



**FILTERS**

Simplex Basket Filters  
Duplex Basket Filters  
Self Cleaning Filters  
Cartridge Filters  
Lube Oil Filters  
Compressed Air Filters  
Air Filters - Panel Type  
Bag Filters

**STRAINERS**

Strainers 'Y', 'T', Conical'

**SEPARATORS**

Sand Filters  
Valveless Auto Gravity Filters  
Mobile Cleaning Devices  
Travelling Water Screens  
Belt Filters  
(Spares for all above)  
Moister Separators  
Oil Separator

**MIXERS**

Planetary Mixers  
Differential Speed Mixers  
Stirrers  
Agitators

**VALVES**

SS Tanks

**Pr. VESSELS**

Reaction Towers  
Heat Exchangers

# Dear Customers,

Techno crafts from reputed manufactures of Industrial Filters, Valves, Process Equipments of yester years have joined their hands, to blend their proficiency and expertise, in propelling this new "Entity" under the banner of 'Spraytech Systems' who will cater the needs of these industrial products.

## Our Product Range

### Filtration

#### A) Simplex / Duplex Basket Filters

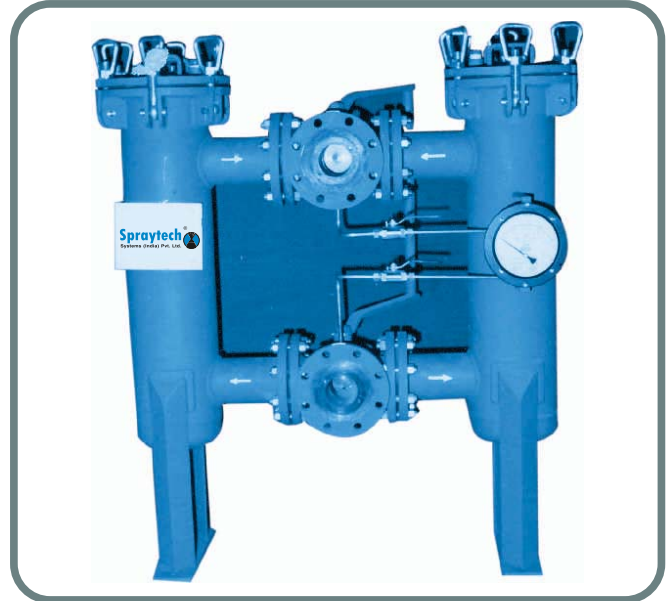
1) Fabricated design with MOC in  
A 106 / A53 / IS 2062 / AISI304 / 316 / 304L / 316L A 312 TP 304 /  
316 / 304L / 316L / A 240 TP 304 Hastelloy, alloy 20, high / low  
temp. Alloys. Nonferrous like Monel etc.

2) Cast Design  
A 216 Gr. WCB / A351 Gr. CF8[M] CF3[M] A 217 Gr. C5 / WC6 /  
WC9 / A352 LCB etc.

3) For duplex filters sizes up to 4" in 3 way ball valve design,  
common lever for change over

4) "6" & above in a) Transfer Valve design  
b) Butterfly Valve design  
c) Header design

Fabricated / cast. Operation by pneumatic / electrical actuator,  
Used where down time is unavailable.



#### B) Self Cleaning Filters

1) Wedge wire design  
2) SMP france STR design  
3) Stampings design  
4) Four compartments - auto wash design  
Manual / Motorized. These filters are used for water, oil, Pulp,  
grease applications, element is provided with backwash arm.  
When element gets chocked, diff.Pressure switch across the  
inlet / outlet gives a signal to the motor & drain gets opened  
simultaneously. The part of clean liquid goes in the reverse  
direction. Suitable where continuous flow is required. It can be  
supplied with control panel, motor, actuated drain valves, etc.



#### C) Sand Filters

1) Gravity sand filters  
2) Pressure sand filters  
3) Valveless auto gravity filters, spares for all above  
**Valveless Auto Gravity Filters**

1. Work on syphon, hence automatic.
2. No moving parts, hence less maintenance.
3. No pumps, electricity, compressed air required.
4. No scope for human error.



