



SIEVING & FILTERING Solutions Galaxy Wide

# SIVTEK SELF CLEANING FILTER®



PRODUCT BROCHURE

# FILTRATION OF SOLID CONTAMINANTS FROM THE LIQUID BY AUTOMATIC SELF CLEANING FILTER

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The Sivtek self-cleaning filter from Galaxy Sivtek is designed to filter liquid applications, ranging from low viscosity to high viscosity. The filter eliminates and separates all unwanted suspended solid particles from the liquid raw material.

The automatic self-cleaning filter allows continuous processing without the need of cleaning the filter media or basket, this results in better quality of the product and increased production rate. Across various process industries the Self-cleaning filter is considered the most cutting-edge alternative to the conventional filtration equipment.

The Sivtek self-cleaning filter comes with a compact and robust construction, made with high grade stainless steel. The working principle on which this phenomenal filter works is the DELTA-P i.e., on the pressure difference principle allowing continuous filtration process in the line. The most important aspect of this is the capability of the machine to process 24x7.

## BENEFITS

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### OPTIMUM FILTRATION

Sivtek Self Cleaning Filter benefits the manufacturer by filtering the smallest amount of impurities or oversize contaminants to get the desired quality of the product.



### CONTINUOUS OPERATION

The Sivtek Self Cleaning Filter is manufactured in a way that it doesn't let it self to increase delta P pressure. It cleans the clogged oversize impurities from the basket to run continuously.



### NO MANPOWER REQUIRED

The Sivtek Self Cleaning Filter comes with a filter control system which allows the operator to control the filter. Once the operator set the parameters no manpower is required.



# KEY COMPONENTS



## CLAMPS & SEALING

Provides easy basket changing ability with leak-proof operation.



## PNEUMATIC CYLINDER

Pneumatic cylinder disc functions down-stroke and up-stroke to wipe out oversize impurities from inner periphery of the filter basket.



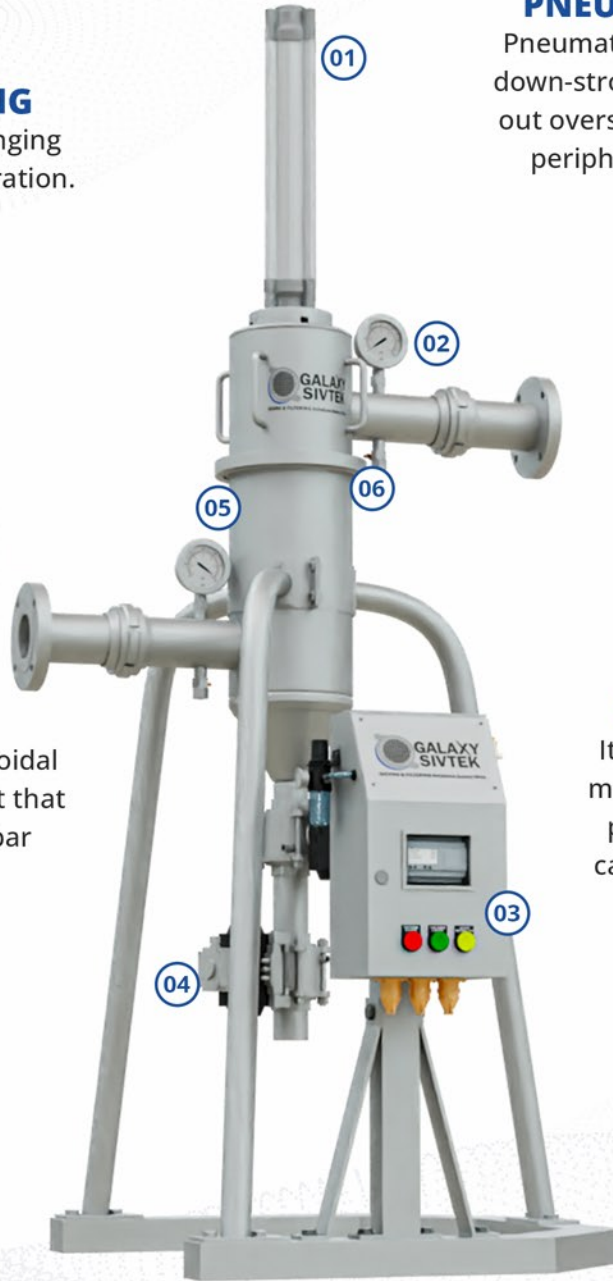
## FILTER BASKET

Specially designed trapezoidal shaped wedge wire basket that processes on up-to 10 bar pressure.



