



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

This wishlist was generated on 02/11/2016, and contains the following Products:

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25-3518/01

**Digital Tritest 50 Load Frame**

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25-4117

**70mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.**

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25-4157

**100mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.**

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25-4174

**50mm Base Adaptors for 70mm Cells.**

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**100 mm Base Adaptor for 100 mm Triaxial Cell.**

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25-5561

**Porous Disc 50mm Pack of 2**

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**Pressure Pad 50mm Diameter.**

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25-7661

**Porous Disc 100mm Diameter Pack of 2.**

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**Rubber Membrane 50mm Diameter Pack of 10.**

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**100 mm Membrane Testers**

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**Membrane Sealing Rings 2.8"**

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25-5470

## Membrane Placing Tool 50mm Diameter.

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25-4520

**Valve No Volume Change 1/4 Inch BSp Fitted with 6 mm Connector and Integral Sealing Ring.**

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25-5530

**Two Part Split Mould 50mm**

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25-6580

**Filter Paper Drain 70mm/2.8 inch Diameter. Pack of 50.**

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25-7670

**Filter Paper Drain 100mm/4 inch Diameter. Pack of 50.**

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88-3115

**High Vacuum Grease**

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25-4210

**Dial Gauge 25mm Travel X 0.01mm Divisions**

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78-0460

**Clamped Boss Load Ring - 10.0 kN**

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**Digital Pressure Gauge 1700Kpa. for Ele Triaxial Cells.**

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24-4867/02

**Hydrometer Jar Bath 110vAC**

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24-4132/02

**Mechanical Analysis Stirrer 120vAC**

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88-6610

**Plastic Dispensing Bottle - 250 ml Capacity**

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88-7202

**Plastic Funnel - 4" top diam.**

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**Straight Edge 300mm.**

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25-0580

**Constant Head Permeability Cell 75mm Diameter Specimen.**

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25-0591

**Manometer Tubes & Stand.**

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**Constant Head Tank System**

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**Tamping Rod 3/8" Diameter**

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25-0605

**Falling Head Permeability Cell.**

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## Digital Tritest 50 Load Frame

Code: [25-3518/01](#)

Product Group: [Digital Tritest 50 Load Frame](#), [CBR Load Frames](#), [Triaxial Load Frames](#)

- Microprocessor control
- Large on-board LED screen display
- Direct entry via a touch sensitive keyboard
- Rapid approach and return to datum of platen
- Fully variable speed, 0.00001 to 9.99999 mm/min
- Samples up to 100 mm diameter

This 50 kN capacity machine, designed primarily for triaxial testing of soil specimens up to 100 mm diameter x 200 mm long, comprises a rigid twin column construction with an integral fully variable microprocessor controlled drive unit and LCD display with a touch sensitive keyboard. The machine is normally bench mounted for ease of installation and operation.

The use of a microprocessor controlled drive system and keyboard entry provides the Digital Tritest 50 with a wide variety of features which include pause and speed reset during test, RS 232C, operator programming of speed and control functions, self test diagnostics and many other features.

A robustly constructed steel case houses the motor drive system with careful attention being given to the prevention of ingress of water or grit. All operating controls are mounted on the front panel of the machine, which is angled and recessed to prevent physical and environmental damage.

## Standards

BS 1377-7, BS 1377-8, BS 1924-2, ASTM D1883, ASTM D2166, ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T99, AASHTO T134, AASHTO T135, AASHTO T136, AASHTO T180, AASHTO T193, AASHTO T208, AASHTO T296, AASHTO T297

## Further Information

Complete with RS 232C interface.

## Specification

Capacity	50kN (11,200 lbf).
Speed Range	English mode: 0.000001 to 0.399999 in/min. Metric mode: 0.00001 to 9.99999 mm/min.
Rapid Approach Speed	1.0 in/min. (25 mm/min.).

# Product Sheet

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Platen Travel	100mm (3.9"); limit switch protection.
Platen Diameter	133 mm (5.2")
Vertical Clearance	910 mm, (36 .8") maximum; 305mm, (12") minimum.
Horizontal Clearance	364mm, (15 .3").
Serial Interface	RS232C; programmable baud rate and protocol.
Overall Dimensions	500 x 500 x 1,470 mm, (19.7" w. x 19.7" d. x 57.8" h).
Weight	Net 100kg (220 lbs); Shpg. 136kg (300 lbs).





