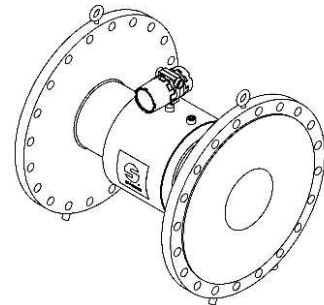


TigermagEP-SDR

FM656-SDR
SDR Designs

Obstructionless
Electromagnetic
Flowmeter



DESCRIPTION

The TigermagEP FM656 is a microprocessor based electromagnetic flowmeter designed to measure the flow of conductive liquids in full pipes.

In some flow applications, the piping used may have an internal diameter (ID) that differs from the standard pipe dimensions used in the design of electromagnetic meters. In applications where such pipes are used and the fluid contains abrasive solids, such as mining, this relatively small mis-match between the ID of the pipe and the ID of the meter may lead to damage of the liner of the meter and consequently, a reduction in the life of meter.

To mitigate this, Sparling has developed a methodology to supply electromagnetic meters with Hard Rubber lining to match most types of pipe. Sparling's vertically-integrated manufacturing facility allows for the tailoring of diameter and liner thickness so that the resulting meter closely matches the pipe's dimensions.

CERTIFIED ACCURACY

Each TigermagEP™ is wet-flow calibrated in Sparling's Flow Lab traceable to the National Institute of Standards and Technology. A certificate of accuracy is furnished with each meter.

STANDARD FEATURES

All FM656 meters have the following features:

- High sampling frequency for accurate measurement of fluids with high levels of inherent noise.
- Forward, reverse and net totalization
- Nonvolatile E2PROM Memory
- Universal electronics module compatibility
- 2-line, 16 character backlit display
- Programming made easy with Mag-Command™. HART and Modbus option available
- User-selectable damping & low flow cutoff
- NEMA-4X or NEMA-7 explosion proof, integral or remote closure
- Rotatable modular display
- Empty pipe detection
- PZR - Positive Zero Return
- Standard 0.5% accuracy

TO SPECIFY FM656-SDR METERS

To specify the FM656-SDR meter, all Sparling needs is the pipe nominal size and the Standard Dimension Ratio (SDR) of the pipe. SDR is the ratio of outside diameter of the pipe to the thickness of the pipe.

Other options (electrodes, pressure, transmitter type) should be configured using PDS-656. All FM656-SDR have hard rubber lining.