SEPARATOR FILTER SF1

TLV®



Cleaner filter for longer... ...utilize the cyclone effect

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In regular piping, steam carries large quantities of entrained material. With TLV's Separator Filter, improve heating efficiency and product quality by removing condensate, dirt and scale. Ideal for bio-related industries and other applications requiring high-quality dry steam.

Washing/Pressure Detection Port Improved steam dryness

> No moisture droplets

Condensate, dirt & scale are removed by centrifugal force

Clamp Construction

Ferrule clamp joint facilitates assembly and disassembly.



Cyclone Separator

Sintered Wire Mesh Filter

All Stainless Steel

Body is made of rust-proof CF8 stainless steel.

- Condensate, Dirt & Scale Outlet

Parts with USP/FDA/EN		Standard		
Compliant Materials		USP	FDA	EN
Filter Gasket	High-performance	Class VI	21 CFR 177.1550	1935
Body Gasket	Fluorine Resin	CIASS VI	21 CFK 177.1550	1755
Seal Tape for Plug	Fluorine Resin	_	21 CFR 177.1615	

Time between cleaning & replacement is increased, maintenance cost is reduced

Typical Applications

Sterilizers, steam washers, etc. Bio-related steam equipment

Live steam use - food, pharmaceutical
Non-hazardous gas applications

Cyclone Separator



Centrifugal Force and Gravity Remove:

98%* of Condensate Eliminating condensate produces

the highest quality steam. * for steam velocity up to 30 m/s

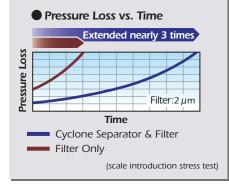
Large dirt particles & scale

Preventing major sources of filter blockage from reaching the filter results in a longer service life.



Maintenance cycle is nearly 3 times longer!

Compared to a filter with no separator, the time between required maintenance is improved by nearly 3 times.

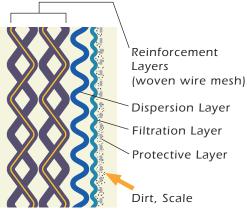


5-layer Sintered Wire Mesh Filter



Effective cleaning allows repeated use

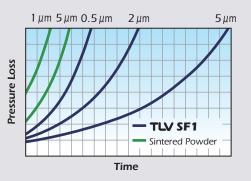
The 5-layer sintered wire mesh filter catches small dirt and scale particles on the outside surface of the filtration layer. Compared to sintered metal powder the wire mesh filter is easier to clean resulting in longer durability, and reusability.

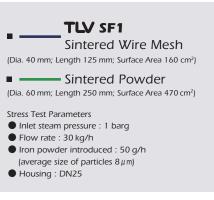


Filter Construction

Low Pressure Loss

TLV's sintered wire mesh filters provide a longer maintenance cycle than powder filters of the same rating. Therefore, the decision to use a finer filter rating or a more compact filter becomes easier.





Specifications

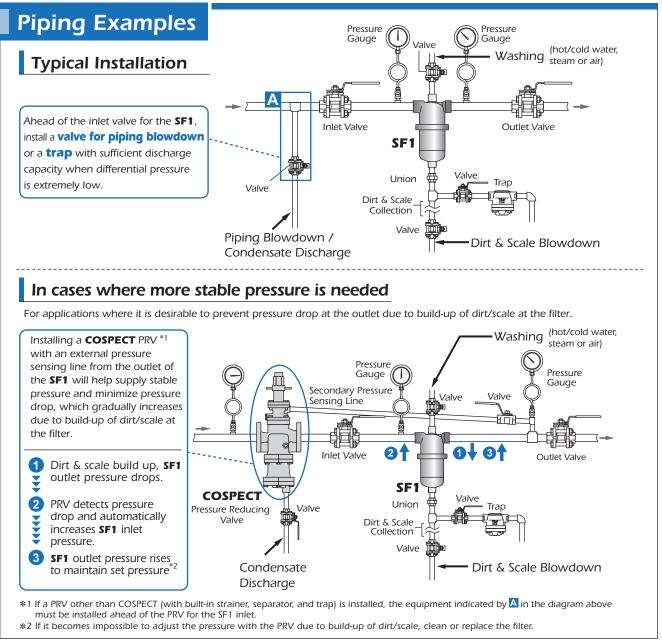


Connection	Screwed	Socket Welded	Flanged
Size	1/2", 3/4", 1", 11/2", 2"	DN 15, 20, 25, 40, 50	
Maximum Operating Pressure (barg) PMO	10		
Maximum Operating Temperature (°C) TMO	185		
Nominal Filter Rating* (µm)	0.5, 2, 5		
Internal & External Finishing**	Acid Cleaning (lost-wax cast)		
Ferrule Clamp	Two-piece two-bolt clamp		
Applicable Fluids***	Steam, Air		
* Consult TLV for other available filter ratings			1 bar = 0.1 MPa

** Optional electro-polishing (lost-wax cast) available on request *** Do not use for toxic, flammable or otherwise hazardous fluids.

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 10 Maximum Allowable Temperature (°C) TMA: 185

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside the specification range. Local regulations may restrict this product to below the conditions quoted.



For explanation purposes only, not intended as installation designs.

TLV: EURO ENGINEERING UK LTD.

Tel: [44]-(0)1242-227223 E-mail: info@tlv.co.uk

Star Lodge, Montpellier Drive, Cheltenham, Gloucestershire, GL50 1TY, U.K. Fax: [44]-(0)1242-223077 http://www.tlv.com



Pamphlet U3000 Rev. 10/2019 Specifications subject to change without notice.