

# PULSED WATER METERS

## MULTI-JET

### Product Specification

Watersavers offers a range of **multi-jet-based water meters** used for monitoring and measuring water usage. The meters are available in sizes from 1/2" BSP to 4" BSP (15 mm to 100 mm) these pulsed water meters feature clear, easily read displays, free from condensation.

Larger sizes are available on request.

### Product Features

- Suitable for installations applying for BREEAM Wat 02 & Wat 03 credits
- Ideal for monitoring water usage and BMS applications
- Only one moving part for minimum wear and maximum reliability
  - even in hard water areas
- Visual indicator sensitive to the smallest flow
  - ideal for leak detection
- Optional electrical 'pulse' output usually 1 per litre
- Sealed display capsule – guaranteed against condensation
- Supplied with DIN connector



### Product Codes

WATER METER PRODUCT CODES		NOMINAL SIZE	NOMINAL FLOW RATE	MINIMUM FLOW RATE	MAXIMUM FLOW RATE	LITRES/PULSE OPTIONS	WEIGHT
Cold (30°C) Product code	Hot (90°C) Product code	British Standard Pipe (BSP)	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h		kg
WMP15-K=1	WMP15H-K=1	½"   15mm	2.5	0.031	3.13	1, 10, 100	2
WMP20-K=1	WMP20H-K=1	¾"   20mm	4	0.050	5.00	1, 10, 100	2
WMP25-K=1	WMP25H-K=1	1"   25mm	6.3	0.078	7.88	1, 10, 100	2.8
WMP32-K=1	WMP32H-K=1	1¼"   32mm	10	0.125	12.50	1, 10, 100	2.8
WMP40-K=10	WMP40H-K=10	1½"   40mm	15	0.200	20.00	10, 100, 1k	4.65
WMP50-K=10	WMP50H-K=10	2"   50mm	25	0.313	31.30	10, 100, 1k	10.3

- **Nominal Flow Rate** - Typical application for everyday usage
- **Max Flow Rate** - Refers to the emergency flow rate (1-2 minute duration max) in the event of system failure. Damage may result
- **Minimum Flow Rate** - The absolute minimum flow required for the unit to function at these low flows the meter will not be accurate



Saving more than water



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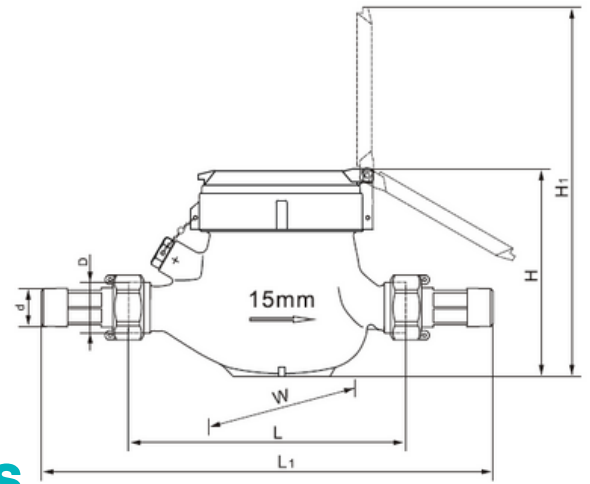
Watersavers Ltd  
Church Field Road  
Chilton Industrial Estate  
Sudbury  
Suffolk CO10 2YA

Designed & Manufactured  
in the UK



## Technical Specification

- Cold (30°C) – WRAS approved and MID R80 as per 2004/22/EC
- Hot (90°C) – WRAS approved and MID R80 as per 2004/22/EC
- Internal strainer
- Super dry, sealed register
- Available with pulse output
- Suitable up to 16 bar working pressure
- Suitable for horizontal installation



## Technical data - Dimensions

Diameter	DN	15	20	25	32	40	50
Body thread	D	G $\frac{3}{4}$ B	G1B	G1 $\frac{1}{4}$ B	G1 $\frac{1}{2}$ B	G2B	G2 $\frac{1}{2}$ B
Connector Thread	d	R $\frac{1}{2}$	R $\frac{3}{4}$	R1	R1 $\frac{1}{4}$	R1 $\frac{1}{2}$	R2
Body Length (mm)	L	165	190	260	260	300	300
Overall Length (mm)	L1	259	294	380	384	431	448
Width (mm)	W	94	94	98	98	122	145
Height (mm)	H	107.5	107.5	117.5	117.5	141.5	177
Working Height (mm)	H1	191	191	206.5	206.5	256.5	292
Weight (kg)	-	1.5	1.6	2.4	2.9	5.1	8.4

## Flow data

Diameter	DN	15	20	25	32	40	50
Minimum Flowrate (Q1)	m <sup>3</sup> /h	0.0313	0.05	0.0788	0.125	0.2	0.313
Transitional Flowrate (Q2)	m <sup>3</sup> /h	0.05	0.08	0.1261	0.2	0.32	0.5
Permanent Flowrate (Q3)	m <sup>3</sup> /h	2.5	4	6.3	10	15	25
Overload Flowrate (Q4)	m <sup>3</sup> /h	3.13	5	7.88	12.5	20	31.3

