

High Accuracy Turbine Flow Meter

Ultra-Precise Liquid Flow Measurement

Turbines, Inc. is a leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All of our products are engineered, manufactured, and calibrated using premium quality materials by a skilled team of dedicated professionals, using state-of-the-art equipment.

Our High Accuracy turbine flow meters are built with extremely tight tolerances only achievable with our precision manufacturing processes, stringent quality control, and in-house calibration capabilities.



Specifically engineered to meet the strict standards required for custody transfer, the High Accuracy Meter delivers +/- 0.5% or better accuracy and +/- 0.1% repeatability for low viscosity applications.

For every turbine flow meter manufactured by Turbines, Inc., a unique K-factor is documented by means of NIST-traceable factory, independent laboratory, or bench calibration processes.

Specifications

Performance Data	
Calibration	+/- 0.5% over standard flow range (for 0.25% consult factory)
Repeatability	+/- 0.1% over standard flow range
Linearity	+/- 0.5% over standard flow range (for 0.25% consult factory)
Operating Temperature	-450° F to +450° F (for higher temperature applications consult factory)
Connections	Flanged, Victaulic® (grooved), 37° AN Flare, or NPT (consult factory for additional end connections)
Flow Rate	From 1 to 12000 GPM
Materials	
Meter Body	316 stainless steel (consult factory for additional materials)
Rotor	17-4PH, Nickel 200, consult factory for other options
Bearings	Ball Bearing, Tungsten Carbide, Sleeve
Certifications	ISO 9001, NIST, CRN
Additional Information	Full line of economical Retrofit Kits are available Factory refurbishment with one (1) day turnaround is available

Magnetic pick up is standard on all models (no extra charge).

Data Sheet HA Series

Installation

1. Magnetic pickup coils included with each turbine meter at no extra charge;
2. Turbine meter is linear and accurate over its designed operating range;
3. Minimum recommended piping installation: 10 diameters upstream & 5 diameters downstream;
4. Locate valves or chokes downstream;
5. For best meter performance and to avoid bearing wear, do not exceed maximum rated flow for long periods of time;
6. Consult factory for warranty details.

For additional local output, the HA Series can be combined with one of our reliable monitors for a complete, accurate solution.



1.5" HA Meter Body



Rotor & Support Assembly

Performance Specifications

Flow Meter ID (Inches)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"	6"	8"	10"	12"
Flow Range (GPM)	1 - 10	2.5 - 30	4 - 60	6 - 93	8 - 130	15 - 225	40 - 650	75 - 1,250	200 - 2,900	330 - 5,200	650 - 8,000	900 - 12,000

Support and Service

Our full-time, dedicated service group offers 100% trustworthy support and recertification for flow meters — whether our own or a competitor's brand. Our meter proving services are performed by our trained technicians and the latest testing equipment. Custom meters and instrumentation options for your application are readily available. Many of our products are in stock and ready for immediate shipment.

Certifications

Turbines, Inc.'s quality management systems are ISO 9001 and AS 9100 compliant and Canadian CRN certified.

Worldwide Support

We serve customers worldwide delivering proven differential and turbine meters, and fire suppression solutions. Our U.S. offices are located in Rhode Island (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC. We also have offices in Edmonton, Alberta, Canada; Beijing, China; and Dubai, United Arab Emirates.

Contact your Turbines, Inc. Field Application Engineer for assistance.



All Turbines, Inc. products are proudly made in the U.S.A.



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