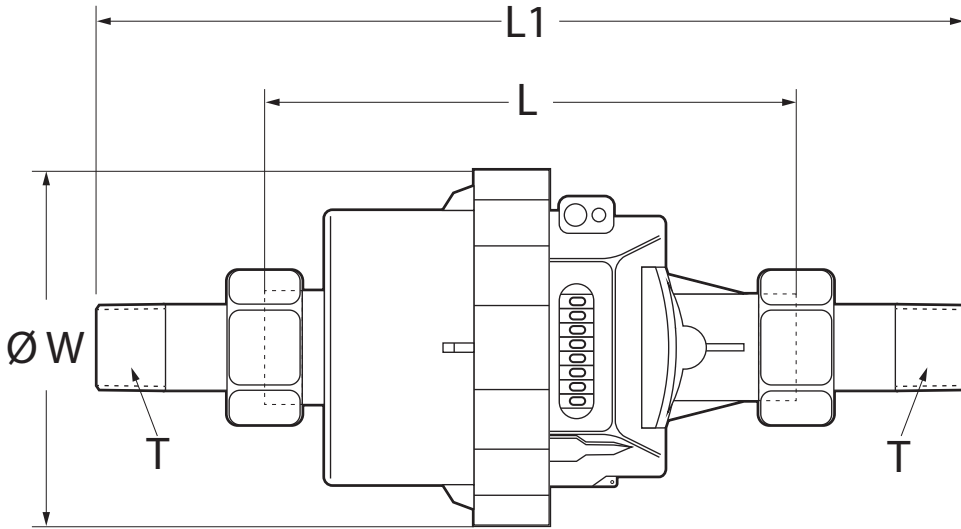
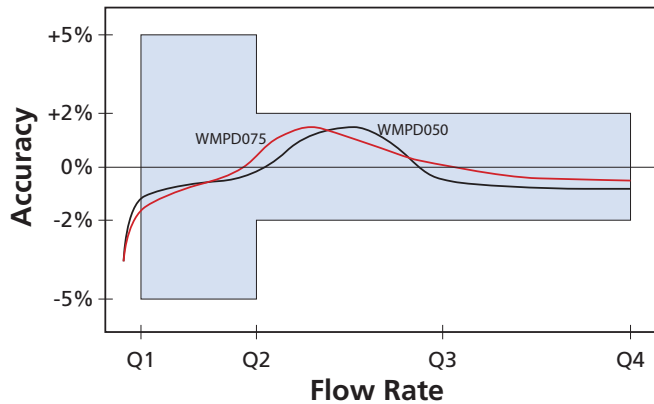


## 8. DIMENSIONS AND FLOW RATES

Model	Flow Rates (in GPH)				Dimensions (in inches)				Weight (in lbs.)
	Min.	Normal Flow Range		Max.	L	L1	T	W	
	Q1	Q2	Q3	Q4					
WMPD-050	4.13	6.6	660	825	4.53	8.23	1/2 NPT	3.78	1.5
WMPD-075	6.6	10.6	1056	1320	6.50	10.16	3/4 NPT	4.17	1.5



## 9. ACCURACY CURVE



**ASSURED**  
**AUTOMATION**

**1-800-899-0553**  
assuredautomation.com

# WM-PD Series

## Use & Care Manual

### 1. GENERAL INFORMATION

WM-PD plastic water meters use a volumetric piston displacement method to advance a register that is emersed in ethylene glycol. These meters are tamper proof due to a tamper evident that prevents the body from being opened or taken apart. **DO NOT REMOVE THIS WIRE!** If the wire is removed, or altered in any way, the warranty is void.

### 2. SPECIFICATIONS

**Max. Temperature:** up to 122°F (50°C)

**Orientation:** Any

**Pulse Output Max. Voltage:** 24vAC/DC

**Pulse Output Max. Current:** 20mA

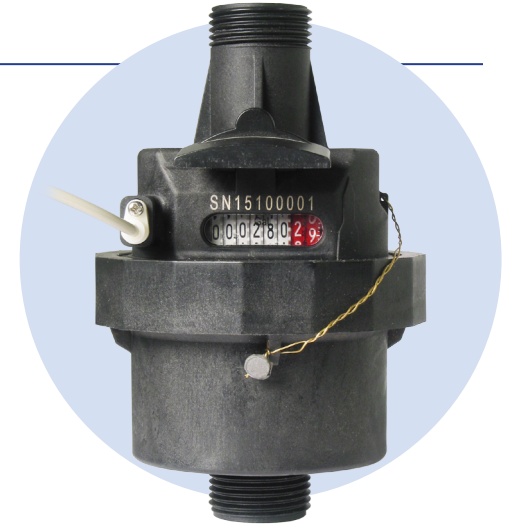
**Maximum Total:** 999,999.99 gallons

**Accuracy:** ±2% (Q2 to Q4) ±5% (Q1 to Q2)  
(see curves on back cover)

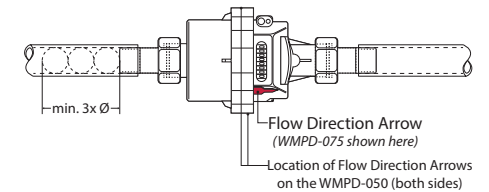
### 3. METER INSTALLATION

#### General Considerations

1. Completely flush the water line upstream of the meter to remove any possible dirt and debris.
2. The meter can be installed in any orientation with the direction of flow matching the arrow that is molded into the body. The register face can be positioned in any orientation 360° around. It should be positioned with easy access to reading it in mind.
3. The meter must remain full of water at all times for accurate measurement.

