



WEDGE METER

Wedge flow meter consists of a pipe inside which a V-shaped wedge is fitted. Through this constriction, a differential pressure is generated which is proportional to the volume flow rate. Due to the symmetry of the wedge meter, measurement is possible in both directions. The pressure tappings are on either sides of the wedge. Wedge Meter is best suited for the measurement of challenging process fluids such as slurry, liquids with entrained gas, liquids with particles, abrasive fluids etc.

SPECIAL FEATURES

- ◆ Accurate flow metering of highly viscous liquids with suspended solids
- ◆ Wedge meter design based on ISO5167-6 industry standards
- ◆ Accurate, repeatable and reliable
- ◆ Low maintenance
- ◆ Low permanent pressure loss
- ◆ Extended working life
- ◆ For very high and very low Reynolds numbers
- ◆ Bi-directional measurement possible

APPLICATIONS

- ◆ Oil and Gas
- ◆ Water and waste water treatment and distribution
- ◆ Chemical and Petrochemical Industries
- ◆ Mining and basic material industry
- ◆ Pulp and paper industry
- ◆ Cement manufacturing industry

TECHNICAL SPECIFICATION

Design Standards:

ISO 5167-6 Industry Standards

Line Size:

DN50mm to DN800mm larger lines sizes available on request

Pressure Rating:

Ranging from ANSI 150# -2500# (The max. operating pressure of the wedge flow meter depends upon the pipe class and is limited through the maximum permissible operating pressure of the flange or the end connection)

Material:

Carbon steel, Low-temperature carbon steel, Stainless steel, Duplex, Super Duplex, 6 Mo, Aluminium, Monel, Hastelloy, Inconel

Mounting Style:

Flanged/Butt welded/Hub (Possible to install vertically or horizontally)

Types of Tappings:

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

Wedge Ratio:

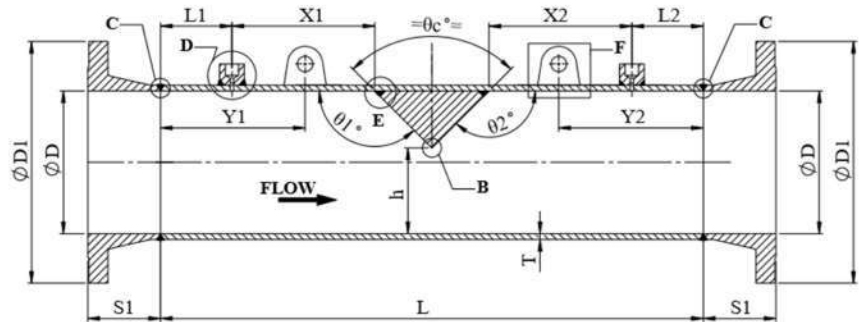
0.2 to 0.6 (Ratio of Wedge height to pipe diameter, determining the discharge coefficient)

Markings:

Marked with the line size, bore size, material of construction and additional technical details as per request

Design Specifications:

WEDGE METER:



Sizes: DN 50mm - 600mm

Design standard: ISO 5167-6

Beta (d/D): $0.377 \leq \beta \leq 0.791$

Wedge ratio: $0.2 \leq h/D \leq 0.6$

Reynolds number: $1 \times 10^4 \leq ReD \leq 9 \times 10^6$

Company address:

📍 **Flow Measures Global,**
9921, Carmel Mountain Rd,
Suite 300, San Diego, CA-92129
United States of America.

📍 **Flow Measures Private Limited,**
Second Floor, New Door No. 4/2,
Old Door No. 9/2, Sundaram Street, Vetri Nagar,
Chennai - 600 082 Tamil Nadu, India