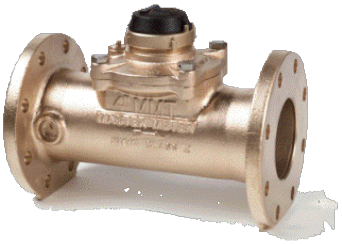
EXAMPLE: 3



TECHNICAL SPECIFICATIONS:

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 - Optional EnviroBrass or equivalent unleaded main case available.

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 choice of waterworks bronze main case of 81% copper composition, or, 86% copper, unleaded bronze, either material choice are available 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.

Register - Standard Direct Read, DIALOG 2G and DIALOG 3G AMR System registers are available. Six wheel odometers are standard. Together, an integrated and migratable technology environment is attained; direct, proximity (wand), mobile AMR, and Fixed Network AMI.

Register Sealing - All Direct read and DIALOG® 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 available in either U.S. gallons, cubic feet or cubic meters.

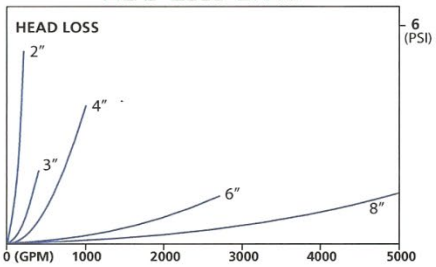
Test Circle - Large center sweep hand with one hundred (100) clearly marked gradations on the periphery of the dial face.

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

TURBINE METERS (2" TO 8")

METER OPERATING CHARACTERISTIC/DIMENSION	2"	3"	4"	6"	8"
Normal Operating Range [±1-1/2%] (gpm)	4-350	5-530	9-1350	25-2700	35-3500
Continuous Operating Range (gpm)	4-200	5-400	9-1000	25-2300	35-2700
Low Flow [95%] (gpm)	3	4	8	20	27
Maximum Intermittent Flow (gpm)	350	530	1350	2700	3500
Maximum Working Pressure (psi)	175	175	175	175	175
Maximum Working Temperature (°F)	150	150	150	150	150
Length	10"	12"	14"	18"	20"
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	1000	1000	10000
Register Capacity [millions] (Cubic Feet)	10	10	100	100	1000
Maincase Material	Bronze	Bronze	Bronze	Bronze	Bronze
Flanges/End Connections	Eliptical	Round	Round	Round	Round

HEAD LOSS CHART



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