

CARBON/ CATALYST FILTER

Carbon Candle Filter is a pressure-type filtration system that uses activated carbon candles as filtering media to remove impurities such as colour, chlorine, and organic contaminants from liquids. These are used in industries requiring high-purity liquid filtration, like pharmaceuticals, food and beverage, chemicals, and water treatment. The candles may be sintered or bag type.



APPLICATION

- Water purification (chlorine, odor, pesticides).
- Beverage and food processing.
- Air purification.
- Pharmaceutical manufacturing.
- Chemical industry (solvent recovery).
- Viscose fibres.
- Filtration in bio-diesel plants.
- Caffeine plant extract.



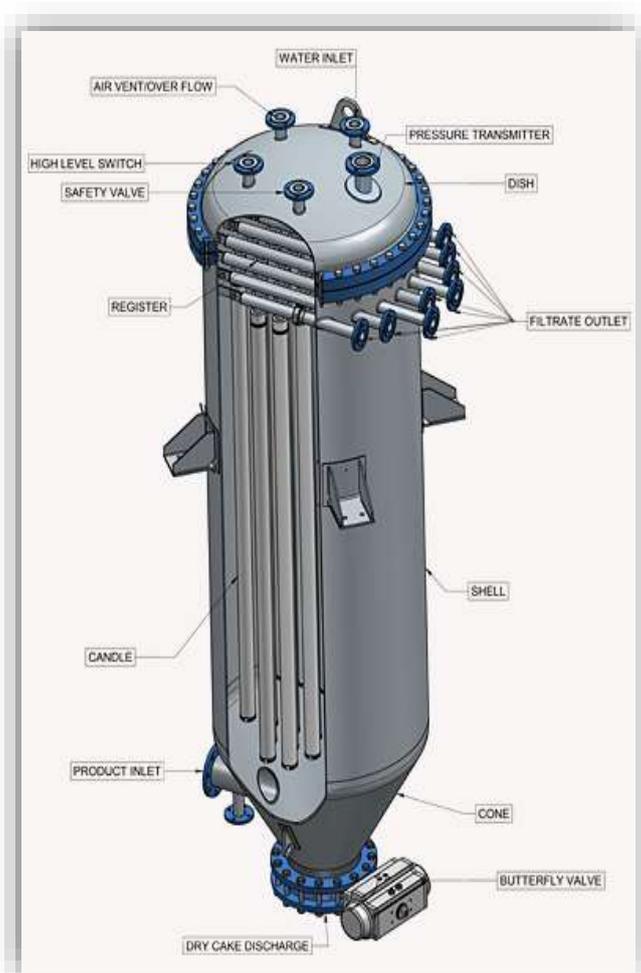
MATERIAL OF CONSTRUCTION

- Stainless Steel 304
- Stainless Steel 316
- Hastelloy



COMPONENTS

- Pressure vessel encloses and supports all filtration components.
- Candles are porous cylindrical tubes that perform the main filtration.
- Filter media covers the candles and captures solid particles.
- Pressure gauges, vents and valves for operation.
- Inlet/ outlet ports allow slurry feed, cake discharge filterate removal.
- Cake discharge system is used to remove dried filter cake from candles.



OPERATION PARAMETERS

Parameters	Typical Value
Filtration rating	0.5–5 µm
Design pressure	3 – 6 Bar (mostly)
Carbon Type	Granular activated carbon (GAC)
Change DP	1.5–2.0 bar