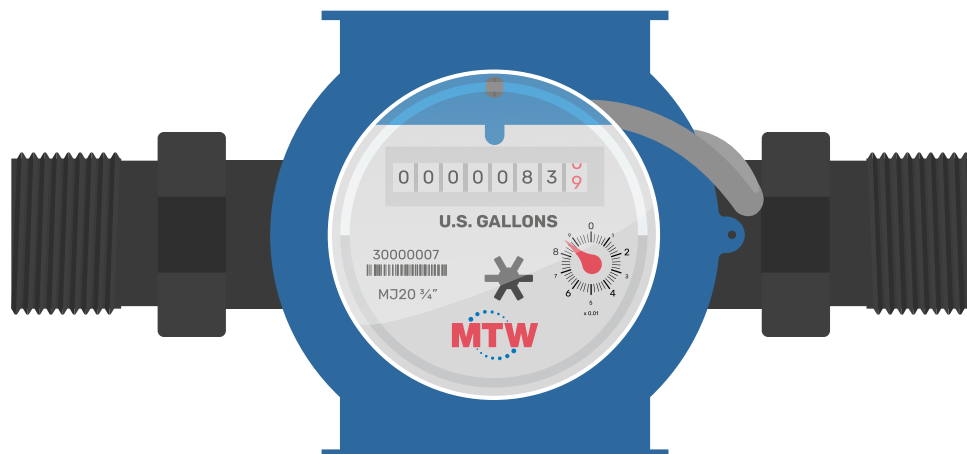


Specifications & Installation Guide

MJ20 3/4"

Multi-Jet Water Meter (3/4")



The MJ20 3/4" combines advanced multi-jet water metering technology with a robust body design, delivering consistent, best-in-class accuracy with quality you can depend on.

Metering You Can Trust

Available in both hot and cold models, the MJ20 3/4" is perfectly suited for multi-family submetering. Each meter undergoes rigorous, state-of-the-art testing during manufacturing to meet both AWWA and NTEP standards, providing unwavering quality that you can trust.

Flexible Installation Solutions

Designed for flexibility, the MJ20 3/4" can be installed horizontally or vertically without compromising the meter's accuracy or longevity. This adaptability makes it an ideal choice for properties where you expect consistent performance without trade-offs.

The thoughtful design facilitates wrench-friendly stabilization during installation, streamlining the setup process.

Effortless Wireless Integration

Equipped with built-in mounting plates and a pre-wired connector, the MJ20 3/4" easily pairs with a wireless Transceiver to integrate with the NextCentury platform. This connectivity, backed by exceptional support, allows for easy water usage monitoring from anywhere.

Key Benefits

- Hot and cold meter models available
- Built-in Transceiver mounting plate
- Robust body design offers extended meter longevity
- Sealed register prevents tampering
- Best-in-class multi-jet technology
- Manufactured and tested in a state-of-the-art facility
- Designed for easy installation

Warranty

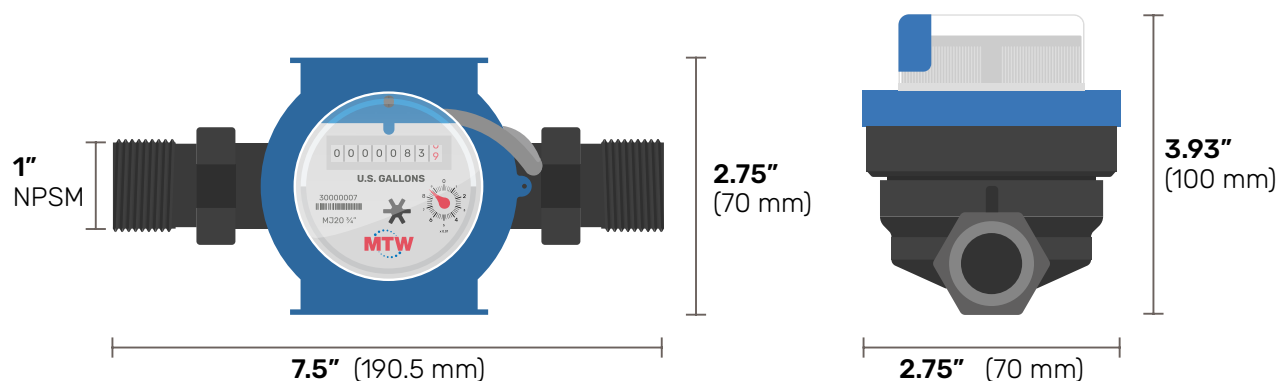
- 5-year standard warranty



Specifications & Installation Guide

Specifications

Dimensions



Applications

Meter Size	Connection (NPSM)	Lay Length	Cont. Flow (GPM)	Max (GPM)
3/4" x 3/4"	1"	7 1/2"	15	30

