



316L Stainless Steel Filters

**Dependable, high specification,
simple and easy to maintain**



PHARMACEUTICAL • FOOD • BEVERAGE • BREWING • DAIRY • CHEMICAL • CONFECTIONERY • COSMETICS • TOILETRIES

5µm to 50µm – Sintered Mesh Filter

Fine Screen 100 Series

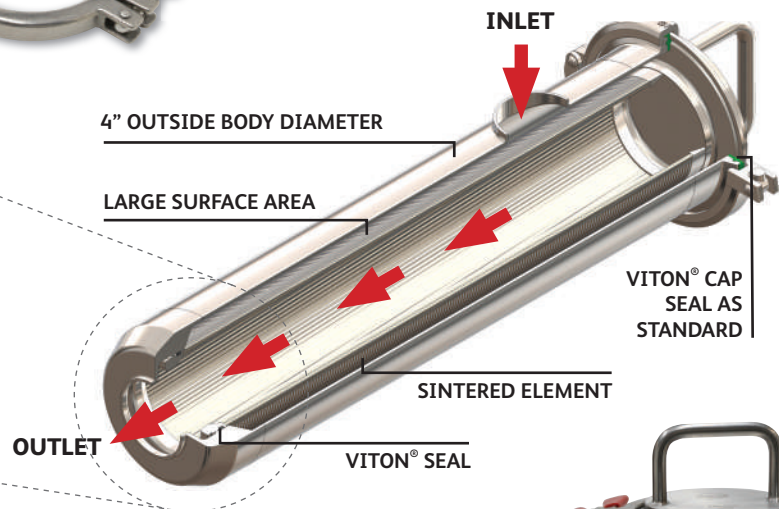
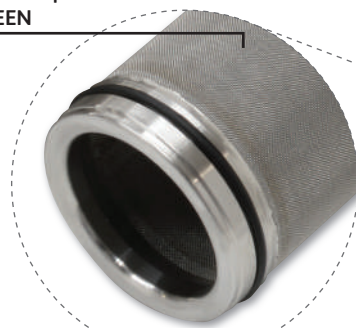
Designed for micro levels of filtration, the Fine-Screen 316L Stainless Steel Filter is suitable for very high security applications. The sintered mesh construction is ideal for high and low temperature processes and is typically used in the pharmaceutical, food and beverage industries for the removal of suspended solids, micro-flakes, fibres and for glass contamination prevention. From 5µm to 50µm (nominal).



FEATURES

- 316L Stainless Steel 4" OD housing as standard
- 5 layer sintered mesh screen as standard
- Robust stable structure, no media migration
- 90° and in-line housing options as standard (straight-through option available upon request)
- Internal Viton® 'O' ring as standard
- Replacement/interchangeable screens
- Suitable for backflushing
- Clean-In-Place (CIP) and Steam-In-Place (SIP) capability
- 316 Stainless Steel Safety Clamp as standard

5µm to 50µm
SCREEN



TECHNICAL DATA

MATERIAL	316L Stainless Steel contact parts
STANDARD FINISH	Satin (external) 0.8 / 0.4µm Ra (internal) OTHER OPTIONS ARE AVAILABLE
FLOW RATES	Up to 20,000 l/hr based on pure water
FLOW DIRECTION	Out-to-in / in-to-out EITHER DIRECTION AVAILABLE
PRESSURES	Up to 10 bar operating pressure
OPERATING TEMPERATURE	Up to 250°C, dependent upon cap seal material
CAP SEAL	Viton® as standard EPDM, SILICONE, NITRILE, ENCAPSULATED OR SOLID PTFE OPTIONS AVAILABLE
INTERNAL 'O' RING SEAL	Viton® as standard OTHER OPTIONS ARE AVAILABLE
STANDARD MICRON RATINGS	5, 10, 25, 50µm (nominal) OTHER SIZES ARE AVAILABLE
END CONNECTION	Clamp / plain-ended ex-stock RJT, IDF, DIN, SMS, BSP AND FLANGED OPTIONS ARE AVAILABLE
STANDARD CONNECTION SIZES	1.5, 2, 2.5, 3" OTHER SIZES ARE AVAILABLE
CLAMP CLOSURE	316 Stainless Steel safety clamp fitted as standard to enhance plant safety
NOTES	Flow rate will depend on filter size, debris loading and pressure drop