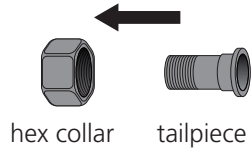


4. The meter should be installed lower than the outlet to produce a slight back-flow pressure. This will help ensure accuracy.
5. A length of 3 times the inner diameter of the pipe line should be present upstream of the meter. (see drawing on left)

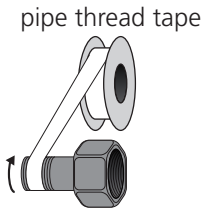


## 4. INSTALLATION STEPS

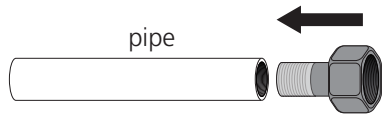
1. Insert tailpiece through threaded hexagonal collar.



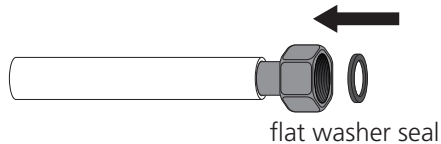
2. Wrap pipe thread tape around the threads of the tailpiece.



3. Thread tailpiece into pipe or threaded coupling.

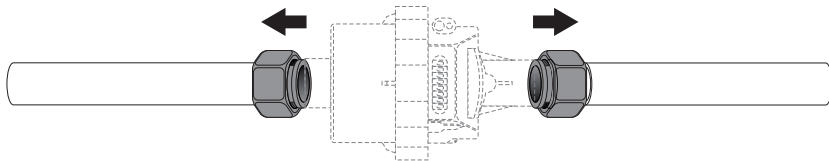


4. Insert soft flat washer seal into hex collar.

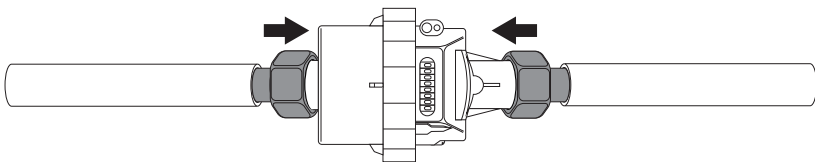


5. Repeat Steps 1 - 4 with the other tailpiece, hex collar, and seal on other pipe.

6. Slide collars back and position meter with the register in desired position.  
Be sure to check the flow direction. (see drawing on front cover for arrow locations)



7. Thread collars onto both ports of the meter and tighten by hand. Then hold meter in place and tighten collars 1/4 turn more with a wrench.



## 5. PULSE OUTPUT

The pulse output sensor simply slides into a hole on the meter next to the register and attaches with a single screw.

The switch is a dry contact closure and does not require any power. Sensors are made for electronic control loads and should not be used to switch power loads or line voltages. Adherence to maximum current and voltage ratings is vital.

**Max. Voltage:** 24vAC/DC

**Max. Current:** 20mA

The sensor will close and open (pulse) 20 times per gallon, or once every 0.05 gallons.

## 6. CALIBRATION

Piston displacement water meters do not require calibration.

## 7. USE & MAINTENANCE

These meters are for use with clean water. It is recommended that you place a 60 mesh strainer somewhere upstream of the meter.

There is no reset function for these meters. The meters are sealed shut with a tamper evident wire. The meters will operate maintenance free for their entire service life.

## 7. WARRANTY

WM-PD water meters are warranted to perform to AWWA new meter accuracy standards, and for twelve months from the shipment date will be free from defects in materials and workmanship. If a meter fails to perform as warranted, Assured Automation will repair it free of charge subject to the terms of this warranty.

Assured Automation's liability under this performance warranty is expressly limited to the repair or replacement of the meter upon the customer's returning the complete meter prepaid to:

**Assured Automation**  
19 Walnut Avenue  
Clark, NJ 07066

This performance guarantee is not applicable to meters which have been damaged by aggressive water conditions, foreign matter in media, misapplication, willful misconduct, negligence, vandalism, act of God, improper installation, frost/freeze damage or using the meter outside of its specific operating parameters (especially temperature and flow ranges).

In no event shall Assured Automation be liable for incidental or consequential damages of any kind, including but not limited to loss of profits or revenue, loss of use, cost of capital, cost of substitute equipment, facilities or services, downtime costs, delays and claims of customers of the customer or other third parties.