Temperature

Model	Water Temperature Range	
MJ20 3/4" C	36° F 2° C	105° F 40° C
MJ20 3/4" H	36° F 2° C	194° F 90° C

Approvals

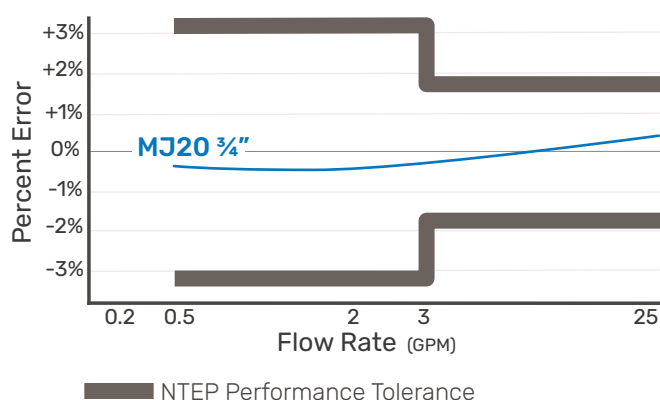
Meets AWWA C708 accuracy & performance
NTEP/CTEP Approval 24-039
NSF/ANSI/CAN 61 & 372 certified

Environment

Designed for indoor installations
Up to 90% non-condensing humidity

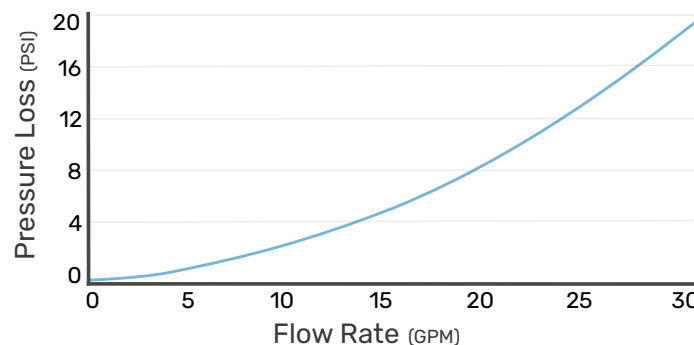
Performance

Registers flow as low as 0.2 GPM
Full 3/4" size supports up to 30 GPM flow rate



Pressure

Up to 150 PSI operating pressure
Low head loss: less than 5 PSI at 15 GPM



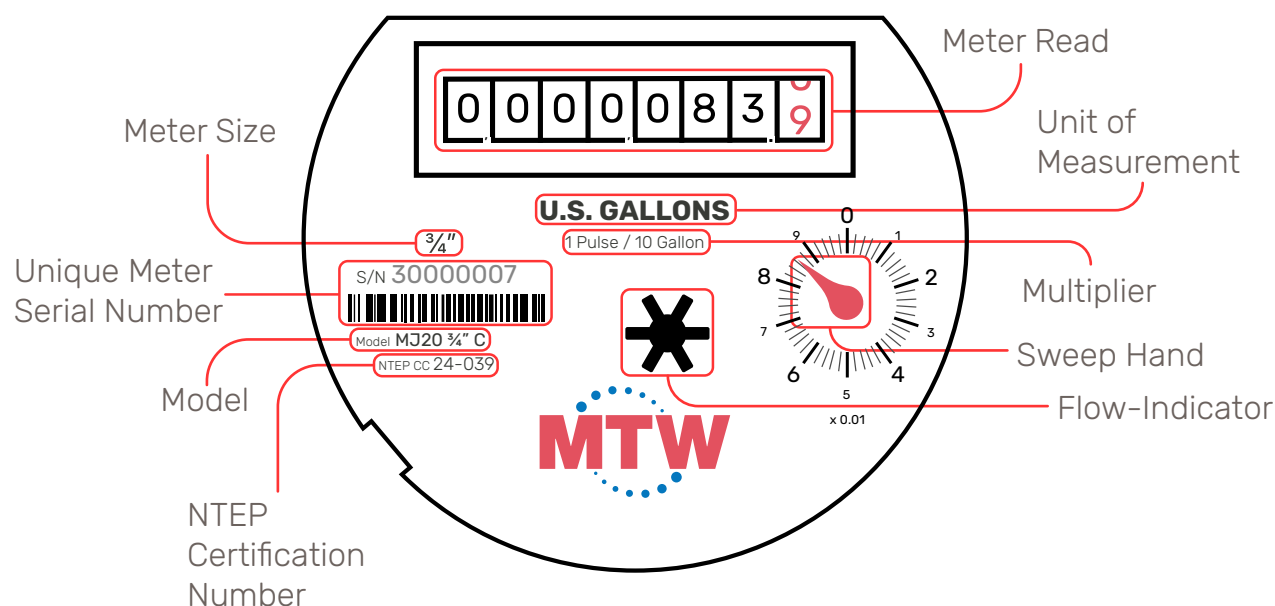


Specifications & Installation Guide

Specifications (cont.)

Meter Label

The following can be found on the face of the MJ20 3/4":



Outputs

- Pulse output - dry contact (1 pulse/10 gallons)
- Pre-installed connector and mount (Next Meters Transceiver)

Warranty

Next Meters warrants the MJ20 3/4" meter to be free from defects in materials and workmanship for a period of five years from date of manufacture when installed in accordance with these instructions and with limitations as detailed in the complete warranty.

For full warranty information, please refer to the Multi-Jet Meter Warranty document.

docs.nextcenturymeters.com/MJ-Meter-Warranty.pdf



Due to continuous product improvement and the need to comply with evolving regulations, Next Meters reserves the right to modify product specifications without prior notice.

