

TANK STORAGE

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Black gold rush

Shale developments are creating opportunities for operators to build the tanks and pipelines needed to free up stranded production

Turning uncertainty into opportunity

From the refining crisis to the Iran stand-off, storage operators are having to work harder to manipulate market conditions

Preparing for a big freeze

The first in a series: what impact do extreme weather conditions have on the storage sector?

BRODIE
International

Tank storage in Europe

in accurately positioning a valve with a resolution better than 0.2 of a degree.

You can find Rotork Skilmatic at stands 4 and 5

S.A./Fire Fighting Systems & Equipment has developed fire fighting equipment designed to meet SIL criteria according to IEC61508-2:2010 and IEC61508-6:2010.

The objective of S.A.'s SIL certified fire products is to provide highly reliable solutions to be used as final elements in those systems designed to protect critical hazards.

The Niagara series remote controlled fire fighting monitor was assessed by Bureau Veritas and validated as suitable for use as an instrumented safety function with an expected SIL2 safety level. The SIL2 certified monitor is the first of a series of SIL certified fire products that are to be launched during 2012.

The Niagara series monitor



S.A./Fire is increasing safety by reducing undetected faults

is designed to perform an automatic self-diagnostic analysis, connected with a

programmable logic controller. At regular intervals the self-diagnostic system checks the correct operation of the monitor actuators, allowing for constant monitoring of any possible failure. If a fault is detected, operators will be warned through the monitor's control station. This constant communication increases the reliability of the overall fire system.

Such improvements reduce the probability that faults will pass undetected, whilst detecting any possible failure in real time, increasing the availability on demand of the fire fighting monitor.

You can find S.A./Fire Fighting Systems & Equipment at stands 245 and 246P

Satam LPG metering units are designed for trucks and railcar loading and unloading applications as well as for product transfer by pipeline.

Available with Coriolis mass flow meter, turbine meter and ultrasonic flowmeter, Satam LPG metering systems offer flexible design for customised custody transfer applications.

They are designed to adjust line pressure in order to avoid degassing during the transaction. Metering line pressure, of 1 bar above LPG vapour pressure, is controlled and sustained by the flow computer with pressure and temperature measurements, and vapour pressure calculations.

They are supplied fully assembled and tested in the factory ensuring maximum reliability. The selected meters have a simple and robust construction with minimal moving mechanical components.

Satam measuring systems are ready-made equipments supplied fully assembled and tested in the factory in order to ensure maximum reliability. They are designed for truck loading and are custody transfer approved. They include PD meters, mass flow meters or turbines. Measurement accuracy is guaranteed over a period of many years without any deviation in the calibration curve.

Satam reception units are designed for applications that involve the delivery of hydrocarbons to oil depots

and service stations made by tanker truck, tanker train, tanker ship and pipeline. Their design includes automatic gas purge systems to allow startup with empty tubing and their filtering device can be equipped with automatic clogging detection system.

The company's onboard metering units are designed for measurement under pressure on a tanker truck and, in particular, for fuel tankers. They can be supplied with an electronic batch controller that ensures secure archiving of transactions, but also monitoring of controls associated with the loading operations such as bottom valve, pump, throttle valve control and injection of additives.

They are also equipped with an integrated PC card and ensure the transmission of data to an onboard IT system by means of a field network or a USB port. They can also be equipped with a wireless system that provides direct transmission of the delivery transactions to a host station located in the local administrative building.

The 'Equalis register' product line meets all the requirements for automation and management of loading systems.

These flow computers incorporate solutions for all installation, use, safety and maintenance constraints associated with the measurement of hydrocarbons in oil depots.

Custody transfer certified, they are compatible with the entire range of volumetric and mass meters used in the industry. It is a field-mounted device and is designed for fixed station applications for the monitoring of loading and unloading of tanker trucks, railcars or ships. Its modular design is based on a CAN data bus which links the set of gantry registers to a module located in the control room. This ensures the configuration backup of registers as well as secure archiving of all transactions.

Equalis is also suitable for mobile metering applications. Its compact design is a cost-effective solution for onboard units and skid metering systems.

You can find Satam at stands 221 and 239

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