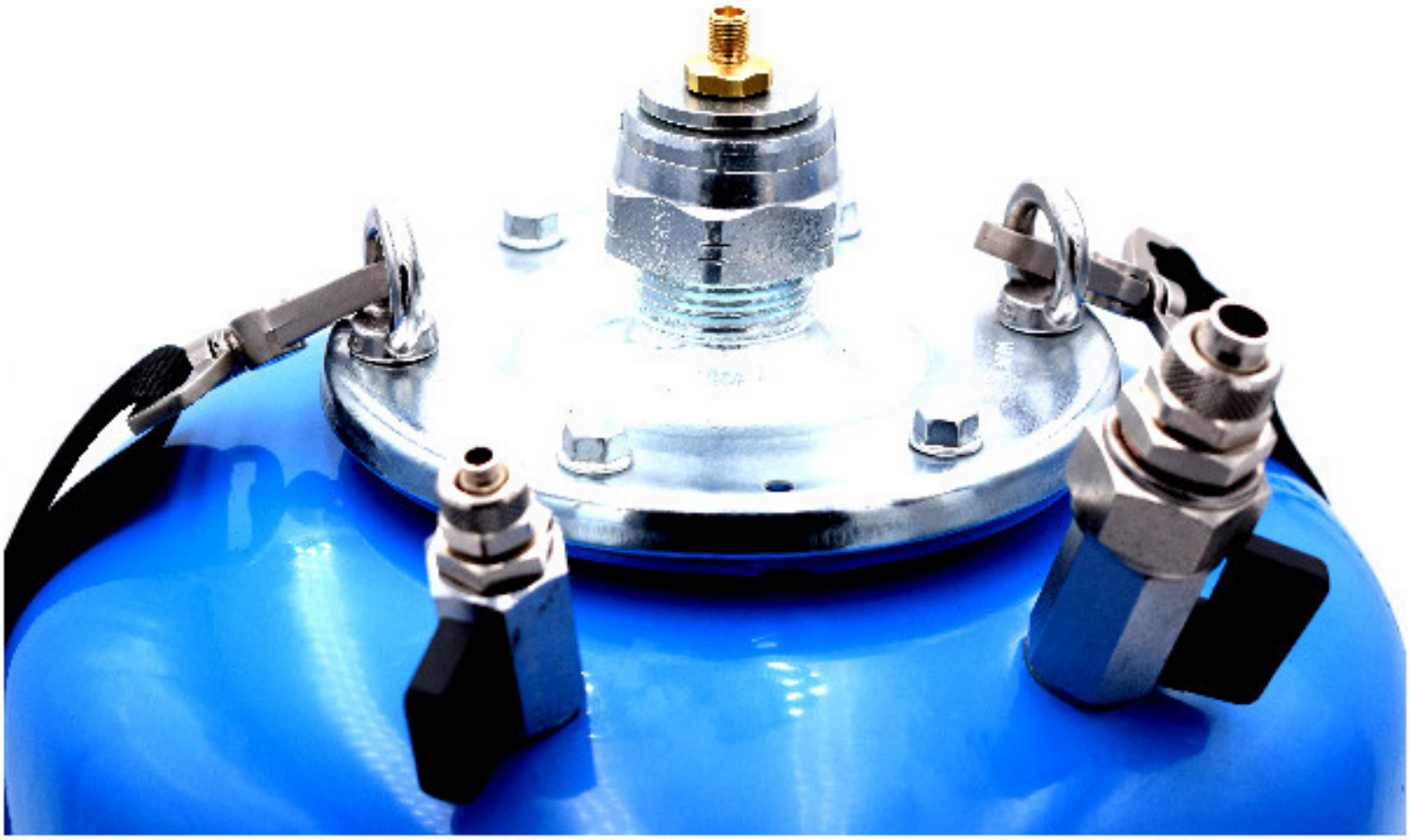


Hydraulic circuits filler

O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290
www.otr-geo.it info@otr-geo.it P.IVA 00894610153

Numero 112
Rev. 01 del 27/04/2022

STRUMENTI E MISURE GEOTECNICHE
E STRUTTURALI

O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290
www.otr-geo.it info@otr-geo.it P.IVA 00894610153

INDEX

Hydraulic circuits filler

O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290
www.otr-geo.it info@otr-geo.it P.IVA 00894610153

WARNINGS

This device must be utilized only for the application it has been designed for, OTR declines all responsibility for any improper use;