Specifications & Installation Guide



Installation

Qualifying Installations

The meter location must have sufficient finished clearance to allow for reading, inspection, and eventual replacement of the meter.

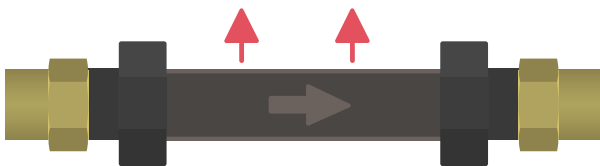
Building plumbing engineering must comply with local building code and effectively prevent backflow through system design which may include backflow prevention check valves.

The plumbing system should include a shutoff valve upstream of the meter to allow for future maintenance of the meter and other plumbing components.

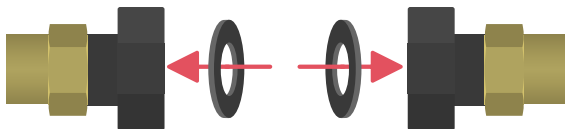
Do not use pipe dope on the threads of the meter.

Supply Line Preparation

Shut off the water line and carefully remove the spacer tube or existing meter from the line.

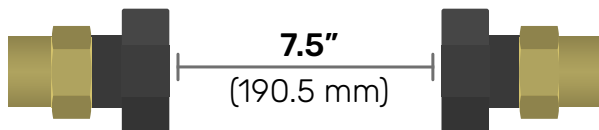


Place gaskets within the meter couplings. See "Meter Coupling Gasket Recommendations" on page 5 for gasket selection recommendations.



Meter Installation

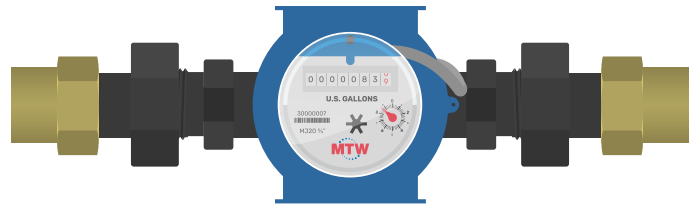
Verify that the water line is parallel and has enough space for the meter. It should be a distance of 7.5" (190.5 mm).



The meter must be installed in the correct direction of flow. The flow direction arrows can be seen on both sides of the meter.