## 70mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

Code: [25-4117](#)

Product Group: [Triaxial Cell](#), [Triaxial Cells](#)

- Working pressure up to 1700 kPa
- All round visibility
- Sample sizes 38 to 100 mm diameter
- Rapid assembly and dismantling
- Accepts a range of interchangeable submersible load transducers

This range of precision made triaxial cells has been designed to meet the requirements of the modern soils laboratory. The cells have been treated to minimise corrosion. Particular attention has been paid to the quality of finish between the piston and the head. Final assembly includes the fitting of an O-ring seal and the use of special lubricant to reduce friction to a minimum and eliminate water leakage.

The piston load capacity is designed to accept high horizontal forces which may be present during the final stages of a test. Each cell has five take-off positions drilled in the base for top drainage/back pressure, pore water pressure and bottom drainage. Two no-volume change valves and an anvil for strain gauge/transducer datum are supplied for fitting to the cell.

A feature of these cells is that they all accept a single diameter piston. The internal height is such that a range of submersible load transducers can be fitted without any modification. Each cell will accept a range of base adaptors and various accessories for testing a wide range of specimens

## Standards

BS 1377, ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297

## Specification

Cell size	70 mm
Max specimen size	70 x 140 mm
Working pressure	1701 kPa
Max piston load	46 kN
Vertical clearance required	430 mm
Horizontal clearance required	180 mm
Weight kg	7.3
Maximum Working Pressure	25 0 psi (1,700 kPa).
Maximum Piston Load	10,100 lbf. (45 kN).

# Product Sheet

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Maximum Specimen Size	2.8" (70 mm) diam. x 5.6" (140 mm) l.
Required Clearance	17" (430 mm) vertical; 7.1" (180 mm) horizontal.
Weights	Net 16 lbs. (7.3 kg).





## 100mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

Code: [25-4157](#)

Product Group: [Triaxial Cell](#), [Triaxial Cells](#)

- Working pressure up to 1700 kPa
- All round visibility
- Sample sizes 38 to 100 mm diameter
- Rapid assembly and dismantling
- Accepts a range of interchangeable submersible load transducers

This range of precision made triaxial cells has been designed to meet the requirements of the modern soils laboratory. The cells have been treated to minimise corrosion. Particular attention has been paid to the quality of finish between the piston and the head. Final assembly includes the fitting of an O-ring seal and the use of special lubricant to reduce friction to a minimum and eliminate water leakage.

The piston load capacity is designed to accept high horizontal forces which may be present during the final stages of a test. Each cell has five take-off positions drilled in the base for top drainage/back pressure, pore water pressure and bottom drainage. Two no-volume change valves and an anvil for strain gauge/transducer datum are supplied for fitting to the cell.

A feature of these cells is that they all accept a single diameter piston. The internal height is such that a range of submersible load transducers can be fitted without any modification. Each cell will accept a range of base adaptors and various accessories for testing a wide range of specimens

## Standards

BS 1377, ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297



## 50mm Base Adaptors for 70mm Cells.

Code: [25-4174](#)

Product Group: [Base Pedestals](#), [Specimen Base Adaptors](#)

50mm Base Adaptor with Twin Pore Pressure Ports for 70mm Cells.

## Standards

BS 1377, ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297



## 100 mm Base Adaptor for 100 mm Triaxial Cell.

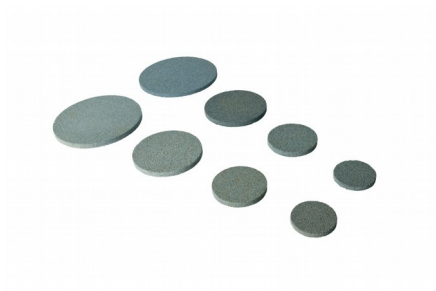
Code: [25-4186](#)

Product Group: [Base Pedestals, Specimen Base Adaptors](#)

100 mm Base Adaptor with Twin Pore Pressure Ports for 100 mm Triaxial Cell.

## Standards

BS 1377, ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297



## Porous Disc 50mm Pack of 2

Code: [25-5561](#)

Product Group: [Accessories for CU/CU effective stress](#), [Porous Stones](#)

50 mm diameter porous disc (Pack Of 2).

