ELECTROMAGNETIC FLOW METER

FM9380-F75 INFORMATION SHEET

Advantages of Electromagnetic Flow Meters

- No flow obstructions = no clogging risk
- No moving parts means no service or maintenance requirements
- Works with any conducting fluid

Specifications	FM9380-F75
Rated Flow Range	0.6 to 100 GPM / 2.3 to 380 l/min
Accuracy	+/- 2% of reading between >1.0 GPM to 100 GPM / 3.8 l/min to 380 l/min +/- 5% of reading between 0.6 GPM to 1.0 GPM / 2.3 l/min to 3.8 l/min
Pressure Drop	4 PSI @ 100 GPM / 0.276 bar @ 380 l/min
Maximum Pressure Rating	200 PSI / 14 bar
Calibration Number	1,500 pulses per gallon / 396 pulses per liter / 15,000 pulses per 10 gallon*
Fluid Requirements	Water based with conductivity >50 µS/cm
Inlets / Outlets	TeeJet F75 Series Flange
Materials	Polypropylene, 300 series stainless steel, Viton seals
Rated Temperature Rating	Operating: 32°F to +140°F / 0°C to +60°C Storage: -40°F to 185°F / -40°C to +85°C
Voltage	4.5 to 16 VDC
Current	<1 amp
Output	50% Square Wave, NPN with a 10K pull-up resistor
LEDs	Green — Power Flashing Orange — Flow 1 Hz @ 0.6 to 3 GPM / >2.3 to 11.4 l/min 3 Hz @ >3 to 15 GPM / >14.4 to 56.8 l/min 10 Hz @ >15 to 100 GPM / >56.8 to 380 l/min
Size	6.3" x 4.1" x 3.1" / 160 mm x 105 mm x 78 mm
Weight	1.2 lbs / 0.5 kg
Ingress Protection	IP67

FM9380-F75

- Clean-sheet design optimized for agricultural application equipment
- Optimized design balances excellent low flow performance with low pressure loss at high flow rates
- Unaffected by changes in fluid temperature, density, viscosity, concentration and electrical conductivity
- Lifetime factory calibration - no field calibration needed
- Convenient TeeJet 75 series/Banjo 200 series flange connections
- LED indicators for power and flow signal
- Extremely wide 166:1 flow range
- CE Certified

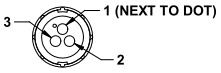
** The part number FM9380C-950-F75 has a calibration number of 950 pulses per gallon / 251 pulses per liter / 9,500 pulses per 10 gallon. This is important for any controllers that are limited to a 3 digit (pulses per gallon) calibration number or a 4 digit (pulses per 10 gallon) calibration number (such as Raven SCS 4XX controllers).*

Part Numbers

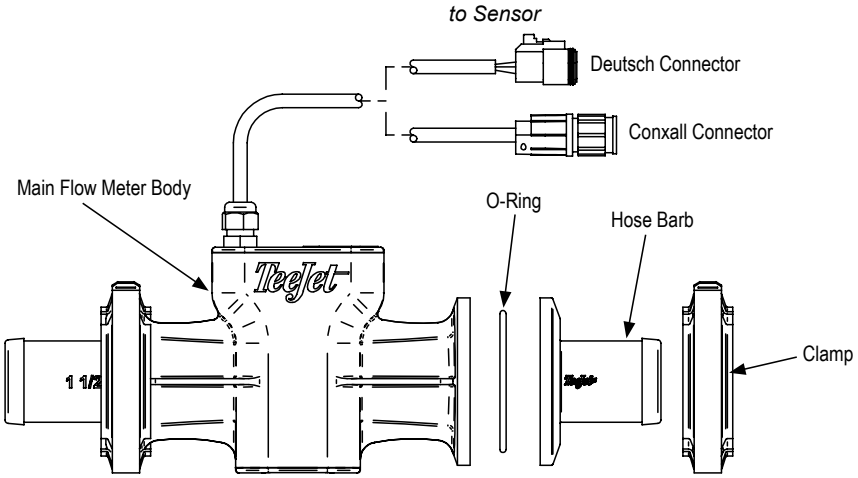
Part Number	Description
FM9380-F75	FM9380 Flow Meter, 75 Series Flange, 200 PSI, Deutsch
FM9380-F75-NH	FM9380 Flow Meter, 75 Series Flange, 200 PSI, Deutsch, No Relay Harness
FM9380C-950-F75	FM9380 Flow Meter, 75 Series Flange, 200 PSI, Conxall, 3 Digit Calibration Number
UFM9380-F75	Unfiltered FM9380 Flow Meter, 75 Series Flange, 200 PSI, Deutsch
UFM9380-F75-NH	Unfiltered FM9380 Flow Meter, 75 Series Flange, 200 PSI, Deutsch, No Relay Harness

Cable Information

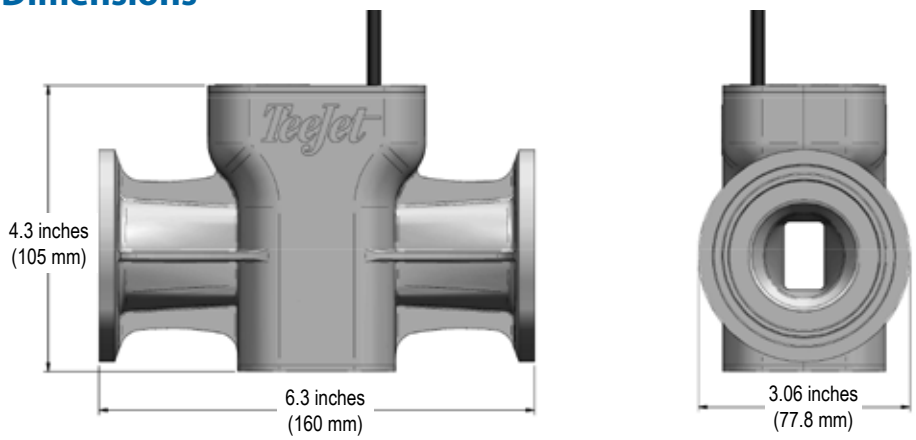
Connector, Deutsch 3 Pos/Skts (FM9380-F75)				
	Pin Out	Color	Function	Cable Length
	A	Red	+4.5V to 16V	1.654' / 0.5 m
	B	White	Signal	
	C	Black	Ground	

Connector, Conxall 3 Pos/Pins (FM9380C-F75)				
	Pin Out	Color	Function	Cable Length
	1	Black	Ground	1.654' / 0.5 m
	2	White	Signal	
	3	Red	+5V	

Flow Meter Diagrams



Dimensions



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