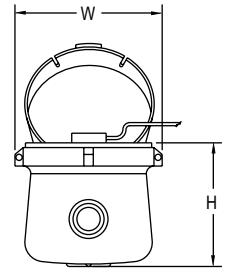
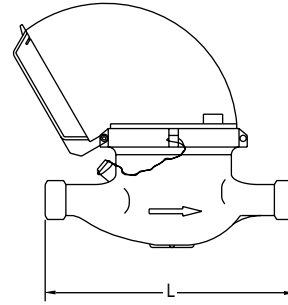
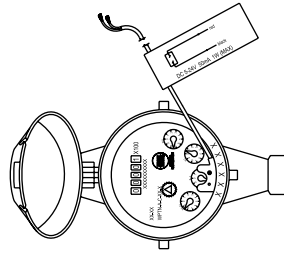




Series WPTN Multi-Jet NSF Certified Plastic Water Meter

Specifications - Installation and Operating Instructions



Spud Size (BSPP)	Coupling Size (NPT)	L	W	H	Weight
5/8"	1/2"	6-1/2" [165 mm]	3-23/32" [94 mm]	4-15/64" [107.5 mm]	1.55 lb [0.7 kg]
5/8"	3/4"	7-1/2" [190 mm]	3-23/32" [94 mm]	4-15/64" [107.5 mm]	1.77 lb [0.8 kg]
3/4"	1"	10-1/4" [260 mm]	3-55/64" [98 mm]	4-5/8" [117.5 mm]	2.43 lb [1.1 kg]
1"	1"	10-1/4" [260 mm]	3-55/64" [98 mm]	4-5/8" [117.5 mm]	2.43 lb [1.1 kg]
1-1/2"	1-1/2"	11-13/16" [300 mm]	4-13/16" [122 mm]	5-45/64" [141.5 mm]	4.41 lb [2 kg]

The **Series WPTN Multi-Jet NSF Certified Plastic Water Meter** is a series of plastic mechanical water totalizing meters with NSF certification. The meters display the total water usage in gallons. They are available in a range of body sizes and include NPT optional couplings. The plastic body water meters can be used where standard brass is not compatible, in potable water applications, some corrosive environments, or where an economical water totalizer is desired.

CAUTION

Unit must be installed in a horizontal position with the meter face pointing up otherwise leakage and/or meter damage will occur.

Installation Instructions

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

NOTICE

To protect meter spud threads, store the meter with thread protectors in place.

3. Set the meter in the line. Install in a horizontal plane with the meter face upright in a location accessible for reading, service and inspection. There are arrows located on the side of the meter and above the outlet spud which indicate the direction of flow. See Figure 1 for correct alignment.
4. For accurate measurement, the tap height should be higher than the meter.
5. Do not over-tighten connections; tighten only as required to seal. Do not use pipe sealant tape on meter threads.

With upstream shutoff valve only:

6. Open shutoff valve slowly to remove air from meter and service line. Open a faucet slowly to allow entrapped air to escape. Close the faucet.

SPECIFICATIONS

Service: Water.

Wetted Materials: Body: PA; Couplings: PA; Measuring chamber: ABS plastic.

Flow Range: See model chart.

Accuracy: WPTN-A-X-XX: Minimum flow: ±3%; Nominal flow: ±1.5%.

Temperature Limit: 112°F (50°C).

Pressure Limit: 150 psi (10 bar).

Pressure Drop: See pressure drop curve.

Totalizing Display Maximum: See model chart.

Output Signal: Pulse output with frequency proportional to flow rate.

Pulse Options: 0.1 gal, 1 gal, 10 gal, 100 gal per pulse (1 L, 10 L, 100 L, 1000 per pulse*) See model chart.

Electrical Rating: 0.01 A @ 24 VAC/DC.

Electrical Connections: 3.5mm² stranded lead wires, 4.5' (1.5 m) long.

Mounting Orientation: Horizontal with meter face facing up.

Weight: See dimension chart.

Approvals: NSF/ANSI 61.

*Consult factory.

MODEL CHART							
Model	Size	Coupling Size	GPM (Gallons Per Minute)			Display Max (Gallons)	Pulse Rate (Gal/Pulse)
			Maximum Flow	Nominal Flow Range	Minimum Flow		
WPTN-A-C-01	5/8" x 1/2"	5/8" x 1/2"	20	1 to 20	0.25	9,999,999.99	0.1
WPTN-A-C-02	5/8" x 3/4"	5/8" x 3/4"	20	1 to 20	0.25	9,999,999.99	0.1
WPTN-A-C-03	3/4" x 1"	3/4" x 1"	30	2 to 30	0.5	9,999,999.99	0.1
WPTN-A-C-04	1"	1"	50	3 to 50	0.75	9,999,999.99	0.1
WPTN-A-C-01-1	5/8" x 1/2"	5/8" x 1/2"	20	1 to 20	0.25	9,999,999.99	1
WPTN-A-C-02-1	5/8" x 3/4"	5/8" x 3/4"	20	1 to 20	0.25	9,999,999.99	1
WPTN-A-C-03-1	3/4" x 1"	3/4" x 1"	30	2 to 30	0.5	9,999,999.99	1
WPTN-A-C-04-1	1"	1"	50	3 to 50	0.75	9,999,999.99	1
WPTN-A-C-05-1	1-1/2"	1-1/2"	100	5 to 100	1.5	9,999,999.99	1
WPTN-A-C-01-10	5/8" x 1/2"	5/8" x 1/2"	20	1 to 20	0.25	9,999,999.99	10
WPTN-A-C-02-10	5/8" x 3/4"	5/8" x 3/4"	20	1 to 20	0.25	9,999,999.99	10
WPTN-A-C-03-10	3/4" x 1"	3/4" x 1"	30	2 to 30	0.5	9,999,999.99	10
WPTN-A-C-04-10	1"	1"	50	3 to 50	0.75	9,999,999.99	10
WPTN-A-C-05-10	1-1/2"	1-1/2"	100	5 to 100	1.5	9,999,999.99	10
WPTN-A-C-01-100	5/8" x 1/2"	5/8" x 1/2"	20	1 to 20	0.25	9,999,999.99	100
WPTN-A-C-02-100	5/8" x 3/4"	5/8" x 3/4"	20	1 to 20	0.25	9,999,999.99	100
WPTN-A-C-03-100	3/4" x 1"	3/4" x 1"	30	2 to 30	0.5	9,999,999.99	100
WPTN-A-C-04-100	1"	1"	50	3 to 50	0.75	9,999,999.99	100
WPTN-A-C-05-100	1-1/2"	1-1/2"	100	5 to 100	1.5	9,999,999.99	100

