TK3P SERIES
Paddle Wheel Flow Meter

CORROSION

truflo®

- No Programming Required
- Lifetime Warranty
- Industry's Highest Accuracy: ±0.5%

Re-Designed Tefzel® Rotor

- Patent Pending ShearPro® Contoured Paddle
- Reduced Turbulence = Reduced Wear = Longer Life
- Outstanding Flex Fatigue & Creep Resistance
- Surpassed Only by Teflon® in Chemical Resistance
- Excellent Mechanical & Impact Properties
- Superior Wear Resistance vs PVDF

Product Description

The TK3P Series Digital Flow Meters are easy to install with exceptional guaranteed long-life performance. TK3P Series Paddle Wheel Flow Sensors are highly repeatable, extremely rugged sensors that offer outstanding value and require no scheduled maintenance.

The TK3P 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® TK3P Series senors are available from ¼ - 4" pipe sizes. All models come completely pre-programmed with a bright LED Display that rotates 360°.

The Truflo® TK3P Series also comes equipped with a lifetime warranty on the paddle wheel assembly.

New ShearPro® Rotor Design

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

ShearPro® Competitor

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

Zirconium Ceramic Rotor | Bushings

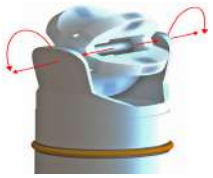
- Industry's Highest Impact and Chemical Resistant Properties
- Up to 15x the Wear Resistance vs. Regular Ceramic
- Nano-Polished Mirror Finished vs. Regular Ceramic - Less Friction
- Integral Rotor Bushings Reduce Wear & Fatigue Stress

Shielded Rotor Design

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

ShearPro® Competitor

360°Shielded Rotor



Finger Spread = Lost Rotor

Features

- Display Rotates 360°
- Bright LED Display | Visible in the
- Dark No Programming Required
- No Pressure Drop
- NEMA 4X | IP66 Protection
- Password Protected Security

316 SS | ETFE | FKM

RoHS Compliant CE

**https://www.grc.nasa.gov/www/k-12/airplane/shaped.html

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Specifications

General

Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s
Pipe Size Range	¼ to 4"	DN08 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	316 SS
O-Rings	FKM (std) | EPDM | FFKM
Rotor Pin | Bushings	Zirconium Ceramic | ZrO_2
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

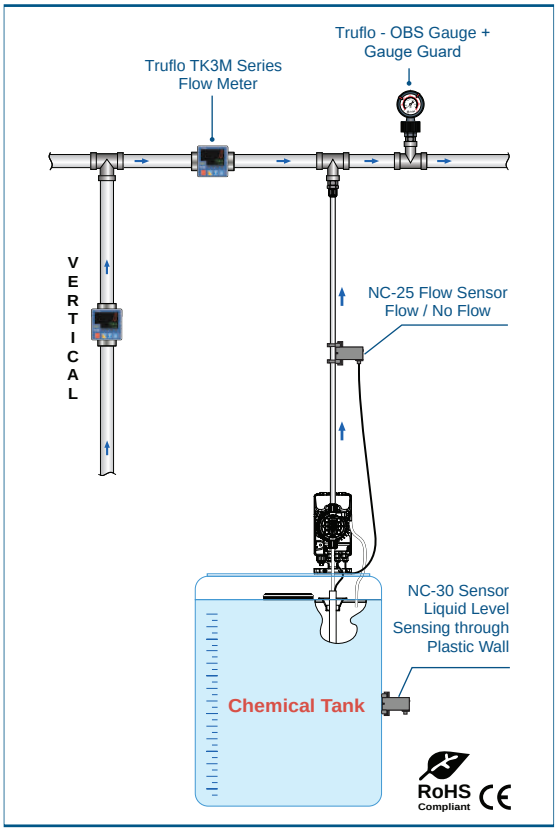
Operating Temperature

316 SS	-40°F to 212°F	-40°C to 100°C

Output and Approvals

TK3P Series : Flow Pulse Output + Totalizer Pulse Output II RS-485 Opt
RoHS Compliant

Application Example



Model Selection

TK3P – ☐ – ☐ – ☐ – ☐

Model	Output	Pipe Size	End Connections	Seals
P- Frequence Pulse Output RS-485 Modbus*	**P** - Frequency Pulse **R** - RS-485 Modbus	**15** - ½" **20** - ¾" **25** - 1" **40** - 1 ½" **50** - 2" **80** - 3" **100** - 4"	**S** - Sanitary **T** - MNPT **F** - FNPT **F** - ANSI 150lb Flange	**FKM** I Std **E** - EPDM **K** - FFKM I Kalrez®

* Optional