

- ❑ No Programming | Quick Installation
- ❑ Lifetime Warranty\*
- ❑ Industry's Highest Accuracy:  $\pm 0.5\%$



### 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 TK Series Digital Flow Meters are easy to install with exceptional guaranteed long-life performance. TK Series Paddle Wheel Flow Sensors are highly repeatable, extremely rugged sensors that offer outstanding value and require no scheduled maintenance.

The TK 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. The sensor measures liquid flow rates in full pipes.

The Truflo® TK Series sensors are offered in various materials and are available from 1/2 - 4" pipe sizes. The many material choices, including PVC, PP and PVDF make this model highly adaptable and chemically resistant to many corrosive liquid process applications.

The TK Series flow meter bodies are true-union designed up to 4" just as any true-union ball valve is designed. All models come completely pre-programmed with a bright LED Display that rotates 360°.

The Truflo® TK Series also comes equipped with a lifetime warranty on the paddle wheel assembly.

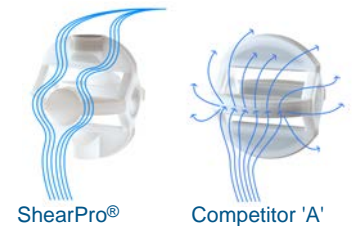


### Features

- ❑ Pulse | 4-20mA | Voltage Outputs
- ❑ LED Flow Indicator
- ❑ No Programming Required
- ❑ Low Pressure Drop
- ❑ NEMA 4X | IP 66 Protection
- ❑ True Union Design 1/2 - 4"

### New ShearPro® Design

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



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

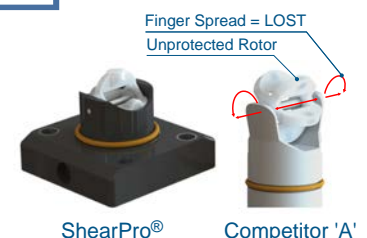
### Zirconium Ceramic Rotor | Bushings

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



### Through-Pin Design

- ❑ Eliminates Finger Spread
- ❑ No Lost Paddles
- ❑ Increased Temp. Rating
- ❑ 360° Housing Protects Rotor



### Technical Specifications

General				
Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s		
Pipe Size Range	½ to 4"	DN15 to DN100		
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 <sub>2</sub>			
Paddle   Rotor	ETFE Tefzel®			
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	40 psi @ 140°F	12.5 bar @ 20°C	2.7 bar @ 60°C
PP	180 psi @ 68°F	40 psi @ 190°F	12.5 bar @ 20°C	2.7 bar @ 88°C
PVDF	200 psi @ 68°F	40 psi @ 240°F	14 bar @ 20°C	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		
Outputs				
TKW Series	NPN Pulse   Voltage   4-20mA Outputs			
Standards and Approvals				
CE   FCC   RoHS Compliant				

See Temperature and Pressure Graphs for more information

Optional\*

### 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

TKW - [ ] - [ ] - [ ] - [ ]

Material	Pipe Size	End Connections	Seals
P - PVC	15 - ½"    50 - 2"	S - Sch 80 Soc	FKM   Std
PP - PP	20 - ¾"    80 - 3"	T - NPT	E - EPDM
PF - PVDF	25 - 1"    100 - 4"	F - ANSI 150lb Flange	K - FFKM   Kalrez®
	40 - 1 ½"	B - Butt Fusion	

