality topics like is the perfect solution to industrial chilled water needs.

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At Parker, we’re guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion or control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker.

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