## Pressure Pad 50mm Diameter.

Code: [25-5430](#)

Product Group: [Specimen Caps, Pressure Pads](#)

50 mm diameter pressure pad. The pad shall have two empty ports and will come complete with two blanking plugs, plastic tubing and connector. Suitable For both drained and undrained tests.



## Standards

AASHTO T296, AASHTO T297, ASTM D2850, ASTM D4767, ASTM D5084, ASTM D7181



## Porous Disc 100mm Diameter Pack of 2.

Code: [25-7661](#)

Product Group: [Accessories for CU/CU effective stress, Porous Stones, Tri-Flex 2 Permeability Test Cell](#)

100 mm diameter porous disc (Pack of 2).

## Standards

ASTM D2850, ASTM D4767, ASTM D5084, AASHTO T296, AASHTO T297, ASTM D7181

## Pressure Pad 100mm Diameter.

Code: [25-7590](#)

Product Group: [Specimen Caps, Pressure Pads](#)

100 mm diameter pressure pad. The pad shall have two empty ports and will come complete with two blanking plugs, plastic tubing and connector. Suitable For both drained and undrained tests.



## Standards

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297, ASTM D5084





## Rubber Membrane 50mm Diameter Pack of 10.

Code: [25-5441](#)

Product Group: [Rubber Membranes](#)

50 mm diameter rubber membrane (Pack Of 10).

### Standards

AASHTO T296, AASHTO T297, ASTM D2850, ASTM D4767, ASTM D5084, ASTM D7181



## 100 mm Membrane Testers

Code: [25-7623](#)

Product Group: [Membrane Testers](#)



## Membrane Sealing Ring 50mm Diameter Pack of 10.

Code: [25-5461](#)

Product Group: [Membrane Sealing Rings, Sealing Rings](#)

50 mm diameter membrane sealing ring (Pack Of 10).

### Standards

AASHTO T296, AASHTO T297, ASTM D2850, ASTM D4767, ASTM D5084



## Membrane Sealing Rings 2.8"

Code: [25-6641](#)

Product Group: [Sealing Rings](#), [Tri-Flex 2 One-Cell Permeability Test System](#), [Tri-Flex 2 Permeability Test Cell](#)

## Standards

ASTM D2850, ASTM D4767, ASTM D5084, AASHTO T296, AASHTO T297



## Membrane Placing Tool 50mm Diameter.

Code: [25-5470](#)

Product Group: [Membrane Placing Tools, O-Ring Placing Tools](#)

50 mm Diameter Membrane Placing Tool.

## Standards

AASHTO T296, AASHTO T297, ASTM D2850, ASTM D4767, ASTM D5084, ASTM D7181



## Valve No Volume Change 1/4 Inch BSp Fitted with 6 mm Connector and Integral Sealing Ring.

Code: [25-4520](#)

Product Group: [General Cell Accessories,](#)  
[Accessories for CU/CU effective stress](#)

### Standards

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297



## Two Part Split Mould 50mm

Code: [25-5530](#)

Product Group: [Two-way Split Moulds](#), [Two-Part Split Mould](#)





## **Filter Paper Drain 70mm/2.8 inch Diameter. Pack of 50.**

Code: [25-6580](#)

Product Group: [Accessories for CU/CU effective stress, Filter Paper Drains](#)

Filter paper drain 70 mm diameter (Pack Of 50).

### **Standards**

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297



## **Filter Paper Drain 100mm/4 inch Diameter. Pack of 50.**

Code: [25-7670](#)

Product Group: [Accessories for CU/CU effective stress, Filter Paper Drains](#)

Filter paper drain 100 mm diameter (Pack of 50).

### **Standards**

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297



## High Vacuum Grease

Code: [88-3115](#)

Product Group: [General Cell Accessories](#), [High Vacuum Pump](#), [Standard Vacuum Pump](#)

5.3 oz. (150 g) tube.



