

positive displacement flow meters

M1 – 1/4" pulse meters

The M1 is a small capacity meter in the M-SERIES™ range and is differentiated by its flow rate capabilities. It has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability.

Features

- Very compact size.
- Low flow capability with high resolution output.
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- Solid state Hall Effect Sensor/Reed Combination.
- Low pressure drop allows for economical pump selection or gravity flow applications.
- Meter design minimises the number of wearable and replaceable parts and extends product life.
- Has IP54/NEMA13 protection.
MISSPH-XY IP65-NEMA 9
- Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required).



M1RSP-X



MR100



M1SSPH-X



Specification:

MODEL	M1RSP-X	M1SSP-X	M1SSPH-X	M1ASP-X
Meter Type	Pulse	Pulse	Pulse	Pulse
Meter Body Material	PPS	316 Stainless Steel	316 Stainless Steel	Aluminium / PPS
Wetted Components:				
Rotor Material	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic	316 Stainless Steel / Bronze
Shafts	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
O'ring	FKM	FKM	FKM	FKM
Flow Rate Ranges (Litres Per Hour/US Gallons Per Hour)				
Above 5 cPs	2 To 100 / 0.53 To 26.4	2 To 100 / 0.53 To 26.4	2 To 100 / 0.53 To 26.4	2 To 100 / 0.53 To 26.4
Below 5 cPs (Excluding Water)	5 To 100 / 1.32 To 26.4	5 To 100 / 1.32 To 26.4	5 To 100 / 1.32 To 26.4	5 To 100 / 1.32 To 26.4
Accuracy- Within (Of Reading)	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Repeatability	0.03%	0.03%	0.03%	0.03%
Maximum Viscosity	1000 Centipoise	1000 Centipoise	1000 Centipoise	1000 Centipoise
Maximum Operating Pressure	500kpa/ 75 Psi/ 5 Bar	1000kpa/ 150psi/ 10bar	55160kpa/ 8000psi/ 551bar	500kpa/ 75psi/ 5bar
Pulsar Type	Dual Hall Effect Sensor/ Reed Switch	Dual Hall Effect Sensor/ Reed Switch	Hall Effect Sensor or Reed Switch	Dual Hall Effect Sensor/ Reed Switch
Pulses Per Litre/US Gallon	1000 / 3785.4	1000 / 3785.4	1000 / 3785.4	1000 / 3785.4
Model Dimensions				
Meter Body	50x50mm / 1.97"x1.97"	50x50mm / 1.97"x1.97"	86mm Dia X 110mm H/3.4" Dia X 4.33" H	50mm X 50mm/1.97" X 1.97"
Port Face To Face	67mm / 2.64"	67mm / 2.64"	83mm / 3.26"	60mm / 2.36"
Weight	240g / 8.5oz	600g / 21.2oz	3.3kg / 116.5oz	310g / 11oz
Max. Operating Temperature	80°C / 176°F	120°C / 248°F	120°C / 248°F	80°C / 176°F
Recommended Mesh	200 Mesh	200 Mesh	200 Mesh	200 Mesh
Strainer				

X = Port Size To order flowmeter you must replace 'X' with the relevant number.

Meter mounted options = MR100 LCD and or MR150LA (4-20mA - module) or combination of both.

Port Size:

Port Size:	Calibrated In:	Electrical Connections
1 = 1/4" BSP (F) ports	litres	1m/39" pulser fly lead (5 core cable)
2 = 1/4" NPT (F) ports	US gallons	1m/39" pulser fly lead (5 core cable)
1 = 1/4" BSP (F) ports	HP only with litres pulsar cap US gallons	20mm (F) Conduit Thread
2 = 1/4" NPT (F) ports		1/2" NPT (F)

PPS = Polyphenylene Sulfide Resins

Note: Water usage is limited due to poor lubricating quality of the fluid limiting accuracy and bottom end stable operation.

