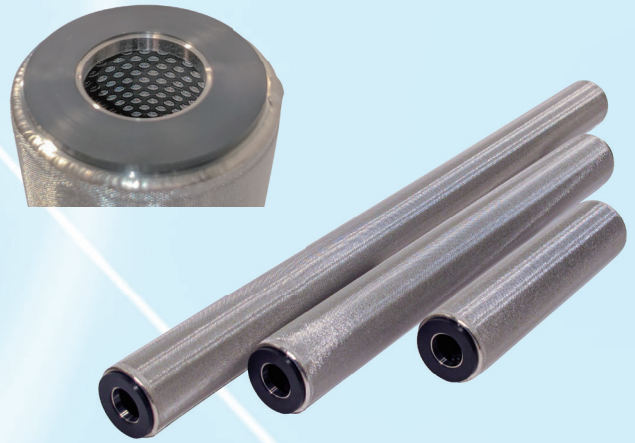


● STAINLESS STEEL CARTRIDGE FILTERS TSC-S Type (For Food/Beverage and Pharmaceutical)



TSC S type

STAINLESS STEEL CARTRIDGE FILTERS

Food, beverage and pharmaceutical applications:
Safety filters before container filling, precise filtration of steam

All-stainless cartridge filters assembled
by enclosing stainless steel fibers with mesh
and welding sintered media.

High filter efficiency

Low filter resistance

Long filtration life

High porosity

No fiber separation

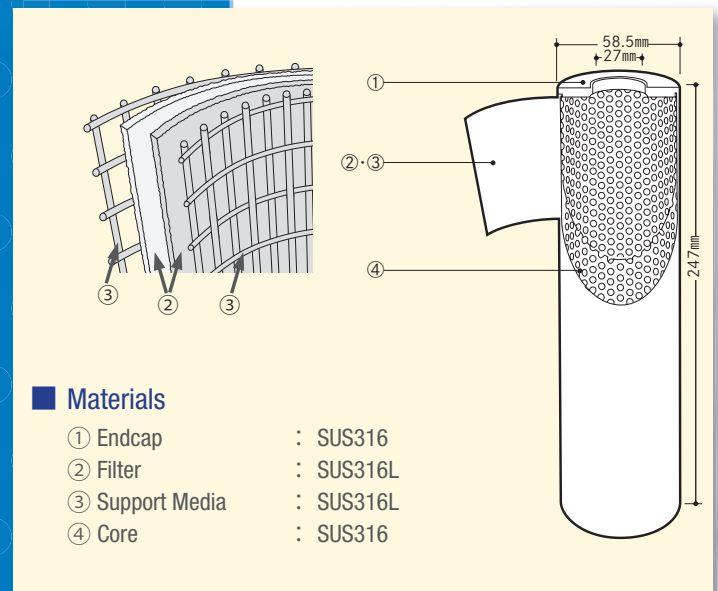
Can be washed for repeated use

Features

- Several alloyed non-woven fabrics with different densities are laminated and enclosed with reinforced mesh, then the uniformly processed filters are made to adhere using heat melting.
- The filters have high porosity, so they capture a large quantity of particulate matter and have a long filtration life.
- It is possible to filter high-temperature gases with great precision without cooling.
- The contact points of the fibers are adhered using heat melting, so the fibers do not separate. Waste is reduced because the product can be washed repeatedly.
- The filters have significant ability to retain foreign matter and are especially excellent at removing gelled foreign matter, demonstrating strong capability as macromolecular polymer filters.

Applications

- Food, beverages, and pharmaceuticals
Precisely filters steam and hot water.
- Pharmaceutical and food products
Purifies all types of pharmaceuticals and foods.
- Chemical and polymer products
Finishing filtration for chemical plant processes, oil refining, catalyst recovery, and molten polymers.
Filters for fuel oil, lubricants, and cutting fluid.
High-temperature exhaust gas processing, filtration of processed gas.



STAINLESS STEEL CARTRIDGE FILTERS

Specifications

Shape	Cylindrical
Materials	Sintered metal fibers
Nominal Rating	3 μ m , 5 μ m , 10 μ m
Effective Filter Area	400 cm ² /250 mm Type
Maximum Differential Pressure*	0.68MPa

* Maximum differential pressure is set based on the results of tests conducted with water. These may differ depending on the combination of chemicals, differential pressure, temperature, and time; therefore, we recommend testing before use.

