QSE Series

Electromagnetic Flow Meter



Product Description

The FLOMEC® QSE Mag Series is a dependable, highly accurate electromagnetic flow meter designed for flow and usage monitoring in commercial applications.

The Noryl® housing and flow tube offer a lightweight, easy-to-install mag meter that is resistant to heat (210 °F / 99 °C) and is compatible with many water-based liquid solutions (for installation on plastic pipes only).

The QSE Mag Meter monitors flow rate and total flow in a wide variety of applications including HVAC and water reclamation.

The meter is configured and monitored wirelessly through the FLOMEC® app. The app is available through the Google Play™ store, for Android systems only.

Please note that when installing the mag meter to metal pipes, it is recommended to use flexible expansion joints on one or both ends to eliminate any stresses that might be incurred from misaligned rigid metal piping.

Features

- Low investment and operating costs
- Wireless configuration and monitoring
- ± 0.5% accuracy of reading (from 0.25 fps to 15 fps)
- Wide turndown ratio of 60:1
- Non-intrusive, no moving parts to wear out, maintenance, repair costs low and tolerates high flows without damage
- The slightly modified bore permits unobstructed flow and minimizes flow disturbances and straight pipe requirements
- 7 line sizes (½” to 4”) ½”, ¾”, 1”, 1-½”, 2”, 3” and 4”
- Housing ported with thermal well supports for sensors (energy management)

Specifications

Fitting Size/Fitting Type	NPT, BSP, ½” to 2” - NPT (male), BSP (male) (Rc thread) 3” and 4” 150# ANSI flanged, polymer
Recommeded Plastic Flange Bolt Torque	25 ft.-lbs. (33.89 N·m)
Pipe Sizes	½”, ¾”, 1”, 1-½”, 2”, 3”, 4”
Pressure Rating	150 PSI @ 73 °F (10 BAR @ 23 °C)
Accuracy	±0.5% of reading between 0.25 fps and 15 fps (see owner’s manual for complete accuracy specs)
Operating Temp. Range	½” to 2”: 32 to 210 °F (0 to 98 °C) 3” to 4”: 32 to 180 °F (0 to 82 °C)
Ambient Temp. Range	0 to 140 °F (-18 to 60 °C)
Power Supply	Externally powered Voltage supply (min.): 12 Vdc or Vac Voltage supply (max.): 30 Vdc or Vac
Consumption	Max. current consumption: 150mA
Wetted Materials	Body: Noryl Electrodes: 316L SS Seals: NBR O-rings
Frequency Range (all sizes)	10Hz min., 3,000Hz max. (with blind pulse out)
Calibration Report	Standard, NIST available
Approvals	NEMA 6P (pending), IP67, CE, NIST, NSF, Canadian Standards Association

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Available Products

Part No.	Manufacturer's Part No.	Description
Flow with Display		
FLO-QSE05NPT42XXXA	QSE05NPT42XXXA	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,1/2inch,NPT_outer-thd
FLO-QSE05BSP42XXXA	QSE05BSP42XXXA	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,1/2inch,BSP_outer-thd
FLO-QSE07NPT42XXXA	QSE07NPT42XXXA	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,3/4inch,NPT_outer-thd
FLO-QSE07BSP42XXXA	QSE07BSP42XXXA	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,3/4inch,BSP_outer-thd
FLO-QSE10NPT42XXXA	QSE10NPT42XXXA	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,1inch, NPT_outer-thd
FLO-QSE10BSP42XXXA	QSE10BSP42XXXA	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,1inch, BSP_outer-thd
FLO-QSE15NPT42XXXD	QSE15NPT42XXXD	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,1-1/2inch,NPT_outer-thd
FLO-QSE15BSP42XXXD	QSE15BSP42XXXD	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,1-1/2inch,BSP_outer-thd
FLO-QSE20NPT42XXXD	QSE20NPT42XXXD	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,2inch,NPT_outer-thd
FLO-QSE20BSP42XXXD	QSE20BSP42XXXD	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,2inch,BSP_outer-thd
FLO-QSE30FAP42XXXB	QSE30FAP42XXXB	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,3inch,flange
FLO-QSE40FAP42XXXC	QSE40FAP42XXXC	Noryl,MagFlowmeter,Display,pulse+4-20mA-out,4inch,flange
BTU without Display		
FLO-QSE05NPTQBQ11A	QSE05NPTQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,1/2inch,NPT_outer-thd
FLO-QSE05BSPQBQ11A	QSE05BSPQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,1/2inch,BSP_outer-thd
FLO-QSE07NPTQBQ11A	QSE07NPTQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,3/4inch,NPT_outer-thd
FLO-QSE07BSPQBQ11A	QSE07BSPQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,3/4inch,BSP_outer-thd
FLO-QSE10NPTQBQ11A	QSE10NPTQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,1inch,NPT_outer-thd
FLO-QSE10BSPQBQ11A	QSE10BSPQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,1inch,BSP_outer-thd
FLO-QSE15NPTQBQ11A	QSE15NPTQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,1-1/2inch,NPT_outer-thd
FLO-QSE15BSPQBQ11A	QSE15BSPQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,1-1/2inch,BSP_outer-thd
FLO-QSE20NPTQBQ11A	QSE20NPTQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,2inch,NPT_outer-thd
FLO-QSE20BSPQBQ11A	QSE20BSPQBQ11A	Noryl,MagBTUFlowmeter,Modbus+pulse-out,2inch,BSP_outer-thd
FLO-QSE30FAPQBQ12B	QSE30FAPQBQ12B	Noryl,MagBTUFlowmeter,Modbus+pulse-out,3inch,Flange
FLO-QSE40FAPQBQ12C	QSE40FAPQBQ12C	Noryl,MagBTUFlowmeter,Modbus+pulse-out,4inch,Flange

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