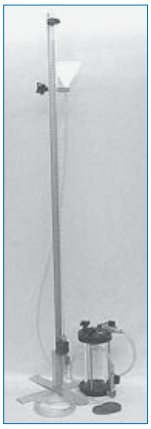
Constant/Falling Head Permeameter


S-446XX

The chamber is one piece acrylic to permit viewing of the sample during the test. Sample lengths are easily changed for constant or falling head tests by the use of a spacer that attaches to the top cap spring. This spring is positioned to apply 5-10 lbf against the top stone or screen to prevent soil density changes during the test.

End caps and clamping ring are anodized aluminum. Each chamber is equipped with valves; either porous stones or perforated screens, depending on the diameter; and tubing for connection to a water source, vacuum and manometer tubes.

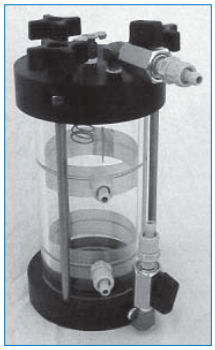
The manometer tube, scale and permeameter base are attached to a platform creating a compact and portable unit.

An adjustable constant head reservoir (not shown) mounts to the upright scale and can be easily removed. All tubing connections are included.

ORDERING INFORMATION		
S-44610	Constant/Falling Head Permeameter, for 2½ in samples	11.0 lb
S-44620	Constant/Falling Head Permeameter, for 3 in samples	13.0 lb
S-44630	Constant/Falling Head Permeameter, for 4½ in samples	15.0 lb
S-44640	Constant/Falling Head Permeameter, for 6 in samples	18.0 lb
S-44650	Constant/Falling Head Permeameter, for 9 in samples	20.0 lb

Sand / Gravel Permeameter

ASTM D 2434 **AASHTO T 215**

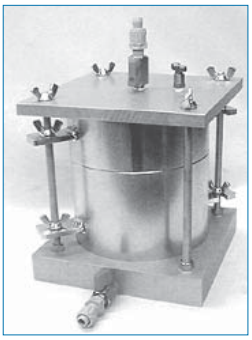

S-486XX

Same as the above Constant / Falling Head Permeameter except the The Sand / Gravel Permeameter features two manometer ports that are grooved and screened on the inside. All tubing connections included. Manometer tube not included (sold separately).

S-48625	Sand / Gravel Permeameter w/ ports, for 2.5 in samples	11 lb
S-486	Sand / Gravel Permeameter w/ ports, for 3 in samples	13 lb
S-48645	Sand / Gravel Permeameter w/ ports, for 4.5 in samples	15 lb
S-48660	Sand / Gravel Permeameter w/ ports, for 6 in samples	18 lb
S-48090	Sand / Gravel Permeameter w/ ports, for 9 in samples	20 lb
Related Items		
S-488	Manometer, wall mount w/ constant head tank, tubing and valves	
S-577	Sliding weight hammer	

For caps and pedestals, porous stones, membranes and more, visit **www.DGSI.info/3090**

Compaction Permeameter


S-48504

The Compaction Permeameter uses standard 4-in and 6-in compaction molds for falling or constant head permeability tests. The top and base are made from anodized aluminum and have shut off valves. The top also has an air bleed valve. The steel mold and collar are plated. They are supplied with a porous stone and sealing rings. Manometer tube not included (sold separately).

S-48504	Compaction Permeameter, 4 in	15.0 lb
S-48506	Compaction Permeameter, 6 in	19.0 lb

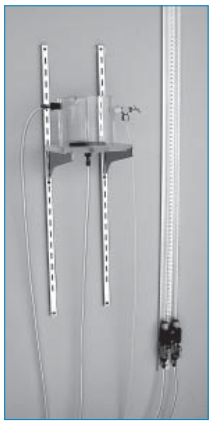
Shelby Tube Permeameter

S-487

Designed to use a 6-in section of a standard 3-in diameter Shelby tube. Ideal for testing loose sands and other materials that may be difficult to transfer to a standard permeability cell. It comes with anodized aluminium end caps, each fitted with a valve and porous stones with “O” rings to provide a leak free seal. Manometer tube not included (sold separately).

S-487	Shelby Tube Permeameter for 3 x 6 in tube	11 lb
Related Item		
S-488	Manometer, wall mount w/ constant head tank, tubing and valves	

Wall Mount Manometer with Constant Head Tank


(L) Constant Head Tank
(R) Manometer, S-488

Acrylic tank with a regulating valve for flow control of water and a porous media on the bottom to filter out air bubbles. The unit maintains a constant water head by utilizing an overflow port. It also allows connection to a tap water line or deaired water source. Equipped with a saddle valve and necessary tubing for connection to a water source and the test chamber. The manometer panel features two acrylic tubes with valving on an aluminum rail and a 100 cm scale. Each tube has its own valve making it possible to run two independent permeability tests.

S-488	Wall Mount Manometer w/ constant head tank, tubing and valves	
Related Item		
S-577	Sliding weight hammer	

Double Ring Infiltrometer Set

ASTM* D 3385 *** See Standards Buyer's Guide at www.DGSI.info/3000.**

The unit consists of two stainless steel rings measuring 12- and 24-in diameter x 20 in high. The rings incorporate a double thickness, welded top edge for increased stability when driving into the soil.

Also included is a 1/2-in thick aluminum driving cap (that serves as the cover when testing) with centering pins that ensure a simplified setup, two 6 in square neoprene splash guards and two Mariotte tubes with 3,000 ml and 10,000 ml capacities.

S-475, Double Ring Infiltrometer Set

S-475	Double Ring Infiltrometer Set	90.0 lb

Set Includes:

Rings, driving caps, mariotte tubes, depth gauges, metal tamper, splash guards and complete instructions.

Specifications for Double Ring Infiltrometer Set	
Rings:	Stainless steel; two included, 12 in I.D. x 20 in high and 24 in I.D. x 20 in high
Driving Caps:	Aluminum; two included, ½ in thick; with centering pins
Splash Guards:	Neoprene; four included; 6 in square
Mariotte Tubes:	Graduated; two included; 3,000 ml and 10,000 ml capacities. Tubing included

Pin Hole Dispersion Device

ASTM D 4647

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

The test chamber has a unique clamping ring for holding the stainless steel mold to the base while compacting the sample. Included with the chamber are screens, base stand, constant head reservoir, tubing, connections, pipette and a tool for drilling the pinhole. The end cap has a pilot hole for drilling the 1.0 mm (.040") hole through the sample.

All aluminum parts are anodized for corrosion resistance.

S-482

S-482	Pin Hole Dispersion Device

Download data sheets, manuals, and technical notes from **www.durhamgeo.com**