Pre-flash Tank

In the preheating system of the distillation tower, a pre-flash tank system separates the steam generated before preheating from the heater or main distillation tower. This can prevent the heater from overheating combustion or pressure drop and reduce the steam load of the distillation tower to avoid flooding.

Challenges

The pre-flash tank will produce an appropriate amount of foam, which will affect the accuracy of level measurement, thereby reducing the output of atmospheric column distillate. Too low pre-flash tank level will cause cavitation of the flashed crude oil on the pump. An excessively high level will cause liquid carryover to enter the distillation column.

Products

- **TRG802X Guided Wave Radar Level Transmitter**

The latest generation of TRG802X series guided wave radar level transmitter is a two-wire 24VDC powered level transmitter, which adopts advanced microprocessor and unique echo processing technology.

TRG802X series guided wave radar level transmitter can be applied to various complex working conditions and applications. Whether it is a light hydrocarbon or water-based solution, it is suitable.

Features

1. Multi-variable 2-wire system and 24VDC loop-powered level transmitter can be used to measure level, interface, volume or flow.
2. The level measurement results are not affected by the change of medium properties.
3. It is no need to calibrate by adjusting the actual level.
4. Select the probe with function of "anti-overflow ", the true level to the process connection seal can be measured directly without special algorithm.
5. 4 buttons and graphical LCD display can easily observe the instrument configuration information and signal waveform diagram
6. Use split structure, the electronic device can be replaced without opening the storage tank.

● UTK Displacer Level Controller (High Pressure)

The high-pressure level switch is a displacer drive unit, which uses a single switch assembly for level alarm or control. These devices are designed for liquids with working pressures up to 250 bar and specific gravities of 0.40 and above. A permanent magnetic sensor is attached to the rotary switch drive. When the float/displacer rises correspondingly with the rise of the liquid, the corresponding sleeve will move into the range of the magnetic sensor and cause the switch to act accordingly.

Features

1. Chamber material can choose 304 or 316 stainless steel.
2. The pressure can be up to 16Mpa.
3. Temperature can be up to +300° C.
4. The lowest specific gravity is 0.40.

● UHC Magnetic Level Gauge

UHC magnetic level gauge provides a safer, more reliable and more visible option than conventional glass level gauge. The float moves up and down with the change of level, and the float transmits the level signal through the coupling magnetic field, which divides into the local indication type and the remote transmission output type.

Chamber and float have a variety of materials and pressure-grade options and are suitable for complex process applications of current major operating devices.

Features

1. The float adopts 304,316 L, TA2 and TC4 material. It has good temperature resistance and can reach to 450℃.
2. The welding process meets the requirements of PED welding process. The chamber is made of 304,316 L. The maximum pressure can reach to 26 MPa.
3. Local indicator type and remote output type with level alarm are optional.
4. According to customer requirements, through a variety of production types, the products can be applied to a variety of working conditions.