



## 316L Stainless Steel Filters

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

Axiom 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.





# Stainless Steel Filter Range

Axiom 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.

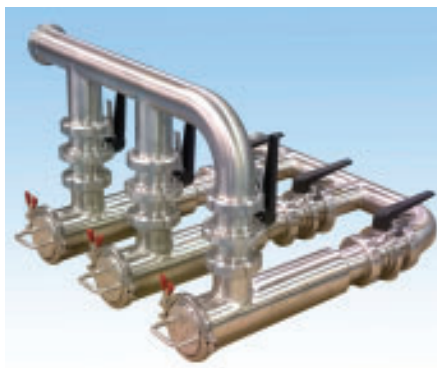
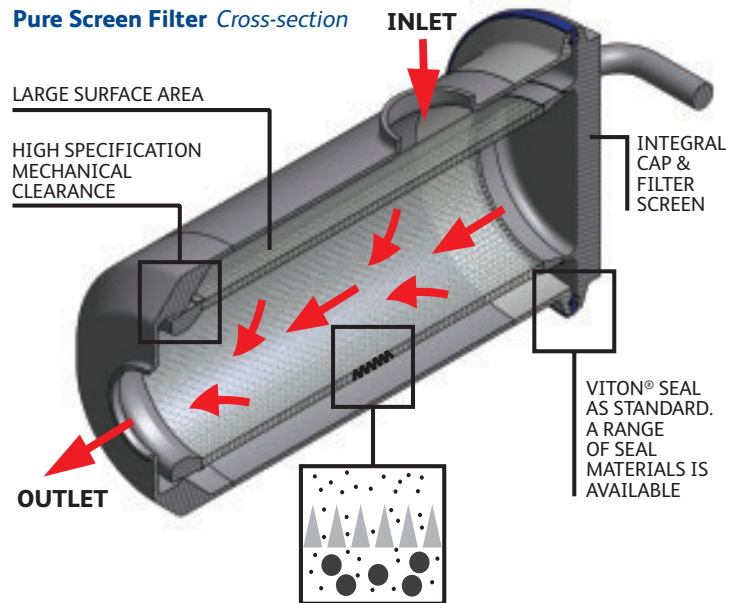


## Pure Screen 100 Series – Wedge Wire Filter

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

Full technical data sheets are available from our website.

All data is provided in good faith and subject to change.

PURE SCREEN 100 SERIES WEDGE WIRE FILTER 316L Stainless Steel Contact Parts													
LINE SIZE	90° STANDARD			90° COMPACT			IN-LINE STANDARD			IN-LINE COMPACT			
	1.5"	2"	3"	1"	1.5"	2"	1.5"	2"	3"	1"	1.5"	2"	
PLAIN ENDED (mm)	A	314	314	314	141	141	141	396	418	488	207	229	263
	B	56	56	56	56	56	56	210	211	225	176	179	187
	C	490	490	490	276	276	276	490	498	536	274	284	302
FINISH	FLOW RATES (BASED ON PURE WATER) *depending on size, loading and pressure drop			OPERATING TEMPERATURE / PRESSURE			CAP SEAL			MICRON RATINGS		END CONNECTION	
0.8µm Ra external / 0.4µm Ra Internal. Bead-blasted, mirror and electropolished options available	<b>STANDARD</b> Typically 40,000 litres/hr* at 1 Bar ΔP			Up to 250°C dependent upon cap seal material			Viton® as standard; EPDM, Silicone, encapsulated or solid PTFE options available			25, 50, 100, 250, 500, 1000, 2000, 3000, 6000 (nominal)		Clamp / Plain-ended ex-stock (RJT, IDF, DIN, SMS, BSP and Flanged options available)	
	<b>COMPACT</b> Typically 20,000 litres/hr* at 1 Bar ΔP			Up to 10 bar operating pressure / 5 bar backflushing pressure									

FINE SCREEN 100 SERIES SINTERED MESH FILTER 316L Stainless Steel Contact Parts													
LINE SIZE	90° STANDARD			90° COMPACT			IN-LINE STANDARD			IN-LINE COMPACT			
	1.5"	2"	3"	1"	1.5"	2"	1.5"	2"	3"	1"	1.5"	2"	
PLAIN ENDED (mm)	A	314	314	314	141	141	141	396	418	488	229	264	263
	B	56	56	56	56	56	56	210	211	225	176	179	187
	C	490	490	490	276	276	276	490	498	536	274	284	302
FINISH	FLOW RATES (BASED ON PURE WATER) *depending on size, loading and pressure drop			OPERATING TEMPERATURE / PRESSURE			CAP SEAL			MICRON RATINGS		END CONNECTION	
Satin External / 0.4µm Ra internal. Bead-blasted and electropolished options available	<b>STANDARD</b> Typically 20,000 litres/hr* at 1 Bar ΔP			Up to 250°C dependent upon cap seal material			Cap and Base Seal: Viton® as standard; EPDM, Silicone, encapsulated or solid PTFE options available			5, 10, 20, 40, 75, 150, 200 (nominal)		Clamp / Plain-ended ex-stock (RJT, IDF, DIN, SMS, BSP and Flanged options available)	
	<b>COMPACT</b> Typically 10,000 litres/hr* at 1 Bar ΔP			Up to 10 bar operating pressure / 5 bar backflushing pressure (5-75µm)									
				Up to 10 bar operating pressure / 2 bar backflushing pressure (100-200µm)									

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



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