

Cryogenic Turbine Flow Meter for Bulk and Micro-Bulk Transports

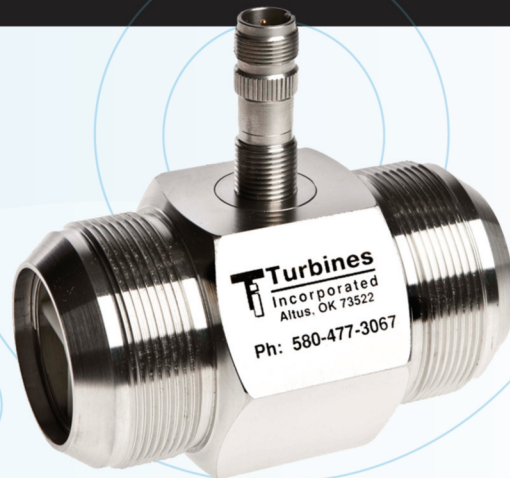
Highly Accurate and Reliable Cryogenic Flow Measurement

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.

Turbines, Inc.'s flow meters for cryogenic bulk and micro-bulk transport applications feature the same advanced technology of our liquid flow measurement products, but are specifically built for low-temperature requirements.

We understand that cryogenic processes require proven equipment, and impose unique restrictions and wear on turbines. Therefore, we provide specialized cryogenic equipment that sets itself apart with its reliability and accuracy.

The **TMC Series** cryogenic turbine flow meter is available in line sizes 1/2" to 12" and have an all stainless steel body and shaft, with a nickel rotor. Turbines, Inc.'s cryogenic meters can handle a temperature range of -450° F to +450° F, making them the ideal meters for extreme temperature applications.



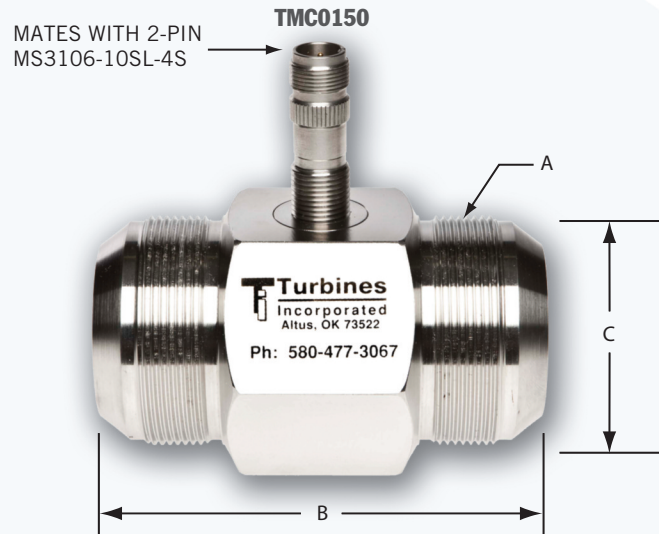
Specifications

Performance Data	
Calibration	+/- 0.5% over flow range
Repeatability	+/- 0.1% over flow range
Linearity	+/- 0.5% over flow range
Operating Temperature	-450° F to +450° F
Connections	37° AN flare, flanged, NPT, wafer, or sanitary
Flow Rate	From 1 to 650 GPM
Materials	
Meter Body	Stainless steel
Rotor	Nickel, 17-4PH
Bearings	Cryogenic or ceramic ball bearing
Approvals	CTEP/NTEP/Canadian CRN
Additional Information	
Full line of economical Retrofit Kits are available Factory refurbishment is available	

Data Sheet TMC Series

Performance Specifications

Turbines Part Number	Retrofit Kit Model	Flow Meter ID (inches)	End Connection 'A'	OAL 'B' (inches)	Height 'C' (inches)	Installation Piping	Flow Range (gpm)	Working Pressure (psi)
TMC0050	TMCK0050	1/2"	3/4"-16"	2.563"	1-1/8"	TMP0050	1 - 10	4,500
TMC0058	TMCK0058	5/8"	7/8"-14"	2.75"	1-1/8"	TMP0058	1.75 - 16	3,500
TMC0075	TMCK0075	3/4"	1-1/16"-12"	3.25"	1-5/8"	TMP0075	2.5 - 30	3,500
TMC0100	TMCK0100	1"	1-5/16"-12"	3.50"	1-5/8"	TMP0100	4 - 60	3,050
TMC0125	TMCK0125	1-1/4"	1-5/8"-12"	3.875"	1-7/8"	TMP0125	6 - 93	2,500
TMC0150	TMCK0150	1-1/2"	1-7/8"-12"	4.375"	2-1/8"	TMP0150	8 - 130	2,030
TMC0200	TMCK0200	2"	2-1/2"-12"	4.75"	2-3/4"	TMP0200	15 - 225	1,525
WMC0300	WMCK0300	3"	N/A	3.5"	5.0"	TMP0300	40 - 650	5,000



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.



**Primary Flow Signal
Headquarters**
800 Wellington Avenue
Cranston, RI 02910 USA
Tel: +1-401-461-6366
Fax: +1-401-461-4450

www.primaryflowsignal.com



15935 U.S. Highway 283, PO Box 933
Altus, OK 73522 USA
Tel: +1-580-477-3067
Fax: +1-580-477-3071

www.turbinesincorporated.com



6 Grand View Street
Coventry, RI 02816
Tel: +1-401-828-9787
Fax: +1-401-828-9788

www.pfs-fsg.com