



SPECIFICATIONS

PMX Cold Water Meters

Multi-Jet Type with Direct Read Registers
5/8" – 2" PMX

Type

Magnetic Drive, Sealed Register, Multi-Jet Type only.

Size

Must conform to American Water Works Standard C-708 as most recently revised.

Length

Must conform to American Water Works Standard C-708 as most recently revised.

Cases

All Meters shall have a non-corrosive Water Works bronze outer case with a separate measuring chamber which can be easily removed from the case. All meters shall have cast on them, in raised characters, the size and direction of water flow through the meter.

External Bolts and Washers

All external bolts shall be of corrosion-resistant material and be easily removed from the main case. All threaded main case bolt holes must be covered, to aid in removal of the bolts for repair.

Registers

The register must be of the straight reading type and the index circle will be equipped with a clear center-sweep test hand, that allows accurate reading when covering the register numbers. The numeral wheel assembly shall be located at the top of the dial face with reading obtained from left to right. The first wheel of the register will indicate the sweep hand revolutions. Meter register number wheels shall have internal pinion gearing for effortless reading. All reduction gearing shall be contained in a permanently hermetically sealed, tamperproof enclosure made from high strength heat treated glass and a copper bottom plate permanently rolled sealed.

Register cover and retaining ring are to be attached to main case as to make it as tamper-resistant as possible. The register cannot be removed by non-utility personnel. The register must be field replaceable by utility personnel with the use of a manufacturer-supplied field tool. The field tool must not be commercially available. Seal wiring or a frangible head seal screw is not acceptable.

Measuring Chamber

The measuring chamber and impeller shall be made of a suitable synthetic polymer. The impeller shall have a sapphire bearing at the contact point that rotates on a stainless steel shaft which has a titanium tungsten tip. The multi-port measuring chamber shall be designed for use with a six blade impeller. All parts in the measuring chamber shall be interchangeable with assemblies of the same size. The measuring chamber shall be secured in position in the main case in such a manner that slight distortion of the outer meter case will not effect the sensitivity or registration of the meter. There shall be an elastomeric seal or seals between measured and unmeasured water, preventing leakage around the measuring element.

Magnetic Coupling

The motion of the impeller will be transmitted to the sealed register through the use of a magnetic coupling.

Strainers

Each meter shall be provided with a non-corrosive basket type strainer. It shall fit snugly on the bottom of the measuring chamber. The strainer must provide at least double the normal pipe size in straining area, and can be easily removed from the meter without the meter itself being disconnected from the pipeline.

Change Gears

Change gears will not be allowed to calibrate the meter. All registers of a particular registration and meter size shall be identical and completely interchangeable. Should meters arrive with registers containing more than one gear combination, the entire shipment will be returned to the manufacturer freight collect and the next responsible bidder will receive the award.

Accuracy and Headloss Tests

Meters shall conform to current AWWA C-708, current revision, test flows, head loss and accuracy standards.

Pressure Capability

Meters shall operate up to a working pressure of 150 pounds per square inch (psi), without leakage or damage to any parts. The accuracy shall not be affected by variation in pressure up to 150 psi.

Performance Warranties

In evaluating bid submittals, warranty coverage will be considered. All bidders are required to submit their most current nationally published warranty statements for water meter main cases, registers and measuring chambers.

Shipment Verifications

A statistically controlled sample of each meter shipment will be tested by the utility to insure each shipment meets the utility performance and materials specifications.

AUTHORIZED SENSUS DISTRIBUTOR



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