

Model M

Multi-Jet Magnetic Water Meter

Water meters using the multi-jet principle are the best cost/performance, long life, flow measurement instruments. Wide clearances in the measuring chamber and negligible area of contact between static and moving parts are the main reasons for the high reliability of this design even in hard water. MH model for hot water available.



Applications

For domestic, agriculture and industrial use

Available Sizes

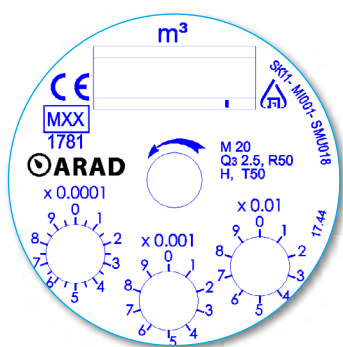
1/2" - 1 1/4" (15mm - 32mm)

Standards

MID 2014/32/EU (based on OIML R49 EN 14154 and ISO 4064:2014), WRAS

Features

- Only one moving part - the impeller - in contact with the water for minimum wear and utmost reliability
- Magnetically driven sealed registers. Stainless steel/glass encapsulated option is unconditionally guaranteed against fogging
- Wide selection of dial configurations (3 pointers; central pointer) and units of measurements
- Optional Electrical Output: EV, Dialog 3G, ER, EF (M meters with EF register do not meet the MID standard).



M type dial

Technical Specifications

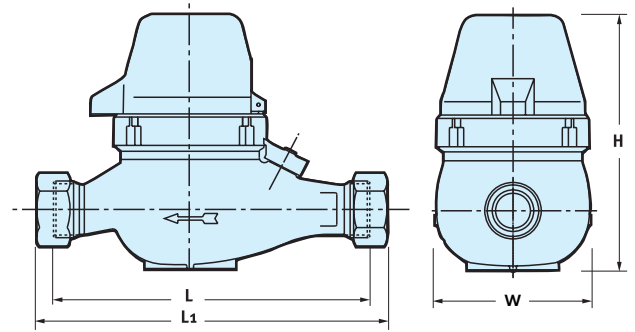
| | |
|------------------------------------|--------------------------------------|
| Maximum Working Pressure | 10 bar |
| Maximum Working Temperature | 50°C |
| Meter body material | Corrosion proof copper alloy |
| Optional | Highly reinforced composite material |
| Coupling threads | BSP, NPSM |

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Dimensions

| Model | | M15 (short) | M15 | M20 | M25 | M32 |
|---|--------|----------------|------|-----|------|-------|
| Nominal size | (mm) | 15 | 15 | 20 | 25 | 30 |
| | (inch) | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 |
| L - Length without couplings (mm) | | 165 | 190 | 190 | 260 | 260 |
| L ₁ - Length with couplings (mm) | | 260 | 285 | 285 | 375 | 375 |
| W- Width (mm) | | 95 | 95 | 95 | 105 | 105 |
| H - Height (mm) | | 102 | 112 | 108 | 108 | 108 |
| H - Height for 3G version (mm) | | 117 | 127 | 111 | 118 | 118 |
| Weight (kg) | | 1.5 | 2 | 2 | 2.8 | 2.8 |
| Weight with couplings (kg) | | 1.7 | 2.2 | 2.3 | 3.3 | 3.45 |
| Weight (plastic body) (kg) | | 0.55 | 0.56 | 0.6 | 0.65 | 0.66 |



Performance data:

Metrological Characteristic according to MID 2014/32/EU (based on OIML R49:2013, EN 14154 and ISO 4064:2014)

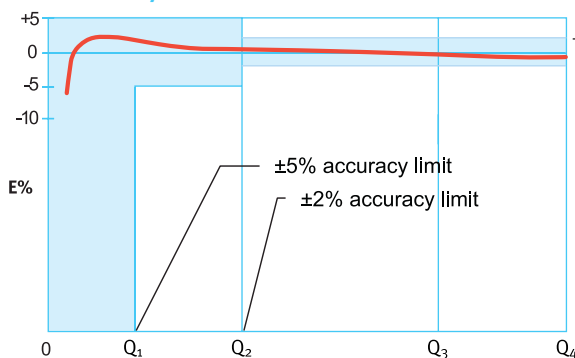
| Model | Nominal size (inch) | Q1 Minimum flowrate (m ³ /h) | Q2 Transitional flowrate (m ³ /h) | Q3 Nominal flowrate (m ³ /h) | Q4 Maximum flowrate (m ³ /h) | R Q3/ Q1 | Indicating range (m ³ /h) | Smallest readable unit (liter) | Accuracy between Q4 & Q2 | Accuracy between Q2 & Q1 |
|-------|---------------------|---|--|---|---|----------|--------------------------------------|--------------------------------|--------------------------|--------------------------|
| M15 | 1/2 | 0.032 | 0.051 | 1.6 | 2 | 50 | 999,999 | 0.05 | ±2% | ±5% |
| M20 | 3/4 | 0.050 | 0.080 | 2.5 | 3.125 | 50 | | | | |
| | | 0.063 | 0.102 | 4 | 5 | 63 | | | | |
| M25 | 1 | 0.080 | 0.128 | 4 | 5 | 50 | | | | |
| | | 0.079 | 0.126 | 6.3 | 7.875 | 80 | | | | |
| M32 | 1 1/4 | 0.126 | 0.202 | 6.3 | 7.875 | 50 | | | | |
| | | 0.100 | 0.160 | 10 | 12.5 | 100 | | | | |

Metrological Characteristics according to ISO 4064:1993

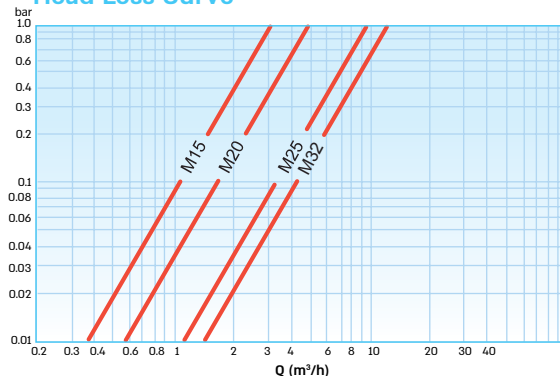
| Model | Nominal size (inch) | Q _{max} Maximum Flowrate (m ³ /h) | Q _n Nominal Flowrate (m ³ /h) | Q _t Transitional Flowrate (l/h) | Q _{min} Minimum Flowrate (l/h) | Maximum register capacity (m ³) | Smallest readable unit (liter) | Accuracy between Q4 & Q2 | Accuracy between Q2 & Q1 |
|-------|---------------------|---|---|--|---|---|--------------------------------|--------------------------|--------------------------|
| M15 | 1/2 | 3 | 1.5 | 120 | 30 | 10 ⁵ | 0.1 | ±2% | ±5% |

* upon special request

Accuracy Curve



Head Loss Curve



Installation Requirements

- The Meter must be installed in horizontal position dial face up.
- Pipeline must be flushed before installation.
- The meter should be constantly full of water.