**DDTOP Magnetic Level Gauge**

**Reliable Light Oil Upgrading Unit Level Measuring Instrument**

**RESULTS**

* Perfectly solve the problems of high temperature，high pressure and medium corrosivity of the hydrocracking unit;
* Better ensure that the device can operate stably.

**APPLICATION**

**Equipment：**Light Oil Upgrading Unit

**Medium**：Feedstock Oil, Hydrogen

**Medium Characteristics**：High Temperature and High Pressure, Corrosive, Flammable and Explosive.

**CUSTOMER**

Dongying Yatong Petrochemical Co., Ltd.

**CHALLENGE**

The technology applied in the chemical light oil reforming unit is the hydrocracking technology. Hydrocracking is a process in the petrochemical industry .At higher pressures and temperatures, hydrogen acts to hydrogenate, crack and isomerize the heavy oil through the action of the catalyst, which is converted into light oil. The pressure can reach 13.5Mpa and the high temperature can reach 420°C. The high temperature and high pressure bring great test to the reliability of the instrument. The large amount of hydrogen sulfide contained in the medium is also corrosive to the meter.

**SOLUTIONS**

DDTOP’ UHC magnetic level gauge proposes the following solutions in the light oil upgrading unit:

* Designed according to the PED standard, the displacer and the float have sufficient pressure resistance;
* Use High temperature aluminum-nickel-cobalt magnetic steel + high temperature resistant sealed display assembly to combat high temperature conditions;
* Due to the presence of H2S, the liquid contact material of the level gauge is NACE treated to meet the NACE MR0103 standard;
* Airtight, pressure test and weld flaw detection should be carried out on the whole level gauge to ensure the safety of the level gauge.

**Dandong Top Electronics Instrument (Group) Co. Ltd.**

**Reliable Process Instrumentation and Automation Solution Provider**

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