Durante la fase di installazione scollegare lo strumento da dispositivi di misura o apparecchi connessi alla rete elettrica;

Do not use the instrument near potentially explosive gases;

During the installation phase, disconnect the instrument from measuring devices or from any device connected to the AC power supply;

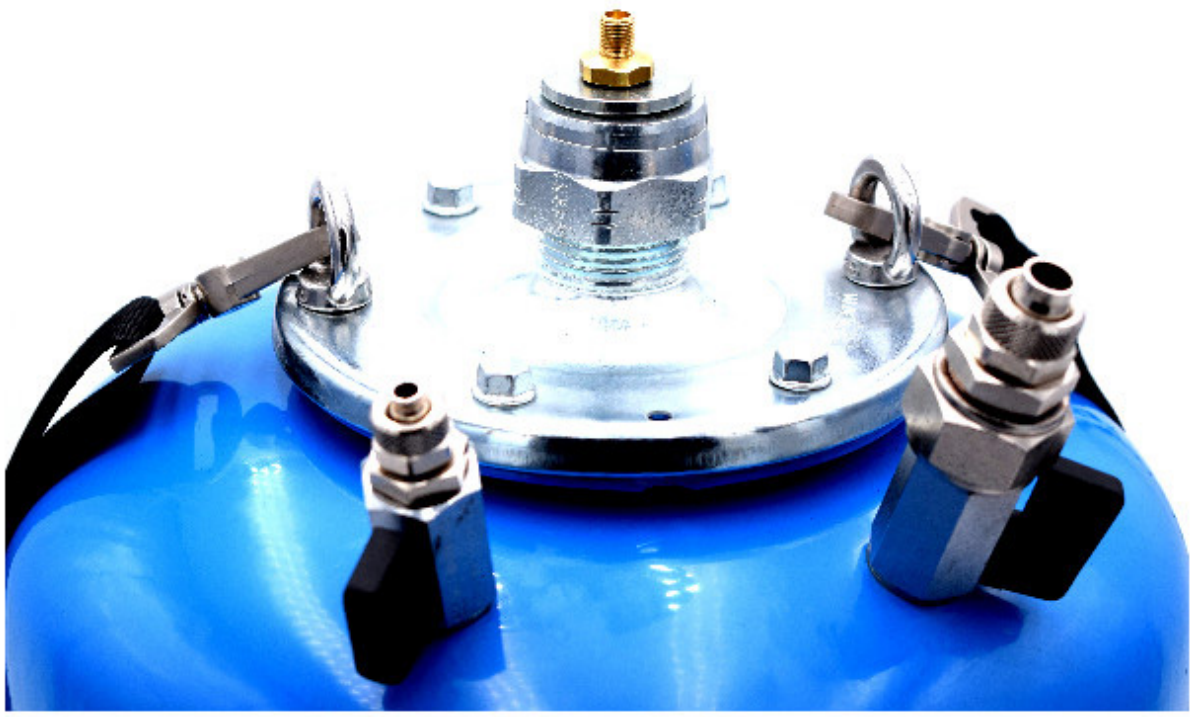
Use protective gloves.

Furthermore

- Do not open the instrument, contact the manufacturer for checks and repairs;
- Keep out of reach of children;
- Do not connect the instrument to the readout unit with wet hands;
- Clean the instrument and its cable with alcohol or water, do not use acetone or aggressive liquids for plastics or labels;
- Do not exceed 0.8 bar pressure;
- Do not apply pressure with valves closed

