

## DZR Brass Body Multi-Jet Type Meter.

### Legal Requirements

Water meters supplied must be approved for trade use by the National Regulator for Compulsory Specifications (N.R.C.S.) in South Africa in accordance with the requirements of S.A.N.S. 1529-1: 2019 and the N.R.C.S. and section 22 of the Legal Metrology Act 2014 (Act 9 of 2014)

All water meters supplied must be tested and verified within the borders of South Africa in accordance with the requirements of Section 7 of the Legal Metrology Act 2014 (Act 9 of 2014). All verification to be performed by a registered Verification Officer in a S.A.N.A.S. Accredited Verification Laboratory in Terms of S.A.N.S. 1529 - 1: 2019.

### Performance Specification

The water meter must be of the multi-jet inferential type with the following capabilities: -

METER SIZE	15mm*	20mm*
Maximum Flowrate $q_s \pm 2\%$ (m <sup>3</sup> /h)	3	5
Nominal Flowrate $q_p \pm 2\%$ (m <sup>3</sup> /h)	1,5	2,5
Transitional Flowrate $q_t \pm 2\%$ (ℓ/h)	120	200
Minimum Flowrate $q_{min} \pm 5\%$ (ℓ/h)	30	50
Starting Flow (ℓ/h)		
Maximum Working Pressure (kPa)	1600	1600
Maximum Test Pressure (kPa)	4800	4800
Body Length (mm)	165	165
Pulse Output (ℓ)	1 or 10 or 100 or 1000	1 or 10 or 100 or 1000

#### \* Class 'B' Accuracy Specification.

In addition, the meters offered must comply with the following: -

- Counters to be of the hermetically sealed dry dial type.
- Meters must be approved to Class B by N.R.C.S. for horizontal installation.
- Meter bodies to be manufactured from dezincification resistant brass capable of withstanding a test pressure of 4 800 kPa (48 Bar).
- Cold water meter to have a working temperature  $\leq 50^\circ \text{C}$ .
- Hot water meter to have a working temperature  $\leq 90^\circ \text{C}$ .
- Meter to have a maximum working pressure of 1 600 kPa (16 Bar).

- Maximum rate of flow ( $Q_s$ ) must be achieved at a pressure drop not exceeding 100 kPa across the inlet/outlet of the meter.
- All internal plastic components to be constructed of virgin materials.
- Each meter must be backed with a 3-year guarantee against faulty workmanship and/or materials.
- Meters to be pulse prepared. Reed switch is an optional extra.
- Meters to fitted with a removeable fine mesh strainer on the inlet side to protect the working chamber from damage and wear caused by suspended solids suspended solids.

### **General**

Spare parts and accessories for all water meters offered must be available locally in South Africa and available for ten years after purchase of the water meter.

### **MC 3 (11.20)**