

TKRS | TKRP | TKRM ROTATOR SERIES PADDLE WHEEL FLOW METER

Industry's Most Accurate



- Flow Rate & Totalizer
- Password Security Protected
- Zirconium Ceramic | Rotor | Bearings
- Display Rotates 360 Degrees Bright
- LED Display

PVC

PP

PVDF

SERIES : TKRS | TKRP | TKRM
CONNECTION : SOC | NPT | Flange | Butt | DIN
SEALS : FPM | EPDM | FFKM

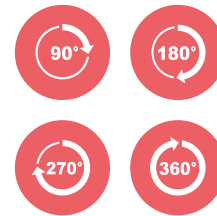


On Paddle Assembly



Zirconium Ceramic Rotor Pin & Bearings

M12 Connection



Truflo's Quarter-Master® Technology



ROTATES 360°

FEATURES

- High Accuracy | $\pm 0.5\%$ of Full Scale
- No K-Factor Programming
- Unit of Flow Measurement is Selectable LPM | GPM | KL
- Corrosion Resistant | PVC | PP | PVDF*
- Display Rotates 360 Degrees
- Easy Installation | No Mounting Kits Required
- High Flow Range
0.3m/s - 10m/s | 0.98 ft/s - 32.8 ft/s
- Easy to Program Relay Output
- Compact Design
- Large Bright LED Digital Display
- Horizontal | Vertical Installation
- Size Range 1/2" - 4"
- Low Pressure Drop
- NEMA 4X Enclosure
- Suitable for Corrosive Environments
- Password Protected Security
- True-Union Design 1/2" - 2" | Flanged 3" - 4"
- M12 Quick Disconnect

* Note : CPVC Union Ends Available

SPECIFICATIONS

Fluid	Water or Liquid Chemicals Viscosity Range: 0.5-20 centistokes
Accuracy	> $\pm 0.5\%$ of F.S. @ 20°C (68°F) Repeatability $\pm 0.5\%$ of F.S.
Max Flow Velocity	10 m/s max 32.8 ft/s max
Min Flow	0.3 m/s min. 0.98 ft/s min
Operating Pressure	150 psi (Non-Shock)
Turndown	33:1
Response time	Real Time
Material of Construction	Paddle : Tefzel® Body : PVC PP PVDF Shaft : Zirconium Ceramic Seals : FPM (Std) EPDM FFKM
Operating Temperature	PVC < 60°C (140°F) PP < 80°C (176°F) PVDF < 110°C (230°F)
Electronics	+ 50°C (122F)
Protection Class	IP66 NEMA 4X
Approval	CE Rohs
Current Draw	60mA Max
Power Supply	10-30VDC

*Consult Factory for Details

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K-Factors

Size	LPM	GPM
½"	124	471
¾"	72	274
1"	54	171
1 ½"	19	72
2"	10.3	39
3"	4.7	18
4"	2.1	8

Standard Pipe Size

Pipe Size O.D.	ANSI ID Inches		DIN D mm	Flow Rate LPM USGPM	
	Sch 40	Sch 80		0.3m/s min.	10m/s max.
DN15 (½")	0.62	0.55	Ø20	3.5 / 1.0	120 / 32
DN20 (¾")	0.82	0.74	Ø25	5.0 / 1.5	170 / 45
DN25 (1")	1.00	0.96	Ø32	9.0 / 2.5	300 / 79
DN40 (1 ½")	1.40	1.50	Ø50	25.0 / 6.5	850 / 225
DN50 (2")	2.00	1.90	Ø63	40.0 / 10.5	1350 / 357
DN 65 (2 ½")	2.50	2.30	Ø75	60.0 / 16	1850 / 357
DN80 (3")	3.10	2.90	Ø78	90.0 / 24	2800 / 739
DN100 (4")	4.00	3.80	Ø96.50	125.0 / 33	4350 / 1149

Flow Rate Min/Max

Pressure vs. Temperature | psi | Water | Non-Shock

NOMINAL SIZE		PVC				PP				PVDF				
INCHES	mm	30° F	71° F	106° F	121° F	- 5° F	86° F	121° F	141° F	- 5° F	71° F	106° F	141° F	176° F
		70° F	105° F	120° F	140° F	85° F	120° F	140° F	175° F	70° F	105° F	140° F	175° F	210° F
½ - 2	15-50	150	120	100	30	150	110	90	55	150	125	100	85	55
2 - ½	65	150	120	100	NA	150	95	70	40	150	125	100	85	55
3	80	150	120	100	NA	150	95	70	40	150	125	100	85	60
4	100	150	120	100	NA	150	95	70	40	150	125	100	85	60

PRODUCT SELECTION

EXAMPLE

TKRP ---- 25 ---- P ---- E ---- T ---- RS ---- M
(1) (2) (3) (4) (5) (6) (7)

1. SERIES

- a) TKRS = Paddle Wheel Flow Meter with Relay + Pulse
- b) TKRP = Paddle Wheel Flow Meter - (Flow Rate + Flow Total) Pulse Output
- c) TKRM = Paddle Wheel Flow Meter - 4-20mA + (Flow Rate + Flow Total) Pulse Output

2. PIPE SIZE

15 | (½") | 20 | (¾")
25 | (1") | 40 | (1 ½")
50 | (2") | 80 | (3") | 100 | (4")

3. BODY MATERIAL

P = PVC
PP = Polypropylene
PF = PVDF * CPVC Socket Unions Available

4. SEALS*

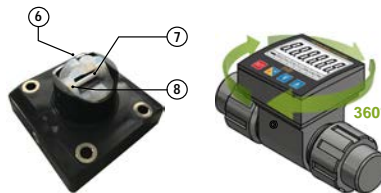
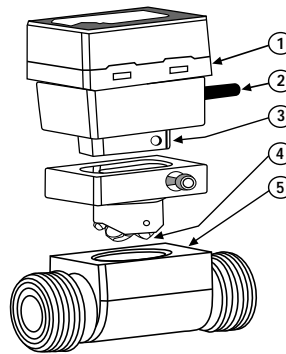
E = EPDM (Optional)
F = FFKM (Optional) * FPM is Standard

5. END CONNECTIONS

S - Sch 80 Soc
T - NPT
B - SDR11 Butt
D - DIN
F - ANSI 150 lb

- 6. RS = TKP Series (Only) with RS-485 MODBUS
- 7. M = M12 - 2 Meters - Quick Disconnect (Option)

PARTS TK SERIES



1. Flow Controller
2. Power Supply |10-30VDC
3. Hall Sensor Technology
4. Paddle Wheel
5. Body | PVC | PP | PVDF*
6. Tefzel® Paddle
7. Zirconium Ceramic Rotor Pin
8. Zirconium Ceramic Bearings

* Note : CPVC Union Ends Available

TYPICAL APPLICATION

