

**MODEL MLT1X**

150 psi REPLACEMENT METER HEAD ASSEMBLY
SEALED METER MECHANISM – MAGNETIC DRIVE
SEALED TOTALIZER
SIZES 6" thru 72"

SPECIFICATIONS

METER shall be a velocity propeller type, magnetic drive, sealed housing, meter head assembly for 150 psi working pressure. It shall comply with the applicable provisions of AWWA, except for the higher standard required in this specification. In the event of conflict, the specification herein shall prevail. The meter shall be a **WATER SPECIALTIES** _____ inch **MODEL MLT1X** with a six digit sealed totalizer reading in units of _____ and shall be accurate within $\pm 2\%$ of true flow within a range of _____ to _____ GPM or an approved equal. The meter assembly shall be constructed as follows:

METER HEAD size and bolt pattern shall match the old meter head so that the new head can be connected to the existing meter tube or saddle. If old meter head is attached with a victaulic coupling then the new meter head shall be the same. The meter head shall be blasted to near white metal and coated with 12 mils minimum of fusion epoxy resin, applied by the fluidized bed method. On 30" through 72" meters an adapter reducing flange shall be bolted to the existing saddle so a smaller size meter head can be bolted to the reducing flange. The reducing flange must have tapped holes, sealed on bottom side so the meter head can be bolted in place and not allow water to come through the tapped holes. The adapter flange shall also be blasted to near white metal and coated with 12 mils minimum of NSF approved, fusion epoxy resin, applied by the fluidized bed method.

GEARBOX shall be bronze, sealed and filled with a high grade lubricant. The drive mechanism shall be magnetically driven from the propeller, through a magnetic coupling and be isolated from the water flow by means of an o-ring sealed housing. A rigid stainless steel vertical shaft is required from the miter gear frame to the totalizer drive magnet.

PROPELLER shall utilize a water lubricated ceramic sleeve and spindle bearing system. The stainless steel/ceramic spindle on which the propeller is mounted shall be parallel to the direction of the water flow in the pipe. Dual ceramic thrust bearings shall be standard on all meters to handle flows in both the forward and reverse directions. The propeller shall be a conical shaped, three bladed propeller, injection molded of thermoplastic material, resistant to normal water corrosion and deformity due to high flow velocities.

TOTALIZER shall be a six digit, straight reading type with a 3" diameter, 100 division dial and center sweep test hand to permit timing for an accurate determination of flow rate. The totalizer shall read in units of _____ (specify totalizer units) and shall be magnetically driven and equipped with change gears to facilitate easy change of registration without removing pressure from the line. The totalizer shall be encased in an o-ring sealed bonnet made from injection molded 20% glass filled engineered grade of thermoplastic. The bonnet shall be attached to the meter head by screws with seal wire holes and have a hinged lid with padlock hasp.

PARTS & SERVICE: Supplier must have test facilities, spare parts, personnel to maintain, instruct, train or whatever is necessary to assure meters will be maintained throughout the guarantee period.

VOLUMETRIC TESTING of all meters must be performed and approved prior to shipment. The completed meter head assembly will be accuracy tested. The testing will be conducted in accordance to AWWA testing procedure, rates, and volume. The amount of water used to conduct the test shall be left on the totalizer. Prior to shipping, a tag shall be attached to the meter showing the totalizer reading after testing. The test facility must be certified annually to an accuracy of $\pm 0.25\%$ and be traceable to the National Institute of Standards and Technology. If desired, the test can be witnessed by the customer or their selected agent. Certified accuracy test records will be furnished at no charge.

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