



Application note

Fuel gas measurement with Vortex meters

Our PanaFlow MV80 – a perfect fit, cost-effective solution



Problem

An offshore exploration and production asset from an international oil company located in West Africa was in need to replace variable area flow meters that were not accurate enough, had limited turndown ratio, leading to poor reliability.

Application: Fuel gas to HP and LP flares

- Number of lines: 8
- Pipe: ½" 150#RF (2), 1" 150#RF (3) and 1" 300#RF (3)
- Flow rate: Up to 5 Sm³/d (½" lines) and up to 40 Sm³/d (1" lines)
- Temperature: -10°C – 55°C (14°F – 131°F)
- Pressure: 400 kPa (58 psi)
- Density: up to 4.5 kg/m³
- Viscosity: 0.011 cP

The measurement is there to have a permanent safety purge to the flare during the zero flaring conditions at the facility. Among the decision factors, we had to provide a cost-effective solution.

Solution

We supplied our Inline Vortex meters, PanaFlow MV80 which covered the entire flowing range of these pipe sizes at a reasonable price. Additionally, these meters are loop powered and could re-use the control loop the VA meters were connected to thereby reducing wiring costs for a powered meter.

Benefit

Cost effective, reliable and accurate flow measurement. They are not external mounted, they are all inline. Additionally, the complete system provided a low operational expenditure.

Panametrics, a Baker Hughes business, provides solutions in the toughest applications and environments for moisture, oxygen, liquid and gas flow measurement.

Experts in flare management, Panametrics technology also reduces flare emissions and optimizes performance.

With a reach that extends across the globe, Panametrics' critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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