Caldon 280Ci LEFM ultrasonic liquid flowmeter

Reliable custody transfer measurements for liquid hydrocarbons

Applications

- Custody transfer
- Leak detection
- Refinery inlet and outlet
- Offloading
- Import and export metering

Benefits

- Industry-leading 8-path chordal design for optimal linearity and repeatability, with dramatically reduced sensitivity to swirl and asymmetry effects
- 5-diameter minimum upstream pipe run and no requirement for flow conditioner, which reduces total cost of ownership
- Transducers that are isolated from the process and outside the pressure boundary for ease of service
- No recalibration or zeroing required if transducer is replaced
- In-house transducer manufacturing for maximum quality control
- Continuous logging capabilities
- Optional corrosion-, adhesion-, and contamination-resistant internal coating (proprietary)

Features

- Available sizes: 4 to 48 in
- Linearity: ±0.1% over the recommended velocity range
- Advanced signal processing with real-time diagnostic analysis
- Internal resistance temperature detector (RTD) for thermal expansion compensation
- G3 electronics with rich I/O and integral SD card
- Caldon USM Advisor™ diagnostic software included
- Compliance with API MPMS Chapter 5.8, International Organization of Legal Metrology (OIML) Recommendation R 117-1 Edition 2019 (E) Accuracy Class 0.3, Measuring Instruments Directive (MID) 2014/32/EU, and NACE MR0175

How it improves performance

The Caldon™ 280Ci LEFM ultrasonic liquid flowmeter features an advanced 8-path design that mitigates the effects of swirl and nonaxial flow, enhancing confidence in meter performance with or without a flow conditioner. The ability to remove the flow conditioner enables custody transfer performance without the potential impacts of conditioner blockage, acoustic noise, and pressure loss associated with most flow conditioning elements.

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