

# WATER METER BOX

Water meter box is designed for the installation of gauges for individual households and other small consumers of water outside of the facility. We have been producing them for 20 years, and have over 100.000 users.

## Purpose

The construction protects the gauge from cold in winter conditions. The shaft has no bottom, which allows the passage of heat from the lower layer of the soil directly below the thermal insulation cover, where it accumulates and prevents freezing of the gauge and terminal installation.

## Use

Most often, water meter box is installed on the free surfaces - lawns and load bearing surfaces (domestic driveways intended solely for light passenger vehicles), so that it is accessible for servicing and reading, even when the owner is not at home.

Reading and gauge replacement are very simple, because the gauge is in the upper part of the water meter box and therefore it can be easily accessed.

## Stability

The upper part of the water meter box is additionally reinforced with strong reinforcement ribs. The high circumferential rigidity allows independent installation. A strong and stable base of the water meter box transmits vertical loads, without the use of a concrete bed.

## QUICK, EASY AND SIMPLE INSTALLATION



Type ZAGOŽEN

## Cover

The same housing has two cover options:



Cast iron-cover



PE-cover

\* The cover lock (child protection) is an additional choice feature



## ■ Dimensions:

height 100 cm (option: height 70 cm or 120 cm)  
width min. 65 cm · length min. 45 cm

## ■ Standard types of installed gauges:

1 X ¾" - standard version · 2 X ¾"

\*1 X 1" · \*1 X 5/4" · \*1 X 6/4"

\* Without the dirt separator

## ■ Housing material: polyethylene

## ■ Plastic cover material:

polyethylene (UV-stabilized)

## ■ CAST IRON cover material: cast iron

## ■ Housing color: black

## ■ PE-cover color: green

## ■ CAST IRON-cover color: black

## ■ Pressure tested

Type ZAGOŽEN



## The interior installation - type ZAGOŽEN

The interior installation - the molded components and pipes - is made of polypropylene, welded with poly fusion, guaranteeing a 100% sealing function. When installed correctly, the PP structure ensures a life span of a minimum of 50 years. When transporting drinking water, it preserves the organoleptic properties of water, does not cause any adverse flavour or odour and it does not stimulate the growth of microbes, since it is impermeable to light.

The PU thermal cover has a handle, enabling easy handling. In case of a land use change where a water meter box is already installed, the PE-cover can be replaced by a CAST IRON cover or vice versa.

## Standard equipment of the water meter box ¾" – type ZAGOŽEN

- input 1"; output ¾" (for standard type of house connection ¾"),
- a version with quick fit couplings,
- installation: polypropylene pipes and fittings
- fittings: PN25 Ball Valve, dirt separator\*, T-piece (optional installation of a ventilation valve), polyurethane thermal cover.

\* The dirt separator ¾" can be replaced by the reducing valve ¾"!



In addition to the standard Zagožen type water meter box you can also choose a water meter box with one, two or three gauges, and the interior installation from PE or other pipes.

Water meter boxes are pressure tested for all types of internal installation, which ensures greater safety and convenience for the user. Various heights are available.



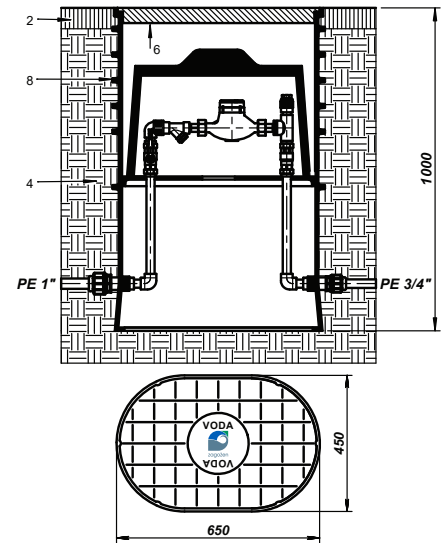
# Installation of the water meter box

APLAST

## 1. On grass surfaces

A water meter box is installed on a solid and horizontal soil. Due to its insulating effect, the water meter box has to be installed solely in the soil - gravel material should not be used.

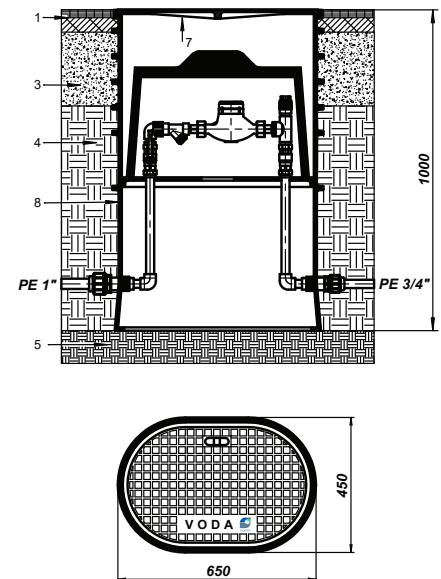
After the assembly is complete and the gauge has been checked, it is necessary to insert a PU thermal cover, which ensures, that even during the coldest part of the year, freezing is avoided.



