

Accessories

Cooling Coils



A cooling coil inside the autoclave allows:

- The control of an exothermal reaction
- To cool down the medium inside the autoclave after the reaction Has been finished
- To heat-up the medium within the autoclave by use of a heat transfer Medium

Thermowell



Thermowell is used to sense the temperature of the reaction medium inside the Autoclave.

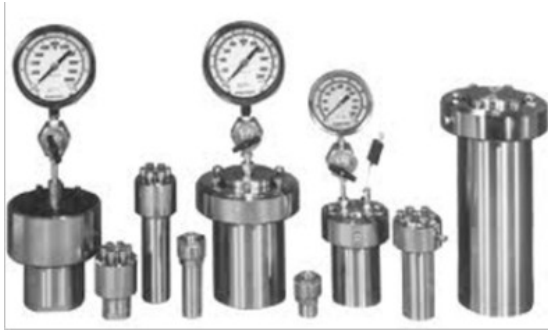
MOC of thermowell is SS316.

Safety Head with Rupture Discs



It's a safety arrangement in case of overshooting of pressure. As the pressure rises above the design pressure, the gases are vented off through Rupture disc which are further collected in catch Pot .

High Pressure Charging Pot



MOC: SS 316 solid shaft designed for pressure at & above 100 kg/cm². Other MOC's as per client's request can be fabricated. Connections: N₂ inlet, liquid inlet & outlet, PG, Pressure safety valve, high pressure hose pipe, QRC & NRV.

Auto-Cooling System



Either Solenoid Valve (FLP, IIC) or pneumatically actuated Ball Valves can be used. These valves are connected at the inlet of the internal cooling coil with external source of cooling water supply. Normal tap water is not preferable as it does not give effective cooling at higher temperatures due to steam back pressure.

Hot Oil Circulation System



Used For processes where hot Oil/ water is needed to be circulated into the jacketed autoclaves. The system consists of SS Tank, Pump. Electric heaters, level switch.

Pressure Regulator



Manual charging of gases at desired or higher pressure into the reactor from the gas cylinder can be done using a Gas pressure Regulator. Along with the regulator, accessories like SS braided Hose pipe, Pass valve, NRV, QRC & PG is also provided.

Reflux Condenser



Used in processes where a part of condensate is to be refluxed back to the autoclave & vent off vapours. It is directly mounted on autoclave & works under high pressure.