



Uncompromised  
**Quality.**

# FEIPL

## Cyclone Separators

### Cyclone Separator, Sand Separator & Centrifugal Separator

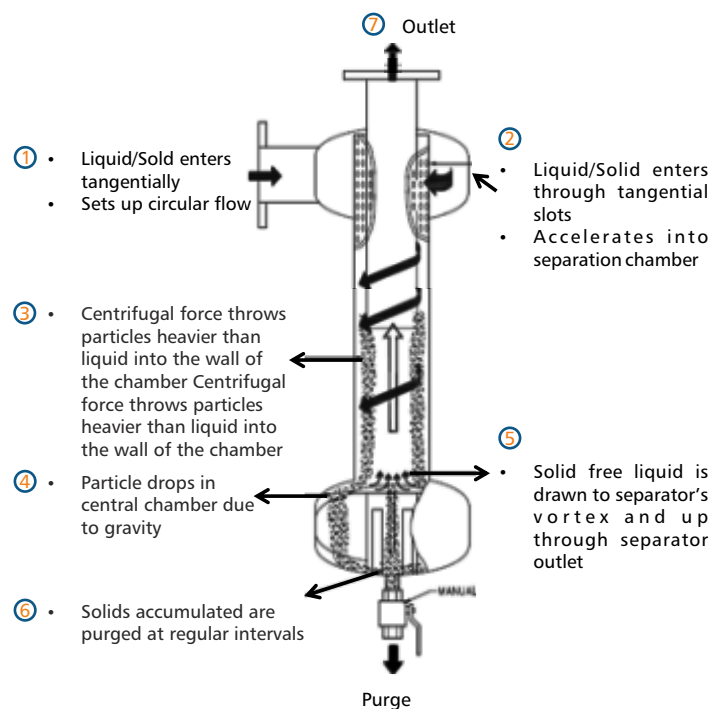
Cyclone Separators (Sand Separators) are used for separation of sand silica like high density particles from water. Minimum operating pressure of  $2 \text{ kg/cm}^2$  is required for smooth functioning as these cyclones work on centrifugal motion, for which positive operating pressure is required. Tangential entry is provided at the inlet which allows water to enter in cyclonic motion. Also inside the vessel particular type of slotted pipe is provided which further accelerates the velocity resulting in heavier particles falling at the bottom. Water being of lighter density exit from the outlet at the top. The bottom has a diverter plate with wave breakers in the

collection chamber which allows dirt to settle in the chamber. The drain is provided with electrical or pneumatic valve and a small control panel with a timer at bottom.

It is a static equipment apart from motorized valve at the bottom. There is no mechanical barrier hence there is no maintenance required. The drain valve timer is normally set between 30 to 60 seconds, duration depends on the dirt load. There is a normal pressure drop at the inlet and outlet of  $0.2$  to  $0.3 \text{ kg/cm}^2$  and as there is no blockage or choking, the pressure drop remains continuous during operation.

#### Applications of Separators:

- Source Water Intake  
Deep wells, surface water lakes, rivers, seawater, fire protection system in oil jetties / refineries, injection water pre-filtration in oil production.
- Circulation Processes  
Before cooling towers, air conditioning systems and heat exchangers, before oil water separators, before membrane RO, before and after sand filter, before cartridge and bag filters, protection of spray nozles in all operations, protection of pumps.
- Degreasing Baths
- Pump Protection
- Automotive Industry
- Coolant Filtration  
In all grinding operation, motor parts, axles, shafts.
- Waste Filters  
Removal of sand out of sewage systems / overflow basins.
- Refineries & Oils Production  
Fire fighting systems, mantle cooling of cracking installations, pipe line strainers removal of sand & grit after three phase separators, protection of motor driven centrifuges.
- Sugar Industry Power Plants  
Removal of cakes, particles, cooling water filtration, cooling sump cleaning.



We are your  
**Quality Partners.**

# Cyclone Separators

## Advantage

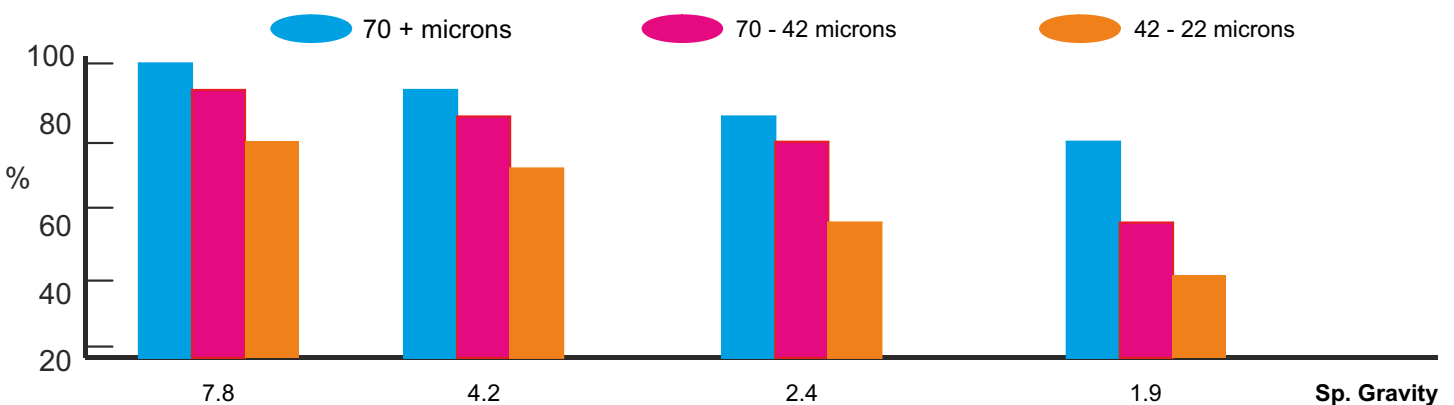
- Very easy to install.
- Low pressure drop.
- No need for any by-pass which reduces the installation cost.
- Very low water loss during cleaning.
- No cost for general or periodical maintenance
- Un-interruption of flow during the purging.
- No Change At The Flow- Rate
- Normally No Replacement of any Part Required
- No Backflushing
- Available In Carbon Steel With Rubber Lining Strainer. Also Can be Supplied for Food Sector.

**Our Range 2 M3/h To 4500 M3/h**



**We are your  
Quality Partners.**

## PERFORMANCE GRAPH



## Filteration Engineers

Plot W 62B, TTC Industrial Area, MIDC Rabale,  
Navi Mumbai 400701 India.  
Phone: +91 22 27608501 / 27693111  
Email: sales@feipl.com

[www.feipl.com](http://www.feipl.com)

