



## HOW TO INSTALL A WATER METER

### 1 IMPORTANT

- 1.1 Before installing the meter, make sure that the correct meter has been chosen, check that the nominal diameter, flow rate, working temperature and pressure are compatible with the real installation conditions.

### 2 TRANSPORT AND STORAGE

- 2.1 Water meters are measuring instruments: protect from bumps and shocks.
- 2.2 Protect the meters from frosting: if frozen de-frosting operations must be carried out with great caution.
- 2.3 The meters must be stored in a dry place with a temperature below 50°C and never stored under direct sunlight.

### 3 INSTALLATION RECOMMENDATIONS

- 3.1 Before installing the meter, make sure that the two sections of pipe are in axis, clean them carefully (especially if the pipes are empty) and allow water to flow for some time using a section of pipe instead of the meter.
- 3.2 Install the meter in a place protected from frosting. (if required insulate with insulation materials)
- 3.3 Install the meter in the lowest part of the pipeline in order to avoid accumulation of air.
- 3.4 Install the meter in a position where it is easy to read and not easily accessible to tampering or in a position where it can be knocked.
- 3.5 Install the meter so that the water is flowing in the same direction as the arrow shown on the body and in the position recommended by the water supplier.
  - 3.5.1 If the dial shows the letter H followed by the metrological class the meter must be installed in a perfectly horizontal position with the dial facing upwards. (this is usually only the case of multi-jet meters)
  - 3.5.2 In all other cases the meter can be installed in any position.
- 3.6 It is advisable to install, both upstream and downstream of the meter, some isolation devices (ball valves or similar) in order to make the maintenance or verification of the meter possible, as well as checks and sealing of the pipeline. The installation of a Backflow preventer or an internal or external Non-return valve is also advisable and may be a requirement for consumer protection by the Water Supplier in accordance with national regulations.

### 4 START UP

- 4.1 When opening the isolating device, do so slowly and partially at first to allow the pipeline to slowly fill and pressurize. It is important not to overrun or shock the meter during start up.
- 4.2 Once the pipeline has gradually filled and pressurised, gradually open the isolating device fully and check the installation for external leaks. Complete the start-up procedure with the isolating devices being completely open.

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