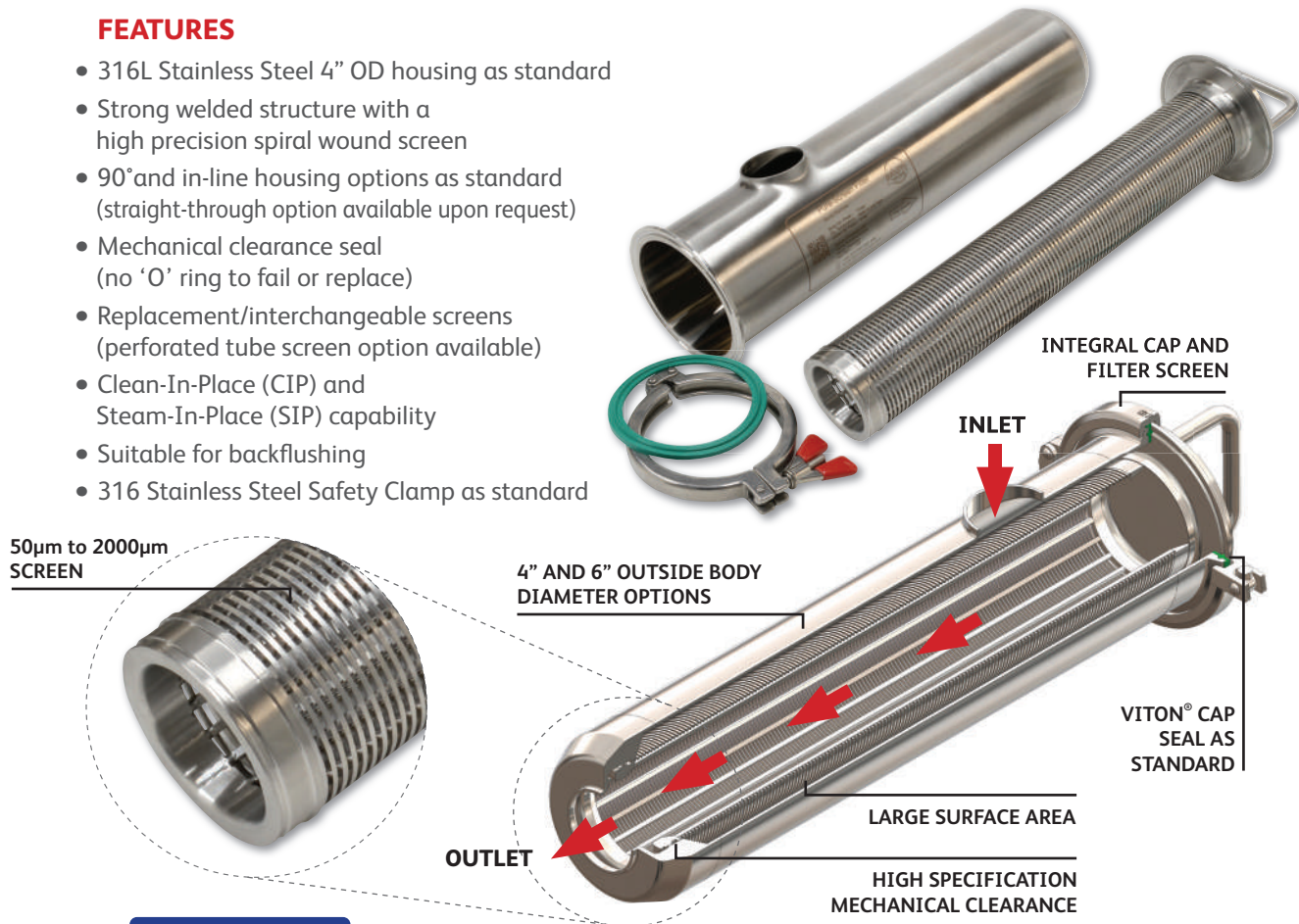
50µm to 2000µm – Wedge Wire Filter

Pure Screen 100 Series

Designed for maximum strength and consistent performance with excellent flow characteristics, the Pure Screen 316L Stainless Steel Filter is suited to a wide range of hygienic process applications. The wedge wire construction is ideal for separating solids and particles such as grits, and seeds, while simultaneously breaking down and dispersing agglomerates. This robust and versatile filter range reliably delivers a smooth consistently filtered product. From 50µm to 2,000µm (nominal).

