

F-3000 Series

ELECTROMAGNETIC FLOW METERS



Accurate and reliable flow measurement
configured for your application



The F-3000 series is available with Polypropylene, Ebonite or PTFE liner and local or remote mounted converter.

F-3000 Series Features:

- Accuracy to $\pm 0.2\%$ of rate from 3 to 33 ft/sec
- Nineteen sizes from 1" to 42" pipe diameters
- Flow ranges from 2.37 to 137,361 GPM
- Standard pressure: 230 PSI
- Volumetric flow rate measurement independent of fluid viscosity, density and temperature
- No moving parts for zero maintenance
- Bi-directional flow measurement
- No pressure drop through sensor
- Optional integral ground electrode eliminates grounding rings with plastic piping systems
- Minimal straight pipe run required
- Every sensor is factory wet-calibrated

TYPICAL APPLICATIONS

- Chilled Water
- Hot Water
- Domestic Water
- Condenser Water
- Boiler Feed

CONTROLLER FEATURES

	Series 3800	Series 3900
Mounting	Sensor or wall	Sensor, wall or panel
Keypad	3 internal keys	3 keys
LCD Display	2-line alphanumeric	Graphic display
Backlight	N	Y
4-20 mA output	Y (optional)	Y
Pulse/Frequency/Alarm Output	2 assignable open collector	2 assignable
Empty pipe detection	Y	Y
Interface	PC, hand terminal	RS485, PC, hand terminal
Batch Function	N	Y
Power Supply	90-265 VAC (Std) 10-63 VDC 15-45 VAC	90-265 VAC 10-35 VDC 18-63 VDC 15-45 VAC
Enclosure	Plastic NEMA 4x	Aluminum or plastic (panel version) NEMA 6

1500 North Belcher Road, Clearwater, FL 33765 • Tel (727) 447-6140 • Fax (727) 442-5699

ENGINEERING SPECIFICATIONS

F-3000 Series Flow Meters

• Accuracy:

Series 3900: ±0.2% of rate from 3 to 33 ft/sec

Series 3800: ±0.4% of rate from 3 to 33 ft/sec

• Repeatability: ±0.1%

• Temperature (process)

+32°F to 140°F (PP)

+23°F to 174°F (Ebonite)

-4°F to 212°F (PTFE Compact)

-4°F to 302°F (PTFE Remote)

• Pressure: 230 PSI Std (higher pressures upon request)

• Liner Material: PTFE, Ebonite or Polypropylene

• Flow Tube: Carbon Steel, painted or 304/316 SS (optional)

• Electrode Material: 316 SS*

• Number of Electrodes: 2 (3rd grounding electrode optional)

• Environmental Rating: NEMA 6

• Fluid Conductivity: 5µS/cm (min)

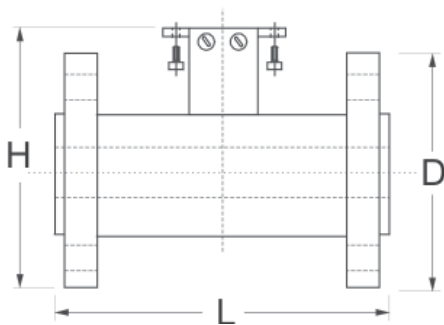
• Connections: ANSI Flange

• Case Material: Carbon steel with two-part epoxy coating (SS optional)

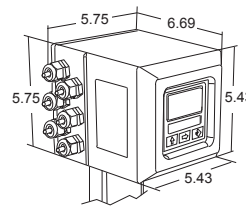
* Hastelloy B or C, Platinum-Rhodium or Tantalum electrodes optional (other upon request)

DIMENSIONS (ANSI 150)

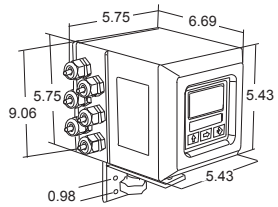
Size (in)	1	1½	2	3	4	6	8	10	12	14	16
Min flow rate (gpm @ 1 ft/sec)	2.37	6.08	9.49	24.30	37.97	85.44	151.9	237.3	341.8	465.2	607.6
Max flow rate (gpm @ 33 ft/sec)	77.9	199.3	311.5	797.4	1246	2803	4984	7787	11,213	15,262	19,934
Length (L below)	7.87	7.87	7.87	7.87	9.84	11.81	13.78	17.72	19.68	21.65	23.62
Height (H above)	7.13	8.15	8.74	10.2	11.34	13.43	15.79	18.15	20.75	22.91	25.16
Flange Dia. (D below)	4.24	5.00	5.98	7.52	9.02	10.98	13.50	15.98	19.02	20.98	23.50
Size (in) continued	18	20	24	26	30	34	36	42	48		
Min flow rate (gpm @ 1 ft/sec)	768.9	949.4	1367	1604	2136	2744	3076	4187	5468		
Max flow rate (gpm @ 33 ft/sec)	25,229	31,147	44,852	52,639	70,082	90,016	100,918	137,360	179,409		
Length (L below)	23.62	23.62	23.62	25.59	29.53	33.46	35.43	39.37	47.24		
Height (H above)	25.16	29.57	34.09	36.26	40.63	45.24	47.48	54.37	58.66		
Flange Dia. (D below)	23.50	27.52	32.01	34.25	38.74	43.74	45.98	52.99	57.28		



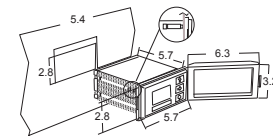
F-3000 Series Flow Sensor



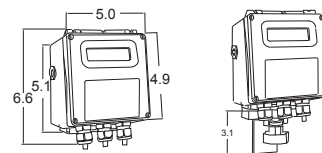
Series 3900 Converter Sensor Mount



Series 3900 Wall Mount



Series 3900 Panel Mount



Series 3800 Converter

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