## Technical Specification

- **Minimum Flow Rate (Q1) (Q min m<sup>3</sup>/h)** - The absolute minimum flow required for the unit to function
- **Transitional Flow Rate (Q2) (Qt m<sup>3</sup>/h)** - Point at which the flow rate is high enough to get an accurate measurement
- **Nominal Flow Rate (Q3) (QN m<sup>3</sup>/h)** - Typical application for everyday usage
- **Max Flow Rate (Q4) (Q max m<sup>3</sup>/h)** - Refers to the emergency flow rate in the event of system failure. Damage may result

## Installation

- The meters are designed only for use with clean water. Sufficient filtration prior to the meter should be considered if the quality of water is compromised.
- The preferred mounting position is horizontal. Installing meters in vertical pipe is possible – this will in effect reduce the accuracy of the meter by one accuracy class (an R80 meter becomes an R40 meter when installed vertically, for example). Ensuring that the flow rate is double the Qt value can reduce the meter error.
- Under no circumstances whatsoever must the meters remain in-situ whilst system flushing takes place.
- Water meters should always be fitted with a minimum of 5x pipe diameter both up and downstream. For example, a 2" (DN50) water meter would have 10" (250mm) either side of the meter as straight pipe. This is to ensure accurate reading by reducing water turbulence. At higher pressures (above 8 bar), this should be increased to 10x pipe diameter.
- Note that there is a direction of flow arrow on the meter and the meter should be installed accordingly.
- It is recommended as good practice to fit a removable filter element before a water meter to protect the mechanism.
- Only clean water should be used that does not exceed the temperature specification of the meter. This is 30 degrees centigrade for cold meters and 90 degrees centigrade for hot meters.



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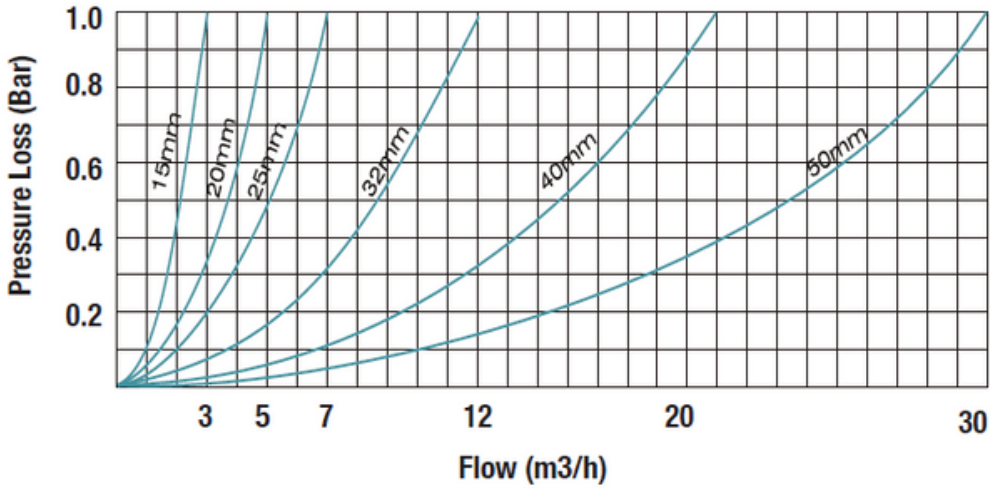
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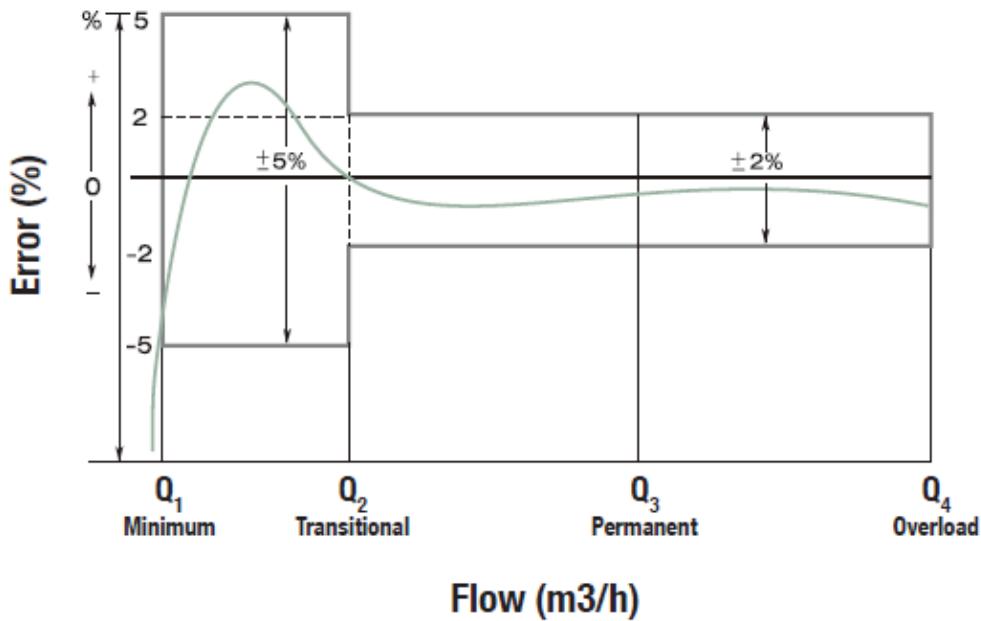
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## Pressure loss diagram



## Accuracy curve



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