

## Drilling Fluid Tank



Cement slurry prepared at the site (or truck) is used to reinforce the shaft wall. The drilling fluid lubricates the drill bit, removes the cuttings, prevents the opening hole from collapsing, and maintains the hydrostatic balance to realize the protection to the blowout. Use "mud" based on oil/water mixture. Dispersants, flocculants, surfactants and rust inhibitors can also be added to drilling fluid.

### Challenges

Drilling fluid is usually stored in a series of separated rectangular steel tanks. Since the change in liquid level indicates that it may be blowout, the tank liquid quantity should be continuously monitored. The tank contains mixing media, suspended solids and media, which will produce hanging materials for floats, displacer and probe rods.

### Products

- **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

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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.

#### ● **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.

#### ● **TRG804X Radar Level Transmitter 6.3GHz**

TRG804X non-contact type radar level transmitter has a wider measurement range, and better diagnostic function. The use of advanced signal processing technology can filter out false targets or other noise signals. Pulse string radar level transmitter transmits short pulse string to the liquid surface. Through antenna, it can transmit extremely short pulses with very low energy. By using ultra-high speed timing circuit to measure the time required for the pulse signal to meet liquid surface and reflect echo.

### **Features**

1. 6.3GHz operating frequencies provide superior performance in applications of turbulence, foam and heavy vapor.
2. Maximum process temperature can be up to 250°C.
3. Maximum measuring range can reach 30m.
4. Quick connection/disassembly of probe shaft sleeve allows the container to remain sealed.