

Be Confident with Sustained Accuracy Over Time

Neptune® MACH 10® Ultrasonic Meter



The MACH 10® ultrasonic water meter features solid state metrology with no degradation of accuracy over time. Combined with a corrosion-resistant, lead free, high-copper alloy maincase, the MACH 10 is built to withstand demanding service conditions and deliver sustained accuracy over the life of the meter.

- Sizes 1½" and 2"
- Extended low-flow range and accuracy
- No maintenance
- Accuracy sustained over meter life
- Advanced ultrasonic technology
- Lead free, high-copper alloy maincase
- Certified to UL 327B (1 ½", 2") for residential fire service applications

Specifications

AWWA C715 Compliant

NSF/ANSI 61 Certified

UL 327B Certified

(Optional for 1 1/2", 2")

Application

- Cold water measurement of flow in potable, combination potable and fire service, and reclaim/secondary water applications.

Maximum Operating Water Pressure

- 175 psi

Operating Water Temperature Range

- +33°F to +122°F (+0.5°C to +50°C)

Environmental Conditions

- Operating temperature:
+14°F to +149°F (-10°C to +65°C)
- Storage temperature:
-40°F to +158°F (-40°C to +70°C)

Options

Sizes

- 1 1/2"
- 2"

Units of Measure

- U.S. gallons, Imperial gallons, cubic feet, cubic metres

Meter Options

- Potable water
- Reclaim water
- Residential fire service (combo or standalone meter service lines)

Warranty

- Neptune provides a limited warranty for performance, materials, and workmanship. See warranty statement for details.

System Compatibility

- Compatible with Neptune R900® and CMIU. Also available as MACH 10®)R900i™ for an integrated radio solution and MACH 10®)TC for Sensus Touch Coupler compatibility.

Operating Characteristics

Meter Size	Normal Operating Range @ 100% Accuracy (+/- 1.5%)	AWWA C715 Standard Type 1	Extended Low Flow @ 100% Accuracy (+/- 3.0%)
1 1/2"	0.80 to 125 U.S. gpm	2.0 to 100 U.S. gpm	0.30 U.S. gpm
2"	1.50 to 160 U.S. gpm	2.5 to 50 U.S. gpm	0.50 U.S. gpm

Dimensions

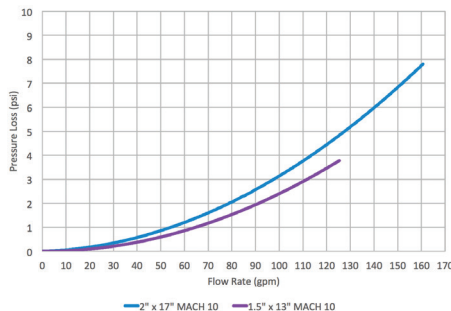
Meter Size	Length	Height	Flanges
1 1/2"	10"	6 1/4"	Oval
	13"	6 1/4"	Oval
	12 5/8"	6 1/4"	Internal Thread
	12 3/8"	6 1/4"	External Thread
2"	10"	6 1/2"	Oval
	15 1/4"	6 1/2"	Oval
	17"	6 1/2"	Oval
	15 1/4"	6 1/2"	Internal Thread
	15 1/4"	6 1/2"	External Thread

Registration

High Resolution (8-digit reading)		1 1/2"	2"
1	U.S. Gallons	√	√
1	Imperial Gallons	√	√
0.1	Cubic Feet	√	√
0.01	Cubic Metres	√	√

Pressure Loss

This chart shows typical meter performance. Individual results may vary.



LCD Display

9-digit display for extra resolution on manual reads.

