

## Strainers & Filters Elements



- Filters
- Strainers
- Mixers
- Separators
- Pr. Vessels
- Valves

## 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.



**Simplex Basket Filter**



**Duplex Basket Filters**

## 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 choked, 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.

## 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.

## Compressed Air Filters

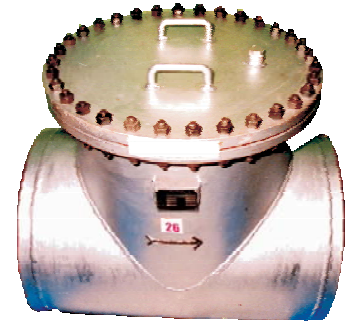
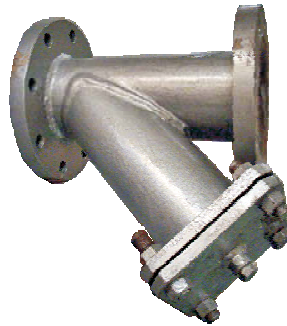
The unique design of Coalescing Separator, combines the simplicity & efficiency. As wet compressed air / gas / steam enters the Moisture Separator, it comes in contact with the multi layer dense media. Water droplets, as well as any other aerosols are intercepted by the coalesces and forced to coalesce.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



## 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.



## 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.

## Cartridge Filters [0.1 to any micron size]

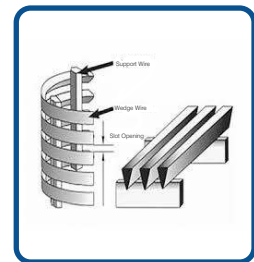
### Cartridge of

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

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



## Wedge Wire Element



## 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.

## 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, ASTM A240 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.

