

SANITARY TURBINE FLOW METER - TA3 SERIES



TECHNICAL SPECIFICATIONS

Measuring Accuracy

± 1.0% of reading or better
(±1% of reading over the upper 70% of the measuring range for 3/8, 1/2 and 3/4 in. meters)

Repeatability

± 0.1%

Flow Measuring Range

0.6 to 400 GPM (gal/min)

Turn Down Ratio

10:1

Maximum Operating Pressure*

Working pressure up to 1,000 psi

Temperature Range**

Fluid temperature up to 300°F

Electrical Connection

NEMA 6 Connector

Port Connection

Tri-clamp

* Depends on connection size & clamp. Note: .COP (Clean-Out-of-Place) **Sensor & seal dependent.

BENEFITS

Durable & Cost Effective

This meter's rugged 316 stainless steel construction provides a durable and economic flow metering solution to sanitary environments.

Excellent Accuracy

The TA3 sanitary turbine flow meter can achieve a flow accuracy up to 1.0% of reading and is repeatable up to 0.1%.

Federal Compliance

The most up-to-date polishing technology is utilized during manufacturing on all internal components. and all TA3 models are 3A authorized.

Flexible

This meter is available in nine different flow ranges, covering flows from 0.6 GPM up to 400 GPM.

Versatile

This flow meter provides local flow rate and volume totalization and will interface with most displays, controllers and computers.

MATERIALS OF CONSTRUCTION

Body & Rotor Support	316L Stainless Steel
Rotor	Nickel Plated Stainless Steel
Bearings	Nickel Bindery Tungsten Carbide

ELECTRONICS*

Model	Sensor Type	Temp (°F)
RT-10R	Battery-Powered Monitor	0 to 140
RT-30SD	15-24 VDC Powered Monitor	0 to 140
MAG-INVA	Amplified Pulse Output	0 to 140
MG-300	Non-Amplified (external amplifier needed)	0 to 300
MG-450	Non-Amplified (external amplifier needed)	0 to 450

*Contact factory for additional sensor options.

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METER SPECIFICATIONS

Part Number	Range (gal/min)	K-Factor * (Pulses/ gal)	Meter Size	Clamp Size	Weight (lbs)
TA3-75-375-1	0.6 to 3	20,000	3/8"	3/4"	1
TA3-75-500-1	0.75 to 7.5	13,000	1/2"	3/4"	1
TA3-75-750-1	2 to 15	2,750	1/2"	3/4"	1
TA3-150-500-1	0.75 to 7.5	13,000	1/2"	1-1/2"	3
TA3-150-750-1	2 to 15	2,750	1/2"	1-1/2"	3
TA3-150-875-1	3 to 30	2,600	7/8"	1-1/2"	3
TA3-150-100-1	5 to 50	870	1"	1-1/2"	3
TA3-150-150-1	15 to 180	330	1-1/2"	1-1/2"	5.5
TA3-250-200-1	40 to 400	50	2"	2-1/2"	8.5

* K-Factors given are averaged. A calibration sheet accompanies every meter sold.

METER DIMENSIONS

Part Number	A	B	C
TA3-75-375-1	3"	1.5"	1"
TA3-75-500-1	3"	1.5"	1"
TA3-75-750-1	3"	1.5"	1"
TA3-150-500-1	4"	2.0"	2"
TA3-150-750-1	4"	2.0"	2"
TA3-150-875-1	4"	2.0"	2"
TA3-150-100-1	4"	2.0"	2"
TA3-150-150-1	6.25"	2.3"	2"
TA3-250-200-1	6.5"	2.3"	3"

