

BWFE

Wedge Flowmeter



OVERVIEW

Operation

The model BWFE wedge flow meter consists of a pipe inside which a v-shaped wedge is fitted. Due to its design, the wedge flow meter is suitable for nearly all types of flow, especially for highly viscous, dirty, abrasive, slurry or muddy media, and also for flow with a very low Reynolds number of 300 up to very high Reynolds numbers of several million. The wedge flow meter is suited for bi-directional measurement. The welded construction and wide range of materials ensure a reliable measurement, even under extreme pressure and temperature conditions or with aggressive media.

Application

- Refining
- Oil & Gas
- Metals & Mining
- Chemical

Materials

- Carbon steel
- Low temperature carbon steel
- Low alloy steels
- Stainless steel
- Special materials on request (e.g. Hastelloy C276, Inconel 625, Monel 400, Duplex, Super Duplex etc.)



OPERATING DATA

Nominal Size

DN15...DN600

H/D Ratios

0.2 / 0.3 / 0.4 / 0.5

Max Operating Pressure

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. There are deviations due to the material and temperature characteristics of the respective flange design

Uncalibrated

±3 %

Repeatability

±0.2 %

Wet Calibrated

±0.5 %

Compact

Saddle style remote seal connection reduces the weight of the meter by 50%.

The compact style is designed to reduce pipe stand off to address plugging and cleaning concerns.



Flanged

The flanged model uses a 2-inch NPS / DN50 connection. This traditional style is used if flushing rings and valve assemblies are required.



Threaded

The threaded model uses a ½ inch NPT connection with tubing. It is ideal for applications where plugging is less of a concern that erosion or wear.

