

Manage Water Flow at Your Fingertips:

MACH 10v® - Boost Efficiency and Elevate Customer Service



Operate more efficiently and elevate customer service with the MACH 10v® solution. Built onto the MACH 10 ultrasonic platform, the integrated remote shutoff valve enables utilities to control water flow remotely through Neptune's R900® cellular endpoint and Neptune® 360™ software. The remote valve solution empowers utilities to manage water service from afar, significantly reducing the need for on-site visits and associated costs, while enhancing employee safety and delivering a smoother, more responsive customer service experience. The integrated valve does not compromise the performance of the meter, maintaining its high standards of accuracy and durability.

- Available for MACH 10 meter sizes $\frac{5}{8}$ ", $\frac{3}{4}$ ", and 1"
- Control water flow remotely with three states: open, closed, and restricted
- Restricted flow mode for humanitarian purposes
- Extended low-flow range for superior leak detection
- Provides temperature data and alarms for proactive monitoring
- No moving parts eliminates added cost of meter maintenance
- Versatile mounting with both horizontal and vertical installation
- Optional pressure sensor enables proactive infrastructure monitoring

Specifications

3-state Plug Valve

AWWA C715 Compliant

NSF/ANSI 61 Certified

IP68 Rated Against Dust and Water Intrusion

Application

- Potable water

*Not approved for fire service or reclaim 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

- Embedded pressure monitoring
(PSI, kPa)

System Compatibility

- Requires Neptune's R900 System cellular endpoint and Neptune® 360™ software

Warranty

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

Operating Characteristics

Meter Size	Normal Operating Range @ 100% Accuracy (+/- 1.5%)	AWWA C715 Standard Type 1	Extended Low Flow @ 100% Accuracy (+/- 3%)
5/8"	0.10 to 25 U.S. gpm 0.02 to 5.68 m³/h	0.2 to 20 U.S. gpm 0.05 to 4.54 m³/h	0.05 U.S. gpm 0.01 m³/h
3/4"	0.10 to 35 U.S. gpm 0.02 to 7.95 m³/h	0.5 to 30 U.S. gpm 0.11 to 6.81 m³/h	0.05 U.S. gpm 0.01 m³/h
1"	0.40 to 55 U.S. gpm 0.09 to 12.49 m³/h	0.75 to 50 U.S. gpm 0.17 to 11.35 m³/h	0.25 U.S. gpm 0.06 m³/h

Registration

High Resolution (8-digit reading)	
0.1	U.S. Gallons
0.1	Imperial Gallons
0.01	Cubic Feet
0.001	Cubic Metres

Available Units of Measure

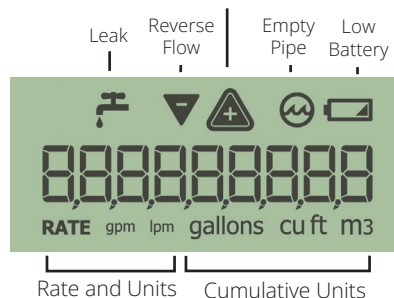
Consumption	Rate
Gallons	GPM
Cubic Feet	GPM
Cubic Metres	LPM
Cubic Meters (International)	LPM
Imperial Gallons	GPM
Acre-Feet*	GPM
Litres*	LPM
Kilolitres*	LPM

*Unit cannot be displayed on LCD

LCD Display

9-digit display for extra resolution on manual reads.

Forward Flow + Warning for Excessive Flow

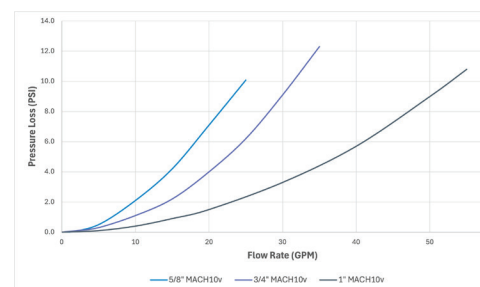


Dimensions

Meter Size	Length	Height	Threads (NPSM)
5/8"	7½"	4.08"	¾" - 14"
5/8" x 3/4"	7½"	4.08"	1" - 11½"
¾"	9"	4.16"	1" - 11½"
¾" x 1"	9"	4.16"	1¼" - 11½"
1"	10¾"	4.16"	1¼" - 11½"
1" x 1¼"	10¾"	4.16"	1½" - 11½"

Pressure Loss

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



LCD indicates closed or restricted valve position



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