



Data Digger Equipment

DATA DIGGER EQUIPMENT

CASAGRANDE PIEZOMETER TIP



DESCRIPTION

The Model DDE9000 Series Porous Tube & Case Grande Standpipe Piezometer are considered to be more reliable than other types and used to measure water level and artesian heads in embankments and foundation of dams and reservoir, Uplift pressure in hill side highways and underground works. It is more sensitive to foundation pressure and is more resistant to plugging due to silting the system is installed in a borehole of required depth.

The System consists of a low and high air entry value cylinder ceramic or plastic filter element closed at one end with PVC/Brass/ Rubber Stopper. The other end has a PVC / Brass/ Rubber Brushing to facilitate its assemble with PVC Pipe. The required depth of the Piezometer tip is reached by adding the PVC Pipes and couplings. At the top of the hole a protection pipe of PVC/GI pipe is provided with a cap to protect the system from dust and other outer environment in case of open loop system where level is to be measured.

SPECIFICATION

Piezometer Tip Material

60-micron polyethylene cylinder.

Standard Diameter 37mm (Including End Plug)

LENGTH

37mm X 200mm Model DDE 9001

37mm X 300mm Model DDE 9002

37mm X 600mm Model DDE 9003

37mm X various lengths available (please specify) Model DDE 9004



DATA DIGGER EQUIPMENT

DESIGN

ADAVNTAGE:

1. Simple to Install
2. Useful for Short and Long Term Data Monitoring
3. Reliable, accurate and free from creep.

EQUIPMENT

POROUS TUBE: This is the porous Carborandum or Alundum tube of annular cross section, 30/50mm O.D x 6mm. wall thickness and about 200/300/600mm long standard porosity 60 micron. The porosity of the porous tube should be chosen according to the requirement.

STOPPER & COUPLER: The bottom end of the porous tube is sealed with suitable PVC/Brass/ Rubber Plug. When shorter length of coupled together a brass stopper rubber seal to be used to seal the ends.

TOP ADAPTER: It is required to be fitted on the upper end of the porous tube assembly to connect stand to the porous tube. The nominal pipe thread is 12.5mm, 19.05mm or 25.4mm.

STAND PIPE: Durable rigid PVC tubing having an outside diameter of 12mm to 25.4mm and a wall thickness of 1.5mm in max, available length. The diameter of the tubing may be increased, if necessary to pass the sounder sensor.