

TL Series Low Flow Turbine Flow Meter

Common Uses

The TL Turbine Flow Meter is a compact, rugged meter that withstands pressures up to 5,000 PSI and whose calibration is NIST traceable. The TL Turbine is commonly used in applications and industries requiring precise flow measurement at small scales, such as:

- Leak detection
- Solar panel systems
- Chillers
- Fuel additives
- Lubricating systems
- Water purification (RO)
- HVAC - Water/glycol
- Pharmaceutical processing
- Chemical dosing
- Water treatment
- Laboratory research
- Fuel or gas measurement



Technical Specifications

General Meter Data	
11 Flow Ranges	0.007 to 3.0 gpm (across all meter sizes)
Measuring Accuracy	±1.0% over full range with 1cP fluid
Repeatability	±0.25% over full range
Max. Operating Pressure	up to 5,000 psi
Calibration	Water (NIST traceable)
End Connections	NPT, 37° AN Flare (consult factory for other options)
Operating Temperature Range	-70°F up to 525°F (with special coil)

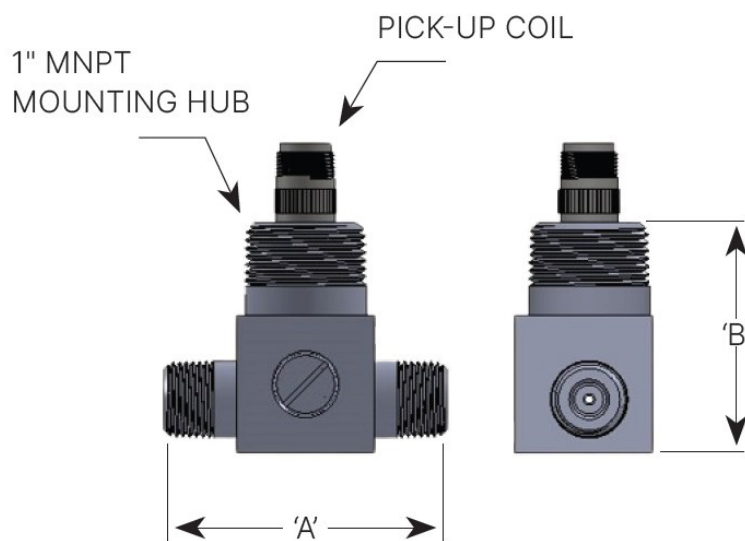
Meter Materials of Construction

Body	316 stainless steel
Internals	316 stainless steel
Rotor	17-4 PH
Ball Bearings	440C Stainless Steel with self-lubricating retainer, hard carbon composite

TL Series Low-Flow Turbine Flow Meter

Meter Data - Sizes

Part Number	Port Size & Type	Flow Range		Pressure Rating (PSI)	Pressure Drop (PSI)	Filtration (Mesh)	A (Length)	B (Height)	Weight	
		(GPM)	(LPM)						(Lbs)	(Kg)
TL-0.5-.07	0.5" NPT	0.007-0.07	0.026-0.265	5,000	30	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.09	0.5" NPT	0.008-0.09	0.030-0.341	5,000	17	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.17	0.5" NPT	0.010-0.17	0.038-0.644	5,000	14	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.25	0.5" NPT	0.013-0.25	0.049-0.946	5,000	10	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.35	0.5" NPT	0.017-0.35	0.064-1.325	5,000	12	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.45	0.5" NPT	0.02-0.45	0.076-1.703	5,000	12	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.65	0.5" NPT	0.03-0.65	0.114-2.461	5,000	18	100	3.062 in	2.5 in	1.7	0.77
TL-0.5-.95	0.5" NPT	0.03-0.95	0.114-3.596	5,000	33	100	3.082 in	3.0 in	1.7	0.77
TL-0.5-1.5	0.5" NPT	0.04-1.50	0.151-5.678	5,000	33	100	3.082 in	3.0 in	1.7	0.77
TL-0.5-2.0	0.5" NPT	0.055-2.0	0.208-7.571	5,000	34	100	3.082 in	3.0 in	1.7	0.77
TL-0.5-3.0	0.5" NPT	0.07-3.0	0.265-11.356	5,000	52	100	3.082 in	3.0 in	1.7	0.77



Compatible Electronics

Standard (included)	Pulse output
EDGE Sensor	Pulse, analog, or Modbus outputs
Digital Display	EX rated, flow rate & total, analog and pulse outputs

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste**. We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations**. Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001**.

Products may be subject to change without notice. Contact factory for the most up-to-date product information.