Model CP1 and CP15

APPLICATIONS

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



MODEL CP15 AND CP1

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 the filter 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 pipe.

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 the water.

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

FEATURES

- **EXCELLENT LONG-TERM RELIABILITY**
- SIMPLE TO READ
- **VERY ECONOMICAL**
- **EASY TO INSTALL**
- **PERMEABILITY TEST**





SPECIFICATIONS

PIEZOMETER TIPS	CP1	CP15	
Туре	Porous plastic	Porous plastic	
Length	350 mm	150 mm to 600 mm	
Diameter	19 mm	38 mm	
Fitted adaptors	20 mm pipe female	For PVC rigid standpipe	
	socket welded coupling	19 or 25 mm dia. model CP15	
Filter	Plastic, ~50 microns, ~10 kPa low air entry		

STANDPIPE, FLEXIBLE TUBING & 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 gage for artesian conditions (uplift pressure measurement)
- Cap: plain, slip-fit, vented

ORDERING INFORMATION

Please specify:

- Model
- Length, diameter, adapters
- Standpipe diameter
- Accessories