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Automatic Electronic Positive Displacement Flow Meter with Stainless Steel Solenoid Valve for Fuel Transfer Systems

M-XX series meter is positive displacement meter for liquids. They are designed for liquid metering both in transfer and process control applications. Thanks to their design they are easy to keep and can suit a wide range of applications. The meter consists of a housing where two bladed displacement rotors and a central single blocking rotor turn in synchronized relationship within three cylindrical bores with no metal-to-metal contact within the meter element. Each rotor is supported on either end by a bearing plate through which the rotor shafts protrude.

The bladed displacement rotors, alternately move through the two half-cylinder bores of the meter element, while the single blocking rotor rotates within its bore in such a way as to produce a continuous capillary seal between the unmeasured upstream product and the metered, downstream product. At one end of each rotor shaft is a timing gear. The blocking rotor gear, having twice the number of teeth of each of the displacement rotor gears, rotates at half the RPM of the displacement rotors.



M-XXESV Positive Displacement Flow Meter including following equipment:

1. Meter Body
2. Strainer
3. Air Eliminator
4. Electronic Register
5. Double Flow SS Solenoid Valve

Class 1 Application: used for refined petroleum products, such as gasoline, fuel oil, diesel fuel, kerosene etc.

Technical Specification:

Model No		M-50ESV	M-80ESV	
Flow Range		38-550L/min	75-1150L/min	
Volume/Rev.		0.681L	1.839L	
Repeatability	≤0.05%			
Accuracy	±0.2%			
Standard Measurement	Liter/U.S.Gallon/IMP Gallon			
Viscosity	30-1500000SSU			
Max Pressure	10ar/150PSI			

Note: When placing an order with us, please inform us what liquid the flow meter will be used for, the working pressure and working temperature, so that we can provide the correct additional equipment for this flow meter.

Application:

Class 1 meter: refined petroleum products, such as gasoline, fuel oil, diesel fuel, kerosene, ethylene glycol, motor oils and rotogravure ink.