## Dial Gauge 25mm Travel X 0.01mm Divisions

Code: [25-4210](#)

Product Group: [Axial Displacement](#), [Digital Tritest 50 Load Frame](#)

25 mm travel x 0.01 mm

## Standards

BS 1377

## Spares/Consumables



## Dial Indicator - 1.0" Range

Code: [88-4100](#)



## Clamped Boss Load Ring - 10.0 kN

Code: [78-0460](#)

Product Group: [Clamped Boss Load Rings](#), [Digital](#)  
[Tritest 50 Load Frame](#), [Proving Rings](#), [Force](#)  
[measurement](#)

### Specification

Capacity: kN, kgf, lbf	10.0, 1000, 2250
Typical Design sensitivity: N/div, kgf/div, lbf/div	7.7, 0.77, 1.73
Overall height mm	248
Approx weight kg	4.6
Capacity	10 kN
Value of CBR	8% to 40%
Capacity - lbf	2,250
Capacity - kN	10
Capacity - kgf	1,000
Typical Design Sensitivity - lbf/div	1.73
Typical Design Sensitivity - kN/div	7.7
Typical Design Sensitivity - Kgf/div	0.77
Overall Height	9.76" (248 mm)
Approx Weight	10.1 lbs.(4.6 kg)

### Spares/Consumables



#### Spare Dial Indicator for Load Rings

Code: [78-5461](#)



## Digital Pressure Gauge 1700Kpa. for Ele Triaxial Cells.

Code: [27-1620](#)

Product Group: [Oil/Water Constant Pressure System](#),  
[Pressure Measurement](#), [Digital Pressure Gauge](#)

For ELE Triaxial Cells. The Digital Pressure Gauge offers highly accurate pressure measurement and digital readout for ELE triaxial cells.

## Standards

ASTM D2850, ASTM D4767, ASTM D7181, ASTM D5084, AASHTO T296, AASHTO T297

## Specification

Capacity	250 psi (1,700 kPa).
Display	LCD.
Display Units	PSI, kPa, MPa.
Accuracy	Better than 1% of indicated pressure.
Read Rate	Two samples per second.
Power Supply	3 volt battery, CR 2340 type.
Battery Life	1400 hours continuous operation.
Dimensions	2.30" w. x 1.25 " d. x 3.75" h. (59 x 32 x 95 mm.)
Weight	Net 1/4 lb. (125 g).



## Hydrometer Jar Bath 110vAC

Code: [24-4867/02](#)

Product Group: [Hydrometer Jar Bath](#)

### Standards

ASTM D422, AASHTO T88

### Further Information

110vAC, 50/60 Hz, 1Ø.

### Specification

Capacity	8 hydrometer jars.
Construction	Stainless steel tank; enamel finish exterior.
Jar Support	Stainless steel grid.
Temperature Range	Ambient to 60°C (140°F).
Sensitivity	±0.2°C at 20°C (68°F).
Circulating System	Drive pump with motor.
Heating System	Immersion type; 700 watt heater in stainless steel mixing chamber.
Plumbing Ports	Overflow; Drain; Inflow and outflow for cooling system.
Inside Dimensions	37" w x 8" d x 16" h (939 x 203 x 406 mm)
Outside Dimensions	48" w x 11" d x 19" h (1,219 x 279 x 483 mm)
Weight	Net 90 lbs. (41 kg).





## Mechanical Analysis Stirrer 120vAC

Code: [24-4132/02](#)

Product Group: [Mechanical Analysis Stirrer](#)

### Standards

ASTM D422, AASHTO T88

### Further Information

110vAC, 50/60 Hz, 1Ø. 125 Watts

### Specification

Motor	Universal AC-DC; up to 75 cycles; 3-speed selectable.
Speeds at No Load	Low: 13 ,000 rpm. Medium: 16,000 rpm. High: 18,000 rpm.
Housing	Die-cast aluminum; stainless steel front panel; baked enamel finish.
Controls	Rotary speed control switch; on-off switch.
Mixing Paddle	Disc-shaped; nickel-plated steel.
Dispersion Cup	4 stationary baffles, permanently mounted; rounded bottom.
Dimensions	7" w. x 6-1/2" d. x 20" h. (178 x 165 x 508 mm).
Weight	Net 15 lbs. (7 kg).
Motor	Universal AC-DC; up to 75 cycles; 3-speed selectable.
Speeds at No Load	Low: 13 ,000 rpm. Medium: 16,000 rpm. High: 18,000 rpm.
Housing	Die-cast aluminum; stainless steel front panel; baked enamel finish.
Controls	Rotary speed control switch; on-off switch.
Mixing Paddle	Disc-shaped; nickel-plated steel.

# Product Sheet

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Dispersion Cup	4 stationary baffles, permanently mounted; rounded bottom.
Dimensions	7" w. x 6-1/2" d. x 20" h. (178 x 165 x 508 mm).
Weight	Net 15 lbs. (7 kg).

