

## Technical Specifications (general)

**The Water meters shall be new, unused, of most recent or current models and incorporating all recent improvement in design and materials and conforming to technical specifications listed below:**

- Meters shall be of multi jet, dry dial maintained for an ambient and water temperature range of 0 to 50°C.
- The construction and connections including accuracy, linearity and repeatability of each meter shall be in accordance with ISO 4064, **Class C**.
- Meters shall have extraordinary low reading accuracy of +/-5% at low flow of 3 l/h and +/-2% for flows from 1500l/h to 3000l/h start-up flow rates, low head loss across the meter including any non-return valve should not be more than 0.3 Bar at 2m<sup>3</sup> / hr flow.
- The body shall consist of tough, rugged, sun and heat resistant plastic materials
- Glass cover should be of adequate thickness to ensure a good endurance against pressure
- Meters shall be protected internally and externally by epoxy coating.
- Internal mechanisms shall be made from wear resistant water proof, fields or ferrous particles in water.
- Meters shall be equipped with double strainer at the inlet section and shall also have a non-return valve that will allow flow towards the customer to pass at or greater than 0.2 bar differential head.
- Meters shall have 360 rotating lid and shall be offered complete with couplings and fittings required for correct installation.
- Meters shall have a sealed register type dial with straight reading on numbered drums in cubic meters.
- Meters shall read with any type of water even if it is extremely hard, scaling or contains suspended solids.
- Working pressure of meters should be 16 bars

## Specific Dimensions and Hydraulic Performance

Description	Specification
1. Quantity	50,000 pcs
2. Class	C
3. Size	15mm (1/2 inches)
4. Nominal flow rate (Qn)	1.5m <sup>3</sup> /hour
5. Starting flow	6 litres/hour
6. Maximum flow rate (Qmax)	3m <sup>3</sup> /hour
7. Transitional flow rate (Qt)	22.5 litres/hour
8. Minimum flow rate (Qmin)	15 litres/hour
9. Minimum admissible pressure	16 Bar
10. Maximum testing pressure	25 Bar
11. Maximum admissible temperature	30°C
12. Maximum accidental temperature	50°C (≤1hour/day)
13. Length	165mm
14. Meter thread inches/mm	G1/2"; B/15*20
15. Total weight (Kg)	0.98 – 1.25
16. Maximum registration (clocking)	100,000 cubic meters
17. Maximum reading	99999,999

### Quality Assurance

- Please provide current certification showing the Manufacturer's compliance with ISO 4064

### Main Casing

- The meter body shall be made of tough, rugged, sun and heat resistant plastic material. The meter shall have an arrow on both sides indicating the direction of flow.

### Assembly

- The meter shall be designed for temper resistant to ensure that there is no unauthorized access to the meter hydraulic. Meters should absolutely not be opened what so ever.

### Return Flow Restrictor

- The meter shall be supplied complete with an in-built non-return valve to restrict return flow.

### Connection

- The meter shall all be threaded and shall be supplied complete with couplings sets.

### Strainers

- Strainers should not be positioned at the inlet throat, both strainers and non-return valves should be in-built.

## Markings

Each meter shall be permanently (non-fading) marked (no stickers) on the inside register with the following information:

- The nominal flow rate of the meter (Qn or Q3).
- The maximum flow rate (Qmax or Q4)
- Serial number, which must have eight (8) unique (non-repetitive) digits, indication of the year of manufacture will be an added advantage.
- The manufactures name and the commercial name of water meter.
- The metro logical class or range of the meter.
- The nominal working pressure
- EC or MID pattern approval number as per approval certificate shown to us
- Our name and logo
- The country of manufacture shall be indicated on the meter
- Our name shall also be marked on the cap/rid of the meter.