Watersavers
Part of Daro Group

# FLANGED 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 flanged meters are available in sizes from 2" BSP to 4" BSP (50mm 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 100 litres
- Sealed display capsule – guaranteed against condensation
- Supplied with DIN connector

## Product Codes

| WATER METER | NOMINAL SIZE | | NOMINAL FLOW RATE | MINIMUM FLOW RATE | MAXIMUM FLOW RATE | LITRES/PULSE OPTIONS | WEIGHT |
|---|---|---|---|---|---|---|---|
| PRODUCT CODES | British Standard Pipe (BSP) | | $m^3/h$ | $m^3/h$ | $m^3/h$ | | kg |
| WMPF50-K=10 | 2" | 50mm | 40 | 0.5 | 50 | 100, 1k | 12 |
| WMPF65-K=10 | 2½" | 65mm | 63 | 0.787 | 78.7 | 100, 1k | 13 |
| WMPF80-K=10 | 3" | 80mm | 63 | 0.787 | 78.7 | 100, 1k | 16 |
| WMPF100-K=10 | 4" | 100mm | 100 | 1.25 | 125 | 100, 1k | 18 |

**Large sizes available on request.**

- **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



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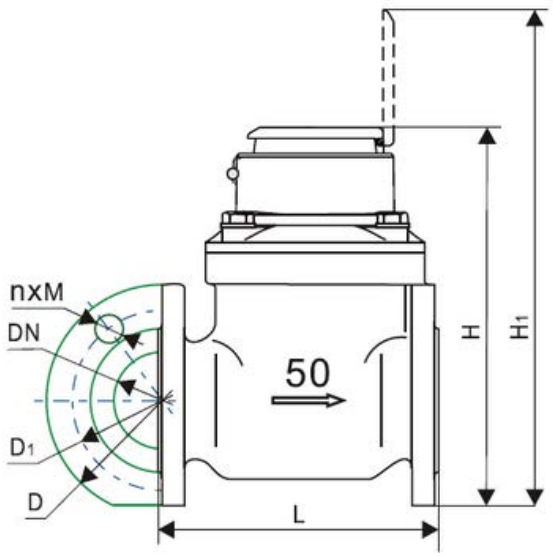
# Technical Specification

- Cold (30°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

| DN | 50 | 65 | 80 | 100 |
|---|---|---|---|---|
| L | 200 | 200 | 225 | 250 |
| H | 252 | 262 | 272 | 282 |
| H1 | 339 | 349 | 359 | 369 |
| D | 165 | 185 | 200 | 220 |
| D1 | 125 | 145 | 160 | 180 |
| nxM | 4xM16 | 4xM16 | 8xM16 | 8xM16 |

# Flow data

| Diameter | DN | 15 | 20 | 25 | 32 | 40 | 50 |
|---|---|---|---|---|---|---|---|
| Minimum Flowrate (Q1) | m³/h | 0.0313 | 0.05 | 0.0788 | 0.125 | 0.2 | 0.313 |
| Transitional Flowrate (Q2) | m³/h | 0.05 | 0.08 | 0.1261 | 0.2 | 0.32 | 0.5 |
| Permanent Flowrate (Q3) | m³/h | 2.5 | 4 | 6.3 | 10 | 15 | 25 |
| Overload Flowrate (Q4) | m³/h | 3.13 | 5 | 7.88 | 12.5 | 20 | 31.3 |

# Technical Specification

- **Minimum Flow Rate (Q1) (Q min m³/h) -** The absolute minimum flow required for the unit to function
- **Nominal Flow Rate (Q3) (QN m³/h) -** Typical application for everyday usage
- **Max Flow Rate (Q4) (Q max m³/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. Woltmann meters can be installed vertically, providing that care is taken over the installation position ensuring that all other elements of these guidelines are adhered to. 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.
- When installed in the horizontal pipe, the dial must always be facing upwards. Never put the meter upside down as it will not function correctly.
- 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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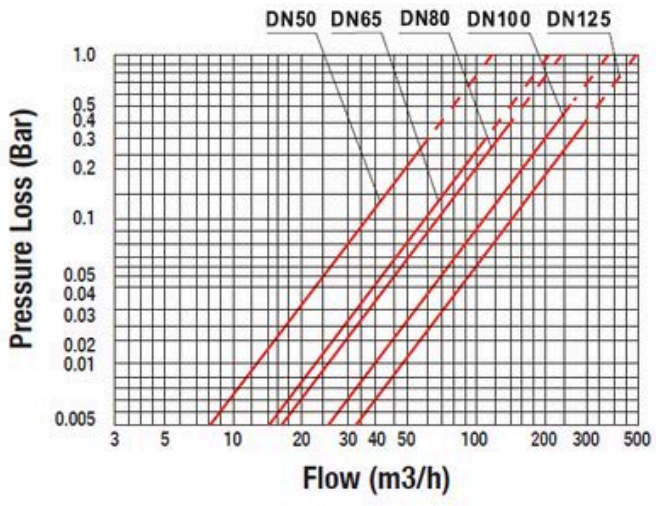
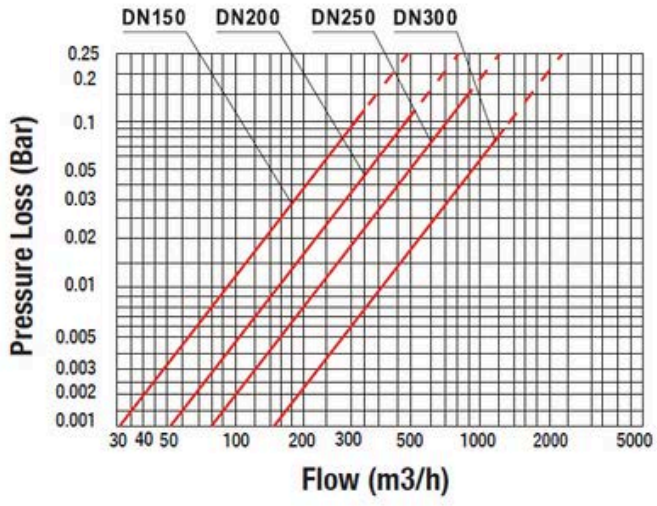
# Pressure loss diagram




# Accuracy curve