

General installation references for domestic and bulk water meters

This installation references is intended for trained personnel and therefore does not include basic work steps.

In addition national laws, regulations and technical rules should be paid attention to. Possible alternative or additional references regarding to various meter types are to be preferred to general references.

Important:

- The seal on the meter must not be damaged! A damaged seal immediately invalidates the factory warranty and calibration.
- Make sure you select the correct meter type, nominal load and temperature and pressure range. Particularly the approved installation directions has to be observe.

Transport and storage

- Water meters are precision devices and must be protected against impact and vibration!
- Water meters should always be handled only on the meter housing and should not be carried by either the lid or cable.
- Store meters in a frost-free place.
- If a risk of frosts exists, empty the system and, if necessary, remove the meter.

Installation instructions

- Thoroughly flush out the pipes before installing the meter.
- If the water is soiled, fit the strainer in the pipe before the meter
- Install the meter in a frostproof position at the lowest possible point of the installation to avoid air accumulating.
- Install the water meter in the approved installation position.
- Position the meter with the arrow mark in the correct direction of water flow.
- The water meter must be installed in the pipe without mechanical stress.
- Seals must not protrude into the pipe.
- On completion of installation, fill the pipe slowly to prevent pressure shocks damaging the measuring insert.
- The water meter must always be filled full with water.
- The meter must be protected against pressure shocks in the pipe.

Maintenance

The meter is maintenance free under normal operating conditions.

Calming sections

A straight calming section of pipe with the same nominal diameter as the meter must be fitted before and after Woltmann meters. The length of this pipe section must be at least 3 times the nominal diameter.

No calming section is necessary after WPV meters.

A calming section of 5 D is necessary if the pipe elbows are fitted before the meter.

No calming section is necessary if domestic water meters (single-jet, multi-jet and piston meters) will be used.

Marker

According to the possible installation there is a mark on the meter.

- Marker H:
installation horizontal only
- Marker H/V or without marker:
installation horizontal and vertical possible

The marker (horizontal or vertical) is related to the orientation of the meter counter. An installation „overhead“ is not allowed, except for some specially meters.

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