

MODEL ML12D

150 psi FLANGED TUBE METER SOLID STATE ELECTRONIC PROPELLER METER **DIGITAL INDICATOR - TOTALIZER** SIZES 3" thru 48"

SPECIFICATIONS

6. 201.107.11.01.0
METER shall be a velocity propeller type, solid state electronic, sealed housing, flanged tube meter 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 ML12D with a digital indicator having a range of 0 to and shall be equipped with a eight digit digital totalizer reading in units of and shall be accurate within ±2% of true flow within a range of to GPM or an approved equal. The meter assembly shall be constructed as follows: METER TUBE shall be fabricated steel pipe and use 150 lb. AWWA Class "D" flat face steel flanges. The internal and external of the meter tube and meter head shall be blasted to near white metal and coated with 12 mils minimum of NSF approved, fusion epoxy coating, applied by the fluidized bed method. Meter tubes shall have a constant nominal inside diameter to offer minimum obstruction to the flow and shall be furnished with four straightening vanes. METER HEAD shall be connected to the tube by means of a flanged, O-ring sealed, connection with stainless steel bolts. The meter head shall be designed for easy removal of water wetted parts from the tube for inspection or repair without having to remove the complete tube. Water wetted meter components that are permanently attached to the tube will not be accepted. GEARBOX shall be bronze. The electronic sensor housed in the gearbox shall be magnetically driven from the propeller magnet and be isolated from the water flow by means of an O-ring sealed housing. This completely eliminates water entering the meter assembly, and eliminates all moving parts except for the propeller. Vertical shafts will not be accepted.
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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.
DIGITAL INDICATOR-TOTALIZER shall be electronically driven by a sensor output directly from, and proportional to.
the rotation of the propeller. The unit shall have a non-volatile memory so total flow will not be lost during battery change or failure. The unit shall be equipped with a 3.6VDC lithium battery which is replaceable. The battery life will be 6 to 10 years. The indicator-totalizer shall continue to function during battery changing. The five digit indicator shall have 0.42" high numbers and a range of 0 to