

# Woltman Water Meter Australian Length

## Scope of Use/Specification Sheet

The Arad Woltman Water Meter features unique sliding impeller bearings that ensure a substantially longer lifetime than comparable meters. The device has a wide measuring range and features advanced methods and technologies making it an ideal solution for bulk metering applications.



WM1001WST

### Product Code

Model	Catalogue Number
50mm	WM501WST
80mm	WM801WST
100mm	WM1001WST
150mm	WM1501WST
200mm	WM2001WST

### Description

Bearings and materials used in the Woltman have proven durability far beyond the ISO standard requirement, allowing it to function in extreme conditions where other meters fail to maintain a sufficient level of accuracy. The unique measuring unit has only one moving element, the impeller, which is in contact with the water. The other moving components, including the worm and transmission gears are kept in a hermetically sealed, dry container. The meter complies with OIML R49 EN 14154 and ISO 4064:2005 standards.

### Installation

Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500.1.

### Features and Benefits

- The Woltman has a wide measuring rate that enables it to serve in broader applications and in extreme situations (low flows and high flows)
- No sensitivity to working conditions such as vibration
- No sensitivity to humid conditions
- Resistance – bearings and materials used in the Woltman have proven long life expectancy
- Compatibility – the Woltman is also available with a reed switch sensor installed in a sealed transparent plastic cover that can be mounted on the register

### Application

The Woltman Meter is intended for use in water supply networks, and agricultural and industrial applications. The water meter may be installed in any position. For non-horizontal positions the flow shall be upwards. The meter must be full of water while operating. Prior to installation of a meter, the pipeline must be thoroughly flushed. Straight pipe sections of the same diameter 'D' as the meter, having lengths of '5D' and '3D' must be installed upstream and downstream of the meter respectively.



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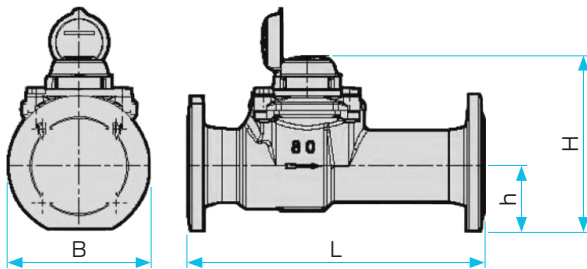
## Performance specifications

Model	WSTsb Nominal size (mm) (inch)	Q4 Max. flowrate (m <sup>3</sup> /h)	Q3 Nominal flowrate (m <sup>3</sup> /h)	Q2 Transitional flowrate (m <sup>3</sup> /h)	Q1 Min. flowrate (m <sup>3</sup> /h)	Starting Flow (m <sup>3</sup> /h)	Max. register capacity (m <sup>3</sup> /h)	R Value	Smallest readable unit (litre)	Accuracy between Q4 and Q2	Accuracy between Q2 and Q1
50	2	78.75	63	1.01	0.63	0.15	106	100	0.5	± 2%	± 5%
65	2 ½	78.75	63	1.01	0.63	0.15	106	100	0.5	± 2%	± 5%
80	3	125	100	1.6	1	0.25	106	100	0.5	± 2%	± 5%
100	4	200	160	2.56	1.6	0.3	107/106	100	5	± 2%	± 5%
150	6	312.5	250	4	2.5	0.8	107/106	100	5	± 2%	± 5%
200	8	787.5	630	20.16	12.6	2	108	50	50	± 2%	± 5%

## Dimensions

Model	50mm	80mm	100mm	150mm	200mm
Length (L)	311	413	483	500	520
Width (B)	165	200	200	283	340
Height (H)	214	234	250	310	338
Height (h)	70	90	106	130	158
Weight (kg)	16.5	19	25	46	61

Note: All measurements in mm unless otherwise stated.



## Standards and Approvals

OIML R49 EN 14154  
ISO 4064:2005

## Technical Specifications

Maximum Working Pressure	Standard – 16 bar
Maximum Liquid Temperature	60°C
Body	Cast iron, polyester coated, Optional – bronze (AWWA std.)
Connection	Flanges according to ISO, BS 10, ANSI 150 or others

## Flow Characteristics

