316L Stainless Steel Filters

Custom-built, high specification, simple and easy to maintain
Filtration levels from 5 micron up to 6000 micron

Axium Process manufactures a comprehensive range of 316L stainless steel filters which can be fabricated to customer requirements, are of a robust construction and are easy and simple to maintain.
Axium Process manufactures a comprehensive range of 316L stainless steel filters that includes wedge-wire and sintered mesh elements designed for filtration levels from 5 micron up to 6000 micron as standard.

- 90°, Straight-through, In-line options
- Standard and Compact options
- Full range of interchangeable filter elements
- End connections to suit customer requirements
- Flow direction out-to-in / in-to-out
- Easy maintenance – no tools required for cleaning or access
- Suitable for backflushing, CIP (clean-in-place), SIP (steam-in-place)
- Stand-alone, duplex, triplex, multiplex, large capacity and jacketed options available

CERTIFICATION
Our filter range is manufactured in accordance with ASME-BPE principles and has material traceability to BS EN 10204 (3.1). The following certification can also be supplied if required:

- Material Certification
- Weld maps and logs
- Weld procedures
- Internal and external surface roughness
- Pressure test
- Passivation
- Ferroxyl test

CUSTOMISED FILTERS
We specialise in bespoke fabrication and our filters can be fabricated to suit customer requirements

- Stand-alone complete with framework, duplex, triplex, multiplex options
- Jacketed
- High capacity 6” body design
- Filter elements to customer specification (wedge-wire, sintered mesh, perforated sheet)
- End connections to suit customer requirements

COMPACT FILTERS
FOR CONFINED SPACES
Our popular compact wedge wire and sintered mesh screen filters are widely used across a broad range of industries for applications where space is of a premium or where flow rates of up to 20,000 litres per hour (based on pure water) are required.
Pure Screen 100 Series – Wedge Wire Filter
Filtration levels from 25 micron up to 6000 micron

This robust and versatile wedge-wire filter range is designed for applications where the highest quality has been specified, where filter failure or collapse is not an option or where product smoothness and consistency is essential.

- 316L stainless steel 4”OD housing
- 90°, Straight-through, In-line options
- No internal ‘O’ ring
- Interchangeable wedge wire screens
- 316 stainless steel safety clamp closure
- End connections to suit customer requirements
- Stand-alone, duplex, triplex, multiplex, large capacity and jacketed options
- Filters can be fabricated to customer specification

Fine Screen 100 Series – Sintered Mesh Filter
Filtration levels from 5 micron up to 200 micron

The Fine-Screen sintered mesh filter range offers excellent strength and rigidity and is specifically designed for fine particulate applications below 200 micron such as those associated with water, pharmaceutical, food, beverage and chemical industries.

- 316L stainless steel 4”OD housing
- 90°, Straight-through, In-line options
- Interchangeable sintered mesh screens
- Internal ‘O’ ring
- End connections to suit customer requirements
- 316 stainless steel Safety Clamp closure
**FILTER RANGE TECHNICAL DATA**

**PURE SCREEN 100 SERIES WEDGE WIRE FILTER 316L Stainless Steel Contact Parts**

<table>
<thead>
<tr>
<th>LINE SIZE</th>
<th>90° STANDARD</th>
<th>90° COMPACT</th>
<th>IN-LINE STANDARD</th>
<th>IN-LINE COMPACT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5&quot;</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>A</td>
<td>314</td>
<td>314</td>
<td>314</td>
<td>141</td>
</tr>
<tr>
<td>B</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>C</td>
<td>490</td>
<td>490</td>
<td>490</td>
<td>276</td>
</tr>
</tbody>
</table>

**FINISH**

- **FLOW RATES (BASED ON PURE WATER)**
  - 0.8µm Ra external / 0.4µm Ra Internal, bead-blasted, mirror and electropolished options available

**OPERATING TEMPERATURE / PRESSURE**

- Up to 250°C dependent upon cap seal material
- Up to 10 bar operating pressure / 5 bar backflushing pressure

**CAP SEAL**

- Viton® as standard, EPDM, Silicone, encapsulated or solid PTFE options available

**MICRON RATINGS**

- 25, 50, 100, 200, 500, 1000, 2000, 5000, 6000 (nominal)

**END CONNECTION**

- Clamp / Plain-ended ex-stock (RJT, IDF, DIN, SMS, BSP and Flanged options available)

**NOW AVAILABLE:** 10 micron Wedge Wire screen with ‘O’ ring seal

---

**FINE SCREEN 100 SERIES SINTERED MESH FILTER 316L Stainless Steel Contact Parts**

<table>
<thead>
<tr>
<th>LINE SIZE</th>
<th>90° STANDARD</th>
<th>90° COMPACT</th>
<th>IN-LINE STANDARD</th>
<th>IN-LINE COMPACT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5&quot;</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>A</td>
<td>314</td>
<td>314</td>
<td>314</td>
<td>141</td>
</tr>
<tr>
<td>B</td>
<td>56</td>
<td>56</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>C</td>
<td>490</td>
<td>490</td>
<td>490</td>
<td>276</td>
</tr>
</tbody>
</table>

**FINISH**

- **FLOW RATES (BASED ON PURE WATER)**
  - Satin external / 0.4µm Ra internal, bead-blasted and electropolished options available

**OPERATING TEMPERATURE / PRESSURE**

- Up to 250°C dependent upon cap seal material
- Up to 10 bar operating pressure / 5 bar backflushing pressure

**CAP SEAL**

- Cap and Base Seal: Viton® as standard, EPDM, Silicone, encapsulated or solid PTFE options available

**MICRON RATINGS**

- 5, 10, 20, 40, 75, 150, 200 (nominal)

**END CONNECTION**

- Clamp / Plain-ended ex-stock (RJT, IDF, DIN, SMS, BSP and Flanged options available)

**NOW AVAILABLE:** 10 micron Wedge Wire screen with ‘O’ ring seal

---

**www.axiumprocess.com**

Hendy Industrial Estate, Hendy, Swansea SA4 0XP UK
Phone: +44 (0)1792 883882
Fax: +44 (0)1792 886049
Email: info@axiumprocess.com

Axium Process Ltd; Company registered in England & Wales No.: 4432600; VAT registration: 793 7784 59

© 2015 Axium Process Ltd; Ref: FIL04-01
Viton® is a registered trademark of DuPont Dow Elastomers

---

020715_axium_ssfiltersbrochure_a4_4pp_RewK.indd 4
03/12/2015 15:43