

WM-NLCH Series

Lead-Free Hot Water Meters



The WM-NLCH Series meter is a multijet dry-type totalizing hot water meter available in sizes from 1/2" to 2". It is produced in an ISO9001 certified production facility and is constructed in conformance with AWWA C708 standards. The product complies with NSF/ANSI 61 Annex G and conforms with lead-free plumbing as defined by California, Vermont, Maryland and Louisiana state laws and the U.S. Safe Drinking Water Act that took effect January, 2014. It is an ideal choice for a range of municipal and industrial water metering applications.

Water flows through the meter's strainer (inlet and internal) and into the measuring chamber where it drives the impeller. A driving magnet transmits the movement of the impeller to a driven magnet located within the sealed register. The magnet is connected to a gear train which translates the impeller rotations into volume totalizers displayed on the meter's register dial face.

The WM-NLCH Series water meter is top loaded and consists of three basic components: main case, measuring chamber, and head ring. The main cases of all sizes are constructed using C87850 low-lead brass alloy.

FEATURES

- All parts in contact with water are constructed of corrosion-resistant materials
- Body and coupling are made with low-lead brass alloy C87850 and meets potable water standards
- Impeller is the only moving part in contact with water, giving the meter long life and consistently reliable operation
- Extra filter at the inlet of the meter body permits cleaning without having to open the meter
- Dial plate design in US Gallons
- Optional check valve to avoid reverse flow (lead-free)
- Optional pulse output consisting of plastic housing with 2-wire (red and black) reed switch and cable

MODEL NUMBERING

Model Number **WM-NLCH-** X X

- Size: _____
- 050** = 5/8" x 1/2"
 - 075** = 5/8" x 3/4"
 - 100** = 1"
 - 150** = 1 1/2"
 - 200** = 2"

- Pulse Output: *(Optional)* _____
- R/1P** = 1 pulse/gal. (050, 075, 100)
 - R/2P** = 2 pulse/gal. (050, 075, 100)
 - R/10P** = 10 pulses/gal. (075 & 100)
 - R/20P** = 20 pulses/gal. (075 & 100)
 - R/5G** = 1 pulse/5 gal. (150 & 200)
 - R/10G** = 1 pulse/10 gal. (150 & 200)

SPECIFICATIONS

- Maximum Pressure:** 150 psi
- Maximum Temperature:** 194°F
- Maximum Reading:**
050, 075, & 100: 9,999,999.99
150 & 200: 9,999,999.9
- Accuracy:**
Normal Flow: ±1.5%
Low Flow: ±3%

MATERIALS

- Body & Couplings:** EcoBrass
- Internals:** Engineered thermoplastic
- Magnet:** Alnico

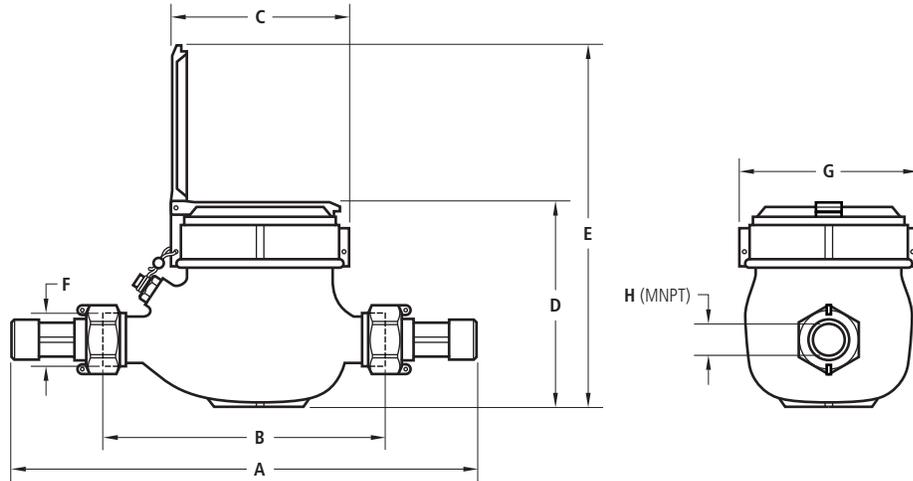
OPTIONAL PULSE OUTPUT

- Sensor:** Reed switch
- Pulse Rates:**
050: 1 or 2 pulse/gal.
075: 1, 2, 10, or 20 pulse/gal.
100: 1, 2, 10, or 20 pulse/gal.
150: 5 or 10 gal./pulse
200: 5 or 10 gal./pulse
- Maximum Current:** 10mA
- Maximum Voltage:** 24VAC/vDC
- Cable Length:** 5' standard, 2000' max. run

WM-NLCH Series

Lead-free Hot Water Meters
(1/2" to 2" end connections)

DIMENSIONS

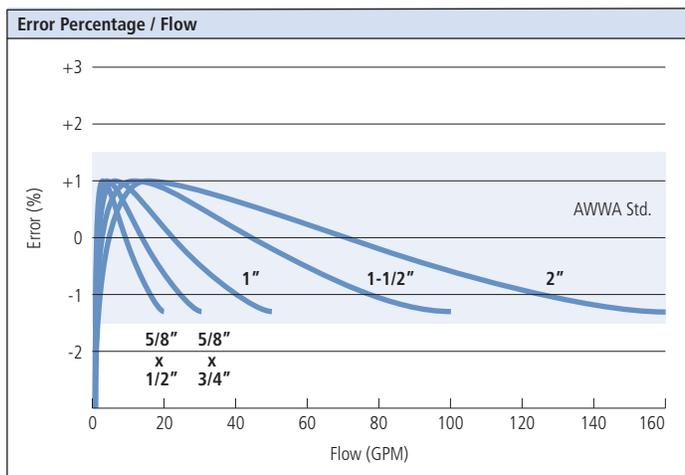


DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	A	B	C	D	E	F	G	H (MNPT)	Flow Rate (GPM)			Normal Flow (GPM)	Wt. (lbs.)	Model No.
									High	Continuous	Low			
5/8" x 1/2"	10.20	7.5	3.7	4.3	7.6	0.75	3.7	0.50	20	10	0.25	1-20	3.75	WM-NLCH-050
5/8" x 3/4"	11.57	7.5	3.7	4.3	7.6	1.00	3.7	0.75	20	10	0.25	1-20	4.25	WM-NLCH-075
1"	15.20	10.3	3.9	4.7	8.2	1.25	3.9	1.00	50	25	0.75	3-50	6.50	WM-NLCH-100
1-1/2"	17.00	11.9	4.9	5.6	10.1	2.00	4.9	1.50	100	50	1.50	5-100	8.25	WM-NLCH-150
2"	17.00	11.9	4.9	5.6	10.1	2.50	4.9	2.00	160	80	2.00	8-160	13.75	WM-NLCH-200

A = total length including connection and gasket without compression.

ACCURACY CURVES



HEAD LOSS CURVES

