



TCF Series Sanitary Turbine Flowmeter



Description:

A turbine flow meter is a volumetric flow metering device. The meter consists of a rotor and bearing assembly suspended on a shaft, which is mounted to a support device. This assembly is mounted inside a housing of a calibrated internal diameter. As fluid passes through the flow meter housing, the rotor will spin at a rate proportional to the volume of liquid passing through the housing. A magnetic or modulated pick-off sensor is used to detect the passage of each rotor blade and generate a frequency output. The frequency output can be read directly with the end users electronics or further processed to convert to a linear analog output.

Technical Data (TCF Series)

Nominal Diameter DN / mm Inch	20 3/4"	25 1"	40 1.5"	50 2"
Min / Max. Flow Range (LPM)	13 - 133	26 - 266	56 - 560	110 - 1100
Rated Nominal Pressure Bar	15 Max.			
Max Temperature	120°C (Special 250°C on request)			
Viscosity Range	upto 100 cp			
End Connections	Triclover Connection			
Linearity	±0.5% (of Actual Flow)			
Repeatability	0.05%			
Rangeability	10 - 100%			
Pressure Drop	0.2 Bar			
Material of Construction	Body - SS316 Rotor - SS430 / ANC 21 Bearing Support - ANC 21 Bearing - TC / SS Ball Bearing			

Features:

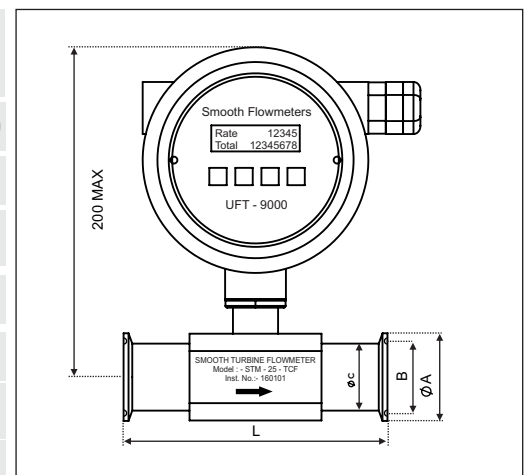
- ◆ Measurement Accuracy of $\pm 0.5\%$ of measured value. Repeatability $\pm 0.05\%$.
- ◆ Explosion proof Amplifier Assembly.
- ◆ Pneumatic or electronic filling controls.
- ◆ Meter mounted & remote displays.
- ◆ Rugged Design & Reliable Functions.
- ◆ Complete tailor made solutions to meet requirement.
- ◆ Meters with Sanitary End connections & Specifications.
- ◆ Versions with PTFE coated internals for corrosive applications.

Advantages:

- ◆ Low total cost of ownership.
- ◆ Long Life with low maintenance.
- ◆ Long term accuracy without recalibration.
- ◆ Wide range of fluid applications, fast response, stability.

Application:

Typical applications include measuring or batch controlling water, WFI, USP water, deionized water, vaccines, clean pharmaceuticals, milk, cream, vegetable oil, wine, beer, spirits, soft drinks, juices and any other clean, consumable liquid



Model	A	B	C	L
TCF 20	50.5	43.5	38.6	118
TCF 25	50.5	43.5	38.6	152
TCF 40	64.0	56.5	51.6	184
TCF 50	77.5	70.5	64.1	200

Smooth Flowmeters