



Differential Wedge Meter

The Sur-Tech wedge flow meter accommodates most flows, even the most abrasive. This type of differential technology is a proven, consistent measuring technology for media in upstream, midstream and downstream applications. Accuracy and reliability are achieved with rugged construction, practical design, and a simple principle of operation. The wedge flow meter stands alone in its ability to maintain the necessary square root relationship between flow rate and differential pressure for almost any type of flow.

**SUR-TECH FLANGED DIFFERENTIAL
WEDGE METER**

STDWM-05

FEATURES

- Reduced pumping costs; Bi-directional
- Mass flow output with multivariable transmitter (accuracy $\pm 0.5\%$ calibrated)
- Repeatability: $\pm 0.2\%$ of readings; Turndown ratio: 10:1
- High viscosity measurement to 3000 and higher
- Abrasive and erosive slurries, viscous and dirty fluids, clean fluids, steam or gasses
- Designed and manufactured in accordance to ISO 5167-6

DIFFERENTIATOR

The wedge meter functions similarly to a segmental orifice. A segmental orifice still has a small restriction in the line around the opening. The wedge design allows solids and particulates to be swept through the opening. It also enables measurements with Reynolds Numbers down in the laminar range to 500 as a minimum. Wedge meters generally have a higher turndown ratio than segmental orifice plates.

SPECIFICATIONS

Sizes	0.5... 16 in. (13... 406.40 mm)
Accuracy	$\pm 3.0\%$ uncalibrated; up to 0.5% calibrated
Certifications	ISO-9001 certified design and fabrication
	Manufactured to ASME, ANSI B31.1, NACE MR0175, CSA-Z299.3
Applications	Water, oil, steam, air/gas, other liquids
Temperature Rating	Up to 800° F (26.67° C)
ANSI	150# up to 2500#
Material	Body & Wedge: 316/316L
	Instrument Connection: Carbon Steel or Stainless Steel
Optional Hardcoating	Tungsten Carbide (WC) or Chromium Carbide (CrC)

WORKED EXAMPLE

Part number format as follows; **SIZE-ANSI-SCH-CONFIG-FACING-TAP-MTL**

STDWM-4-600-80-F-RF-F-316	Differential Wedge Meter 4" 600# Sch.80 Flange RF x Flange RF, 2 Flanged taps in 316 St. Steel
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