



The Model PVI1 comes with a graphical display based on Chip-On-Glass and FSTN technology, which gives a sharp, readable display that won't lose segments throughout its life.



### APPLICATIONS

- Sprinkler & drip irrigation systems
- Golf course and park water management
- Water distribution and surface water
- Gravity turnouts from underground pipelines
- Commercial nurseries
- Water and wastewater management

### DESCRIPTION

The **PVI1 Vertical Upflow Meter** is designed for a wide range of applications up to 150 PSI working pressure. The mounting flange can be fabricated with specified dimensions so that the meter serves as a direct replacement onto an existing installation. For proper calibration, it is necessary to furnish the I.D. of the pipe on which the meter is to be installed. The PVI1's optimized and modern construction relies primarily on electronic components, reducing the amount of moving parts (except for the propeller). This simplifies the maintenance process and reduces its cost.

### INSTALLATION

The mounting flange on the PVI1 may be fabricated to fit an existing cast iron or fabricated steel tee, which are normally installed to replace elbows in existing systems. The meter must be installed upward. A fully developed flow in a full pipe is required for accuracy purposes. Any obstructions, such as valves or fittings, must be placed at a minimum of 10 pipe diameters upstream and 1 pipe diameter downstream of the meter. Upstream straight pipe requirements can be reduced to 5 pipe diameters with the use of straightening vanes.

### OPTIONAL EQUIPMENT

OCTF-XX: Pulse Output Kit—Includes 6+ feet of cable  
RMTF-XX: Remote Mount Kit—Up to 100 feet of cable  
TR420: 4-20 mA Output—DC Powered (9-30 Vdc) transmitter

### INDICATOR-TOTALIZER

The Model PVI1 meter is equipped with a battery-powered microcontroller-based indicator-totalizer. The digital display features a 5-digit autorange indicator and an 8-digit totalizer, which can be configured to the operator's desired units in a matter of seconds. All TechnoFlo meters are entirely field-programmable and include a scaled pulse output. Once programmed, a passcode can be used to lock the settings and prevent unauthorized changes to the transmitter's functions and parameters. The aluminum housing on the PVI1 meter provides the indicator-totalizer with increased protection against the elements and hazards encountered in the field.

### MATERIALS

**Housing**— Powder-coated aluminum  
**Propeller**— Injection molded thermoplastic  
**Drop Pipe**— 304 stainless steel  
**Bearing**— Long-life, water-lubricated ceramic  
**Meter Head**— 304 stainless steel

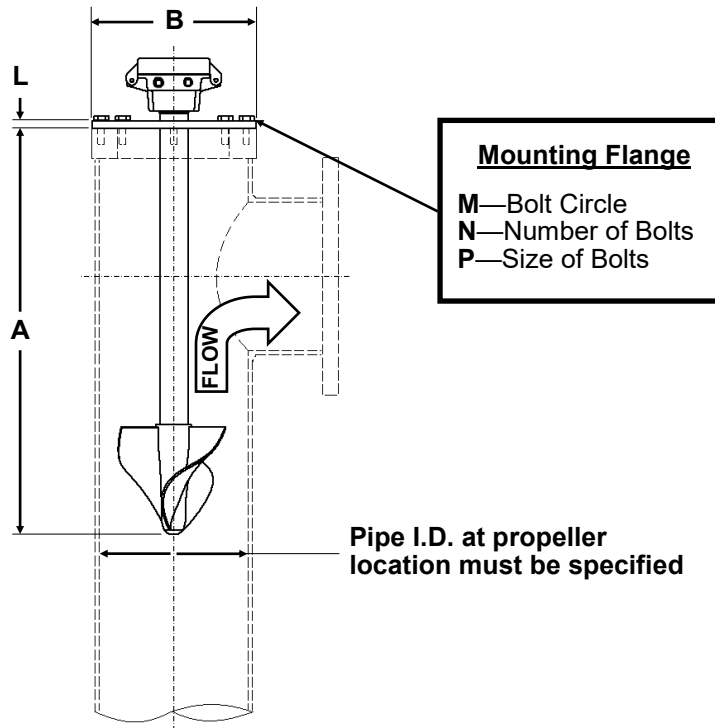
### SPECIFICATIONS

**Accuracy:** +/- 2% of actual flow  
+/- 1% over reduced range  
**Max. Temp:** 140 °F Maximum  
**Pressure Rating:** 150 PSI (Max. working pressure)  
**Battery Life:** 5+ years (depends on hours of use)

Meets AWWA C704-12 Standard

# MODEL PVI1

Vertical Upflow Meter  
 Electronic Propeller Meter  
 Digital Indicator-Totalizer  
 Sizes 4" through 20"



METER & PIPE SIZE	FLOW RANGES, GPM			DIMENSIONS, INCHES						SHIPPING WEIGHT, POUNDS
	MIN	MAX	INT	A	B	L	M	N	P	
4	55	500	700							
6	120	1200	1500							
8	150	1500	2000							
10	180	2000	3000							
12	200	3000	3500							
14	300	4000	4500							
16	400	5000	6000							
18	550	6000	7500							
20	650	8000	9000							

**Customer-Specified Dimensions**