

## Isomerization



Isomerization is the conversion of n-butane to isobutane and n-pentane and hexane to high-octane gasoline components by changing the arrangement of the atoms in a variety of different process configurations. Isomerization is similar to catalytic reforming in that hydrocarbon molecules are rearranged, but isomerization can only convert normal chain alkanes into iso-chain alkanes.

### Challenges

Near the end of the process, the reactor effluent is cooled and separated into the isomers of the liquid product and the circulating hydrogen gas. Isomerization is the process of alkali washing, water washing, deacidification and stabilization, and then storage. Liquid level monitoring is required for both stabilizer bottom and cleaning tank.

### 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.

## ● **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.

## ● **LBTC POSITIVE DISPLACEMENT ROTARY VANE FLOW METER**

LBTC positive displacement rotary vane flow meter belongs to volumetric flow meter, which is one of the more accurate instruments in modern industrial liquid measurement.

### **Features**

1. Stable performance, no vibration, no noise.
  2. Insensitive to changes in upstream medium flow.
  3. Almost unaffected by the viscosity of the medium.
  4. High accuracy, max can be up to 0.2.
  5. Withstand the high pressure, good applicability, long service life.
-

6. Convenient installation, no need of straight pipe section, rectifier and other ancillary equipment, not affected by elbow, valve and other pipe fittings.

- **LGP Balanced Flow Meter (Multi-Hole Orifice Flow Meter)**

LGP balanced flow meter is a flow element developed on the basis of standard orifice plate. Its sensor is a porous disk throttling rectifier mounted on the section of the pipe. Size and distribution of each hole are customized based on test data and become function holes. The balanced flow meter sensor can realize the fluid balance measurement skillfully, obviously reduces the eddy current formation, reduces the dead effect and the fluid kinetic energy loss.

**Features**

1. High accuracy.
2. Low requirement of straight pipe section, in most cases the straight pipe section can be as small as  $0.5 D \sim 2 D$ , a large number of straight pipe sections can be saved by using LGP balanced flow meter.
3. Low permanent pressure loss and the differential pressure value is not reduced under the same measuring condition, the permanent pressure loss can be reduced by  $\frac{1}{2} \sim \frac{1}{3}$ .
4. Wide range ratio.
5. Good repeatability and long-term stability.
6. Wide range of application, can measure the gas-liquid two-phase, slurry and even solid particle. The balanced flow meter measures the complete symmetry of the left and right of flow element, so the bidirectional flow can be measured.