FEATURES

- 316L Stainless Steel 4" OD housing as standard
- Strong welded structure with a high precision spiral wound screen
- 90° and in-line housing options as standard (straight-through option available upon request)
- Mechanical clearance seal (no 'O' ring to fail or replace)
- Replacement/interchangeable screens (perforated tube screen option available)
- Clean-In-Place (CIP) and Steam-In-Place (SIP) capability
- Suitable for backflushing
- 316 Stainless Steel Safety Clamp as standard



TECHNICAL DATA

MATERIAL	316L Stainless Steel contact parts
STANDARD FINISH	Satin (external) 0.8 / 0.4µm Ra (internal) OPTIONS AVAILABLE
FLOW RATES	Up to 40,000 l/hr based on pure water
FLOW DIRECTION	Out-to-in / in-to-out EITHER DIRECTION AVAILABLE
PRESSURES	Up to 10 bar operating pressure
OPERATING TEMPERATURE	Up to 250°C, dependent upon cap seal material
CAP SEAL	Viton® as standard EPDM, SILICONE, NITRILE, ENCAPSULATED OR SOLID PTFE OPTIONS AVAILABLE
STANDARD MICRON RATINGS	50, 100, 250, 500, 1000, 2000µm (nominal) OTHER SIZES ARE AVAILABLE
END CONNECTION	Clamp / plain-ended ex-stock RJT, IDF, DIN, SMS, BSP AND FLANGED AVAILABLE
STANDARD CONNECTION SIZES	1.5, 2, 2.5, 3" OTHER SIZES ARE AVAILABLE
CLAMP CLOSURE	316 Stainless Steel safety clamp fitted as standard
NOTES	Flow rate will depend on filter size, debris loading and pressure drop



**6" (150MM)
OD OPTION
AVAILABLE**

2mm to 8mm – Perforated Tube Filter

EconPlus

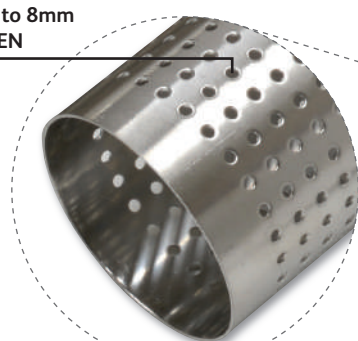
Designed for general purpose filtration, the EconPlus 316L Stainless Steel Filter is suited to coarse filtration. The perforated tube construction is robust and ideal for high or low temperature process security duties, separating larger particles from liquid streams. From 2mm to 8mm (nominal).



FEATURES

- 316L Stainless Steel, 4" OD housing as standard
- 90° and in-line housing options
- Mechanical clearance seal (no 'O' ring to fail or replace)
- Replacement/interchangeable screens
- Clean-In-Place (CIP) and Steam-In-Place (SIP) capability
- Suitable for backflushing
- No loose parts
- 304 Stainless Steel Clamp as standard

