

HYGIENIC STAINLESS STEEL FILTERS

Memtech



Memtech's 316L stainless steel filters are designed to remove suspended solids from fluids with particular application to the Food, Dairy, Brewing, Beverage, Pharmaceutical and Chemical industries. Their robust wedge wire elements are fully interchangeable and are available in standard micron elements from 10 to 1000. The units can be backwashed for cleaning which gives high security against breakthrough.

Features

- > **3" (76.2mm) 316L stainless steel body**
- > **Sanitary design finish**
- > **No O-ring seal**
- > **High flow rates attainable**
- > **Can be cleaned and sterilized in place (CIP and SIP)**
- > **Ease of maintenance, no tools required**

Options

- > **In-line or 90° inlet and outlet ports**
- > **Inlet/outlet pressure gauges**
- > **Specific micron ratings such as 150 and 3000**
- > **Free-standing structures**
- > **Duplex, triplex and jacket options to order.**

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In-Line

Allow 400mm to extract element

HYGIENIC FILTERS						
Inlet/Outlet (Inches)	Dimensions (mm)				Product Code	
	A	B	C	D	In-Line	90 Deg
1	319	175	410	266	857-525	856-525
1.5	378	175	410	301	857-538	856-538
2	397	175	410	301	857-551	856-551

90 Degree

MICRON RATINGS		
Micron	Size	Element Code
10	0.010mm equivalent to 1250 mesh	854-5XX-010
25	0.025mm equivalent to 400 mesh	854-5XX-025
50	0.05mm equivalent to 300 mesh	854-5XX-050
100	0.10mm equivalent to 150 mesh	854-5XX-100
250	0.25mm equivalent to 60 mesh	854-5XX-250
500	0.5mm equivalent to 30 mesh	854-5XX-500
1000	1.0mm equivalent to 15 mesh	854-5XX-1000

FILTER FREE AREA		
Micron	cm ²	in ²
10	3.77	0.58
25	9.42	1.46
50	18.85	2.92
100	37.70	5.84
250	75.40	11.69
500	143.27	22.21
1000	188.52	29.22

End Connections

1", 1 1/2" and 2" Plain Ended or any combination of RJT, IDF, Clamp, Flange, SMS, BSP, DIN

Flow Rates

Full technical datasheets are available for each filter type, connection size and micron rating.

Flow rate example based on flow of clean water at 25 °C through a 2" connection size Hygienic Filter

A 10 micron rated filter gives a flow of 10m³/hr with a differential pressure of 0.45 bar

A 250 micron rated filter gives a flow of 12m³/hr with a differential pressure of 0.1 bar

Materials of Construction

Filter Housing: 316L stainless steel
 End Connections: 316 or 316L depending on type
 Filter Element: 316L stainless steel
 Body Seal: Standard EPDM - Viton, PTFE or white Silicone available.

Operating Conditions

Pressures: Liquid to 10 bar
 Temperatures: -25°C to 150°C depending on seal materials

Glass Bead Blasted - Mirror Finished - Electropolished - 180 grit



023 8025 8966

tss.sou.sales@trelleborg.com