30118-12 Rev. 3.7/10-07



MODEL ML04-SSD 150 psi 316 STAINLESS STEEL FLANGED TUBE METER SOLID STATE ELECTRONIC PROPELLER METER DIGITAL INDICATOR - TOTALIZER SIZES 2" thru 48"

SPECIFICATIONS	
METER shall be a velocity propeller type, solid state electronic, sealed housing, 316 stainless steel 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 WA- TER SPECIALTIES inch MODEL ML04-SSD with a 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 TUBE shall be fabricated 316 stainless steel pipe and use 150 lb. AWWA Class "D" flat face 316 stainless steel flanges. 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 316 stainless steel and connected to the tube by means of a flanged, o-ring sealed connec-	
tion 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 316 stainless steel. 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.	
PROPELLER shall utilize a water lubricated ceramic sleeve bearing that rides on a ceramic coated stainless steel	
spindle. The 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 mate- rial, 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 (specify indicator range and units) and eight	
digit totalizer with 0.27" high numbers reading in units of (specify totalizer units) and is accurate and linear	
within ±0.25%, of reading, at all points on the scale when operated between -4° and 158° F. The totalizer shall be resettable from the panel or disabled permanently. The unit shall be encapsulated to protect it from moisture, and	
installed in an O-ring sealed bonnet with padlock hasp. Adapters shall be available to locate the digital indicator- totalizer-transmitter at remote locations up to 100 feet away.	
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 ac-	
curacy 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 meter and their parts shall be manufactured and tested in U.S.A. and shall be of a design made in U.S.A. for 5 years.	

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