30118-41 Rev. 11.7/10-07



MODEL OF12D

OPEN FLOW METER SOLID STATE ELECTRONIC PROPELLER METER DIGITAL INDICATOR - TOTALIZER SIZES 10" thru 72"

SPECIFICATIONS

METER shall be a velocity propeller type, solid state electronic, sealed housing, open flow meter. 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 OF12D with a sealed digital indicator having a range of 0 to and shall be equipped with a six 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 HEAD shall be bronze and welded to a drop pipe of 2½" O.D. bronze tubing of sufficient strength to meet the length dimension shown on the drawings.
GEARBOX shall be bronze. The electronic sensor housed in the gearbox shall be magnetically driven from the propeller ceramic sleeve magnetic 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 or flexible cables will not be accepted.
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
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 +-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. ONE MANUFACTURER shall make all meter sizes and styles required for this contract. The meters shall be manufactured and tested in the U.S.A. and shall be of a design in production in the U.S.A. for at least 5 years.