







#### 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

## Specifications

#### POROUS PLASTIC ELEMENT

Material	HDPE
Mean pore size	60 microns
Permeability	3 x 10 <sup>-4</sup> m/s
Porosity	35%
POROUS CERAMIC ELEMENT	
Material	Alumo Silicate
Mean pore size	60 microns
Permeability	3 x 10 <sup>-4</sup> m/s
Porosity	45%

#### PIEZOMETER TIP

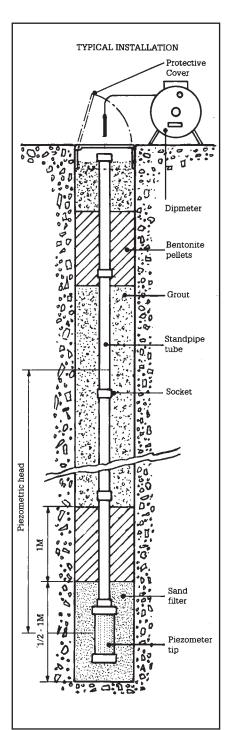
Description	Diameter mm	Length mm
Plastic porous	27	320
Plastic porous	27	1000
Drive-in galvanised	27	400
Drive-in galvanised	27	1000
Ceramic	50	200
Ceramic	50	310
STANDPIPE		
Material	PVC	
Outside diameter	26.6mm	
Wall thickness	2.9mm	
Internal diameter	20.8mm	
Thread	BSPM/BSPF	
Lengths	1 & 3m	





#### Accessories





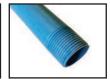
#### **TUBING & ACCESSORIES**

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 Ltd, Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk IP30 9ND, England www.geosense.co.uk e sales@geosense.co.uk t +44(0)1359 270457

Specifications are subject to change without notice and should not be construed as a commitment by Geosense. Geosense assumes no responsibility for any errors that may appear in this document. In no event shall Geosense be liable for incidental or consequential damages arising from the use of this document or the systems described in this document. All Content published or distributed by Geosense is made available for the purposes of general information. You are not permitted to publish our content or make any commercial use of our content without our express written consent. This material or any portion of this material may not be reproduced, duplicated, copied, sold, resold, edited, or modified without our express written consent.