## 2. On load bearing surfaces - pavements and domestic driveways

When installing the water meter box with a load bearing cast-iron cover (capacity 1500kg), the basic requirements, which apply for the covers on grass surfaces, should be taken into account. Special attention must be paid to ensuring a hardened, horizontal soil terrain base at the depth of 100 cm. The compaction of the base below the water meter box must be at least 92% Proctor.

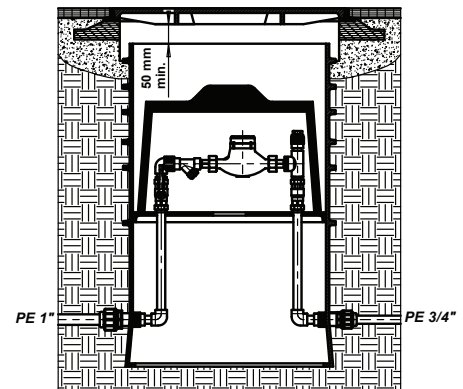
The use of heavy duty machinery is not allowed during the processes of consolidation and backfilling, while at the same time, the cast iron cover must be correctly installed onto the water meter box housing.



## 3. On load bearing surfaces - heavy duty vehicles

On load bearing surfaces - for heavy duty vehicles - water meter box must be installed with a cast iron cover of a suitable capacity! The minimal size of the cast iron cover is 600x600 mm. The cast iron frame with the cover must be built into a reinforced concrete plate.

The cast iron cover must not rest on the water meter box, and the minimal distance between the upper edge of the housing of the water meter box and the lower edge of the cast iron cover, must be at least 5 cm.



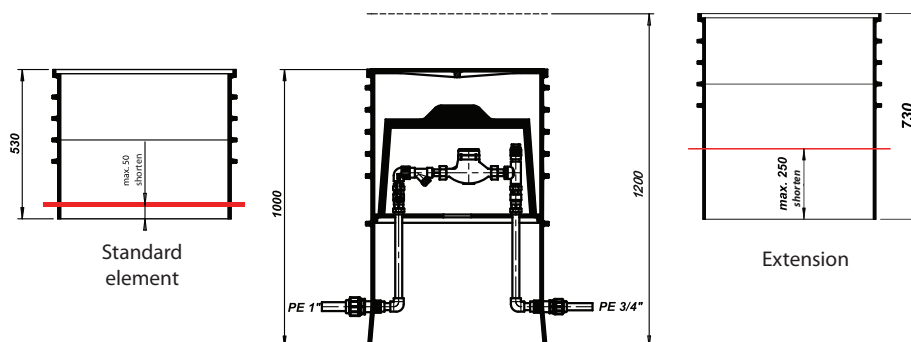
Legend:

- 1. Pavers or asphalt layer
- 2. Lawn
- 3. Compacted gravel tampon
- 4. Compacted soil
- 5. Compacted base (to a min. 92% Proctor)
- 6. PE-cover
- 7. CAST IRON-cover with the 1.5 T capacity
- 8. The housing of the water meter box



A proper installation of the "Zagožen" type water meter box ensures faultless functionality also in winter conditions.

The housing of the water meter box is composed of two parts, which allows an easy adjustment to the height of the terrain. The upper part of the water meter box is additionally reinforced with strong reinforcement ribs, which increases resistance to deformations throughout the process of installation.



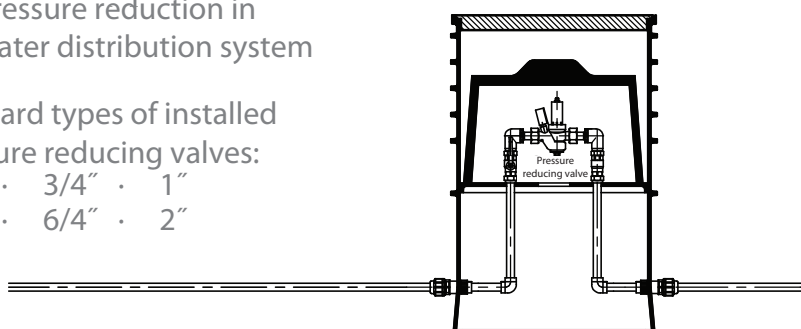
The housing of the water meter box offers also the option of a water meter thermo box for a pressure reducing valve (for pressure reduction in the water supply system) and a water meter thermo box for ventilation (for the ventilation of the water distribution system).

## Water meter thermo box with a pressure reducing valve DN1/2" – DN2"

For pressure reduction in the water distribution system

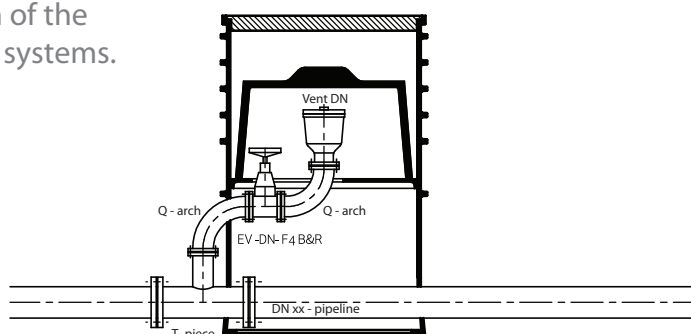
Standard types of installed pressure reducing valves:

1/2" · 3/4" · 1"  
5/4" · 6/4" · 2"



## Water meter thermo box for the vent

For the ventilation of the water distribution systems.





