



CP15 & CP1

EXCELLENT LONG-TERM RELIABILITY
SIMPLE READINGS
VERY ECONOMICAL

The CP standpipe (or Casagrande) piezometer is used to measure pore-water pressure and water level in permeable soils in many geotechnical applications.

Description

The **CP** standpipe piezometer is a filter element that is attached to a riser pipe. When installed as a piezometer, the filter is located in a sand intake zone at the location where pore-water pressure is to be monitored. A bentonite pellet or chip seal is placed over the sand intake zone and the remaining borehole is backfilled with grout.

A monitoring well installation consists of a filter-element attached to a riser, backfilled with sand to within a few meters of the ground surface. A bentonite seal at the surface prevents runoff water flowing into the monitoring well.

The **CP1** consists of a porous plastic filter inside a perforated rigid PVC body. The **CP15** is a crush resistant porous plastic filter. Both piezometers are used with rigid PVC riser pipes.

Water enters the riser until the water pressure inside the filter equals the water pressure in the soil. A water level indicator can be then used to measure the depth of water.

The **CP15** can be used in combination with the PWS piezometer if continuous monitoring is needed.

Key Features

- Excellent long-term reliability
- Simple readings
- Very economical
- Easy installation

Applications

- Stability of slopes
- Performance of dams and embankments
- Effectiveness of ground improvement techniques
- Effect of construction on surrounding structures
- Drawdown due to dewatering and pump tests
- Seepage through earth structures

Specifications

PIEZOMETER TIPS	CP1	CP15
Type	Porous plastic	Porous plastic
Length	350 mm	300 mm, 600 mm
Diameter	33 mm	38 mm
Fitted adaptors	3/4 in. Sch 40 Tubing	For rigid PVC standpipe 19 or 25 mm diameter CP15
Filter	Plastic, ~50 µm, ~10 kPa low air entry	

Ordering Information

Please specify:

- Model
- Length, diameter, adaptors
- Standpipe diameter

Optional Accessories

- Rigid PVC standpipe, 19 mm (3/4") or 25 mm (1") nominal diameter for CP15
- Teflon tape for sealing threaded joints
- PVC cement for bonding PVC pipe to filter
- Silica sand
- Pressure gauge for artesian conditions (uplift pressure measurement)
- Cap: plain, slip-fit, vented