



FLOWSTREAM Wedge Meter

For Topside Flow Measurement

Flow Measurement Excellence

Widely recognized by the Oil, Gas & Petrochemical industries worldwide, Solartron ISA offers more than 45 years experience in the design and manufacture of Primary Differential Pressure flow meter devices.

Solartron ISA: Engineering a solution for the metering community.

Wedge Meter

Wedge Meters are used on many different process applications and conditions, especially for slurries, suspended solids or very viscous liquids. Line sizes available range from 25mm up to 800mm and greater.

Wedge Meter design provides a key cost saving benefit, as the profile is virtually immune to any wear or erosion, therefore with very little maintenance and inspection required.

Wedge Meters can be supplied to meet the requirements of your application. We offer a number of different designs to suit the needs of any pipe-work configuration, with different lengths, orientations and end connections available. Solartron ISA provides complete Engineering support from initial design and sizing concepts to manufactured final products.

Benefits

- Proven flow metering technology and robust design
- Accurate flow metering of slurries and high viscous liquids with suspended solids
- Wedge Meter profile is inherently robust with no maintenance and inspection required
- Low permanent pressure loss resulting in energy savings



Applications

- ✓ Liquids with Suspended solids
- ✓ Slurries
- ✓ High Viscosity Corrosive and Abrasive Liquids
- ✓ Bi-Directional Process Flow Measurement

Key Parameters

- ✓ Proven Technology
- ✓ Robust design
- ✓ Low Permanent Pressure Loss
- ✓ Flow Metering of Low Reynolds Numbers
- ✓ Accurate Flow Measurement
- ✓ Suitability for most process conditions

Standards

- ✓ ISA Standard Design
- ✓ ASME B31.3
- ✓ ISO9001
- ✓ PED 97/23/EC

FLOWSTREAM Wedge Meter

Specifications

Functional Specifications

Line Size

DN15 (1/2") to DN800 (32")

Larger lines sizes available on request

Pressure Ratings

Ranging from ANSI 150# to API 15K PSI

Types of Wedge Meters

Spark Eroded (Up to 4" Line Size),

Solid Welded (Line Size 6" to 10"),

Fabricated (Line Size 12" and Above)

End Connections

Flanged, Butt-Weld, Hub

Further connections are available on request

Types of Tappings

Flanged, Thread O'let / Socket O'let,
Remote Seals

Further types are available on request

Wedge Ratio

0.2 to 0.5

(Ratio of Wedge height to pipe diameter,
determining the discharge coefficient)

Reynolds Number

≥500

Accuracy

Typically ±5% un-calibrated,
±1% calibrated

NDT Testing

Hydro-testing, Dye Penetrant, Radiography

Additional options:

Magnetic Particle, PMI, Gas and Water Calibrations

Further testing is available on request

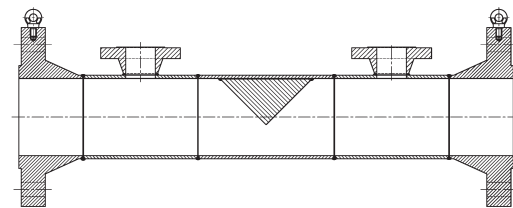
Flow Turndown

Typically >10:1, depending on Transmitter configuration

Wedge Meter Material

Carbon Steel, Low Temperature Carbon Steel, Stainless Steel, Duplex,
Super Duplex, 6 Mo, Aluminum, Monel, Hastelloy, Inconel

Further materials are available on request



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