## PRESSURE GAUGE

It indicates the operator to measure delta P (differential pressure) so the operator can take appropriate action as needed.



## ACTUATOR

Pneumatic actuators are activated at a scheduled time to dispose oversize material and eliminates product loss.



## PLC & FLR BOX

Controls the SIVTEK Self Cleaning Filter timing & pressure of the pneumatic cylinder and actuator valves.

## FEATURES

### ► COMPACT DESIGN

Self cleaning filter has a compact design which can be easily placed into the processing line.

### ► AUTO CLEAN SYSTEM

Sivtek self cleaning filter comes with a cleaning disc that wipes along the periphery of the mesh basket to clean the surface automatically.

### ► NO PRODUCT LOSS

Purging chamber discharges oversize material with minimal product loss.

### ► FILTER BASKET

Slotted wedge wire  
Material: S.S.316 L  
Size: 25-1150 microns

### ► EASY ASSEMBLING & DISASSEMBLING

Sivtek self cleaning filter provides easy assembling and disassembling with minimal tool.

### ► COMPLETE AUTOMATION

The self cleaning filter is capable to adjust automation according to application and product requirement.

## MATERIAL HANDLING

### ► SELF CLEANING FILTER IN SERIES

In some applications sivtek self cleaning filters are kept in series to reduce the strain on a single filter basket and achieve the desired filtering result.



### ► FILTER JACKETING

self cleaning filter is customized with a jacketing system where hot water is passed through it to maintain the temperature of the product.





► **SELF CLEANING FILTER WITH PUMPING STATION**

Self cleaning filter can be equipped with a pumping station as per the customer requirement.



► **FOOD GRADE SELF CLEANING FILTER**

For food grade applications, specially customized Self Cleaning Filter is used to meet the US-FDA and cGMP norms.



**CAPACITY ENHANCERS**

► **FLAME PROOF FILTER CONTROL SYSTEM**

Galaxy Sivtek's Filter Control System handles the entire filtering process and it manages the working of the cylinder stroke, actuator valve, timer, etc. it also controls the additional accessories such as the CIP system and many more.



► **DIFFERENT MOC OF CLEANING DISC**

The Material of contact for the cleaning disc are available in multiple options such as Delrin, UHMWPE, Teflon, PVPF, etc.



► **CIP SYSTEM**

The Clean in Place system (CIP) is a very state of the art feature available to reduce the amount of human interaction and slowing the process of maintenance, this system cleans the entire basket arrangement from the insider and flushes out the impurities without any hassle.



► **DUAL CYLINDER**

Dual Cylinder capacity enhancers whose ingenious design developed especially for liquids which have very high viscosity. The dual cylinder is employed to distribute the pressure inside the cylinder, preventing mishaps such as breaking of the seals and leaking of products.