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With both upstream and downstream shutoff valves installed:

7. Test the installation for leaks: Close the outlet (downstream) shutoff valve. Open the inlet (upstream) shutoff slowly until meter is full of water. Open the outlet (downstream) valve slowly until air is out of the meter and service line. Open a faucet slowly to allow entrapped air to escape. Close the faucet.

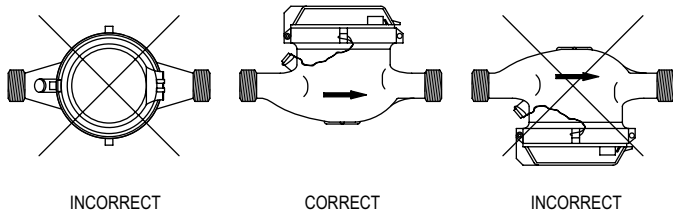


Figure 1

Electrical Installation

The Series WPTN uses a dry contact closure reed switch and does not require power. It can be wired using Figure 2.

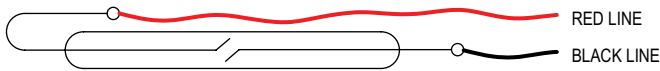


Figure 2

Meter Reading

The total flow that has passed through the meter is read by starting at the top of the register with the Five-Digit Totalizer, and then read clockwise around the small dials. In Figure 3 below, the Five-Digit Totalizer reads 13800 (138 x 100), and the dials read 0 (0 x 10), 0 (0 x 1), and 0 (0 x 0.1) respectively. The total flow is 13800.0.

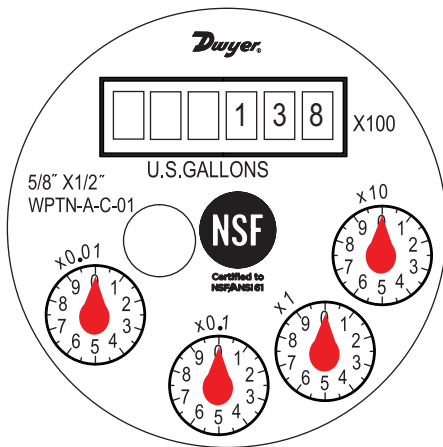


Figure 3

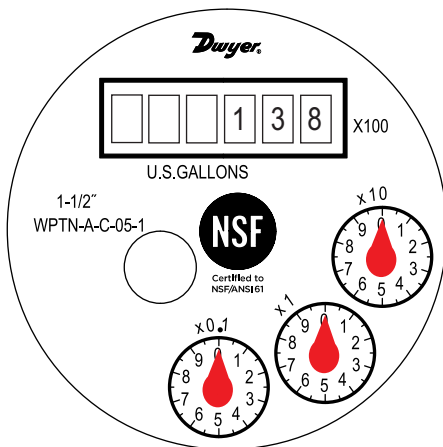
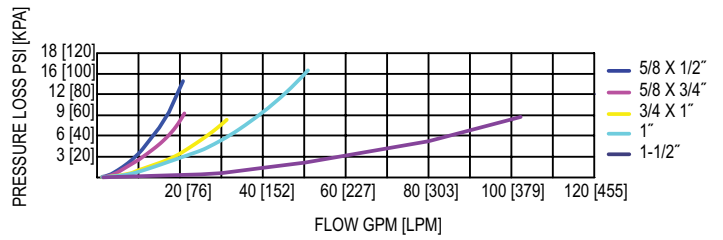
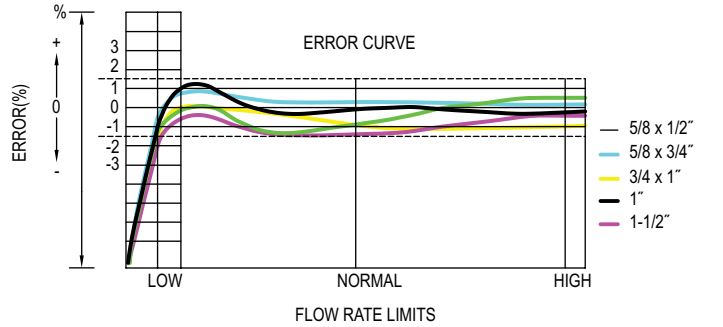


Figure 4

Pressure Loss Curve



Accuracy Chart



MAINTENANCE/REPAIR

Upon final installation of the Series WPTN, no routine maintenance is required. The Series WPTN is not field serviceable and 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 Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.