



APPLICATION SPOTLIGHT

Blow-Out Preventor - Oil Snubbing



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APPLICATION:

The customer is involved in snubbing operations at well sites across North America. They are using flow meters as part of a pressure control device by using hydraulic flow to measure the amount of valve actuation when shutting in a well.

PRODUCT SUPPLIED:

- JVS Positive Displacement Flow Meters
- Custom DH-BB Sensors

CHALLENGE:

Because of the bi-directional nature of the hydraulic flow in the actuator lines, a meter was required that would read in either direction and provide counts similar to an encoder that could be used to indicate position. In addition, many of the wells are in a sour service (high H₂S levels) so materials of construction must be able to stand up to the corrosive properties.

SOLUTION:

Positive Displacement flow meters were specified because of their symmetrical geometry. These meters can be use in bi-directional flow and are available in 316SS, suitable for the sour gas environment.

A custom version of our popular DH-BB sensor was used to provide both pulse counts and direction indication. Our engineers worked closely with the customer to provide a low power draw device that provided an output signal usable by the customers proprietary DAQ system. AW-Lake was also able to do custom packaging of the electronics to provide complete encapsulation from the elements and increased immunity to external vibration.