# INDUSTRIES & APPLICATIONS WE SERVE



## FOOD & BEVERAGE

- Liquid Chocolate
- Condense Milk
- Sugar Syrup



## FMCG

- ketchup
- Liquid Detergent
- Cosmetics



## PHARMA

- Digene Syrup
- Cough Syrup
- Liquid Syrup



## INKS & PAINTS

- Ink
- Paint
- Emulsion



## PAPER & PULP

- Paper Coating
- Starch Slurry
- Back Water



## CHEMICAL & PIGMENT

- Ethanol
- Artificial Leather
- Resin



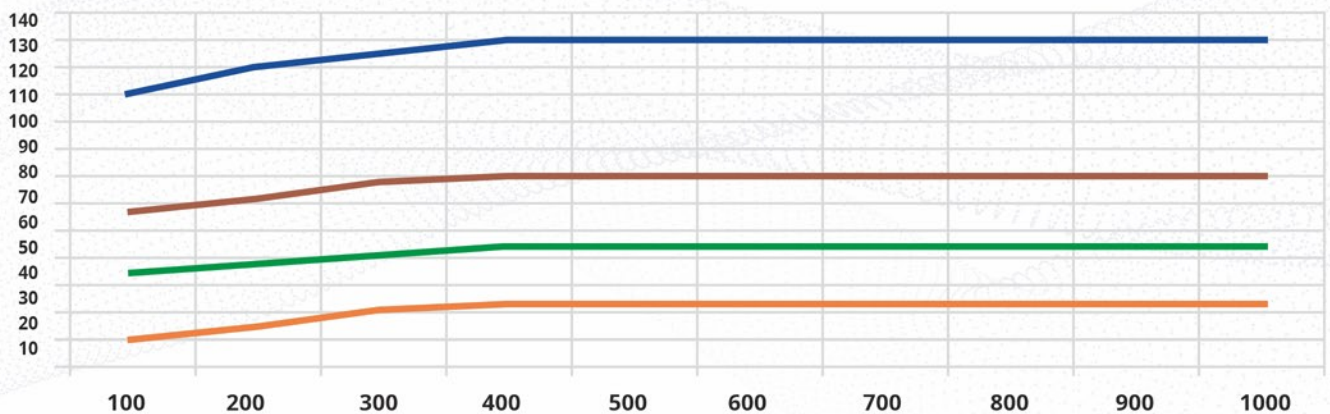
## WASTE WATER

- Recycle West Water
- Cip Fluid
- ETP water

Many More ...

## SIVTEK LIQUID FILTER SERIES - FLOW RATE GUIDE

Model	SF-1600	SF-800	SF-500	SF-250
Control System	Electro Pneumatic	Electro Pneumatic	Electro Pneumatic	Electro Pneumatic
Housing Diameter	203 mm	203 mm	132 mm	132 mm
Housing Mounting	870 L x 820 W	870 L x 820 W	830 L x 7800 W	830 L x 7800 W
Service Height	2724 mm	1966 mm	1759 mm	1348 mm
Inlet & Outlet Diameter	3" Inch	3" Inch	1.5" Inch	1.5" Inch
Distance between Inlet & Outlet	800 mm	427 mm	417 mm	226 mm
Total Volumetric Capacity	35 Litre	16.5 Litre	7.5 Litre	5 Liter
Solids Capacity (Minimum)	0.83 Litre	0.83 Litre	0.65 Litre	0.36 Liter
Flow Rate Range at 100 Micron	1833 L/min	1116 L/min	750 L/min	300 - L/min
Pressure (Maximum)	10 Bar/145 PSI	10 Bar/145 PSI	10 Bar/145 PSI	10 Bar/145 PSI
Screen Area	0.44 M <sup>2</sup>	0.22 M <sup>2</sup>	0.16 M <sup>2</sup>	0.08 M <sup>2</sup>



Screen Size - Microns. : (1) SF-1600 (2) SF-800 (3) SF-500 (4) SF-250

Throughput. m<sup>3</sup>/hr. (x 4.4 = US gal/min)

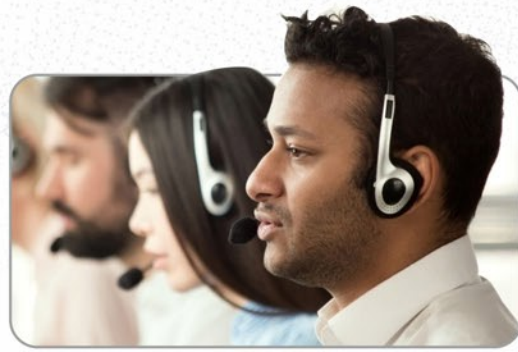
\*Flow rate numbers may vary.



## AFTER SALES SERVICES

### 24 x 7 CUSTOMER SUPPORT

Galaxy sivtek is committed to provide you 24x7 customer support on your sieving and filtration challenges. We are bound to assist you before and after purchase of our sieving and filtering solutions. We also offer genuine after market spares to ensure that your production lines are always running. Get in touch with our team at any time.



### INHOUSE & ON SITE TRIAL FACILITY

Galaxy Sivtek conduct on site trial for processing industries, so that they can make appropriate decision to choose from the wide range of our Sivtek sifters and filters. Till date, we have successfully conducted more than 25k+ trials for 12+ industries ranging from food & beverage to the chemical industry, pharmaceutical to mineral & metal industry.

### MACHINE HEALTH CHECKUP

We work as your sieving & filtering solution partner! Our highly skilled & trained experts are at your service. We at Galaxy Sivtek help our clients in identifying how their machines are performing in the processing line, by conducting a machine health check-up. It will help them to analyse and take appropriate decisions.



### TECHNICAL TRAINING

Training programs are conducted by Galaxy Sivtek to educate every technician or operator at your premises. In house & on site training program helps your operator to understand that how to operate, service & maintain the sieving & filtration equipment. Galaxy Sivtek also train them on how to detect & prevent physical hazards that may effect the sieving process.

# COMMITTED GLOBALLY



SIEVING & FILTERING Solutions Galaxy Wide

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