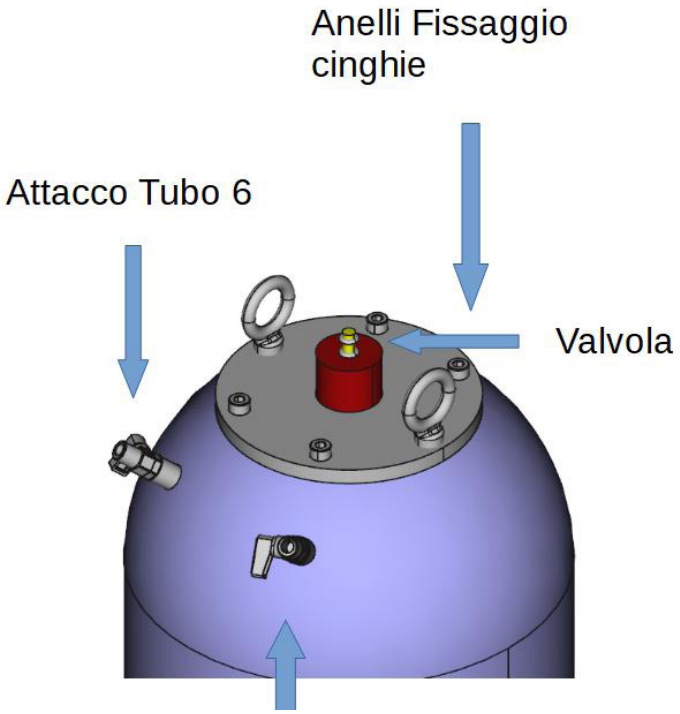
Application

Hydraulic filler is used to fill the hydraulic circuit of livellometric settlement system's cups and level meters.



O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290
www.otr-geo.it info@otr-geo.it P.IVA 00894610153

Description



The filler is consisted by:

- A cylindrical reservoir in which liquid is introduced;
- An internal rubber ball in which air is pumped to press the liquid without mixing;
- Two hydraulic ports and a two valves that can work as inputs and outputs;
- A flange that keeps the internal rubber ball fixed;
- Two eyebolts for the belt;
- The belt;
- A rear eyebolt to hang up the device when it is almost without liquid;
- A valve for air input.

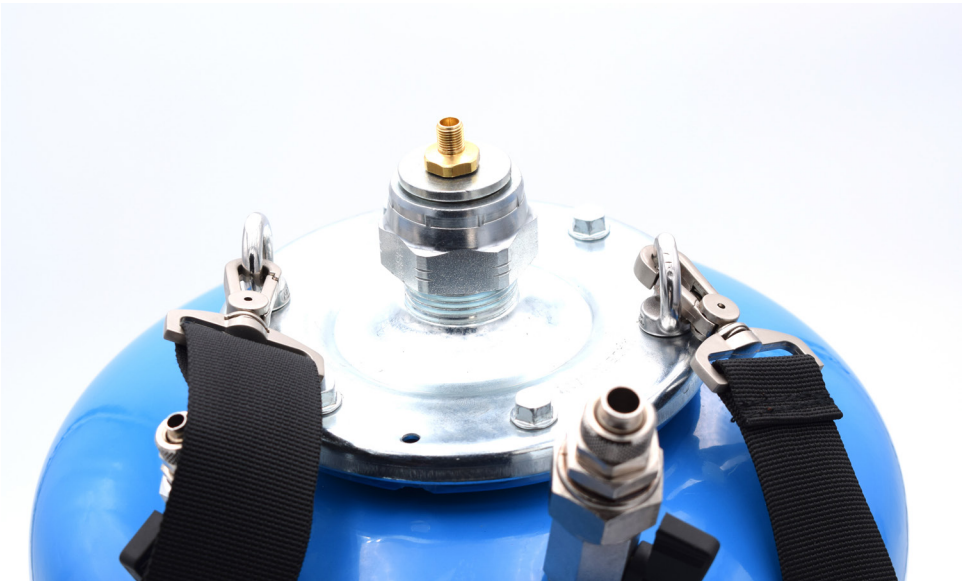
Identification

Every filler has got a plate with:

- Production Year / Serial Number.

Technical Features

Material	Steel and Rubber
Dimensions	48 x 27 cm
Capacità	25 Liters
Pressione massima	0.8 Bar



O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290
www.otr-geo.it info@otr-geo.it P.IVA 00894610153

Preparation

Proceed as follows:

- Prepare a canister with water/glycerin mix. Liquid must be deareated to avoid to produce gas bubbles in the circuit;
- Use a Ø 10 mm pipe;
- Arrange the device in a position under the canister;
- Open both hydraulic valves;
- Fill the device using the Ø 10 mm pipe;
- Wait for the liquid exits from unused vale (Ø 6 mm);
- Once device is full close both valves.

Uses

Proceed as follows:

- Utilize a little portable compressor that can limit the exit pressure;
- Limit the exit pressure at 0.5 bar, compressor must stop to pump when pressure is higher than 0.5 bar;
- Connect compressor as in the picture;
- Connect the Ø 10 mm pipe to the hydraulic circuit that must be filledand close the Ø 6 mm valve;
- Pump the air;
- When the device is becoming empty proceed as follows:
  - Place the device lying down with the valves near ground;
  - Hang up the device with valves towards ground;
  - Re-fill the device before liquid is finished.

Never exceed 0.8 Bar Pressure
Pump the air always with valves opened