

TRIAXIAL CELLS FOR SPECIMENS UP TO 100 MM DIA.

General description and specifications

The cell essentially consists of a transparent polycarbonate chamber, which has a piston assembly fitted to the top and a double flange base fitted to the bottom. Three simple thumbscrews are used to clamp the upper part of the cell to the base, which make assembly and disassembly a very quick and simple operation.

The base of the cell has four inlet points for top drainage/back pressure, cell pressure and bottom drainage/pore water pressure. Two of these are supplied with special no-volume change valves.

The cell can receive the submersible transducer (see model 28-T0418 series), base adaptors, plinths, top caps, porous discs, rubber membranes and sealing rings (not included). See accessories.



28-T0420/9

Triaxial cells

Code	28-T0410/A	28-T0411/A	28-T0416/A
Max. specimen size (Ø x h mm)	50x100	70x140	100x200
Max. working pressure(kPa)	1700	1700	1700
Max. piston load (kN)	45	45	45
Max. height (mm)	380	440	515
Diameter (mm)	140	174	200
Weight (kg)	4	7.3	14.3



28-T0416/A, 28-T0411/A, 28-T0410/A

TRIAXIAL CELL ACCESSORIES

Specimen base adaptors

Each cell has to be completed with the base adaptor corresponding to the specimen size as shown in the following table. All adaptors are perforated for bottom drainage/pore pressure measurement and are supplied complete with a solid disc for use in undrained tests.

Specimen dia. mm	28-T0410/A Code	28-T0411/A Code	28-T0416/A Code
35	28-T0410/A1	28-T0411/A1	-
38	28-T0410/A2	28-T0411/A2	-
50	28-T0410/A3	28-T0411/A3	-
70	-	28-T0411/A4	28-T0416/A1
100	-	-	28-T0416/A2

HAND SAMPLERS

Comprising cutter, wooden dolly and receiver.

Code (complete set)	Size (dia.xh mm)	Spare cutter tube Code	Spare dolly Code
28-T0420/9	35x70	28-T0420/91	28-T0420/92
28-T0422/9	38x76	28-T0422/91	28-T0422/92
28-T0425/9	50x100	28-T0425/91	28-T0425/92
28-T0428/9	70x140	28-T0428/91	28-T0428/92
28-T0432/9	100x200	28-T0432/91	28-T0432/92

TRIAXIAL CELL ACCESSORIES (CONTINUED)

Description	For specimens				
Base adaptors	Ø 35 mm 28-T0410/A1 ⁽¹⁾ 28-T0411/A1	Ø 38 mm 28-T0410/A2 ⁽¹⁾ 28-T0411/A2	Ø 50 mm 28-T0410/A3 ⁽¹⁾ 28-T0411/A3	Ø 70 mm 28-T0411/A4 ⁽¹⁾ 28-T0416/A1	Ø 100 mm 28-T0416/A2 -
	Code	Code	Code	Code	Code
Plain top cap	28-T0420/A2	28-T0422/A2	28-T0425/A2	28-T0428/A2	28-T0432/A2
Porous top cap	28-T0420/A3	28-T0422/A3	28-T0425/A3	28-T0428/A3	28-T0432/A3
Porous discs (2 pcs)	28-T0420/A4	28-T0422/A4	28-T0425/A4	28-T0428/A4	28-T0432/A4
Rubber membrane (10 pcs)	28-T0420/A5	28-T0422/A5	28-T0425/A5	28-T0428/A5	28-T0432/A5
Sealing ring (10 pcs)	28-T0420/7	28-T0422/7	28-T0425/7	28-T0428/7	28-T0432/7
Membrane stretcher	28-T0420/8	28-T0422/8	28-T0425/8	28-T0428/8	28-T0432/8
Filter paper drains (50 pcs)	28-T0420/A9	28-T0422/A9	28-T0425/A9	28-T0428/A9	28-T0432/A9
Split sand former	28-T0420/A6	28-T0422/A6	28-T0425/A6	28-T0428/A6	28-T0432/A6
O-ring placing tool	28-T0420/10	28-T0422/10	28-T0425/10	28-T0428/10	28-T0432/10
Drainage burette	28-T0420/11	28-T0420/11	28-T0420/11	28-T0420/11	28-T0432/11 ⁽²⁾
No-volume change valve ⁽³⁾	28-T0420/12	28-T0420/12	28-T0420/12	28-T0420/12	28-T0420/12
Split mould	28-T0420/13	28-T0422/13	28-T0425/13	-	-
Spares					
Spare tube and connector for porous top cap	28-T0420/20	28-T0420/20	28-T0420/20	28-T0428/20	28-T0432/20

