

## positive displacement flow meters

# WM40 – 1 1/2” pulse meters M40 – 1 1/2” pulse and LC display meters

The M40 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.
- Two independent pulse units which can be linked to allow doubling of the pulse output.
- 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 design minimises the number of wearable and replaceable parts and extends product life.
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- Both LC Displays meets European CE directive for EMC.
- Deluxe/Standard Displays and Pulse Version have IP65/NEMA9 protection.
- Intrinsically safe LC Deluxe & Standard Displays. Certificate of conformity number PTB Nr. Ex-93.C.4033x & KEMA O5ATEX1168X
- Pulse Versions have Flameproof Certification. AUS Ex2377x



M40ARP-X



Standard LC Display

Deluxe LC Display

MR100

### Specifications

Model	M40/WM40
Meter Type	Pulse / Standard LC Display / Deluxe LC Display
Meter Body Material	Aluminium / 316 Stainless Steel / Bronze
Wetted Components:	
Rotor Material	PPS / 316 Stainless Steel
Shafts	316 Stainless Steel
O'ring	NBR (Nitrile)
Flow Rate Ranges (Litres Per Minute/US Gallons Per Minute)	
Above 5 cPs	10 To 250 / 2.6 To 66
Below 5 cPs	15 To 235 / 4 To 62
Accuracy- Within (Of Reading)	+/- 0.5%
Repeatability	0.03%
Maximum Viscosity (Of Standard Model)	1000 Centipoise (> 1000 Hi Vis Rotors)
Maximum Operating Pressure	5500 kpa/800psi/55bar or flange rule where fitted (*PEI 1800kpa/260psi/18bar)
Pulser Type	Hall Effect Or Reed Switch Or Combination HE /RS
Pulses Per Litre/Us Gallon	14.5 / 54.9
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:	Electrical Conduit Connection:
1 = 1 1/2" BSP (F) ports	Litres	20mm (F)
2 = 1 1/2" NPT (F) ports	US Gallons	1/2" NPT (F)
3 = 1 1/2" ANSI 150lb Flange	Litres	20mm (F)
4 = 1 1/2" ANSI 150lb Flange	US Gallons	1/2" NPT (F)
5 = 40mm DIN 16 Flange	Litres	20mm (F)
6 = 1 1/2" Triclover Flange	Litres	20mm(F)
7 = 1 1/2" Triclover Flange	US Gallons	1/2" NPT (F)
9 = 600LB ANSI Flange	Litre	20mm(F)
13=40mm JIS 10K flange	Litres	20mm(F)

PPS = Polyphenylene Sulfide Resins

Note: See relevant "Flange Technical Information" on page 45.

\*European common market - pressure equipment directive requirements

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Options & Accessories

WM40 - 1 1/2” PULSE & LC DISPLAY METERS M40 - 1 1/2” PULSE & LC DISPLAY METERS	WM40ARX-X M40ARX-X	WM40ASX-X M40ASX-X	WM40BRX-X M40BRX-X	WM40SRX-X M40SRX-X	WM40SSX-X M40SSX-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	-	-	-	-	-
Protective Boot Deluxe LCD	+	+	+	+	+
Protective Boot Standard Display	+	+	+	+	+
Remote Mounted LC Display	+	+	+	+	+
Heating Jacket	+	+	+	+	+
4-20ma Module Meter & Remote Mount	+	+	+	+	+

● Standard ○ Optional - Not Available + Accessory

Dimensions