Particle-Capturing Performance (Liquid)

Ordering Information	Particle Diameter							
	1.0 μ m	2.0 μ m	3.0 μ m	4.0 μ m	5.0 μ m	10 μ m	15 μ m	20 μ m
TSC-S3	63%	91%	99%	>99%				
TSC-S5			95%	99%	>99%			
TSC-S10						86%	99%	>99%

● Capture efficiency when filtering sprinkled water with a standard amount of dust at 10 L/min (250 mm type).

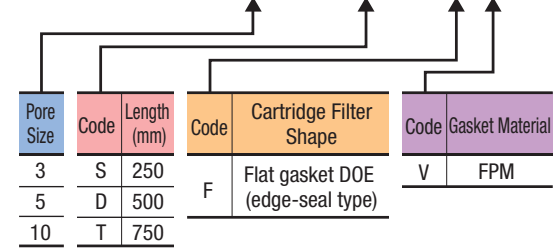
Particle-Capturing Performance (Gas)

Ordering Information	Particle Diameter				
	0.4 μ m	0.5 μ m	0.8 μ m	1.0 μ m	2.0 μ m
TSC-S3	99.7%	>99.99%	>99.99%		
TSC-S5		96.7%	>99.99%	>99.99%	
TSC-S10			72.4%	89.6%	99.95%

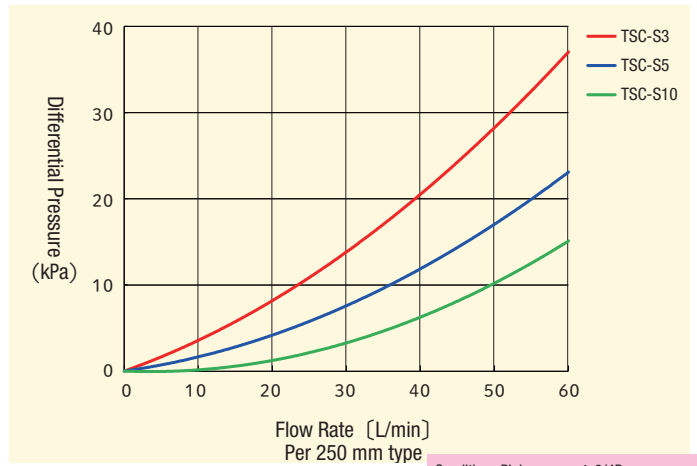
All grades can remove 95% or more of 2 μ m (or larger) particles, the standard for "Steam of Culinary Quality" according to 3-A Standard 609-03. The filters can therefore be safely used for steam for food and beverages.

Product Name

TSC-S - TFV

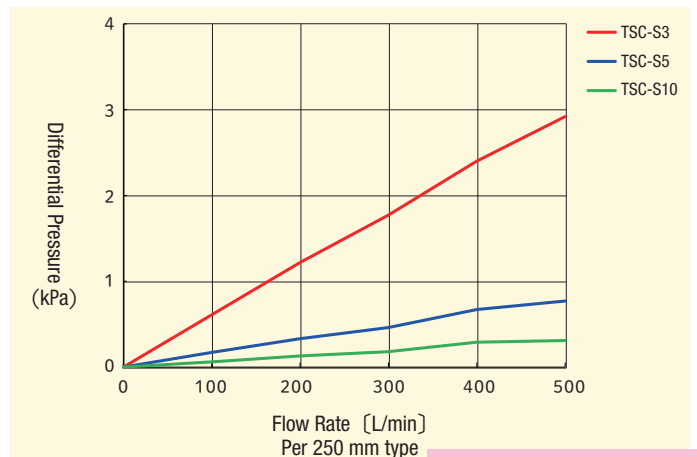


Typical Flow Rate (WATER)



Conditions Piping : 3/4B
Housing : 1TWA-1S-FS
Water Temperature : 20°C

Typical Flow Rate (AIR)



Conditions Piping : 3/4B
Housing : 1TWA-1S-FS

- Specifications listed in this brochure are subject to change without notice.
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