FLOW METERS

ULTRASONIC INLINE FLOW METERS

Ultrasonic Inline Flow Meters *are engineered to elevate water treatment and usage measurement. The ultrasonic inline flow meter module operates as a pulse generating device with corresponding K Factor for accurate flow measurement when connected to commonly used industry controls. Made in USA.*

FEATURES

- Real-time monitoring allows immediate detection of leaks and water usage irregularities, enabling water conservation
- Innovative use of ultrasonic technology uses no moving parts within the water stream to increase service life
- Stainless steel construction ensures durability and reliability even in the most demanding environments
- Familiar pulse output mode operation allows meter to be applied to wide variety of control devices
- Meter module can be updated or serviced without removing meter body from plumbing
- Accuracy over an extended period of time
- Less clogging, and less wear and tear
- Passivated surfaces and materials resist scaling
- Highly visible LED flow indicator
- Male threaded inlet adapter for direct mating to treatment control valve
- Boss provided on outlet for drilling/tapping 1/4 inch sample port

SPECIFICATIONS

Max Pressure	250 psi (8.6 bar)
Water Temperature Range	34°F (1°C) to 100°F (38°C)
Operating Power	5 to 24VDC*

* Confirmed to work with Clack, Fleck, Autotrol, Culligan, and AQ Matic controllers.

WETTED PARTS

Meter Body	CF8M† Stainless Steel
Signal Reflection Plate	SS316
Transducer Housing	Glass-filled Polyphenylene Sulfide (PPS)
O-ring	EPDM

† CF8M is a cast, molybdenum-bearing austenitic stainless steel alloy, equivalent to the wrought AISI 316 stainless steel, known for its enhanced corrosion resistance, especially in chloride-rich environments.

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FORM 1550
EFFECTIVE
MARCH 2025

Flow Meters

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OPERATING RANGE

Part Number	Pipe Size Inches	Thread Type**	Low Flow Threshold	Typical Flow 0.1 ft/sec to 10 ft/sec	Max Flow 16 ft/sec	K Factor Pulses/Gal
QA-FM100	1.0	NPT	0.12 gpm (0.45 lpm)	0.3 to 24.5 gpm (1.1 to 93 lpm)	39 gpm (147 lpm)	40 (10.57/Liter)
QA-FM150	1.5	NPT	0.25 gpm (0.95 lpm)	0.6 to 55.1 gpm (2.3 to 209 lpm)	88 gpm (333 lpm)	30 (7.93/Liter)
QA-FM200	2.0	NPT	0.45 gpm (1.7 lpm)	1.0 to 98.0 gpm (3.8 to 371 lpm)	156 gpm (590 lpm)	20 (5.28/Liter)
QA-FM300	3.0	NPT	1.4 gpm (5.3 lpm)	2.2 to 220.5 gpm (10.6 to 835 lpm)	353 gpm (1336 lpm)	10 (2.64/Liter)

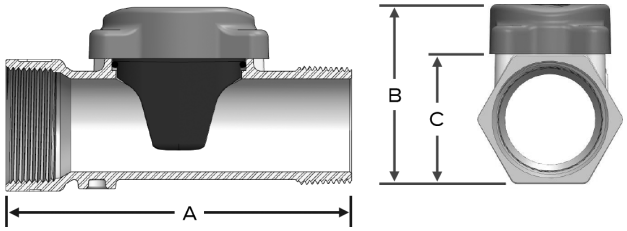
** Available with BSP thread. Add 'BSP' to end of part number. Example: QA-FM100BSP.

NOTES:

Uniform Plumbing Code recommends that water velocity remain below 8 feet per second (2.4 meters per second).

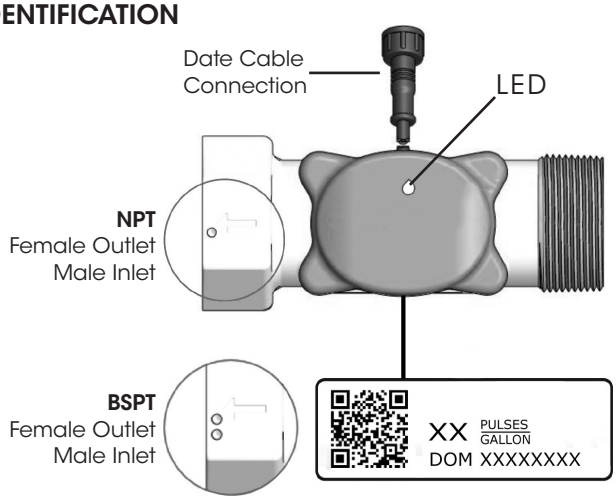
3-foot Meter Cable (P/N QA-FM-CABLE) included. Optional 8-foot Meter Cable Extension (P/N QA-FM-CABLEEXT) available.

DIMENSIONS



Overall Length (Dim A) Inches	Overall Height (Dim B) Inches	Hex Width Flat to Flat (Dim C) Inches	Weight Lbs
5.6	2.5	1.6	1.7
5.6	3.0	2.1	2.0
5.6	3.5	2.6	2.4
6.9	4.5	3.8	4.2

IDENTIFICATION



On Power Up

LED flashes indicator of power applied and sequence to show how dip switches are set for meter size.

# of Flashes	Model	inches
1 Flash	QA-FM100	1 inch
2 Flashes	QA-FM150	1.5 inches
3 Flashes	QA-FM200	2 inches
4 Flashes	QA-FM300	3 inches

During Operation

LED flashes as forward flow is sensed within meter.
Flashing is proportional to the rate of flow sensed.
Higher flow rate generates higher frequency of flashing.

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