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## Spares/Consumables



### Mixing Paddle

Code: [24-4132/11](#)



### Soil Dispersion Cup

Code: [24-4132/10](#)



## Plastic Dispensing Bottle - 250 ml Capacity

Code: 88-6610

Product Group: Plastic Dispensing Bottles

8 oz. (250 ml) capacity.

### Specification

Material

Conventional polyethylene;  
non-toxic, non-contaminating;  
withstands nearly all chemicals  
at room temperature for 24 hrs.

Temperature Tolerances

176°F (80°C) maximum;  
-148°F (-100°C) brittleness.

Weight

Net 2 oz. (56 g).



## Plastic Funnel - 4" top diam.

Code: [88-7202](#)

Product Group: [Plastic Funnels](#)

4" (102 mm) top diam.; 3" (76 mm) stem.

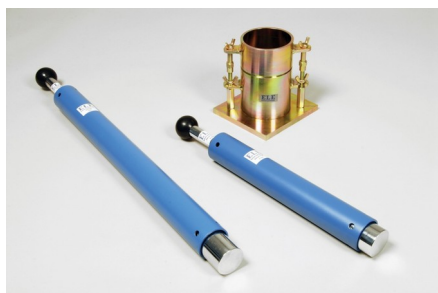
## Specification

### Materials

Conventional polyethylene;  
non-toxic, non-contaminating;  
withstands nearly all chemicals  
at room temperature for 24 hrs.

### Temperature Tolerances

176°F (80°C) maximum;  
-148°F (-100°C) brittleness.



## Straight Edge 300mm.

Code: [24-9010](#)

Product Group: [BS/EN compaction test 4.5kg, Proctor compaction, Straightedge](#)

300 mm

## Standards

BS 1377-4, BS 1924-2, ASTM D698, ASTM D1557, AASHTO T99, EN 13286-2, EN 13286-4, ASTM D1883, AASHTO T193, ASTM D558, ASTM D559, ASTM D560, AASHTO T134, AASHTO T135, AASHTO T136, AASHTO T180

## Specification

Construction	Flat ground tool steel; beveled edge.
Dimensions	L x W x T (300mm x 40mm x 6mm).
Weight	550g



## Constant Head Permeability Cell 75mm Diameter Specimen.

Code: [25-0580](#)

Product Group: [Constant Head Apparatus](#)

75 mm Diameter

## Standards

BS 1377-5

## Specification

Nominal Cell inside diameter	75 mm
Cell wall	Transparent plastic
Take-off points	3
End plates	Anodised aluminium
Weight kg	2.6



## Manometer Tubes & Stand.

Code: [25-0591](#)

Product Group: [Constant Head Apparatus](#)

Comprising three glass tubes of constant bore, metre scale and connecting tubing for cell pressure take-off points, all mounted on a free-standing panel. Comprising three glass tubes of constant bore, metre scale and connecting tubing for cell pressure take-off points, all mounted on a free-standing panel.

## Standards

BS 1377-5





## Constant Head Tank System

Code: [25-0568](#)

Product Group: [Constant Head Sand/Gravel Permeameters](#), [Constant Head Tank System](#)

## Standards

ASTM D2434

## Specification

Tank	1000 cc. capacity, Clear acrylic with regulating valve.
Other Components	Wall mount, tubing and saddle valve.
Weights	Net 8 lbs. (3.6 kg).



## Tamping Rod 3/8" Diameter

Code: [34-0134](#)

Product Group: [Tamping Rods](#)

Ungraduated.

## Standards

ASTM C31, ASTM C124, ASTM C138, ASTM C143, ASTM C157, ASTM C192, ASTM C232, ASTM C234, AASHTO T23, AASHTO T119, AASHTO T120, AASHTO T121, ASTM T126, AASHTO T158, AASHTO T159, AASHTO T160

## Specification

Dimensions

3/8" (10 mm) diam. X 12" (305 mm) long; with one hemispherical end.

Weight

Net 0.37 lb (168 g)



## Falling Head Permeability Cell.

Code: [25-0605](#)

Product Group: [Falling Head Apparatus](#)

## Specification

Cell	Plated seamless tube 100 mm diameter x 130 mm height
Base	Porous plate with three tie rods
Top plate	Machined to accept smaller tubes
Weight kg	3.4