

Woltmann WP Meters Class B.

Legal Requirements

Water meters used in this application with nominal bore sizes 40mm, 50mm 80mm and 100mm must comply 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).

Meters sizes 40mm, 50mm, 80mm and 100mm must be 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 registered Verification Officers in an S.A.N.A.S Accredited Verification Laboratory in terms of S.A.N.S. 10378 : 2012

Performance Specification

The Water Meter must be of the Woltmann WP helical vane inferential velocity type with the following capabilities: -

METER SIZE (mm)	40	50	80	100	150	200	250	300
Max. Flowrate $q_s \pm 2\%$ (m ³ /h)	20	30	80	120	300	500	800	1200
Permanent Flowrate $q_p \pm 2\%$ (m ³ /h)	10	15	40	60	150	250	400	600
Transitional Flowrate $q_t \pm 2\%$ (m ³ /h)	0.8	3	8	12	30	50	80	120
Minimum Flowrate $q_{min} \pm 5\%$ (m ³ /h)	0.2	0.45	1.2	1.8	4.5	7.5	12	18
Starting Flow (m ³ /h)								
Maximum Working Pressure (kPa)	1 600	1600	1600	1600	1600	1600	1600	1600
Body Length (mm)	200	200	225	250	300	350	450	500

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

- Epoxy coated cast iron body.
- Meter must have the following features to facilitate convenience of on-site replacement:
 - (a) Pre-calibrated replaceable mechanism.
 - (b) In Meter sizes 40mm to 200mm, the Helical vane to be fitted in a shrouded cartridge designed to direct the entire volume of water through the measuring element ensuring body impact is negligible on the accuracy
- The meter must have jewelled rotor bearings for maximum working life.
- Meter should be suitable for use with water temperatures up to 50°C and maximum working pressure of 1 600 kPa.

- All internal plastic components to be constructed of virgin materials.
- The meter must perform within the legal accuracy specification, with a length of pipe, the same diameter as the meter, 10 diameters long, free from fittings and valves, fitted at the inlet to the meter body and 5 diameters long fitted to the outlet of the meter body.
- Each Meter must be backed with a 1-year warranty against faulty workmanship and/or materials.

General

Spare parts for all Water Meters offered must be available in South Africa and still be available for a period of ten years after the purchase of the water meter.

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