## Purpose and use

The TOPcap tilting cap is an indispensable novelty in the thermal shaft installation into uneven or tilted surfaces. Its main advantage is its adaptation to various degrees of inclination.

The TOPcap can be tilted into all directions, all the way to 9° - on the longer side of the shaft even up to 12°. At the same time, height adjustment is enabled, in case of landscaping – when the surface is raised. Under such circumstances, the water meter box can be heightened up to 22 cm.



*TOPcap tilting cap*

## Description

The TOPcap tilting cap consists of polyethylene. It has a double wall, and the gap between the walls is filled by PU foam, which additionally reinforces the construction of the TOPcap tilting cap. It is also suitable for use in load bearing surfaces with a maximum capacity of 1,5 t.



*TOPcap tilting cap with a cast iron cover*

## Advantages

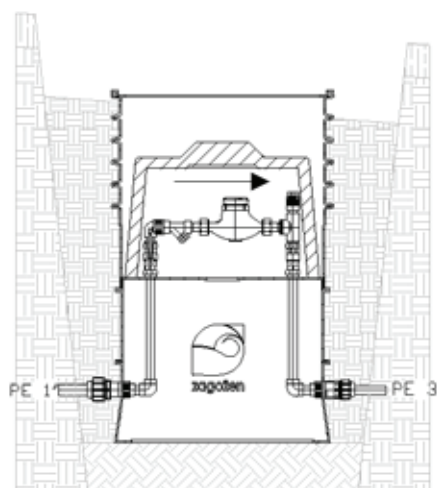
- The TOPcap tilting cap inclination adjustment into all directions in the field.
- It can be tilted all the way up to 12°.
- A simultaneous adjustment of the height and the inclination of the cap.
- The installation of various covers (PE, CAST IRON) without affecting the shaft.
- Suitable for grass and load bearing surfaces (with a maximum capacity of 15 kN).
- The cover of the water meter box can be placed on a TOPcap tilting cap.
- Colour variations for the TOPcap tilting cap: black and green.



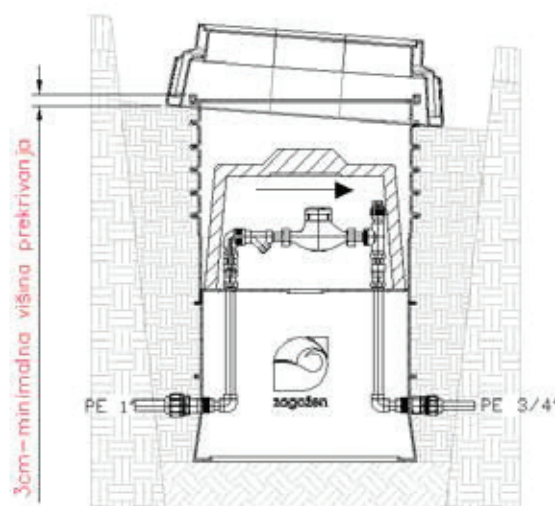
*TOPcap titing cap with a PE-cover*



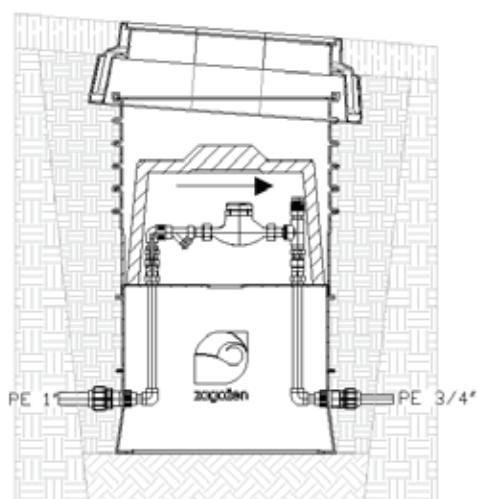
**1.** Before the installation of the TOPcap tilting cap, the upper edge of the water meter box housing must not be backfilled - at least 3 cm. The backfill material surrounding the water meter box is levelled and compacted, based on the required inclination and height.



**2.** The TOPcap tilting cap is placed onto a suitably levelled and compacted backfill material. Special attention must be paid to covering the lower part of the cap – at least 3 cm above the water meter box housing.



**3.** The chosen cover is installed and the backfilling process continues to the top of the TOPcap tilting cap, according to the installation instructions.



In case the water meter box is too high due to the adjustment of the TOPcap tilting cap to the surrounding area, it can be shortened. When defining the level of shortening, attention must be paid to the fact, that the installation inside the water meter box remains undamaged and protected with a PU insert.



*Water meter box with a TOPcap tilting cap*

