



» piezometers

# Casagrande Standpipe Piezometer



RST's Casagrande Standpipe Piezometer tip consists of a slotted PVC body that encloses and protects a porous plastic filter element. A PVC Riser Pipe (available from RST) is connected to the tip and extended to the surface. A CPVC body is available for leachate extraction.

The Casagrande Standpipe Piezometer is mainly used for measurement of piezometric levels and pore water pressures in soil and rock formations where the time lag and high displacement requirements inherent in standpipes are not crucial, and where the presence of standpipes will not hinder construction. Water elevation in the riser pipe is measured using a Water Level Meter. Alternatively, a Vibrating Wire Piezometer can be lowered in the pipe to allow remote reading; Bourdon tube gauges may be attached to monitor artesian pressures.

Drive-in models and custom sizes are also available, contact RST Instruments for more details.

## specifications

DESCRIPTION	SPECIFICATION
Maximum O.D.	1.32 in. (3.35 cm)
Filter Area	37.69 sq. in. (243 sq. cm)
Body Material	1 in. PVC
Pore Diameter	70 micron
Permeability	$3 \times 10^{-4}$ m/s (low air entry)

Accepts 1 in., 0.75 in. and 0.5 in. PVC solvent weld riser pipe. Non standard types of riser fittings may be provided on request. Custom sizes and options are available, contact RST for details.

## ordering info

SIZE	PART #
5.24 cm (6")	PP0306
30.48 cm (12")	PP0312
45.72 cm (18")	PP0318
60.96 cm (24")	PP0324
152.4 cm (60") (for 1.5 in. pipe: larger inner volume to allow more sampling)	PP0360-1.5

Custom sizes and options are available, contact RST Instruments for more details.

## optional equipment

- 1.0, 0.75, or 0.5 in. riser pipe
- Bentonite pellets
- Protective enclosures
- Bubbler readout systems
- Water level meter



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## applications

Monitoring of pore pressures in dams and embankments.

Slope stability investigation and leachate extraction.

Groundwater sampling, monitoring, dewatering and drainage operations.

## features

The flush body design, permits a 33% larger filter area than 0.75 in. externally coupled instruments, while maintaining the same outside diameter.

A unique two step internal bushing, will accept either 0.5 in. or 0.75 in. riser pipes while the body will accept a 1.0 in. coupling. The same tip, therefore, will fit all three common sizes of risers.

Optional model for larger 1.5 in. pipe.

The large number of uniform pores permits high permeability in a short length.

Smooth and protected filter element resists clogging.

Uniform 70 micron porosity.

May be cleaned by back flushing.

Excellent chemical resistance.

Low cost, with same day delivery.

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