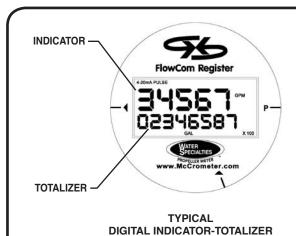


## **MODEL VF30-D**

VERTICAL UPFLOW TEE TUBE METER
SOLID STATE ELECTRONIC PROPELLER METER
DIGITAL INDICATOR - TOTALIZER
SIZES 4" thru 20"





### DESCRIPTION

MODELVF30-DVERTICAL UPFLOWTEETUBE METERS are designed to meet AWWA specifications. The flanged end tee design permits use in a wide range of applications with up to 150 psi working pressure. The base and side outlets 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 to any vertical discharge line with the proper size flange connection or to vertical discharge concrete turnouts with the proper anchor bolts. The meter must be installed upright for a full flow of liquid through the pipe to assure 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 from the meter and one pipe diameter downstream from the meter. An optional kit of adapters 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 separator assembly. 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 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 As shown for each meter size are rated for 10% to FLOWS 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.

PROPELLER MAGNET - permanent ceramic type
PROPELLER BEARING - ceramic sleeve type

PROPELLER BEARING - ceramic sleeve type PROPELLER SPINDLE - ceramic coated stainless steel

PROPELLER - injection molded thermoplastic DROP-PIPE - stainless steel

SEPARATOR - stainless steel
SHAFTS AND BOLTS - stainless steel

METER HEAD - cast iron , NSF approved fusion

epoxy coated.

METER TUBE - fabricated steel with 12-15 mils of

NSF approved fusion epoxy resin.

OPTIONAL EQUIPMENT

Remote mounting kit, with up to 100 feet of cable, and a wide range of controls and instruments for indicating, totalizing, and recording flow data for each meter. Special constructions and materials are

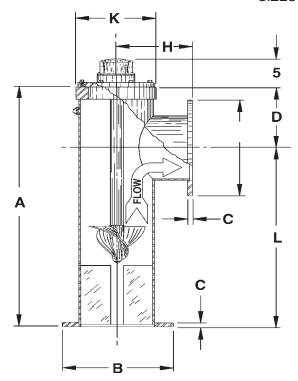
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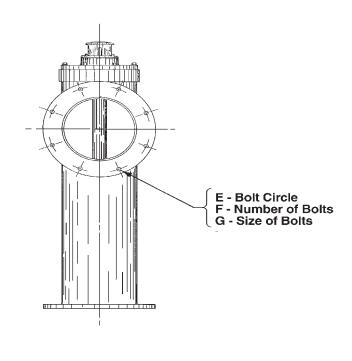
**ORDERING INFO** Must be specified by the customer and includes:

minimum & maximum flow ranges, temperature of meter environment, indicator scale and 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
	MIN.	MAX.	INT.	Α	В	С	D	E	F	G	Н	K	L	POUNDS
4	55	500	700	18	9	5/8	4½	7½	8	5/8	5	6	13½	180
6	130	1200	1500	40	11	11/16	10	9½	8	3/4	9	11	30	190
8	170	1500	2000	40	13½	11/16	10	11¾	8	3/4	10	11	30	240
10	200	2000	3000	40	16	11/16	10	141⁄4	12	7/8	11	11	30	330
12	220	3000	3500	40	19	13/16	10	17	12	7/8	12	11	30	440
14	320	4000	4500	40	21	15/16	10	18¾	12	1	14	11	36	520
16	420	5000	6000	54	23½	1	11½	211/4	16	1	15	11	42½	620
18	720	6000	7500	60	25	<b>1</b> <sup>1</sup> / <sub>16</sub>	12	22¾	16	<b>1</b> 1/8	18	11	48	720
20	870	8000	9000	66	27½	<b>1</b> <sup>1</sup> /8	14	25	20	<b>1</b> 1/8	20	11	52	820

# Technofic Your Flow Meter Source

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