

TA Turbine Flow Meter

Common Uses

The TA turbine flow meter is an excellent choice for pre-process food and beverage applications that require high accuracy without 3-A approval. This meter comes with Tri-Clamp process fitting making it ideal to use in clean-out-of-place (COP) and sanitize-out-of-place (SOP) applications. Their 316L stainless steel construction provides a durable and cost-efficient flow measurement system that offers excellent accuracy and repeatability.

Applications include:

- Dairy
- Brewing
- Wine production
- Food processing



Technical Specifications

General Meter Data	
9 Flow Ranges	0.6 to 400 GPM (gal/min)
Measuring Accuracy	± 1.0% of reading or better <small>(±1% of reading over the upper 70% of the measuring range for 3/8, 1/2 and 3/4 in. meters)</small>
Repeatability	±0.1%
Max. Operating Pressure	Working pressure up to 1,000 psi (69 bar)
Process Connections	DIN 32676-C
Turndown	10:1
Max. Fluid Temperature	300°F 149°C (sensor & seal dependent)
Electrical Connection	NEMA 6 Connector

Meter 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)
MAG-INVA	Amplified Pulse Output	0 to 140
RT-30SD	15-24 VDC Powered Monitor	0 to 140

*Contact factory for additional sensor options.

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Meter Data - Sizes

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

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

