

- ❑ Pipe Sizes ½ - 24"
- ❑ Lifetime Warranty
- ❑ Industry's Highest Accuracy: ±0.5%



Polycarbonate
Faceplate



High Impact Enclosure

External Cord Grip
No Internal Wiring



ETFE Tefzel® Paddle

- ❑ Chemically Inert to Virtually All Chemicals
- ❑ Superior Anti-Stick and Low Frictional Properties
- ❑ Excellent Mechanical Properties
- ❑ Exceptional Impact Strength
- ❑ Superior Chemical and Wear Resistance vs PVDF

The TIP Digital Flow Meters are easy to install with exceptional guaranteed long-life performance. The TIP Series Paddle Wheel Flow Meters are highly repeatable, exceptionally accurate, extremely rugged and offer outstanding value and require no maintenance.

TIP Series has a process-ready output signal with a wide dynamic flow range of 0.3 to 33 ft/s | 0.1 to 10 m/s.

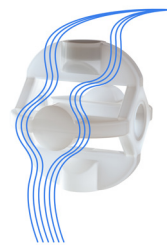
TIP Series sensors are offered in various materials and are available to measure ½ - 24" pipe sizes.

The many material choices, including PVC, PP and PVDF making this model highly adaptable and chemically resistant to many corrosive liquid process applications.

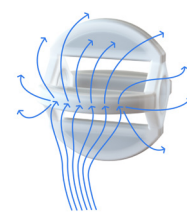
The TIP Flow Meters can be installed using Truflor's® extensive line of ANSI and DIN fittings. Truflor® offers SDR Pipe Saddles from DN15-DN600 in GFPP material.

New ShearPro® Design

- ❑ Superhydrophobic Design
- ❑ Contoured Flow Profile
- ❑ Reduced Friction
- ❑ Reduced Turbulence
- ❑ 78% Less Drag than Old Flat Paddle Design*



ShearPro®



Competitor 'A'

*Ref: NASA "Shape Effects on Drag" **

Zirconium Ceramic Rotor | Bushings

- ❑ Industry's Highest Impact and Chemical Resistant Properties
- ❑ Up to 15x the Wear Resistance vs. Regular Ceramic
- ❑ Nano-Polished Mirror Finished vs. Regular Ceramic - Less Friction
- ❑ Integral Rotor Bushings Reduce Wear & Fatigue Stress

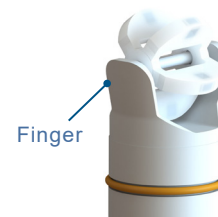


Through-Pin Design

- ❑ Eliminates Finger Spread
- ❑ No Lost Paddles
- ❑ Increased Temp. Rating
- ❑ 360° Housing | Protects Paddle from Particulate, Reducing Wear

ShearPro®

Competitor 'A'



Features

- ❑ Large Bright LED Display | Visible in the Dark
- ❑ Flow Rate + Totalizer | Resettable
- ❑ Flow Range | 0.3 to 33 ft/s
- ❑ Eprom Memory | Totalizer Value Will Not Be Lost
- ❑ Retrofits into Signet® Type Fittings
- ❑ Double O-Ring Seal
- ❑ Dual NPN Pulse Outputs



General

Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s
Pipe Size Range	½ to 24"	DN15 to DN600
Linearity	±0.5% of F.S @ 25°C 77°F	
Repeatability	±0.5% of F.S @ 25°C 77°F	

Wetted Materials

Sensor Body	PVC (Dark) PP (Pigmented) PVDF (Natural)
O-Rings	FKM EPDM* FFKM*
Rotor Pin Bushings	Zirconium Ceramic ZrO ₂
Paddle Rotor	ETFE Tefzel®

Optional

Electrical

Frequency	49 Hz per m/s nominal	15 Hz per ft/s nominal
Supply Voltage	5 to 24 VDC ±10% regulated	
Supply Current	<1.5 mA @ 3.3 to 6 VDC	<20 mA @ 6 to 24 VDC

Max. Temperature/Pressure Rating - Standard and Integral Sensor | Non-Shock

PVC	180 psi @ 68°F	12.5 bar @ 20°C
	40 psi @ 140°F	2.7 bar @ 60°C
PP	180 psi @ 68°F	12.5 bar @ 20°C
	40 psi @ 190°F	2.7 bar @ 88°C
PVDF	200 psi @ 68°F	14 bar @ 20°C
	40 psi @ 240°F	2.7 bar @ 115°C

Operating Temperature

PVC	32°F to 140°F	0°C to 60°C
PP	-4°F to 190°F	-20°C to 88°C
PVDF	-40°F to 240°F	-40°C to 115°C

Standards and Approvals

CE FCC
RoHS Compliant

See Temperature and Pressure Graphs for more information

Temperature | Pressure Graphs | Non-Shock

Note: The Pressure/Temperature graphs are specifically for the Truflo® Flow Sensors. During system design the specifications of all components must be considered.

Model Selection

TIP - PF - S

Body Material	Signal Output Option	Body Length	Seals
P - PVC PP - PP PF - PVDF	4-20mA Output (Std) Suffix 'RS' For RS-485 Output	S - ½"- 4" Pipe L - 6"- 24" Pipe	FKM (Std) Suffix 'E' For EPDM