(1) Depending upon cell model (2) 50 ml model (3) Complete with connection for 6 mm dia. plastic hose

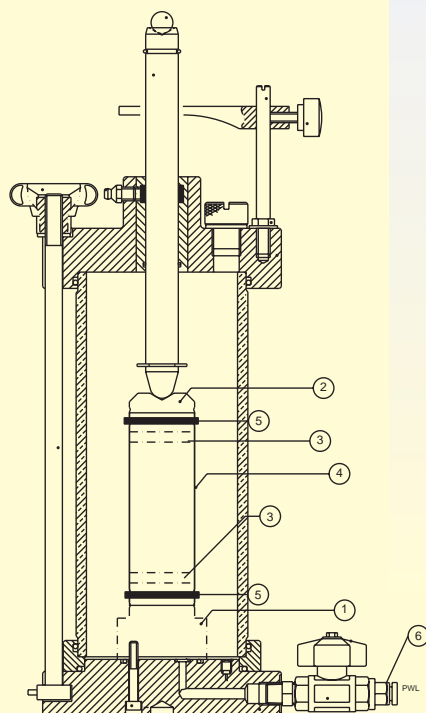
Other accessories

86-D0822 Vaseline oil. 1 kg bottle

86-D0845

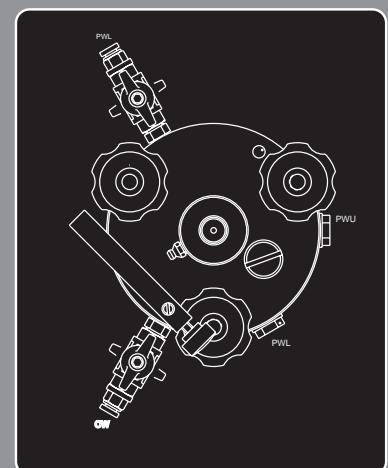
Water-repellent grease. 1 kg box

28-T0420/15 Greaser for triaxial cell



- 1 Base adaptor
- 2 Porous top cap
- 3 Porous disc
- 4 Rubber membrane
- 5 Sealing rings
- 6 No-volume change valve

Top view



TRIAXIAL CELL ACCESSORIES (CONTINUED)

Legend

1 Base adaptor

Used to adapt the triaxial cell for use with the selected sample size. Manufactured from anodised aluminium. Supplied complete with a plain base cap.

2 Porous top cap

Used to evenly apply the loading over the whole cross sectional area of the sample when drainage to the top of the sample is required. Manufactured from a light alloy. Includes a nylon tube and connector for the base drainage line.

3 Porous disc

Used as a filter ensuring that the passage of water into and out of the sample is evenly spread over the whole cross sectional area. Two required.

4 Rubber membrane

Provides a protective water proof sheath around the sample. Made of rubber latex and supplied in packs of 10.

5 Sealing rings

Used to seal the membrane against the plinth and the top cap at either end of the sample. Supplied in packs of 10.

6 Membrane stretcher

Used to pull open the membrane to allow it to be easily placed over the specimen without any disturbance.

7 Filter paper drains

Used as side drains when specimens have low permeability. They are particularly useful when saturating clays before consolidation and shearing. Pack of 50.

8 Split sand former

A specially designed piece of equipment for use when preparing non-cohesive soils which, otherwise could not be mounted in a triaxial cell. Manufactured from a non-ferrous alloy.

9 Drainage burette. 10 ml

Used to prepare non-cohesive specimens by applying a negative pressure to the base of the specimen and for measuring drainage into and out of the specimen when testing with the specimen open to the atmosphere. Supplied with connections for triaxial cell.

10 O-ring placing tool

To fit the sealing ring with the minimum disturbance to the sample.

11 No-volume change valve

Identical to the two valves supplied with the triaxial cells and used for measuring pore pressure and when fitting the drainage burette.

12 Split mould

Used for trimming the ends of soil specimen.