2mm to 8mm
SCREEN



INLET / OUTLET

316 SAFETY CLAMP
OPTION AVAILABLE

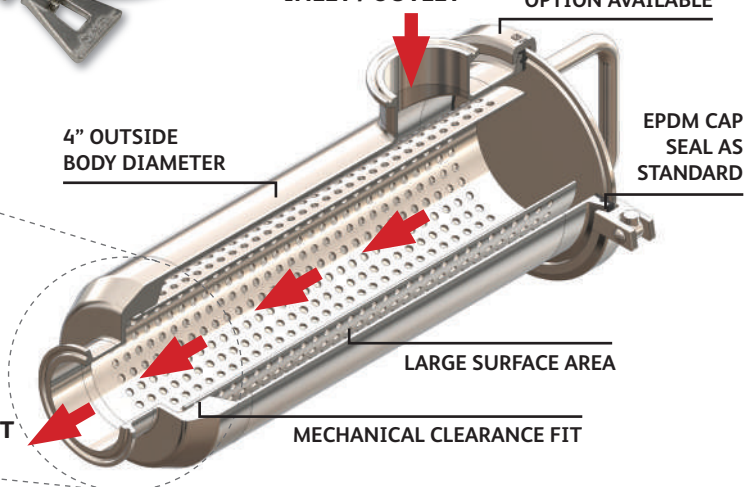
4" OUTSIDE
BODY DIAMETER

EPDM CAP
SEAL AS
STANDARD

LARGE SURFACE AREA

INLET / OUTLET

MECHANICAL CLEARANCE FIT



TECHNICAL DATA

MATERIAL	316L Stainless Steel contact parts
STANDARD FINISH	Dull polish. Welds pickled and brushed as standard
FLOW RATES	Up to 40,000 l/hr based on pure water
FLOW DIRECTION	Out-to-in / in-to-out
PRESSURES	Up to 10 bar operating pressure
OPERATING TEMPERATURE	Up to 250°C, dependent upon cap seal material
CAP SEAL	Viton® as standard EPDM, SILICONE, NITRILE, ENCAPSULATED OR SOLID PTFE OPTIONS AVAILABLE
STANDARD SCREEN RATINGS	2, 3, 4, 5, 6, 8mm (nominal)
END CONNECTION	Supplied plain-ended as standard CLAMP, RJT, IDF, DIN, SMS, BSP AND FLANGED AVAILABLE
STANDARD CONNECTION SIZES	1.5, 2, 2.5, 3" OTHER SIZES ARE AVAILABLE
CLAMP CLOSURE	304 Stainless Steel clamp and wing nut fitted as standard 316 STAINLESS STEEL SAFETY CLAMP AND WING NUT OPTION AVAILABLE
NOTES	Flow rate will depend on filter size, debris loading and pressure drop



**END
CONNECTIONS
TO SUIT
CUSTOMER
REQUIREMENTS**

Customise Your Filter



Filters can be fabricated to suit customer requirements

- Stand-alone, duplex, triplex, multiplex
- Large capacity 6" (150mm) body design option available
- Compact option for confined spaces
- Jacketed option for product heating or cooling
- Filter elements to custom specifications

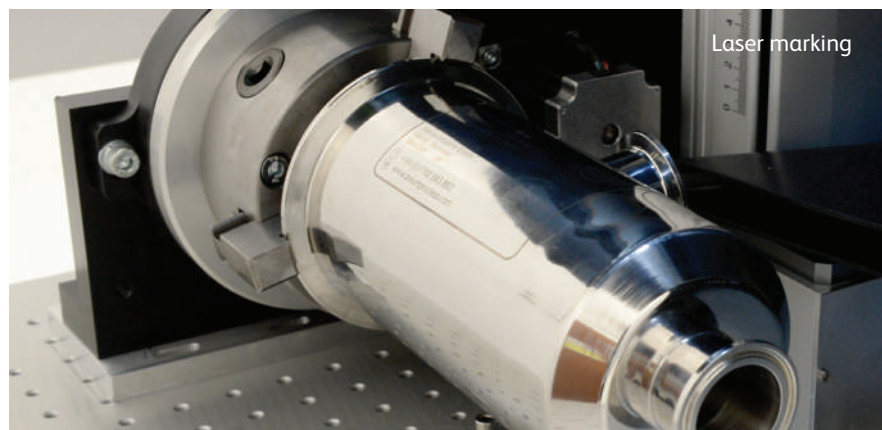
Wedge Wire & Sintered Mesh Compact Options

Our popular compact wedge wire and sintered mesh filters are widely used across a broad range of industries for applications where space is of a premium or where lower flow rates are required.



Full Traceability Options

- Material Certification
- Weld maps and logs
- Weld procedures
- Internal & external surface roughness
- Pressure test
- Passivation
- Ferroxy test
- TSE Certification



Easy Maintenance – No Tools Required for Cleaning or Access

Routine cleaning of the filter element can be done simply by removing the element from the housing after it has been isolated from the system. Alternatively the filter can be cleaned-in-place (CIP) or periodically backflushed.



316L Stainless Steel Filter Range

When product security and process protection is essential, Axiom's range of filters provide the dependability, ease of use and simple maintenance that is required. Outstanding quality is at the forefront of our design.



THIS VERSATILE AND RELIABLE FILTER RANGE IS WIDELY USED ACROSS MULTIPLE SECTORS

BEVERAGE	Soft drinks, tea, concentrates, fruit juices (removes unwanted seeds, small stones or fibres from juices).
BREWING	Beer, cider, wine (pre-fermentation).
CHEMICAL	Varnishes, detergents, solvents, oil based coatings, paints/resins (prevents polymerised glue, paint or resin from getting into fresh streams).
CIP SOLUTIONS	Debris capture (ensures no debris is transmitted from one batch of product to another).
CONFECTIONERY	Sweet production, sugars, coca butter, chocolate mass (removes metals or other particles from the dense chocolate mass, while being able to allow through the fully melted viscous chocolate itself).
COSMETICS	Soaps, creams, shampoos, emulsions, essences.
DAIRY	Yoghurt, butter, soft cheese, milk processing, powder mixing (homogenising powders into suspensions).
FOOD	Fats, sugars, flavourings, syrups, cooking oils, egg mass, molasses.
INDUSTRIAL	Oils, greases, reclaimed oils, degreasing solutions.
PHARMACEUTICAL	Fermentation broths, antibiotics, creams, gels, toothpaste.
PRE-FILTERS FOR PUMPS	Prevents metal particles or parts from damaging pumps or other rotating machinery.



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