DATASHEET

Standpipe Piezometer

Simple and economic measurement of groundwater pressures in soil and rock can be carried out using Casagrande type piezometers





GEOSENSE

Standpipe Piezometer

Overview





Simple and economic measurement of groundwater pressures in soil and rock can be carried out using Casagrande type piezometers.

Geosense® piezometers are made up of low air entry porous plastic or ceramic elements which are connected to standpipe tubing and lowered into a predrilled borehole. Alternative types may be driven or pushed into soft soil.

Where Casagrande type piezometers are being installed then the porous element is surrounded by filter sand and a Bentonite seal placed above this response zone.

Water level measurements are normally taken using a water level meter (dip meter) or in the case of artesian pressure a Bourdon pressure gauge is attached to the top.

APPLICATIONS

- Monitoring of dams, reservoirs & embankments
- Slope stability
- Groundwater levels for dewatering & drainage
- Groundwater sampling
- Permeability testing
- Contaminated soil monitoring

FEATURES

- Economic
- Simple to install
- Simple to use
- Variable filters
- Variable Material
- Can be used for artesian pressure

Standpipe Piezometer

Specifications

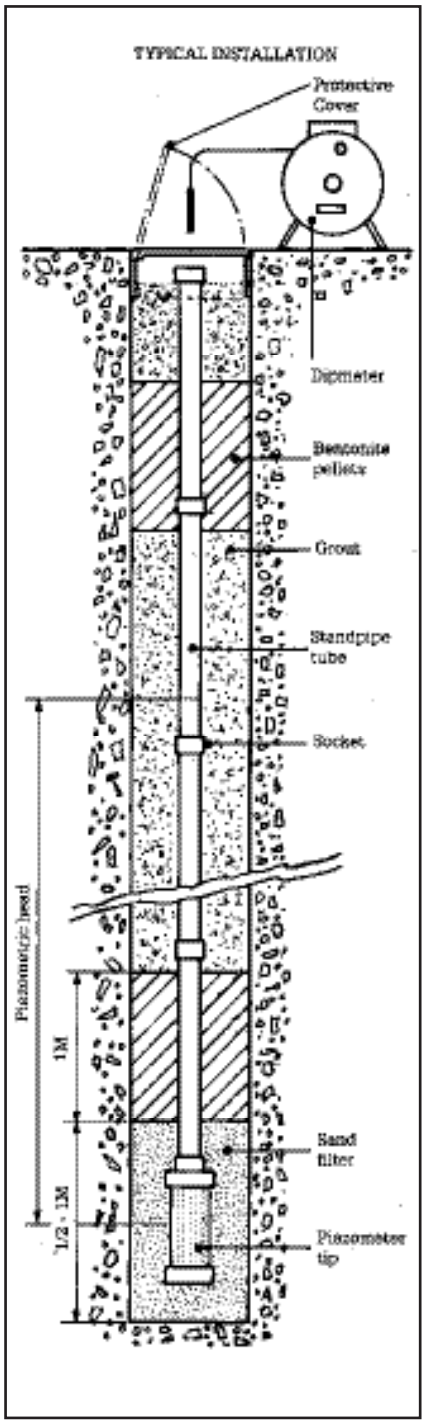
POROUS PLASTIC ELEMENT		
Material	HDPE	
Mean pore size	60 microns	
Permeability	3 x 10^{-4} m/s	
Porosity	35%	
POROUS CERAMIC ELEMENT		
Material	Alumo Silicate	
Mean pore size	60 microns	
Permeability	3 x 10^{-4} m/s	
Porosity	45%	
PIEZOMETER TIP		
Description	**Diameter mm**	**Length mm**
Plastic porous	27	320
Plastic porous	27	1000
Drive-in galvanised	27	400
Drive-in galvanised	27	1000
Ceramic	50	200
STANDPIPE		
Material	PVC	
Outside diameter	26.6mm	
Wall thickness	2.9mm	
Internal diameter	20.8mm	
Thread	BSPM/BSPF	
Lengths	1 & 3m	


Ceramic Piezometer Tip


Drive-in Piezometer Tip

Standpipe Piezometer

Accessories

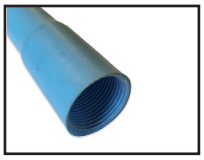
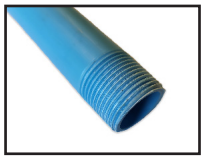


TUBING & ACCESSORIES

Standpipe piezometer tubing is supplied standard with blown ends BSPM one end and BSPF the other end.

Alternative options include flush threading and sizes up to 2" which are used mainly for open standpipe piezometers.

Tubing is available in high strength PVC or galvanised steel for drive-in piezometers in 1 and 3 metre lengths.

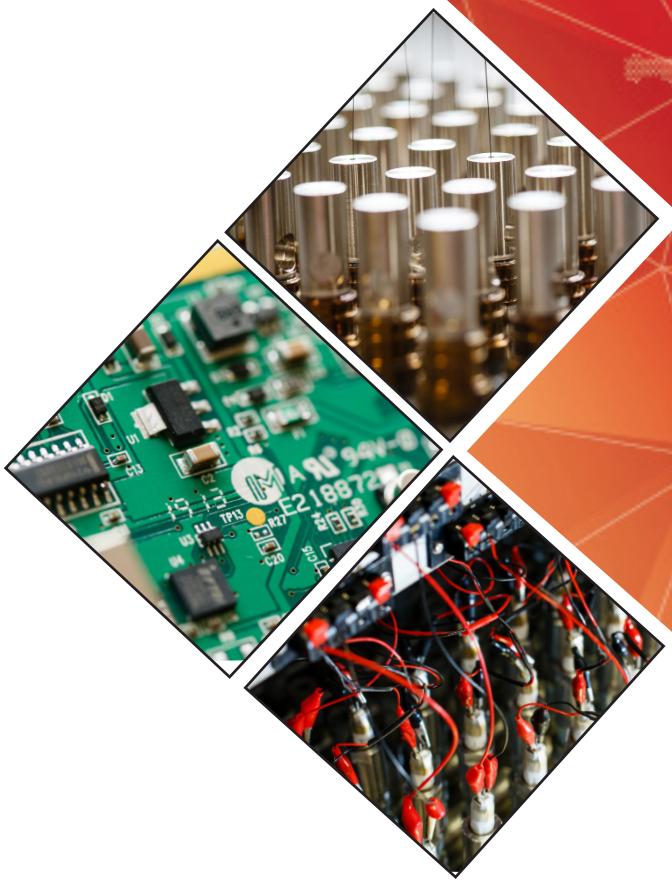


ACCESSORIES

- Bourdon gauges
- Adaptors
- Caps
- Dip meters
- Bentonite pellets
- Protective covers





GEOSENSE

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V2.0 06/2026