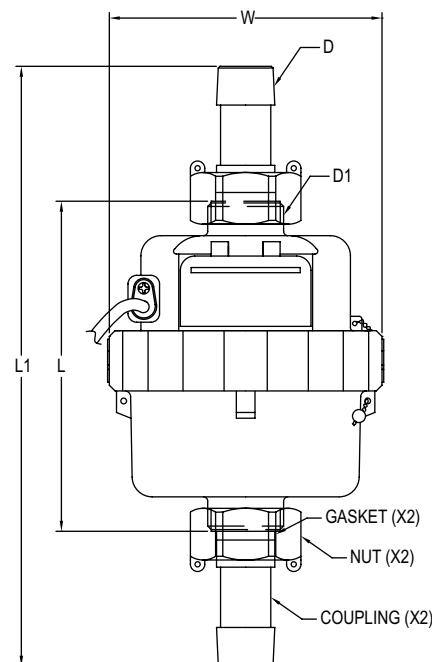




## Series WVT Vertical Water Meter

## Specifications - Installation and Operating Instructions



DIMENSIONS CHART				
Spud Size	Length "L" in (mm)	Length with NPT Coupling "L1" in (mm)	Width "W" in (mm)	Weight lb (kg)
G3/4	4.53 (115)	8.23 (209)	3.78 (96)	1.15 (0.52)
G1	6.50 (165)	10.16 (258)	4.17 (106)	1.34 (0.6)

The **Series WVT Vertical Water Meter** is a series of rotary piston water meters that display total water usage. The piston displacement technology results in accurate and reliable operation in either horizontal or vertical mounting. Polymer and stainless steel construction provides high durability and environmental resistance at an economical price. The optional pulse output can be used for flow verification and totalization. Adapter couplings are included to convert BSPP threads on the meter to NPT.

## SPECIFICATIONS

**Service:** Water.

**Wetted Materials:** ABS, POM, SS, Buna-N.

**Flow Range:** See model chart.

**Accuracy:** Nominal flow:  $\pm 2\%$ ; Transitional flow:  $\pm 5\%$ .

**Temperature Limit:** 122°F (50°C).

**Pressure Limit:** 150 psi (1034 kPa).

**Totalizing Display Maximum:** 999,999.99 gallons.

**Output Signal:** Pulse output with frequency proportional to flowrate.

**Pulse Rate:** 0.05 gal/pulse.

**Electrical Rating:** 0.01 A @ 24 VAC/DC.

**Electrical Connections:** 3.5mm<sup>2</sup> stranded color-coded lead wires, 5' (1.5 m) length.

**Mounting Orientation:** Horizontal or vertical.

**Weight:** See dimension chart.

## MODEL CHART

Model	Meter Size	Coupling Size	Output	GPM (Gallons Per Minute)		
				Min Flow	Transitional Flow	Max Flow
WVT-A-01	3/4"	1/2" NPT	None	0.07	0.11	13.75
WVT-A-02	1"	3/4" NPT	None	0.11	0.18	22
WVT-A-01-1	3/4"	1/2" NPT	Pulse	0.07	0.11	13.75
WVT-A-02-1	1"	3/4" NPT	Pulse	0.11	0.18	22

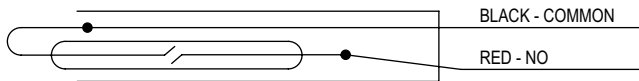
### Installation Instructions

1. Thoroughly flush the service line upstream of the meter to remove dirt and debris.
2. Remove thread protectors.

**Note:** To protect meter threads, store the meter with thread protectors in place.

3. If applicable, install NPT thread adapters to WVT. Insert the threaded coupler into the nut with the coupler threads facing the nut wings. Place the gasket on the flat surface of the coupler inside the nut. Thread nut onto water meter. Do not overtighten.
4. Set the meter in the line. Install in a vertical or horizontal face up orientation in a location accessible for reading, service, and inspection. Install with the window closer to the inlet side of the flowmeter. The arrow adjacent to the window should point opposite the direction of flow. For accurate readings, ensure the meter is installed between straight pipes on the inlet and outlet side that are a minimum length of 3 times the nominal pipe diameter.
5. Wrap the exposed meter threads with pipe thread tape. Install meter and tighten connections.
6. Do not over-tighten connections; tighten only as required to seal.
7. With upstream shut-off valve only: Open shut-off valve slowly to remove air from meter and service line. Open the water source slowly to allow entrapped air to escape. Close the water source.
8. With both upstream and downstream shut-off valves installed:  
Test the installation for leaks: Close the outlet (downstream) shutoff valve. Open the inlet (upstream) shut-off slowly until meter is full of water. Open the outlet (downstream) valve slowly until air is out of the meter and service line. Open the water source slowly to allow entrapped air to escape. Close the water source.

### Electrical Installation



### MAINTENANCE/REPAIR

Upon final installation of the Series WVT, no routine maintenance is required. The Series WVT is not field serviceable and it is not possible to repair the unit. Field repair should not be attempted and may void warranty.

### WARRANTY/RETURN

Refer to "Terms and Conditions of Sale" in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.

PRESSURE LOSS CURVE