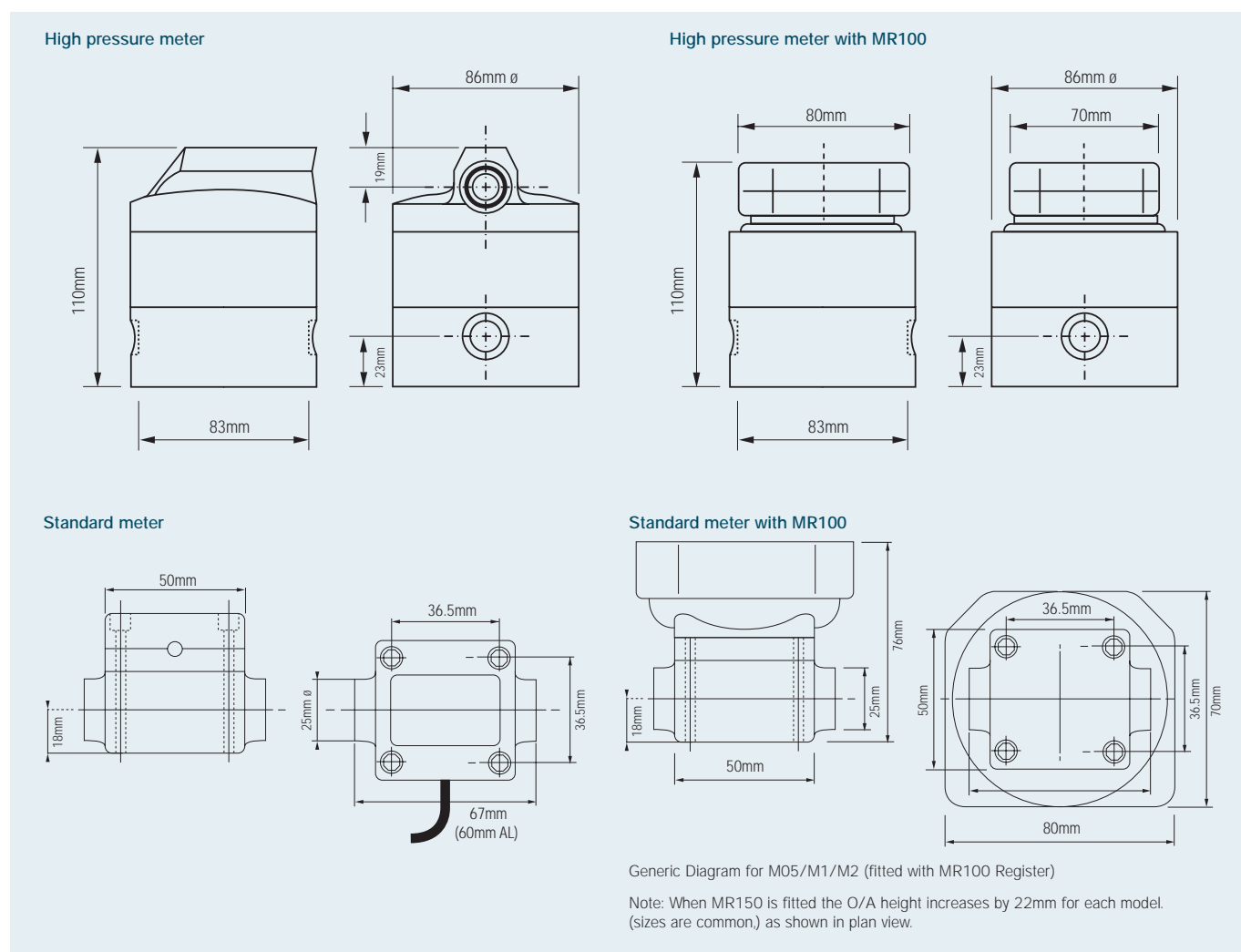
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Options and accessories

M1 - 1/4" Pulse Meters	M1RSP-X	M1SSP-X	M1SSPH-X	M1ASP-X
FKM O-Ring	●	●	●	●
FFPM Elastomer	○	○	○	○
EPDM O-Ring	○	○	○	○
High Temp Rotors	-	-	-	-
High Viscosity Rotors	-	-	-	-
Hall Effect Sensor	●	●	●	●
Reed Switch	●	●	●	●
Solvent Kit	-	-	-	-
PPS Rotors With Hastalloy C Shafts	○	-	-	-
Remote Mounted LC Display	+	+	+	+
4-20ma Module (Remote)	+	+	+	+
Meter Mounted LC Display	+	+	+	+
Meter Mounted 4-20mA Module	+	+	+	+

● 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.