

## WM-PC Series

### Use & Care Manual

#### 1. GENERAL INFORMATION

WM-PC plastic water meters use the multi-jet principle. Multiple ports around the main chamber are used to create several flows of water against the impeller. As the impeller rotates based on velocity of the water, a gear train moves the register dials. This meter is also available with pulse output (see pulse output details).

#### 2. SPECIFICATIONS

**Temperature:** 105° F (40° C) maximum

**Pressure:** 150 PSI operating maximum

**Materials:**

Body & Couplings: FRP (fiber reinforced polymer)

Internals: Engineered thermoplastic

Magnet: Alnico

**Accuracy:** ± 1.5% (within normal flow rates)

**Sensor:** Reed switch

**Maximum Current:** 20 mA

**Maximum Voltage:** 24 VDC/VAC

**Cable Length:** 4.5' (1.35 m) standard  
(2,000' maximum run)

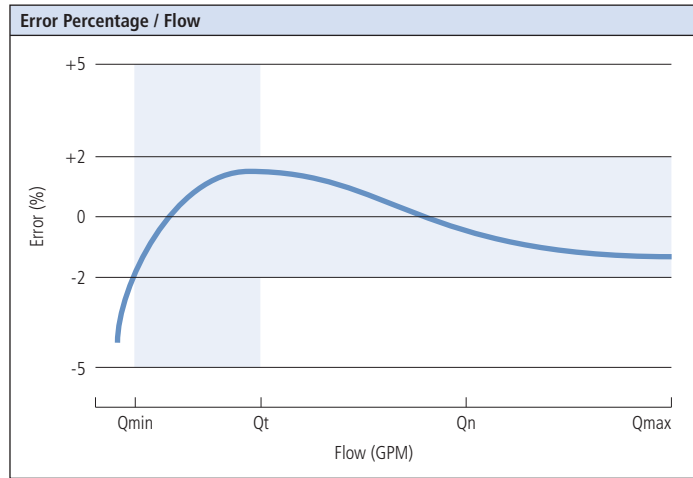


#### 3. METER INSTALLATION

1. Completely flush the water line upstream of the meter to remove any possible dirt and debris.
2. Confirm that the inlet strainer is installed on the upstream side of the meter. Install the meter in the pipeline. Water meters must be installed horizontally with the register facing upwards.
3. Flow direction must match the arrow located on the meter body.
4. Once positioned and inline, slowly open any upstream valves to prevent damage to the meter.

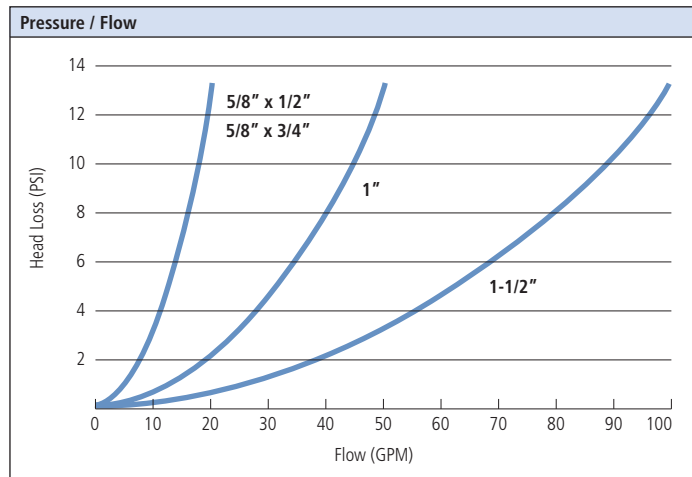
## 4. TECHNICAL DATA

Model No.	Size	Flow Rate (GPM)			Normal Flow (GPM)
		High	Continuous	Low	
WM-PC-050	5/8" x 1/2"	20	10	0.25	1-20
WM-PC-075	5/8" x 3/4"	20	10	0.25	1-20
WM-PC-100	1"	50	25	0.75	3-50
WM-PC-150	1-1/2"	100	50	1.50	5-100



## 5. ACCURACY CURVE

## 6. HEAD LOSS CURVES

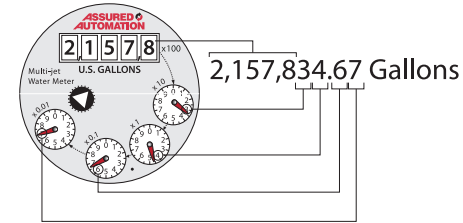


## 7. CALIBRATION

These new meters are produced in an ISO9001 certified production facility and are built in accordance with AWWA C708 standards for multi-jet meter accuracy.

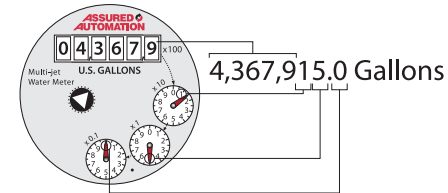
## 8. READING THE DIAL

Sizes 1/2", 3/4" & 1":



1. To read the meter, start with the register dials (21578).
2. Then add a single digit from each of the dials going in a clockwise direction and rounding each down (3, 4, 6, 7).

Size 1-1/2":



1. To read the meter, start with the register dials (43679).
2. Then add a single digit from each of the dials going in a clockwise direction and rounding each down (1, 5, 0).

## 9. PULSE OUTPUT

The magnet that is connected to a rotating dial on the face of the meter is detected by the Reed Switch sensor installed on the meter lens. Each time the magnet passes under the sensor, it turns on and off, which creates a pulse. 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. This data can be found under the Specifications heading.

## 10. INLET STRAINER

An annual cleaning of the strainer is usually sufficient. If water condition calls for it, it can be cleaned more often. Removing the strainer and back-flushing will loosen trapped particulates.

## 11. WARRANTY

WM-PC water meter 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.