

# PFS WedgeX Flow Meter

## Accuracy and Reliability for Demanding, Rugged Line Fluid Applications

**P**rimary Flow Signal, Inc. is a leader in the design and manufacture of Venturi differential flow meters. Field-proven in hundreds of thousands of installations worldwide, differential metering ensures the most accurate and reliable metering available anywhere. Through innovation, coupled with peerless engineering and technical expertise, PFS delivers customers versatile, ultra-long lasting liquid and gas metering solutions for a variety of applications and industries.

The PFS **WedgeX** flow meter is an unsurpassed solution that handles heavily contaminated, abrasive, or irregular line fluids, such as drilling muds or tar sands.

The WedgeX design is derived from the standard wedge flow meter, but allows for a direct coupled differential pressure transmitter, which results in a compact and cost effective unit that virtually eliminates both gauge line induced and plugged tap related measurement errors.

Wedge flow metering is intended for high-density, slurry type, or contaminated line fluid applications, including difficult-to-meter, air entrained liquids. WedgeX meters can be customized to measure fluids over a large range of pressures and Reynolds numbers; making them ideal for many applications, including shale gas extraction. With the proprietary gas evacuation system, even heavily gas entrained liquids can be accurately measured.

### WedgeX Features

#### Accuracy:

<1.0" +/- 0.75" of coefficient accuracy (wet calibrated)  
+/- 0.50% of actual flow rate over calibrated range

#### Repeatability: +/- 0.20%

**Line size:** unlimited range, with examples from 1.0" to 3.0" in service

**Service capability:** gas or liquid, including dirty, contaminated, or slurry

**Materials:** virtually any machinable or weldable material, including carbon steel, 316 or 304 stainless steel

**End configuration:** threaded, flanged, or Victaulic®

**Temperature:** dependent upon wetted materials and gasket material

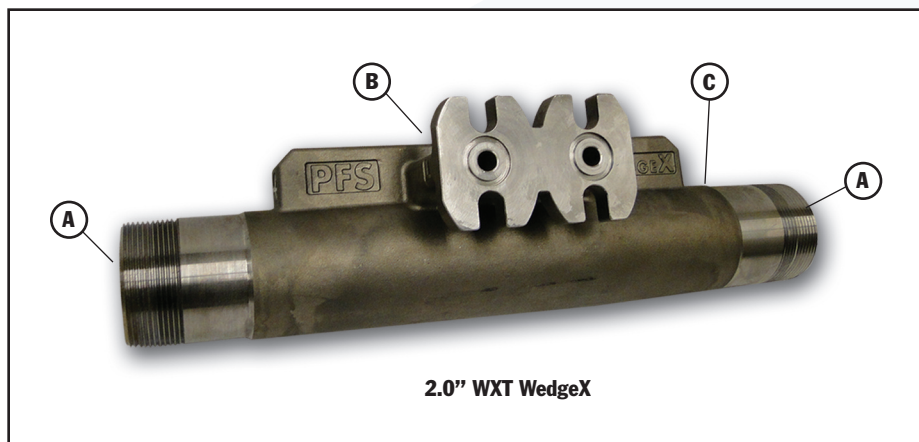
**Line pressure capacity:** maximum working pressure up to 1,500 psig ANSI B16.5 flange rating

# Data Sheet

## WedgeX

### The WedgeX family includes the following products:

WXT	Threaded Ends
WXTMT3V	Threaded Ends, Manifold, Transmitter, 3 Valve
WXTMT	Threaded Ends, Manifold, Transmitter
WXTHTT	Threaded Ends, High Temperature, Transmitter
WXF	Flanged Ends
WXFMT3V	Flanged Ends, Manifold, Transmitter, 3 Valve
WXFMT	Flanged Ends, Manifold, Transmitter
WXFHTT	Flanged Ends, High Temperature, Transmitter



- A.** Threaded Ends
- B.** DP Transmitter Mount
- C.** 316 Stainless Steel; hardened wedge options are available

### Support Services

In addition to a wide range of differential producing Venturi flow meters, orifice plates, WedgeType™ flow meters, and open channel flow elements, PFS provides comprehensive, specialized services for new and existing flow meters, including rehabilitation, hydraulic analysis, and full engineering support.

### Certifications

ISO 9001, ASME S, U, R; European PED Module H; and other internationally recognized certifications, such as GOST, IBR, and CRN.

**Contact a Field Application Engineer for assistance.**



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*Primary Flow Signal, Inc. products and operations are certified to industry standards for safety and performance. Visit our web site for details.*



**All PFS products are proudly made in the U.S.A.**