TechnipFMC

Smith Meter® Sentry™

Your best alternative for custody transfer turbine flow meters

Improve the OPEX and CAPEX of your inference type flow meter installations

TechnipFMC's Sentry™ Series Turbine Meters provide highly accurate measurement required for the custody transfer of crude oil and refined products in pipeline applications.

Our Sentry™ turbine meter delivers performance through a unique combination of mechanical design features and digital technology. The meter has been continuously enhanced over the years based on results from our world class flow test facilities in Erie, PA and Ellerbek, Germany.

Sentry™ compared to other turbines	Benefits related to OPEX and CAPEX
Real time health check and diagnostics	Preventive and predictable maintenance
Enhanced bearing system provides performance longevity	Extended maintenance intervals. Less downtime
Optimum performance at all flow rates and minimal effect on performance of unexpected flow profiles*	Avoid measurement errors and their associated costs

Sentry™ compared to ultrasonic meters	Benefits related to OPEX and CAPEX
Ease of proving	Smaller prover volume
Immune to ultrasonic noise	Minimize downtime and eliminate costs associated with noise reduction
Simplistic design provides lower costs	Minimal level of technical skills needed

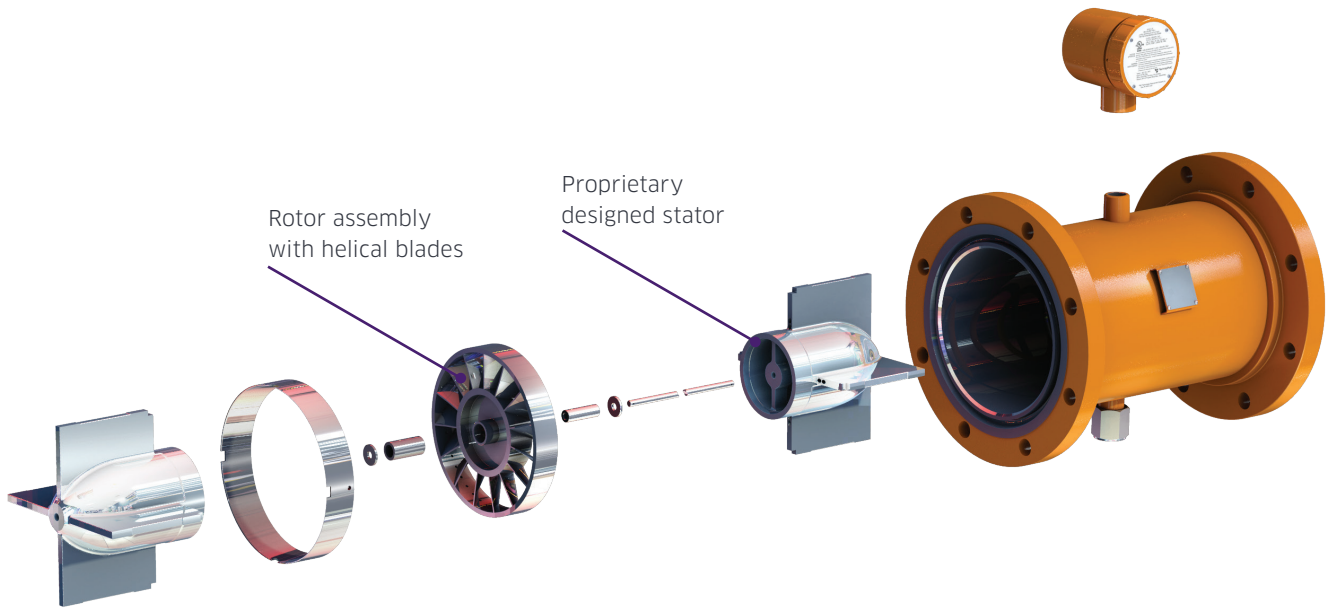
*Important criteria as demonstrated by the API technical report 2578 from October 2017

Superior features include:

- The meter's unique internal design enables the rotor to "float" between the thrust bearings and lubricate the axial bearings at all flow rates
- An axial bearing system that maximizes time between service intervals, with a journal bearing that rotates on a platform
- AccuLERT, a unique option, that can be added to the Sentry™ turbine meter and facilitates access to information about the meter and online real-time diagnostics

AccuLERT functionality

- Performs real-time diagnostics of the turbine meter's performance by monitoring the rotor's consistency of rotation
- Provides real-time online diagnostics such as "No Problem; Bent Blade; Damaged Bearing; Bearing Wear; Debris on Rotor; Cavitation" and more
- Provides notification of change (shift) in performance alerting the user of a possible measurement issue
- Installed in the field or in the control room



Shaft shown interrupted for illustration purposes

Our Sentry™ turbine flow meter is available with a wide range of flow conditioning elements with flexible dimensions that fit existing installations for replacing old meters.

See bulletin SS02007 for additional information.

Contact your local sales representative today for more information and to discover how we can help you plan your new installation.

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