Place meter and tighten both ends to a maximum torque of 15 lb•ft. Hold the meter steady to prevent rotation.



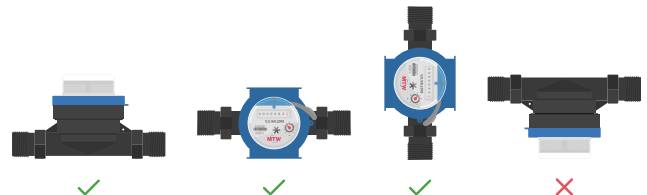
Inline Options

When electrical grounding of the water supply line is required, an approved bonding jumper should be installed.

The MJ20 3/4" can be installed horizontally or vertically.

The meter must be installed in a level horizontal orientation with the register facing up or 90° from upright, or in a vertical orientation. The maximum degree of variance from precisely horizontal or vertical is 5°.

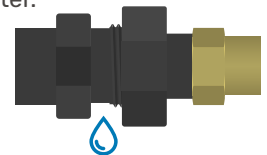
Do not install the meter horizontally with the register facing down or at any rotation other than upright/90° from upright.



Pressurizing Line

Before exposing the meter to full flow conditions, ensure all air is expelled from the piping. Gradually turn on the flow to prevent damage to the meter.

After pressurizing, check the coupling connections for moisture to confirm a watertight seal.



The MJ20 3/4" will begin accurately measuring flow once air has evacuated and water has completely filled the line.

Transceiver Integration

The MJ20 3/4" can seamlessly integrate with a Next Meters Transceiver.

Visit products.nextmeters.com/tr4 or contact your distributor for more information.



Specifications & Installation Guide

Testing & Quality Assurance

Performance in Application

Multi-family and commercial water distribution systems must be designed with careful consideration to prevent pressure spikes that exceed maximum pressure requirements. All plumbing components, fixtures, and appliances typically are required to withstand at 2x the nominal static water pressure.

The MJ20 3/4" is engineered to perform beyond these basic requirements. Its rated maximum operating pressure of 150 PSI far exceeds standard water supply specifications, ensuring that the MJ20 3/4" performs with confidence, not just compliance.

Pressure Endurance Testing

The MJ20 3/4" advanced engineering and pressure endurance extends throughout its lifetime operation. This performance is verified using accelerated-life testing, in which the MJ20 3/4" is pressurized to 300 PSI in cycles 100,000 times (see AWWA C708).

Design & Material Specifications

The MJ20 3/4" features a rugged, compact form designed to perform reliably over years of use. Its glass-filled polymer housing resists tampering, wear, and exposure to harsh environments, making it well-suited for tough conditions.

NSF Testing

The MJ20 3/4" is tested and certified to NSF/ANSI/CAN 61 and 372 standards for drinking water system components. These certifications ensure the meter is free from harmful contaminants and can operate efficiently without posing any health risks.

Seal Information

The MJ20 3/4" uses a lead-free sealing system, eliminating the traditional lead seal used on most water meters. This removes a known health hazard from the potable water system entirely, reinforcing the same drinking-water safety standard verified by the meter's NSF/ANSI/CAN 61 and 372 certifications.

Because the MJ20 3/4" is sealed with a positive die rather than the negative die common to lead seals, utilities and inspectors should confirm the appropriate sealing tool and die with their local Weights and Measures authority.

Meter Coupling Gasket Recommendations

For cold water applications, Next Meters recommends using EPDM peroxide-cured gaskets. The expected life of a gasket is 10 to 20 years dependent on water quality (i.e., lower chloramine levels result in longer life expectancy).

For hot water applications, Next Meters recommends using fiber gaskets. The expected life of a fiber gasket is 10 years or more.

Fiber gaskets are preferred over EPDM for many hot water meters due to their superior performance under high pressure, high thermal stability, and better torque retention. While EPDM is excellent for cold or moderate-temperature water, fiber gaskets offer better rigidity and resistance to thermal degradation at higher temperatures.

Next Meters recommends replacing a gasket anytime a coupling is loosened before it is tightened back down.

Contact

For additional information or assistance, please visit our Support Center or contact our Product Support Team:

support.nextmeters.com

(844) 538-8203

support@nextmeters.com