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
Ceramic	50	310

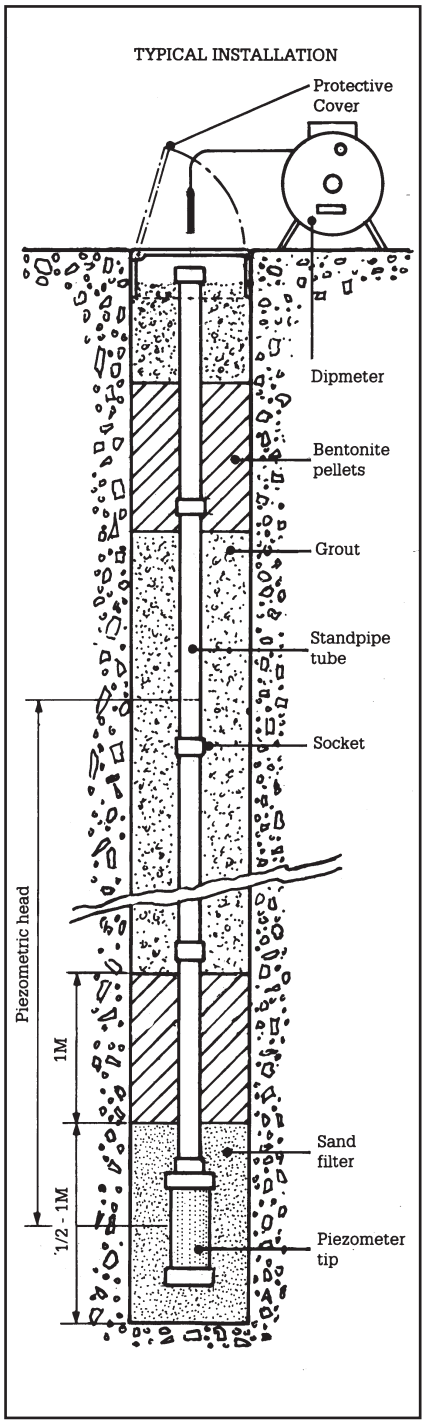
STANDPIPE	
Material	PVC
Outside diameter	26.6mm
Wall thickness	2.9mm
Internal diameter	20.8mm
Thread	BSPM/BSPF
Lengths	1 & 3m


Ceramic Piezometer Tip


Drive-in Piezometer Tip

Standpipe Piezometer

Accessories

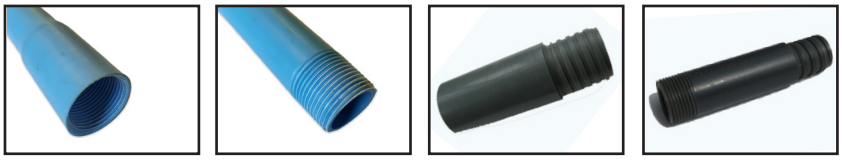


TUBING & ACCESSORIES

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

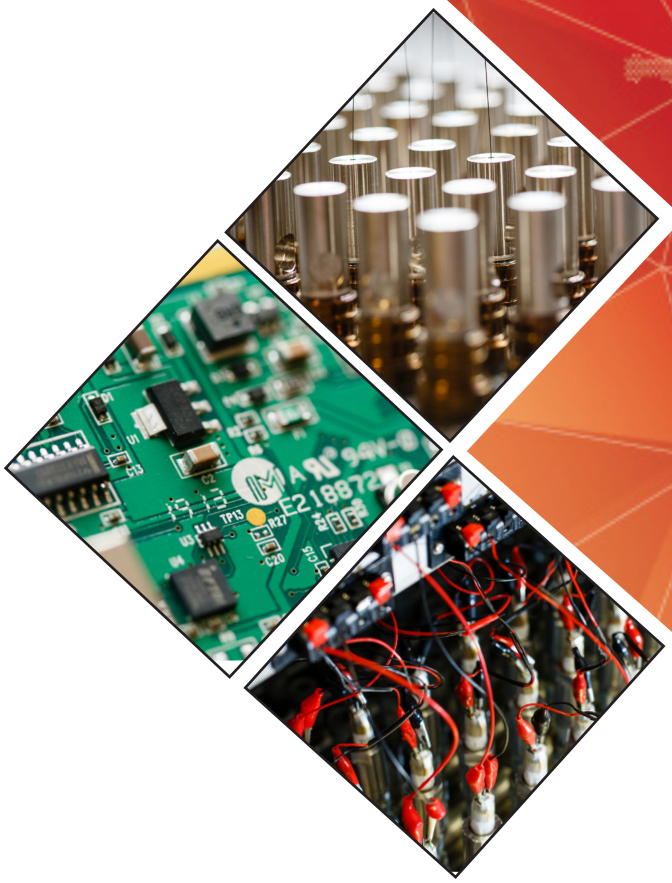
Alternative options include flush threading and sizes up to 2" which are used mainly for open standpipe piezometers.

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

HEAD OFFICE

Nova House
Rougham Industrial Estate
Rougham, Bury St Edmunds
Suffolk IP30 9ND
England

+44 (0)1359 270457
sales@geosense.com
support@geosense.com

NORTH AMERICA OFFICE

15 West 38th Street
Suite 632
New York
NY 10018

+1 518-920-3483
sales@geosense.com
support@geosense.com

www.geosense.com

V1.9 10/2024