

Boiler Drainage Tank



The concentration of undesirable solid particles in boiler water can be reduced by means of a continuous cleaning or draining system. The blowdown tank receives continuous discharge from the boiler drum and the discharge from the vapor generator at various temperatures and pressures. The waste tank can also be used as an automatic drainage system for the vapor generator when the generator is being drained for maintenance.

Challenges

Good boiler discharge practices can significantly reduce boiler water treatment requirements and operating costs. However, improper cleaning can result in flammable mixtures remaining in the boiler, which can lead to catastrophic explosions. Therefore, proper level control is essential to ensure the safe and effective operation of the boiler drainage system.

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
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● **UTX Tuning Fork Level Controller**

UTX tuning fork type level controller is suitable for high and low position detection of various level in tank or pipes. Products are widely used in chemical fiber industry, rubber industry, tire industry, cement industry, iron and steel industry, food factory,

pharmaceutical factory, petrochemical plant, feed plant and other industries raw material / process / finished product barrel tank level control.

Features

1. SPDT replay output, SSR MOSFET output.
2. Wide voltage supply range 20~250 Vac/Vdc,50/60Hz.
3. It doesn't need to be calibrated frequently and it is simple to use and durable. High and low power failure protection makes it safe and reliable.
4. The product can be adjusted according to different density of materials, fine materials are also available.
5. It can be used to measure liquid, powder, particles and so on.
6. Double insulation can reduce the damage to the circuit board for the environment where the temperature and humidity change greatly and easily condense water (UTX3 series)
7. After installation, the device can be tested by the test button (UTX3 series)
8. Output controller delay function (UTX3 series)
9. A self-diagnostic mechanism to detect abnormalities such as wear and tear of the tuning fork probe or material adhesion. (UTX3 series)
10. Built-in box-type junction box, small size to save installation space. (UTX3 series)
11. The junction box can be rotated 270 degrees for easy adjustment of the direction of the wire inlet.
12. The specific gravity of the material can be measured down to 0.01 g/cm³. (UTX3 series)
13. Super-protection mechanism to set a second set of output contact point as alarm output (UTX3 series)
14. The product can be used for underwater sediment detection (UTX35 series)
15. One-piece design with 3/4" nipples for small pipe installations (UTX38 series)
16. Adjustment setting for different densities of material $\rho > 0.5 \text{ g/cm}^3$ or $\rho > 0.7 \text{ g/cm}^3$ (UTX38 series)
17. With controller delay setting function (UTX38 series)
18. Depending on the customer's preference, the warning light can be selected to follow the fail state or output state (UTX38 series).
19. It is possible to calibrate the action point position of different density materials according to customer's requirements (UTX38 series).

● 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°C.
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.