

40mm Polymer Class C Multi-Jet Type Meter.

Legal Requirements

Water meters supplied must conform with the requirements of 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 semi-positive rotary piston type with the following capabilities: -

METER SIZE	40 mm*
Maximum Flowrate $q_s \pm 2\%$ (m ³ /h)	20
Nominal Flowrate $q_p \pm 2\%$ (m ³ /h)	10
Transitional Flowrate $q_t \pm 2\%$ (ℓ/h)	150
Minimum Flowrate $q_{min} \pm 5\%$ (ℓ/h)	100
Starting Flowrate (ℓ/h)	
Maximum Working Pressure (kPa)	1600
Maximum Test Pressure (kPa)	4800
Body Length ± (mm)	245
Pulse Output (ℓ)	1 or 10 or 100 or 1000

* Class 'C' Accuracy Specification.

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

- Counters to be of the hermetically sealed dry dial type.
- Meter must be magnetically shielded to prevent external magnetic interference.
- Meters must comply with SANS1529-1: 2019 Class C specifications.
- Meter bodies to be manufactured from glass reinforced engineering polymer and capable of withstanding a test pressure of 4 800 kPa (48 Bar).
- Cold water meter to have a working temperature $\leq 50^\circ$ 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 and supplied complete with reed switch.
- Meters to fitted with a removeable fine mesh strainer on the inlet side of the meter and a second internal strainer 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.

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