



APPLICATION SPOTLIGHT
Offshore Corrosion Inhibitor



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APPLICATION:

Various chemicals are injected into a deep water well to prevent corrosion, paraffins, hydrates, and scale. The flow rates for the injection are generally very low and need to be metered precisely to prevent under or over-dosing a well.

PRODUCTS SUPPLIED:

- VFF series LF03, LF05, and LF15
- HM turbines HM-007 and HM-009/TC-AC/S-EX

CHALLENGE:

As oil exploration goes into deeper and deeper water and deeper reservoirs, new challenges arise that put current technology to the test. The newest development is reservoirs that are reaching pressures of up to 20,000 psi and the chemicals need to be injected at a pressure that will overcome the force of the oil flowing up the umbilical.

SOLUTION:

By utilizing different technologies available through the TASI Flow portfolio, we were able to offer a solution for this unique chemical injection challenge.

Positive displacement meters from Litre Meter were used for their ability to measure ultra-low flows and their flexible materials of construction that allows for high tensile strength steels getting

us above the 20,000 psi pressure requirement. For the higher flow methanol and LDHI applications, the high pressure HM turbine line from AW was used for their ability to measure very non-lubricating fluids while also achieving the desired pressures.

The hazardous area location of these meters also require that all electrical components be certified. Because of the close cooperation in development between AW and Litre Meter, as well as all other TASI Flow brands, we were able to offer a single type of user interface for all the meters. Using Litre Meter's FlowPod transmitter in conjunction with the AW HUB-40EX pickup added a uniformity to the installation of all the meters on the chemical skid.

RESULTS:

This is simply one of the first projects heading to locations with reservoirs up to 20,000 psi. In the near future equipment manufacturers in this segment of the market are going to need to produce technology that can keep up with industry needs. TASI Flows continuing innovations and ability to customize will allow them to keep pace with the constant change in the O&G production environment.