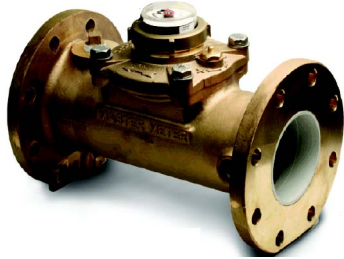


Honeywell

E-Mon Cold Water High Flow Turbine Meter 2" - 8"

SPECIFICATION DATA



APPLICATION

Make a sound investment. High rate of flow, high revenue return. Turbine Meters provide sustained accuracy where you need it most – your high-volume water transactions. Built armored car tough with a rugged bronze case, these meters deliver long-service life while churning at high RPM with the fine tuned, precision performance of a sports car. Engineering advancements yield streamlined flow patterns resulting in minimal head loss, reduced water delivery costs, and maximum possible flow to end-user.

FEATURES

- **Meets All Applicable AWWA Standards**
- **Sustained Accuracy for Maximum Revenue Over Time**
- **Precision Engineered for Efficient Flow Patterns with Minimal Head Loss**
- **Turbine and Chamber Constructed from Non-Hydrolyzing, Wear Resistant Polymer**
- **Wide Range of Flow for Maximum Accountability of Usage**
- **Pulse Output**
- **For Indoor or Outdoor Use, Pit Rated**
- **Horizontal or Vertical Orientation**

SPECIFICATIONS

Table 1. Model Numbers.

Model Number	Description
HCW-TM132NL	2" Cold water high flow turbine meter with pulse output, pit rated, lead free body
HCW-TM143NL	3" Cold water high flow turbine meter with pulse output, pit rated, lead free body
HCW-TM154NL	4" Cold water high flow turbine meter with pulse output, pit rated, lead free body
HCW-TM166NL	6" Cold water high flow turbine meter with pulse output, pit rated, lead free body
HCW-TM178NL	8" Cold water high flow turbine meter with pulse output, pit rated, lead free body

AWWA Standard: Meets or exceeds all sections of Standard ANSI/AWWA C701 Class II, most recent revision for cold water turbine meters with AWWA bronze main cases.

NSF/ANSI Standard 61: EnviroBrass

Design/Operation: Velocity-type flow measurement. Water that is conditioned by an integral flow conditioning section flows past a rotor in the measuring chamber creating an impeller velocity directly proportional to water flow rate. The meter's register integrates that velocity into totalized flow. An inherent advantage for this design is exceptionally low head loss for improved infrastructure efficiencies and unparalleled wear mitigation. The register assembly is removable under line pressure permitting seamless, simplified upgrades in reading technology.

Main Case: 1.5" - 8" constructed of 86% copper, unleaded bronze, with flanged ends. Bronze register retainers and lid are standard. A downstream test plug is provided to allow field testing without removal of the assembly from the line.

Measuring Chamber: The measuring chamber assembly and turbine are built with an advanced synthetic polymer for long service life. This tough, non-hydrolyzing material ensures durable wear. The chamber design optimizes water flow, eliminating harsh turbulence for smooth, easy, operation that minimizes bearing wear. Measurement surfaces are not wear surfaces, providing sustained accuracy despite the presence of entrained solids in the water. A long-life, carbide thrust bearing serves as a wear surface.

Magnetic Drive: A reliable, direct magnetic drive provides linkage between measurement element and register. No intermediate gearing is required; no gearing is exposed to water.



31-00165-01

E-MON COLD WATER HIGH FLOW TURBINE METER 2" - 8"

Register: Six wheel odometers are standard.

Register Sealing: Registers are IP-68 rated, permanently sealed with a scratch resistant glass lens, stainless steel base and wrap-around gasket to prevent intrusion of dirt or moisture.

Register Units: Registration in U.S. gallons.

Test Circle: Large center sweep hand with one hundred (100) clearly marked gradations on the periphery of the dial face.

Low Flow/Leak Indicator: Center mounted indicator with high sensitivity resulting from direct one-to-one linkage to the measuring element.

Pulse output value: 10 gallons per pulse.

TURBINE METERS (2" TO 8")

Table 2.

Meter Operating Characteristic	Dimension				
	2"	3"	4"	6"	8"
Normal Operating Range [$\pm 1-1/2\%$] (gpm)	4-350	5-530	9-1,350	25-2,700	35-3,500
Continuous Operating Range (gpm)	4-200	5-400	9-1,000	25-2,300	35-2,700
Low Flow [95%] (gpm)	3	4	8	20	27
Maximum Intermittent Flow (gpm)	350	530	1,350	2,700	3,500
Maximum Working Pressure (psi)	175	175	175	175	175
Maximum Working Temperature (°F)	150	150	150	150	150
Length	10.0"	12.0"	14.0"	18.0"	20.0"
Height	6.8"	9.4"	10.0"	12.4"	13.0"
Height, bottom to center line	2.2"	3.7"	4.4"	5.5"	6.0"
Width	5.9"	7.5"	8.9"	11.1"	13.6"
Weight (lbs)	24	37	42	108	140
Packed to Carton	1	1	1	1	1
Carton Weight (lbs)	26	39	44		
Register Capacity [millions] (U.S. Gallons)	100	100	1,000	1,000	10,000
Register Capacity [millions] (Cubic Feet)	10	10	100	100	1,000
Maincase Material	Bronze	Bronze	Bronze	Bronze	Bronze
Flanges/End Connections	Elliptical	Round	Round	Round	Round

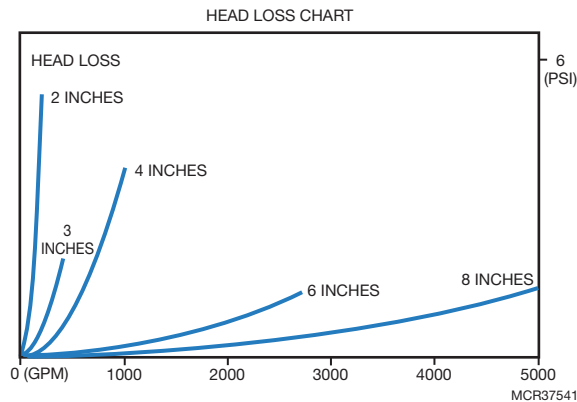


Fig. 1. Head loss chart.

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31-00165-01 M.S. 07-18
Printed in United States