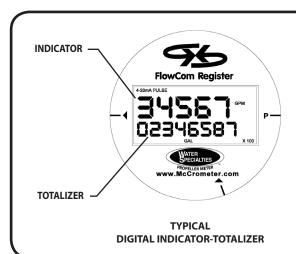


MODEL ML20-D

150 psi WELDING SADDLE METER SOLID STATE ELECTRONIC PROPELLER METER DIGITAL INDICATOR-TOTALIZER SIZES 4" thru 72"





DESCRIPTION

MODEL ML20-D WELDING SADDLE METERS are manufactured to the highest standards. Materials used on all meters and flow ranges meet or exceed AWWA standard C704-02. The weld-on design permits use in a wide range of applications with up to 150 psi working pressure. It is necessary, upon ordering, to furnish the I.D. dimension of the pipe the meter is to be mounted on for calibration purposes. The O.D. dimension or wall thickness must also be furnished for proper fit of the saddle to the pipe.

INSTALLATION is made by cutting a hole in the existing pipe line and then welding the saddle to the line. The removable meter head assembly can then be bolted to the saddle. The meter can be installed horizontally, or inclined on suction or discharge lines. The meter must have a full flow of liquid for proper accuracy. Fully opened gate valves, fittings, or other obstructions that tend to set up flow disturbances should be a minimum of ten pipe diameters upstream and two pipe diameters downstream from the meter. Installations with less than ten pipe diameters of straightpipe require straightening vanes. Meters with straightening vanes require at least five pipe diameters upstream and two pipe diameters downstream of the meter. An optional remote mounting kit with up to 100 feet of cable is available to locate the indicator-totalizer at remote locations.

PROPELLER is magnetically coupled with the electronic sensor through the sealed gearbox. This completely eliminates water entering the meter assembly, and eliminates all moving parts except for the propeller. The propeller is a conical shaped three bladed propeller, injection molded of thermoplastic material resistant to normal water corrosion and deformity due to high flow velocities.

BEARING is a water lubricated ceramic sleeve and spindle bearing system with a ceramic/stainless steel spindle. Dual ceramic thrust bearings, standard on all meters, handle flows in both forward and reverse directions. The bearing design promotes extended periods of maintenance free propeller operation. Bearings within the sealed meter mechanism are shielded precision stainless steel bearings and are factory lubricated for the life of the meter.

DIGITAL INDICATOR-TOTALIZER has a non-volatile EEPROM memory to store totalizer count (updated hourly while running). Features a large two line display. Five digit top line indicates flow rate, and eight digit bottom line provides volumetric flow data. Indicator is available in 22 different units, including GPM, CFS, MGD. Totalizer is available in 20 different units, including Gallons, AF, CF. Units of measurement are user-selectable. Battery life is 6-10 years. Housing is NEMA 4X rated.

Available with optional 4-20mA and/or pulse output.

SPECIFICATIONS

ACCURACY Plus or minus 2% of actual flow within the range specified

for each meter size.

PRESSURE RANGE Up to 150 PSI maximum working pressure.

TEMPERATURE 140° F Maximum. Consult factory for special construc-

RANGE tion for higher temperatures.

MINIMUM FLOWS As shown for each meter size and construction are required

for accurate registration. See flow chart

for accurate registration. See flow chart.

MAXIMUM FLOWS As shown for each meter size and construction are rated for

continuous operation. See flow chart.

INTERMITTENT As shown for each meter size are rated for 10%

FLOWS to 15% of the total time the meter is operating. Consult fac-

tory for High Velocity construction when intermittent flows are higher than shown on flow chart and/or when longer

operating periods are required.

MATERIALS Used in construction are chosen to minimize the corrosive

effects of the liquids measured by the meter assembly. PROPELLER MAGNETS – anticorrosive aluminized barrier

coated magnets; Everlube 6155

PROPELLER BEARING - ceramic sleeve type

PROPELLER SPINDLE - ceramic coated stainless steel

PROPELLER - injection molded thermoplastic

GEARBOX - cast bronze SEPARATOR - stainless steel

METER HEAD BOLTS - stainless steel (4"-20"), plated steel

(24"-72")

METER HEAD - cast iron or fabricated steel, fusion epoxy

coated.

OPTIONAL EQUIPMENT

Includes a remote mounting kit with up to 100 feet of cable, totalizer extensions, digital transmitter, and a wide range of controls and instruments for indicating, totalizing,

and recording flow data for each meter. Special construc-

tions and materials are available upon request.

ORDERING INFO Must be specified by the customer and includes:

Minimum & maximum flow ranges Temperature of meter environment

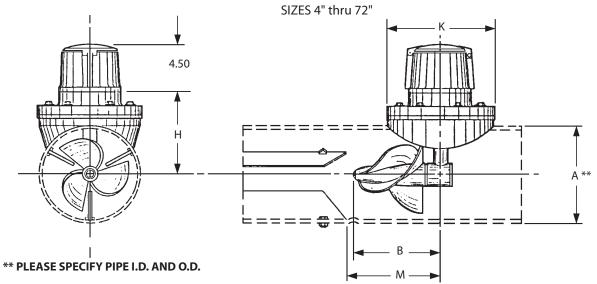
Indicator scale & units
Totalizer dial units

Type of materials and construction Optional equipment desired

Pipe I.D. and O.D.

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METER	FLOW RANGES, GPM STANDARD CONSTRUCTION MIN-MAX-INT	HIGH VELOCITY CONSTRUCTION MIN-MAX	DIMENSIONS					EST. SHIPPING
& PIPE SIZE			Α	В	Н	К	М	WEIGHT POUNDS
4	55-500-700	200-700	41/2	8	5 ³ / ₁₆	9	10	55
6	120-1200-1500	300-1500	6 ⁵ /8	8	61/4	9	10	55
8	150-1500-2000	400-2500	85/8	8	71⁄4	9	10	55
10	180-2000-3000	500-3500	10¾	8	81/2	11	10	60
12	200-3000-3500	800-5000	12¾	8	91/2	11	10	70
14	300-4000-4500	1000-6000	14	8	10½	13½	10	75
16	400-5000-6000	1200-7500	16	8	11½	13½	10	75
18	700-6000-7500	1500-9000	18	8	12½	13½	10	75
20	850-8000-9000	2000-12000	20	8	13½	13½	10	75
24	1000-10000-13500	3000-15000	24	11½	171/2	21	13½	250
30	1800-15000-21000	4000-25000	30	11½	20½	21	13½	250
36	2000-20000-30000	5000-35000	36	11½	23½	21	13½	250
42	3000-30000-40000	6000-50000	42	11½	27	32	13½	525
48	5500-35000-50000	7000-60000	48	11½	30	32	13½	525
54	6500-45000-55000	8000-65000	54	11½	33	32	13½	525
60	7500-60000-80000	10000-90000	60	18*	36	32	22*	525
66	8500-75000-95000	12000-105000	66	18*	39	32	22*	525
72	9500-90000-115000	15000-125000	72	18*	42	32	22*	525

Standard construction will be supplied for all main line meters unless special flow range, materials, or construction are required. *On High Velocity Meters "B" Dimension is 111/2" and "M" dimension is 13/2".

