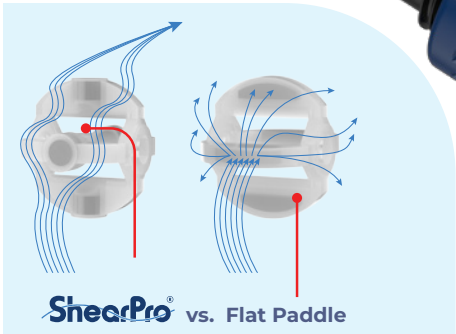


# TKB Series — Battery Powered In-Line Paddle Wheel Flow Meter



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

- ✓ Battery Powered (no wires)
- ✓ Flow | Total
- ✓ Low Pressure Drop
- ✓ Revolutionary ShearPro® Paddle Wheel Design
- ✓ NEMA 4X | IP 66 Protection
- ✓ True Union Design 1/2" - 2"
- ✓ Flange Connection 3" - 4"



## New ShearPro® Design

- ✓ Contoured Flow Profile
- ✓ Reduced Turbulence = Increased Longevity
- ✓ 78% Less Drag than Old Flat Paddle Design†

†Ref: NASA "Shape Effects on Drag"

## Tefzel® Paddle Wheel

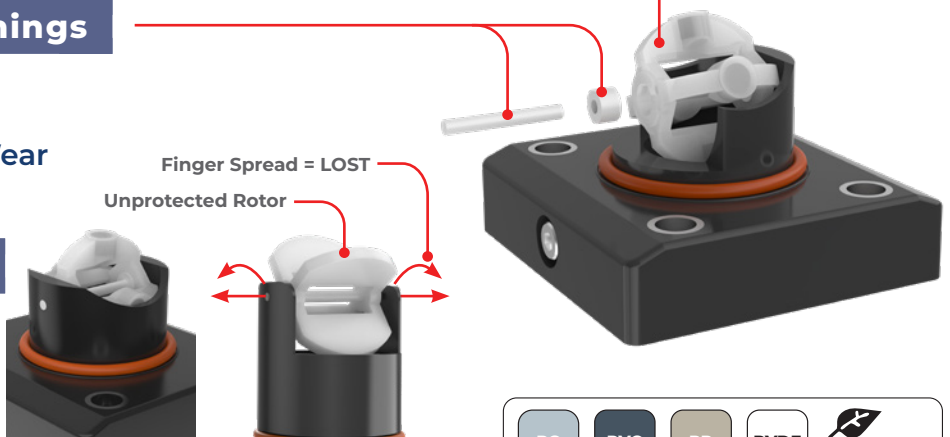
- ✓ Superior Chemical And Wear Resistance vs PVDF

## Zirconium Ceramic Rotor | Bushings

- ✓ Up to 15x the Wear Resistance vs. Regular Ceramic
- ✓ Integral Rotor Bushings Reduce Wear and Fatigue Stress

## ShearPro® Through-Pin Design

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



ShearPro® vs. Competitor 'A'



## Engineered for accuracy, ruggedness and longevity

The Truflo® TKB Series digital in-line flow meters are easy to install with exceptional guaranteed long-life performance. They are highly repeatable, extremely rugged sensors that offer outstanding value and require no scheduled maintenance.

TKB Series flow meters are offered in a variety of 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 TKB Series flow meter bodies are true-union designed up to 2" just as any true-union ball valve is designed, and flanged from 3" - 4". They come completely pre-programmed with a bright LCD display that rotates 360°.

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

# TKB Series — Battery Powered In-Line Paddle Wheel Flow Meter



## 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	
Fluid	Water or Chemical Liquid-Viscosity Range: .5-20 centistokes	
Flow Velocity	10 m / s max	
Low Cut	0.3 m / s min.	
Operating Pressure	150 PSI (10 Bar) @ Ambient Temp-Non Shock	
Range Ability	10 : 1	
Response Time	Real Time	
Flow Total Meter	Range = 0~999999 ; Unit = Gallon or Liter or Ton (KL) Selectable	
Repeatability	Range = 0.0~999.9 ; Unit = GPM or LPM or CMH Selectable	
Accuracy	± 0.5% of F.S. @ 25°C	
Wetted Materials		
Sensor Body	PVC (Dark)   PP (Pigmented)   PVDF (Natural)	
O-Rings	FKM   EPDM*   FFKM*	
Rotor Pin   Bushings	Zirconium Ceramic   ZrO2	
Paddle   Rotor	ETFE Tefzel®	
Electrical		
Operating Voltage Battery	3.0 VDC	
Battery	Lithium Battery (CR2477T)	
Life of battery	>1 Year Normal >2 Years Eco Mode	
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
Standards and Approvals		
CE   FCC   RoHS Compliant		

See Temperature and Pressure Graphs for more information

\*Optional

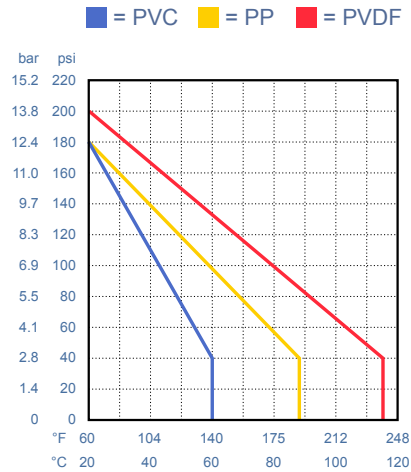
# TKB Series — Battery Powered In-Line Paddle Wheel Flow Meter



## 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

TKB -  -  -  -  **NOTE:** Leave blank for standard options

Pipe Size		Material	End Connections	Seals
15: ½"	50: 2"	<b>P:</b> PVC	Sch 80 Soc (Standard on PVC)	<b>FKM</b> (std)
20: ¾"	80: 3"	<b>PP:</b> PP	<b>T:</b> NPT (Standard on PP/PVDF, available on PVC)	<b>E:</b> EPDM
25: 1"	100: 4"	<b>PF:</b> PVDF	<b>F:</b> ANSI 150lb Flange	<b>K:</b> FFKM   Kalrez®
40: 1½"			<b>B:</b> Butt Fusion	

## Displaying Flow Rate | Flow Totalizer



**r** indicates Default Flow Rate Mode

Press and hold **SET** for 3 sec to change from Flow Rate to Flow Total

Press and hold **▲** for 3 sec to view 8 + 9 digits while in Totalizer Screen

Mode of Operation (Eco) = Extended Battery Life

Highlighted to Indicate Programmed Unit of Measurement

Battery Life

Flow Total

Flow Rate