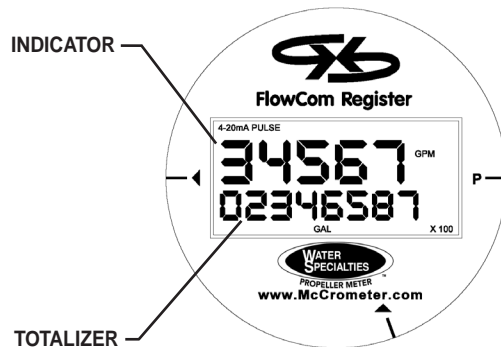




MODEL LP04-D
150 psi FLANGED TUBE METER
SOLID STATE ELECTRONIC PROPELLER METER
STRAP-ON SADDLE
DIGITAL INDICATOR-TOTALIZER
SIZES 4" thru 16"



TYPICAL
DIGITAL INDICATOR-TOTALIZER



DESCRIPTION

MODEL LP04-D FLANGED TUBE METERS are designed for irrigation or other low pressure service up to 150 PSI working pressure. The meter assembly features a strap-on saddle that attaches to the tube by means of u-bolts or u-straps furnished with the meter. Flanged ends are 150 lb. AWWA class "D" flat face steel flanges. Fabricated steel meter tubes have straightening vanes and are protected internally and externally with 12-15 mils of fusion epoxy resin.

INSTALLATION is made similar to placing a short length of flanged end pipe in the line. 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 five pipe diameters upstream and one pipe diameter downstream from 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 in propeller is a water lubricated ceramic sleeve bearing that rides on a ceramic coated 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.

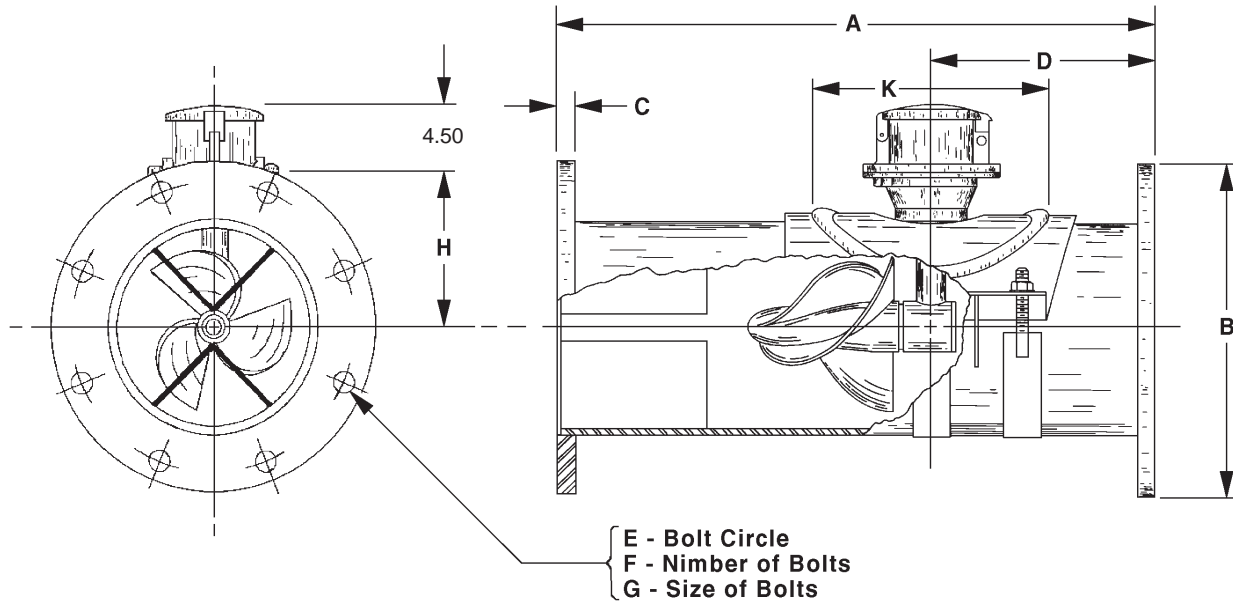
DIGITAL INDICATOR-TOTALIZER has a non-volatile EEPROM memory to store totalizer count (updated hourly while running). Features a large two line display. Five digit top line indicates flow rate, and eight digit bottom line provides volumetric flow data. Indicator is available in 22 different units, including 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 RANGE	140° F Maximum. Consult factory for special construction for higher temperatures.
MINIMUM FLOWS	As shown for each meter size and construction are required for accurate registration. See flow chart. NOTE: Minimum flow will be higher when auxiliary equipment is added.
MAXIMUM FLOWS	As shown for each meter size and construction are rated for continuous operation. See flow chart.
INTERMITTENT FLOWS	As shown for each meter size are rated for 10% to 15% of the total time the meter is operating. Consult factory 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. MAGNETS - permanent ceramic type VERTICAL SHAFT BEARING - shielded stainless steel PROPELLER BEARING - ceramic sleeve type PROPELLER SPINDLE - ceramic coated stainless steel PROPELLER - injection molded thermoplastic GEARBOX - cast bronze SEPARATOR - stainless steel SHAFTS AND BOLTS - stainless steel SADDLE - fusion epoxy coated ductile iron (4") - stainless steel (6" - 16") LUG STRIPS - stainless steel (6" - 16") U-BOLTS - (4") electro-galvanized dichromate sealed 101 B steel U-STRAPS - stainless steel (6" - 16") METER TUBE - fabricated steel with straightening vanes and coated inside and out with 12-15 mils of fusion epoxy by the fluidized bed method.
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 construction and materials are available upon request.
ORDERING INFO	Must be specified by the customer and includes: minimum and maximum flow ranges, temperature of meter environment, indicator scale & units, totalizer dial units, type of materials and construction, and optional equipment desired.

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METER & PIPE SIZE	FLOW RANGES, GPM			DIMENSIONS									SHIPPING WEIGHT POUNDS
	MIN.	MAX.	INT.	A	B	C	D	E	F	G	H	K	
4	80	500	700	18	9	5/8	7	7½	8	5/8	5 ³ / ₁₆	12	122
6	200	1200	1500	22	11	11/16	9	9½	8	3/4	5¼	12	141
8	250	1500	2000	24	13½	11/16	9	11¼	8	3/4	6¼	12	161
10	300	2000	3000	26	16	11/16	10	14¼	12	7/8	7 ³ / ₈	12	195
12	350	3000	3500	28	19	13/16	10	17	12	7/8	8 ³ / ₈	12	225
14	450	4000	4500	42	21	15/16	12	18¾	12	1	9	12	300
16	500	5000	6000	48	23½	1	12	21¼	16	1	10	12	350