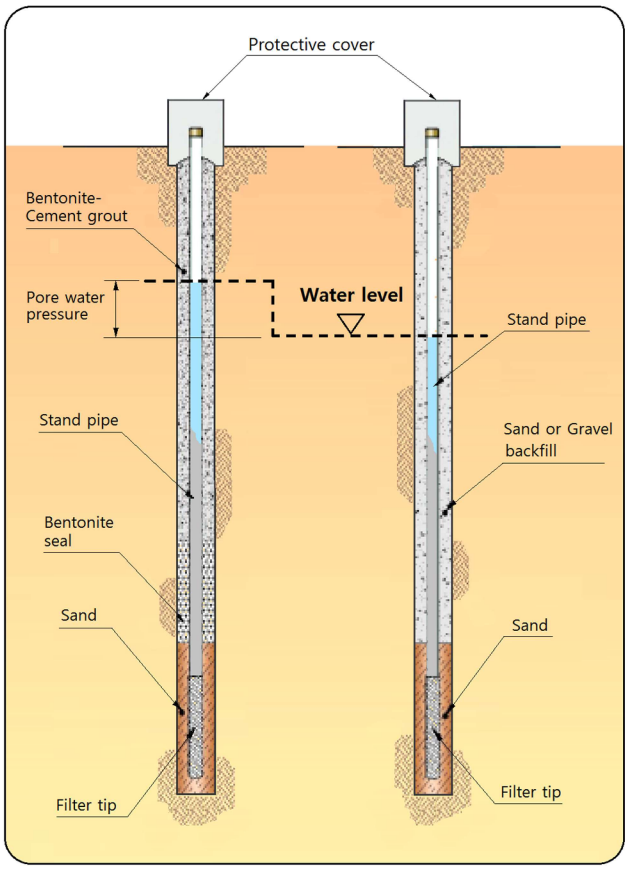
Standpipe piezometer



[Measurement to porepressure] [Measurement to water level]

Description

Standpipe piezometer, sometimes called a CASAGRANDE piezometer. Standpipe piezometer uses the water level meter and filter instead of VW piezometer or FSG piezometer. Standpipe piezometer is applied to get high-reliability data with moderate costs.

Standpipe piezometer consists of a reel of water level meter and a filter tip and a PVC pipe.

You can choose the filter tip between 50㎛m PE filter and ceramic filter. Ceramic filter is applied at a site, which a long term measuring is required.

For use this to piezometer, after the filter tip and standpipe are installed downhole, you should cover the around filter tip with sand. The top of the filter zone is sealed with bentonite to isolates the pore-water at the tip. The upper bentonite zone is backfilled to the surface with a bentonite grout to prevent vertical migration of water.

You can measure the water pressure of soft deposits with the steel well point and steel pipe instead of filter tip and standpipe.

Applications

The standpipe piezometer is useful to measure water pressure and level of high-reliability with moderate costs, as a substitute for electrical transducer.

Ancillary equipment

- Well point

Specification

Model			4650					
Water level meter	Power		9VDC(6F22) battery 1 no					
	Range		50m	100m	200m	300m	350m	500m
	Weight		2.5kg	4.5kg	8kg	10kg	12kg	15kg
	Dimensions		152(W)×278(L)×282(H)㎜			400(W)×400(L)×400(H)㎜ or beloa		
	Tape Resolution		1㎜					
	Tape Precision		ISO first grade					
	Probe O.D		STD : Ø19.5㎜, Optional : 14㎜					
	Mat-erial	Frame	Stainless steel pipe					
		Probe	Stainless steel pipe					
		Reel	ABS resin					
		Tape	Polyethylene coated steel tape					
	Functions		• Mounted a knob for adjustment of sensitivity • Mounted TEST switch • Mounted ON/OFF switch					
Filter tip	Material		Polyethylene filter or ceramic filter					
	Density		50 ㎛m					
	Dimensions		Ø39×365㎜ (Ø38 for stand pipe)					

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