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M-XXK Series Preset Positive Displacement Flow Meter - For Refined Fuels and Industrial Liquids

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 unmetered 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-XXK Positive Displacement Flow Meter including following equipment:

1. Meter Body
2. Strainer
3. Air Eliminator
4. Mechanical Register
5. Mechanical Preset Counter
6. Preset Valve
7. Air Check Valve

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

Technical Specification:

Model	M-40K	M-50K	M-80K	
Size	40mm/1"	50mm/2"	80mm/3"	
Flow Range	25-250L/min	55-550 L/min	115-1150 L/min	
Volume Per Revolution	0.309L	0.681L	1.839L	
Dimension	51 X46X49 cm	51 X46X49cm	58x50X61cm	
Net Weight	23kg	26kg	40kg	
Gross Weight	25kg	28kg	47kg	
Max Pressure	10Bar			
Accuracy	±0.2%			
Repeatability	±0.2%			
Standard Measurement	Liter/ US Gallon/ IMP Gallon			
Package	Wooden Case			

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.