## D) Lube oil Filters Element

Available in pleated wire mesh Elements / Pleated paper elements as required for highly viscous fluids. These can be supplied at higher pressures upto 300 bar, DOF as fine as 5 microns.

## E) Compressed Air Filters

The unique design of Coalescing Separator, combines the simplicity & efficiency. As wet compressed air / gas / steam enters the Moisture Separator, it comes in contact with the multi layer dense media. Water droplets, as well as any other aerosols are intercepted by the coalesces and forced to coalesce. As the droplets grow in size and weight, the gravity pulls them down to Sump. The liquid that accumulates can then be drained manually or with automatic drain.

## F) Strainers

- 1) 'Y' type cast / fabricated / forged
  - 2) 'T' type fabricated / forged
  - 3) Conical / Temporary, fabricated
- MOC in CS / SS / alloy steel / non - ferrous, CSRL for housings and SS304 / 316 / 304L / 316L / MONEL / PP / Brass for element.

## G) Air Filters

Used for separating solid particles from air on suction side of fan, blower, compressor, machine etc. Widely used for Dehumidification, Air conditioning, Air separation, Air filtrations etc. Uses nylon, Polypropylene, Woolen felt, Fibre glass, Stainless steel etc, as filter media. Body frame is available in M.S., Aluminum, galvanized iron, Plastic, S.S., etc. Efficiency rating 99.9% up to 0.3 microns.

## H) Bag Filters

This filter is pressurized liquid, gas, filtration. The filter bags are extremely durable and available in various needle flets with micron rating from 1-200 & nylon monofilaments from 5-800 microns. Flow rate varies from 1 to 430 M<sup>3</sup>/hr.



## J) Cartridge Filters [0.1 to any micron size]

### Cartridge of

PP	Borosilicate
Ceramic	Cellulose
Charcoal	Asbestos
Glass fibre	SS sintered
Cotton	Taper Basket
SS	Pleated Basket

Application :- Solid Liquid, Liquid Gas, Solid Gas.



## K) Mixer

For viscous fluid, the mixer is provided with 2 sets of blades, the outer one rotating at as low RPM as 15 to 25 & the inner one at comparatively higher RPM & in the reverse direction which mixes the ingredients uniformly all over.

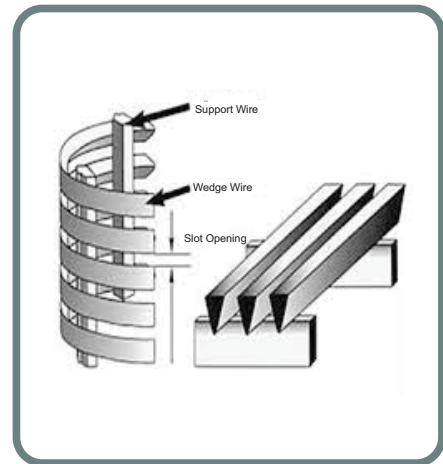
Other versions of mixers are tiltable, rotating at higher RPM as required for low viscosity fluids.

Planetary gear mixers are also meant for higher viscous fluids.

MOC - AISI 304 / 316 / 304-L / 316-L etc.  
Provision for variable speed is available.



## P) Wedge Wire Element



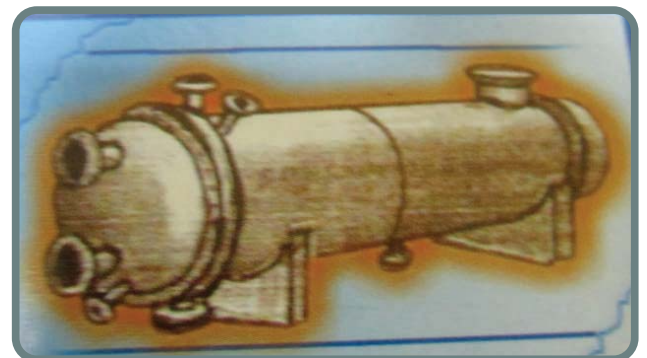
## Q) Vessels

Pressure Vessels, heat Exchangers, Condensers, Reaction towers in accordance with ASME sec. -VIII Div.1, sec. IX, Tema, IS 2825 etc.

