

positive displacement flow meters

M50 – 2” meters with mechanical register

The M50 is the medium to large capacity meter in the M-SERIES™ range. It has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability.

Features

- Compact size.
- Easy to read and operate mechanical registers.
- Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required).
- Low pressure drop allows for economical pump selection or gravity flow applications.
- Meter construction enables fast and easy on-site servicing without removal from application.
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- Meter design minimises the number of wearable and replaceable parts and extends product life.
- An Option of 100 Pulses per unit of measure output is available for the Analogue version.



M50ARM-X



Mechanical Register



MH450 Industrial Register



Analogue Mechanical Register

Specifications

Model	M50
Meter Type	Meter With Mechanical Register
Meter Body Material	Aluminium / 316 Stainless Steel / Bronze
Wetted Components:	
Rotor Material	PPS / 316 Stainless Steel / Hi Flow PPS
Shafts	316 Stainless Steel
O'ring	NBR (Nitrile)
Flow Rate Ranges (Litres Per Minute/US Gallons Per Minute)	
Above 5 Cps	15 to 350/ 4 to 93 HF 15 to 550/4 to 146
Below 5 Cps	33 to 300/9 to 79 HF 30 to 500/9 to 132
Accuracy- Within (Of Reading)	+/- 1% / Analogue Register +/- 0.5%
Repeatability	0.03%
Maximum Viscosity (Of Standard Model)	1000 Centipoise (> 1000 Hi Vis Rotors)
Maximum Operating Pressure	3500 kpa/800psi/55bar or as per flange rule (*PEI 1800kpa/260psi/18bar)
Max. Operating Temperature	80°C / 176°F, High Temp Option 120°C / 248°F
Recommended Mesh Strainer Size	60 Mesh

Port Size

To order flowmeter you must replace 'X' with the relevant number. This number will determine the following specifications:

Port Size:	Calibrated and Display In:
1 = 2" BSP (F) Ports	Litres
2 = 2" NPT (F) Ports	US Gallons
3 = 2" ANSI 150lb Flange	Litres
4 = 2" ANSI 150lb Flange	US Gallons
5 = 50mm DIN 16 Flange	Litres
13=50mm JIS 10k flange	Litres

PPS = Polyphenylene Sulfide Resins

Note: See relevant "Flange Technical Information"

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Options & Accessories

M50 - 2" METERS WITH MECHANICAL REGISTER	M50ARM-X	M50SRM-X	M50SSM-X	M50ASM-X
FKM O-Ring	○	○	○	○
FEP O-Ring	○	○	○	○
EPDM O-Ring	○	○	○	○
High Temp Rotors	○	○	●	●
High Viscosity Rotors	○	○	○	○
Hall Effect Sensor	-	-	-	-
Reed Switch	-	-	-	-
Solvent Kit	○	●	●	●
Hastalloy C Shafts	-	-	-	-
Analogue Register	○	○	○	○
MH450 Register	○	○	○	○
Pulser Kit P500 Suit Analogue Register	+	+	+	+
Remote Mounted LC Display	-	-	-	-
Heating Jacket	+	+	+	+
4-20ma Module	-	-	-	-
Protection Register Boot Standard Mechanical Register	+	+	+	+

● Standard ○ Optional - Not Available + Accessory

Dimensions

