

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* on page 45.

*EU - pressure equipment directive 97/23/EC

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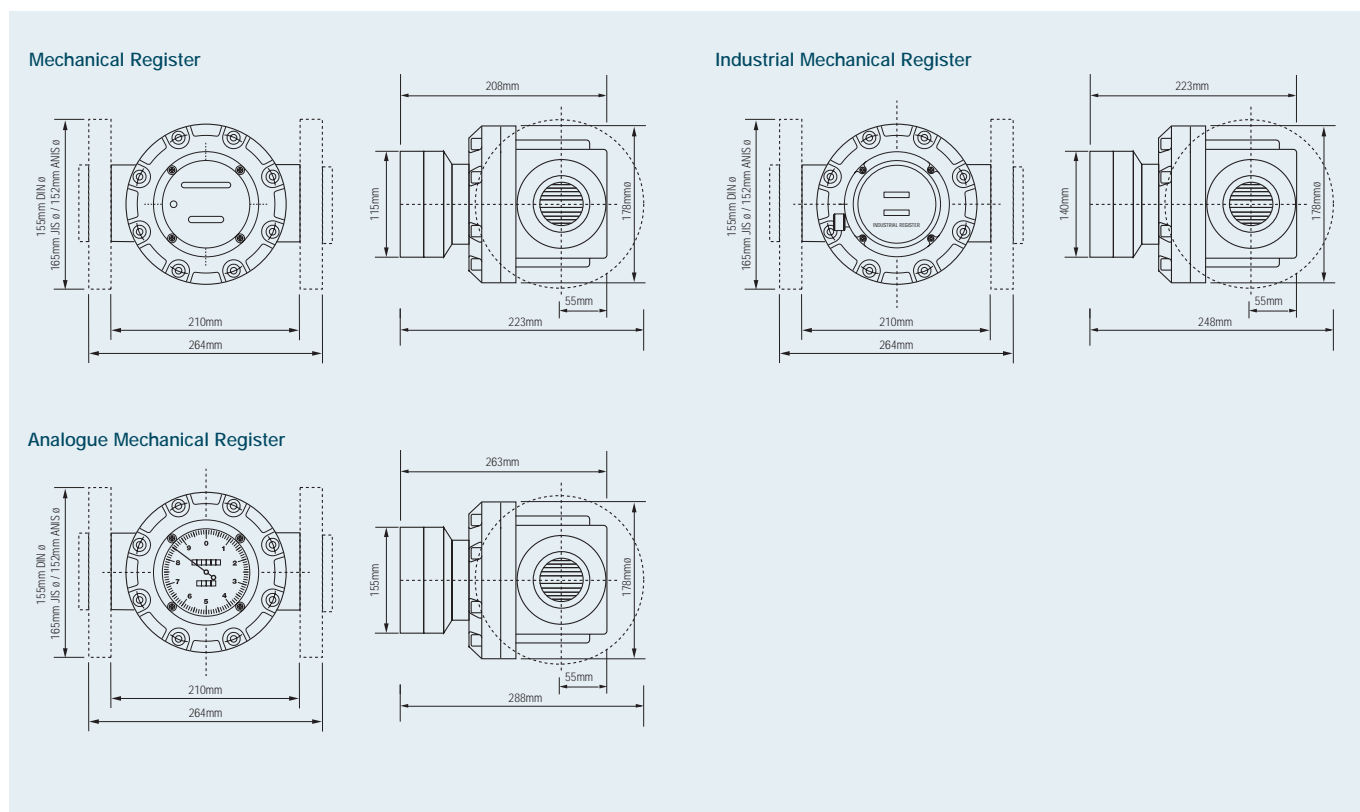
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Options & Accessories

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



Macnaught Pty Ltd reserves the right to modify or alter product materials, dimensions, design and construction, when necessary, to improve the performance of our products. Please check with your local distributor or Macnaught to confirm current specifications of our products.