# ARAD™ Woltman Type

## MECHANICAL REGISTER

**Exceptionally accurate Woltman meters with top of the line performances. Suitable for a wide range of applications and flow measurements.**





Standard model



WMR model

High quality materials

Precise

Reliable

## / Benefits & Features

- → **High quality materials** — Components made of high strength, quality materials, technical plastics and epoxy coated steel body
- → **Precise** — Accurate flow reading
- → **Reliable** — Sturdy and durable

## / Specifications & Recommendations

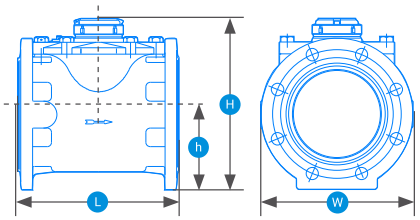
- → **Maximum Working Pressure –** 16bar
- → **Maximum Working Temperature –** 60°C
- → **Body –** Cast iron, polyester coated
- → **Connection Flanges –** According to ISO, BS 10, ANSI 150 or others

## → Installation Requirements

- The water meter may be installed in any position. For non-horizontal positions the flow shall be upwards
- The meter shall be full of water while operating
- Prior to the installation of a new meter, the pipeline must be flushed out
- Requirements for straight pipe section: D5/ D3

## → Technical Dimensions

| Diameter | mm | 50* | 50 | 65 | 80 | 100 | 150 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|---|---|---|---|
| | inch | 2 | 2 | 2½ | 3 | 4 | 6 | 8 | 10 | 12 |
| l - Length (mm) | | 200 | 200 | 200 | 230 | 250 | 300 | 350 | 450 | 500 |
| w - Width (mm) | | 98 | 165 | 185 | 200 | 220 | 283 | 340 | 406 | 489 |
| h - Height (mm) | | 40 | 239 | 254 | 259 | 275 | 344 | 377 | 463 | 505 |
| h - Height (mm) | | 2.3 | 70 | 84 | 90 | 106 | 130 | 158 | 258 | 330 |
| Weight (kg) | | 3.7 | 12.5 | 15 | 15.5 | 19 | 35.5 | 41 | 80 | 95 |



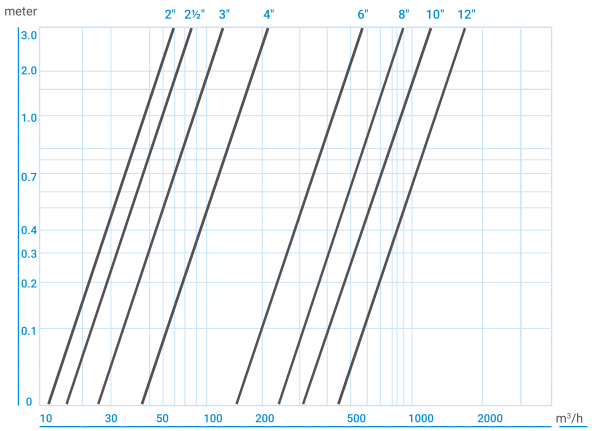

* Refering to WMR model. Length not including records, records add 75mm for each side.

## → Performance Data

| Diameter | | Q1 Minimum Flowrate | Q2 Transitional Flowrate | Q3 Nominal Flowrate | Q4 Maximum Flowrate | Starting Flow | Maximum Register Capacity | R Q3/ Q1 | Accuracy Between Q4 & Q2 | Accuracy Between Q2 & Q1 |
|---|---|---|---|---|---|---|---|---|---|---|
| mm | inch | ($m^3$/h) | ($m^3$/h) | ($m^3$/h) | ($m^3$/h) | ($m^3$/h) | ($m^3$/h) | | | |
| 50* | 2 | 0.45 | 2 | 20 | 40 | 0.15 | $10^6$ | 44.4 | ±2% | ±5% |
| 50 | 2 | 0.63 | 1.01 | 63 | 78.75 | 0.15 | $10^6$ | 100 | | |
| 65 | 2½ | 0.63 | 1.01 | 63 | 78.75 | 0.15 | $10^6$ | | | |
| 80 | 3 | 1 | 1.6 | 100 | 125 | 0.25 | $10^6$ | | | |
| 100 | 4 | 1.6 | 2.56 | 160 | 200 | 0.3 | $10^7$/$10^6$ | | | |
| 150 | 6 | 2.5 | 4 | 250 | 312.5 | 0.8 | $10^7$/$10^6$ | | | |
| 200 | 8 | 12.6 | 20.16 | 630 | 787.5 | 2 | $10^8$ | 50 | | |
| 250 | 10 | 20 | 32 | 1000 | 1250 | 3 | $10^8$ | | | |
| 300 | 12 | 20 | 32 | 1000 | 1250 | 4 | $10^8$ | | | |

