Sur-Tech Instruments Ltd

United Kingdom • www.sur-tech.uk tel: +44 (0) 3330 156137 email: sales@sur-tech.uk





Wafer Turbine Flow Meter

The in-line turbine flow meter was developed for liquid applications where accuracy and dependability are needed. Our stainless-steel body incorporates a helical turbine with tungsten carbide shaft and bearing. It provides an efficient, long service life and a cost-effective solution for your measurement requirements.

Simple in design and construction, using modified upstream and downstream flow straighteners for a high degree of flow accuracy. It's between-the-flange design eliminates the need for mating flanges, requiring less space in the flow line, lowering costs for easy, one-man installation.

The meter produces a sine-wave signal proportional to its volumetric flow rate. With optional electronics, this flow meter provides local flow rate and volume totalization and interfaces with most instruments, PLCs and computers.

STWTFM-03

FEATURES

- Accurate and repeatable flow measurement from 0.6...3 gpm (20...100 bpd) to 500...5000 gpm (17,000...171,000 bpd)
- Unique between-the-flange design eliminates need for mating flanges
- Superior materials of construction for high performance in aggressive environments
- Wafer-style mounting configurations for limited space requirements
- Modified flow straighteners for enhanced fluid dynamics

SPECIFICATIONS

in

MATERIALS OF CONSTRUCTION	Body and internal wetted parts: 316L stainless steel Bearings: Tungsten carbide Turbine: CD4MCU stainless steel Shaft: Tungsten carbide
ACCURACY	±1% of reading for 7/8 in. and larger meters ±1% of reading over the upper 70% of the measuring range for 3/8 in., 1/2 in. and 3/4 in. meters
REPEATABILITY	±0.1%
CALIBRATION	Water; NIST Traceable Calibration Certificate available, consult factory for details
SIZE RANGES	3/8" to 10"
PRESSURE RATING	150 – 900 ANSI
OPERATING TEMPERATURE	–150°F350°F (–101°C177°C) standard Temperatures to 450°F (232°C) with high-temp pickup, consult factory for details
END CONNECTIONS	Wafer-style ASME/ANSI B16.5-1996
APPROVALS	For Explosion-proof models only: Class I Div 1 Groups C,D; Complies to UL 1203 and CSA 22.2 No. 30 Met Labs File No. E112860