AQMATIC
Valves & Controls

MADE IN THE USA
OF FOREIGN & DOMESTIC PARTS

F SERIES INLINE FLOW METERS

Highly accurate flow measurement with superior low flow pick up

The F Series inline flow meters are engineered to elevate water treatment and usage measurement. Composed of stainless steel construction and no internal moving parts, these flow meters ensure durability and reliability even in the most demanding environments.

The F Series meter module operates as a pulse generating device with corresponding “K Factor” for accurate flow measurement when connected to commonly used industry controls. Ultrasonic technology provides highly accurate flow measurement along with superior low flow pick up.

OPTIONS

- Size range 1”, 1 1/2”, 2” and 3”
- NPT or BSP threaded
- 8’ Cable extention adaptor

FEATURES AND BENEFITS

• Innovative use of ultrasonic technology uses no moving parts within the water stream to increase service life

• Stainless steel body provides a durable material for challenging applications as well as installation requirements

• Meter module can be updated or serviced without removing meter body from plumbing

• Passivated surfaces and materials resist scaling

• Familiar pulse output mode operation allows meter to be applied to wide variety of control devices

• Highly visible LED flow indicator

• Male threaded inlet adapter for direct mating to treatment control valve

• Laser engraved data plate on meter with date of manufacture and model identification

• QR code integrated on data plate to make navigating to specification information easy

• Boss provided on outlet for drilling/tapping 1/4” sample port

TYPICAL APPLICATIONS

- Agricultural Irrigation
- Boiler Water Treatment
- Car Wash Systems
- Centrifugal Separators
- Conveyor Systems
- Cooling Towers
- High Purity Water
- HVAC Systems
- Scale Reduction Conditioners
- Water Resource Management
- Laundry Equipment
- Level Control Systems Process
- Water Systems Pump Controls
- Reverse Osmosis Pretreatment

F311 F314 F315 F317

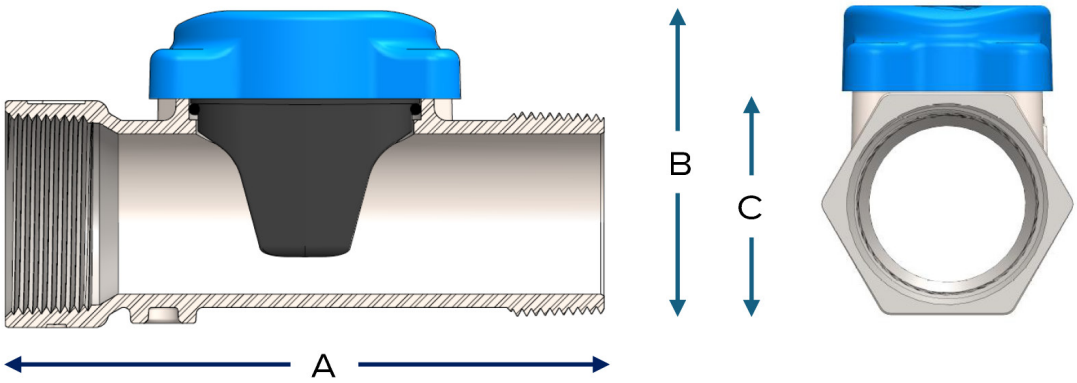
PERFORMANCE DATA

		Operating Range			
Model Number	Pipe Size	Low Flow Threshold Accuracy - ± 5%	Typical Flow (0.1 ft/sec to 10 ft/sec) Accuracy - ± 3%	Max Flow (16ft/sec) Accuracy - ± 5%	K Factor (Pulses/Gal)
F311	1.0"	.12 gpm (.45 Lpm)	**0.3 - 24.5 gpm (1.1 - 93 Lpm)**	39 gpm (147 Lpm)	40 (10.57/Liter)
F314	1.5"	.25 gpm (.95 Lpm)	**0.6 - 55.1 gpm (2.3 - 209 Lpm)**	88 gpm (33 Lpm)	30 (7.93/Liter)
F315	2.0"	.45 gpm (1.7 Lpm)	**1.0 - 98.0 gpm (3.8 - 371 Lpm)**	156 gpm (590 Lpm)	20 (5.28/Liter)
F317	3.0"	1.4 gpm (5.3 Lpm)	**2.2 - 220.5 gpm (10.6 - 835 Lpm)**	353 gpm (1,336 Lpm)	10 (2.64/Liter)

*Uniform Plumbing Code recommends that water velocity within plumbed systems should not exceed 8 ft/sec.

Max Pressure	250 psi (17.24 bar)
Water Temperature Range	34°F (1°C) to 140°F (60°C)
Operating Power	5 - 24VDC

WEIGHT AND DIMENSIONS



Model Number	Part Number	Pipe Size	Thread Type	Overall Length (Dim A)	Overall Height (Dim B)	Hex Width Flat to Flat (Dim C)	Weight
F311-000	53001-01	1.0"	NPT	5.6"	2.5"	1.6"	1.7 lbs
F311-001	53001-02		BSP				
F314-000	53004-01	1.5"	NPT	5.6"	3.0"	2.1"	2.0 lbs
F314-001	53004-02		BSP				
F315-000	53005-01	2.0"	NPT	5.6"	3.5"	2.6"	2.4 lbs
F315-001	53005-02		BSP				
F317-000	53007-01	3.0"	NPT	6.9"	4.5"	3.8"	4.2 lbs
F317-001	53007-02		BSP				

© 2024 AQ Matic Valve and Controls Company, Inc. All rights reserved.
All AQ Matic trademarks and logos are owned by AQ Matic or its affiliates. All other registered and unregistered trademarks and logos are the property of their respective owners. Because we are continuously improving our products and services, AQ Matic reserves the right to change specifications without prior notice. AQ Matic is an equal opportunity employer.