* Refering to WMR model

## → Head Loss



## → Catalog Numbers

For woltman type water meter with mechanical register

| Diameter | Connection Type | Pulse Resolution | Catalog Number |
|---|---|---|---|
| 2" | BSP (WMR*) | None | 70240-002400 |
| | | 10L | 70240-002500 |
| | | 100L | 70240-002550 |
| | ISO | None | 70240-021200 |
| | | 10L | 70240-021202 |
| | | 100L | 70240-021203 |
| | BSTD | None | 70240-021350 |
| | | 10L | 70240-021351 |
| | | 100L | 70240-021352 |
| | ANSI | None | 70240-021300 |
| | | 10L | 70240-021302 |
| | | 100L | 70240-021324 |
| 3" | ISO | None | 70240-021208 |
| | | 10L | 70240-021210 |
| | | 100L | 70240-021211 |
| | BSTD | None | 70240-021358 |
| | | 10L | 70240-021360 |
| | | 100L | 70240-021361 |
| | ANSI | None | 70240-021304 |
| | | 10L | 70240-021305 |
| | | 100L | 70240-021306 |
| 4" | ISO | None | 70240-021213 |
| | | 10L | 70240-021215 |
| | | 100L | 70240-021216 |
| | BSTD | None | 70240-021363 |
| | | 10L | 70240-021406 |
| | | 100L | 70240-021365 |
| | ANSI | None | 70240-021308 |
| | | 10L | 70240-021310 |
| | | 100L | 70240-021311 |
| 6" | ISO | None | 70240-021219 |
| | | 100L | 70240-021221 |
| | | 1m³ | 70240-021222 |
| | BSTD | None | 70240-021368 |
| | | 100L | 70240-021369 |
| | | 1m³ | 70240-021370 |
| | ANSI | None | 70240-021312 |
| | | 100L | 70240-021314 |
| | | 1m³ | 70240-021315 |
| 8" | ISO | None | 70240-021223 |
| | | 1m³ | 70240-021225 |
| | BSTD | None | 70240-021372 |
| | | 1m³ | 70240-021373 |
| | ANSI | None | 70240-021317 |
| | | 1m³ | 70240-021318 |
| 10" | ISO | None | 70240-021226 |
| | | 1m³ | 70240-021228 |
| | BSTD | None | 70240-021375 |
| | | 1m³ | 70240-021376 |
| | ANSI | None | 70240-021320 |
| | | 1m³ | 70240-021321 |

Additional diameters, flange types and pulse resolutions available upon request

* WMR models include records

For woltman type water meter with electronic register

| Diameter | Flange Type | Pulse Resolution | Catalog Number |
|---|---|---|---|
| 2" | ISO | 10L x 100L | 70240-021199 |
| | BSTD | 10L x 100L | 70240-021198 |
| 3" | ISO | 10L x 100L | 70240-007509 |
| | BSTD | 10L x 100L | 70240-007508 |
| | ANSI | 10L x 100L | 70240-021400 |
| 4" | ISO | 10L x 100L | 70240-003862 |
| | BSTD | 10L x 100L | 70240-003861 |
| | ANSI | 10L x 100L | 70240-021405 |
| 6" | ISO | 100L x 1m³ | 70240-004665 |
| | BSTD | 100L x 1m³ | 70240-021390 |
| | ANSI | 100L x 1m³ | 70240-004130 |
| 8" | ISO | 100L x 1m³ | 70240-008612 |
| | BSTD | 100L x 1m³ | 70240-008710 |
| | ANSI | 100L x 1m³ | 70240-004660 |

* Additional diameters, flange types and pulse resolutions are available upon request




**Note: must order**

| Description | Catalog Number |
|---|---|
| pulse cable for digital register | 70220–030000 |