

1. Details of product

1.1. Application field

This user information applies for all current EWE water meter systems with a nominal pressure of PN 10, Qn 1.5 - Qn 10 (Qn 15) for horizontal or vertical meter installation. The EWE water meter systems are designed for cold potable water in accordance with DIN 2000. Connection sizes and dimensions of the units are listed in the current EWE catalogue price list or the EWE website.

1.2 Certifications

The fittings used in the water meter units are to be used exclusively in these units and are certified with the DIN-DVGW mark of conformity. Therefore the non-metallic materials used in them meet the German Federal Environment Agency's "KTW" recommendations (concerning traces of plastics in drinking water).

1.3 Manufacturer's address

Wilhelm EWE GmbH & Co. KG

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Tel: 0531/37005-0, email: info@ewe-armaturen.de

Internet: www.ewe-armaturen.de

2. Installation

2.1 Assembly

Install the water meter unit free of any stress. In other words, it must not be subjected to any force or torque. The bracket is attached and adjusted in a horizontal or vertical position via the T-groove-shaped slots and using a suitable fixing material, see also point 5 (accessories)

The desired distance from the wall can be achieved by using continuously variable flaps in the following ranges:

Qn 2,5	95 mm - 145 mm
Qn 6	105 mm - 155 mm
Qn 10	115 mm - 165 mm

The pre-mounted and sealed fittings are attached, centred, on the inlet or outlet side, by hanging them in the flap and tightening the lock nut. The fitting components can now be connected with inlet and outlet pipeline components. To avoid undesirable structural dimensions due to tensile or compressive tensions in the pipe connection process, it is recommended that assembly be carried out with the water meter or adapter already built-in. It is important that the pipe is flushed before installing the water meter in the water meter unit; the necessary adapter must be fitted with the gaskets especially for this purpose. The water meter must be installed with the gaskets supplied on the inlet side. Lead sealing can be

performed after the cap nut has been fitted on the inlet side, or at a later point in time by lead sealing through the hole drilled in the nut for this purpose. Then, the meter is fitted on the output side (screw connection); the procedure will differ depending on the type of pipe length compensation connection. There are two versions of length compensation piece; the procedures for each are described below.

2.1.1 Water meter unit with sliding length compensation

Provide the length compensation piece with cap nut with a gasket and screw it to the water meter. Then, tighten the cap nut of the sliding-length compensation piece.

2.1.2 Water meter unit with threaded length compensation

With the threaded length compensation piece, with only one cap nut to the meter, the procedure is begun by moving the internal octagon of the cap nut onto the octagon of the threaded length compensation piece. This way, the threaded length compensation piece can be extended by unscrewing it right up to the water meter. Shortly before the threaded piece reaches of the meter, place the gasket on the connection piece of the threaded length compensation piece. Then, the threaded length compensation piece is screwed onto the threaded end of the meter and the cap nut is screwed on the water meter connection piece.

3. Regulations

During installation, adhere to the appropriate regulations contained in DIN 1988 and DIN 18 012 (house service connections facilities). As a result, water meter (units) must generally be installed in the interior of the building on the wall nearest the street, for example, on an inside wall, in a frost-proof place in order that they are accessible, easy to read, and easy to replace and test. Here, the provider must assure that the main shut-off device or the water meter unit is accessible.

An annual function test of the backflow preventer is also required. The annual inspection of backflow devices in accordance with DIN 1988 does not apply to plug-in backflow prevention valves. These fittings must be replaced when the water meters are regularly calibrated.

4. Notes for the providers

The shut-off fittings in the water meter installations are defined in DIN 1988 as maintenance fittings, therefore they must be operated slowly (when closing or opening) during the maintenance of closed withdrawal facilities. Generally, the ball valve member and the valve body must be opened until they come to a stop, i.e., in a fully open position. Throttling is not allowed. In order to ensure the function or the smooth running of the water meter shut-off devices, it is recommended that they should normally be operated at least once a year. When emptying the internal installation with the drainage valve, ensure that the procedure is performed without any

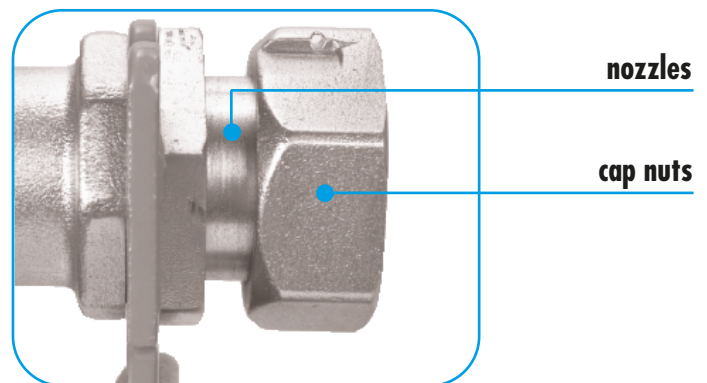
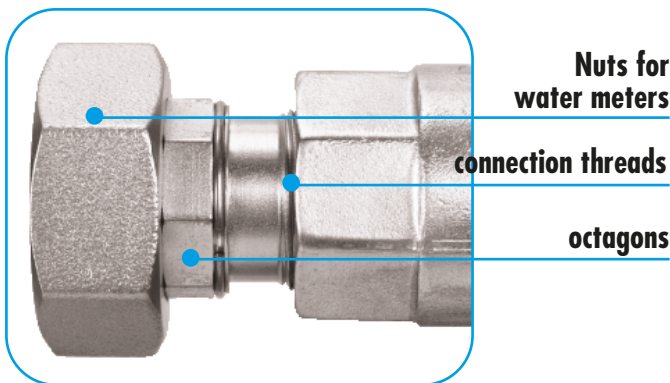
mains pressure. When the shut-off valve is closed, it makes sense to open a discharge valve in the water meter unit in the downstream installation to first reduce the water pressure. Then the drainage valve is opened.

5. Accessories

Details of accessories for the EWE water meter unit, such as tools, gaskets and fixing material, etc. can be found in the EWE catalogue price list or on the Internet.

EWE threaded length compensation piece

How does the EWE threaded length compensation piece function?



- After assembling the EWE water meter unit, fix the water meter gasket on the inlet-side water meter connection piece and screw the water meter tight on the inlet side
- Push the water meter nut back onto the outlet side on the octagon.
- Fix the water meter gasket on the length compensation piece.
- **Only screw the connection piece with gasket lightly against the meter connection** by turning the water meter nut, but do not expect any sealing effect!

(Maximum adjustability in the length compensation has been achieved when the connection thread visibly protrudes from the sleeve.)
- Screw the water meter nut with meter connection tight - only in this way will there be **an effective seal between the length connection piece and the meter connection.**