

AccuflowTM

Water Meter Screwed ends
Size : 15mm to 50mm



SILENT FEATURES

- Velocity type meter
- Direct magnetic transmission
- Class B ISO 4064
- Superior accuracy and long-term reliability
- Highly sensitive to low flow rate and very accurate over its entire flow range.
- Low head loss.
- Vacuum sealed, leak proof and dry Totaliser.
- Maintenance-free long working life.



Single-jet and Multi-jet, Turbine Type Water Meters from 15mm to 50mm, Screwed ends. For cold potable water.

"Accuflow" is a Class B water meter with extra dry register for Residential, Commercial and Industrial Applications.

Metrological Performances

Class "B" (Horizontal position). As per IS: 779/1994 and to ISO 4064 Part I

The Technology

"Accuflow" water meters are manufactured with a proven design. The meters use magnetic transmission as principle of operation. The magnets used are long life permanent magnets. The totaliser is housed in extra dry compartment, not prone to malfunctions arising out of water / dust ingress.

Construction

- ◆ Magnetic drive allowing the turbine to be the only moving part in contact with water.
- ◆ Extra-dry register allowing easy reading and resistant against UV-light, moisture and dust.
- ◆ Balanced turbine ensuring minimal wear and tear on the bearings.
- ◆ Bronze body specially designed to provide a smooth flow of water with minimum head loss.

Ease of Reading & Calibration

"Accuflow" register has the following advantages:

- ◆ Orientable register. (Single-jet only)
- ◆ Pilot Star rotating at the same speed as the turbine, for leak detection.
- ◆ Five-digit counter having large rollers enable easy reading.
- ◆ Four cyclometers for perfect calibration.

Maintenance

Reduced number of parts and simple construction makes maintenance of this meter easy.

Reliability-Durability

"Accuflow" water meters are suitable for a long reliable operation for following reasons :

- ◆ Register is vacuum-sealed to protect the counter parts from moisture and dust penetration.
- ◆ Sapphire is used in the main bearing to ensure the lowest friction possible.
- ◆ Body is made of bronze and externally protected with high-resistance epoxy-polyester paint, electrostatically applied.
- ◆ A good quality built in strainer avoids damage to the turbine.

Installation : Meter can be installed easily in an existing line, with the help of tailpipe and union nut. The performance of the meter is improved and extended life is possible, if it is installed as per ISO 4064.

Warranty : All the meters are warranted against any manufacturing defect for a period of twelve months, subject to adherence to installation conditions and meter seal should be intact and not tampered with.

Technical Parameters :

| | | Unit | Single-jet | | Multi-jet | | | | |
|---|----------------------------------|---------------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nominal Diameter (DN) | | mm | 15 | 20 | 15 | 20 | 25 | 40 | 50 |
| | | Inches | ½ | ¾ | ½ | ¾ | 1 | 1½ | 2 |
| Starting Flow Rate | | l/h | 14 | 18 | 14 | 18 | 25 | 70 | 80 |
| Maximum Admissible Temp. | | °C | 45°C (Optional 90° C) | | | | | | |
| Maximum Admissible Working Pressure | | bar (kg/cm ²) | 10 | | | | | | |
| Test Pressure - P_u | | bar (kg/cm ²) | 16 | | | | | | |
| Q_{max} | Max. Peak flow, ± 2% Accuracy | m ³ /hr | 3.0 | 5.0 | 3.0 | 5.0 | 7.0 | 20.0 | 30.0 |
| Q_n | Nominal flow, ± 2% Accuracy | m ³ /hr | 1.5 | 2.5 | 1.5 | 2.5 | 3.5 | 10.0 | 15.0 |
| Q_t | Transitional flow, ± 2% Accuracy | l / h | 120 | 200 | 120 | 200 | 280 | 800 | 1200 |
| Q_{min} | Minimum flow, ± 5% Accuracy | l / h | 30 | 50 | 30 | 50 | 70 | 200 | 300 |
| Head Loss at | Q _{max} | m | 7.0 | 7.0 | 6.5 | 7.5 | 9.0 | 5.0 | 4.8 |
| | Q _n | m | 1.7 | 1.8 | 1.7 | 1.9 | 2.3 | 1.3 | 1.2 |
| Dimensions | | | | | | | | | |
| Length (without Tail Pipes) | | mm | | | 165 | 190 | 260 | 300 | 330 |
| Length (with Tail Pipes) | | mm | 250 | 290 | 250 | 290 | 380 | 430 | 470 |
| (Note: 1 m ³ /hr = 1000 ltr / h) | | | | | | | | | |

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Accuflow TM

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