### MOC :

SA515/SA516/IS2002/2062, A106/A53/IS1239/3589/A105,  
ASTMA240 TP304/SS316/304-L/316-L  
A 385/335/A 312 TP 304/316  
A182/F304/316/F69/F22/F11 etc.

Also consultancy available in: Design of filters / Valves / Vessels / Mixers. Computation of pressure drop, CV value, Thickness calculations, etc.





# WHAT IS AN INDUSTRIAL FILTER !

The basic function of a filter or a strainer is to arrest undissolved foreign particles & other ingredients from the fluid, before these can cause damage to costly equipments like Lubricating Equipments, Heat Exchangers, Pumps, Bearings, Burners, Nozzles, Coolant Systems, etc. The difference between a Filter & a Strainer, as a thumb rule, is that, generally the Strainer is a coarse Filter. The Strainer removes the particles, which are visible to the naked eyes. Filter on the other hand removes particles, which are not visible to the naked eyes (Particles smaller than 75 microns).

That is the reason as to why, depending upon the need, Strainers are also used in series with the filters, obviously ahead of filters, so that comparatively larger or heavier particles are initially arrested by the strainers, thereby reducing the frequency of replacing the filter element.

## Filter may have application of

1. Liquid to liquid Separation (say water & oil. or water from air)
2. Liquid to Solid.
3. Air / Gas to Solid.
4. Air / Gas to Liquid

The design of Filters or Strainers is tailor made, to suit the requirements of the working parameters at customers end. Normally the following parameters are required to be provided to the Designer & Manufacturer of Filters.

The fluid to be handled viz. Water. Oil, Salty water, Contaminated water, Acid, Chemical, Fertilizer, Food, Air, Gas, Steam, Paper pulp etc.

Working Pressure

Flow Rate

Degree of Filtration

Operation, Whether Manual or Motorized.

End connections desired, flanged / BW / SW / Threaded

Density

Working Temperature

Viscosity

Frequency of cleaning.

Permissible Pressure Drop.

Working conditions at sites.

Pressure Drop

## Filters or Strainers may be associated with following accessories:-

Jackets (Heating / Cooling)

Davit Arrangement

Control Panel

Differential Switch

Vent Valves

Electric Actuator

Pneumatic Operation

Quick Opening Arrangement

Motorized Operation

Differential Pressure Gauge.

Drain Valves.

Bypass Valve. (Pressure equalizer)

Hydraulic Cylinder

Magnetic Inserts.

# Spraytech Products at Glance

## Flow Line Products

- Spray Nozzles
- Spray Systems
- Flow Control Elements
- Flow Measuring Elements
- Control Valves
- Strainers & Filters
- Planetary Mixers, Agitator

## Pharma Products

- FBP, FBE, FBC, Spray Nozzles & Lances
- Wurster Coating Lance / Nozzles
- Top Spray Lance / Nozzles
- RMG / HSG Spray Lance / Nozzles
- Tablet Coating Spray Nozzles ( Guns )
- CIP Spray Nozzles

## Forged Products

- Forged Fittings
- Flanges
- Valve Manifolds
- Check Valves
- Plugs & Bushings
- Hydraulic Fittings
- Compression Tube Fittings

## Spraytech Location Map



● Regd. Office (Thane)

■ Rabale Plant (Navi Mumbai)

■ Indapur Plant (Pune)

**Regd. Office :**

20 KMS from Mumbai International Airport



### Regd. Office :

Spraytech House, Plot A-132, Road No. 23,  
Spraytech Circle, Wagle Indl. Estate,  
Thane (W) - 400 604.  
Mumbai - Maharashtra, (India)  
Tel. : 91-022-2582 8929 / 2735 / 2736  
Fax : 91-022-2581 2861  
E-mail :- sales@spraytechindia.com  
sales1@spraytechindia.com

### Rabale Plant (Navi Mumbai) :

Spraytech Systems (I) Pvt. Ltd.,  
Plot No.: R-513, MIDC, TTC Industrial Area,  
Rabale, Navi Mumbai - 400 701.

### Indapur Plant (Pune) :

Spraytech Systems (I) Pvt. Ltd.,  
Plot No.: A-5,  
Indapur Five Star Industrial Area,  
Village - Loni Devkar Balpudi,  
Tal. - Indapur,  
Dist. - Pune. - 413 103