

## PINHOLE TEST APPARATUS

STANDARDS: BS 1377:5, ASTM D4647

Certain fine-grained soils with high sodium content are highly erodible by the water flowing through them. During the test the flow of water under a high hydraulic gradient through a cavity in the soil is reproduced.

Pinhole Test Apparatus is used for evaluating clay soils for erodibility by flowing water through a small hole that is drilled through the compacted specimen.

The apparatus consists of a cylindrical metal container fitted one end with a water inlet and the other end with an outlet connection, a standpipe tube with scale and a stand to support the apparatus.

Constant Level Tank should be ordered separately.

### Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)
HR-S7725	Pinhole Test Apparatus	15x20x120	4

### Spare Parts & Accessories:

Product Code	Product Name
HR-S7725/1	Cylindrical Metal Container
HR-S7725/2	PVC Tubing, Ø 10x8 mm, 10 m Coil
HR-S7725/3	Stand
HR-S7725/4	Constant Level Tank

HR-S7725



## CONSOLIDATION TEST SET

STANDARDS: ASTM D2435, D3877, D4546, AASHTO T216, CEN ISO/TS 17892-5, BS 1377:5

The one-dimensional consolidation test of a soil sample enables to ascertain the settlement characteristic over a given period of time. Loads are applied with progressive increases and the settlement values are read on a dial gauge.

Tests are carried out on specimens prepared from undisturbed samples. Data obtained from these tests together with classification data and a knowledge of the soils loading history, enables estimates to be made of the behavior of foundations under load.

The High Pressure Consolidation Test Set is complete with Front Loading Oedometer, Bench for 3 Consolidation Oedometer, Ø50 mm Consolidation Cell, 10x0,01 mm Analog Dial Gauge and 64 Kg Set of Weights.

The ASTM Consolidation Test Set is complete with Front Loading Oedometer, Bench for 3 Consolidation Oedometer, Ø63,5 mm Consolidation Cell, 10x0,01 mm Analog Dial Gauge and 64 Kg Set of Weights.

The BS/EN Consolidation Test Set is complete with Front Loading Oedometer, Bench for 3 Consolidation Oedometer, Ø75 mm Consolidation Cell, 10x0,01 mm Analog Dial Gauge and 80 Kg Set of Weights.

The other accessories are optional.

The Front Loading Oedometer is rigidly manufactured from aluminum alloy casting to provide a high degree of accuracy with any frame distortions under load. The frame is designed to load the specimen through a lever arm assembly and one of three alternative beam ratios as 9:1, 10:1 and 11:1. The beam is fitted with a counter balance weight and beam support jack. The cell platform will accept the complete range consolidation cells and is fitted with a central spigot to ensure accurate centering of the cell under the loading.

The fixed ring Consolidation Cells are manufactured from corrosion-resistant materials and conform to the requirements of the relevant standards. All cells are supplied complete with Upper and Lower Porous Disc, Pressure Pad and Cutting (Specimen) Ring. Any Consolidation Cells are listed below can be chosen.



HR-S9000