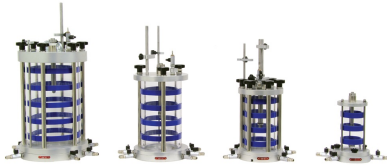


DATA SHEET

Banded Triaxial Cells



Banded triaxial cell

General description

The cell essentially consists of a transparent banded chamber to prevent excessive expansion during the test and to protect against explosive failure when used with compressed air systems.

The design of the cell ensure vertical alignment of the cell ram by clamping the Perspex wall separately from the cell top.

PEDESTAL

Cell code Sample diameter mm	28-WF4050	28-WF4070	28-WF4100	28-WF4150
38	28-WF4031/5	28-WF4031/7	28-WF4031/10	28-WF4031/15
50	28-WF4051/5	28-WF4051/7	28-WF4051/10	28-WF4051/15
70		28-WF4071/7	28-WF4071/10	28-WF4071/15
100			28-WF4101/10	28-WF4101/15
150				28-WF4151/15

TOP CAP, VACUUM TOP CAP and ACCESSORIES

DATA SHEET

	Sample dimension	38	50	70	100	150
1	Top cap	28-WF4032/A	28-WF4052/A	28-WF4072/A	28-WF4102/A	28-1
2	Vacuum top cap*	28-WF4032/AV	28-WF4052/AV	28-WF4072/AV	28-WF4102/AV	28-1
3	Base disc	28-WF4033	28-WF-4053	28-WF4073	28-WF4103	28-1
4	Pair of porous discs	28-WF4034	28-WF4054	28-WF4074	28-WF4104	28-1
5	Membrane, 10 pieces	28-WF4035	28-WF4055	28-WF4075	28-WF4105	28-1
6	O Rings, 10 pieces	28-WF4036	28-WF4056	28-WF4076	28-WF4106	28-1
7	Membrane stretcher	28-WF4031/A	28-WF4051/A	28-WF4071/A	28-WF4101/A	28-1
8	O Ring placing tool	28-WF4031/B	28-WF4051/B	28-WF4071/B	28-WF4101/B	28-1
9	Two parts split mould	28-WF4031/D	28-WF4051/D	28-WF4071/D	28-WF4101/D	28-1
10	Lateral filter drains, pack of 50	28-WF4031/E	28-WF4051/E	28-WF4071/E	28-WF4101/E	28-1
11	Filter discs, pack of 100	28-WF4031/F	28-WF4051/F	28-WF4071/F	28-WF4101/F	28-1
12	Hand sampler	28-WF4031/G	28-WF4051/G	28-WF4071/G	28-WF4101/G	-
13	Two part split former with vacuum attachment	28-WF4031/H	28-WF4051/H	28-WF4071/H	28-WF4101/H	28-1

* Used for stress path and dynamic testing with dedicated triaxial cell with vacuum attachment

Main features

- Light alloy construction, stainless steel ram and O ring seal
- Built-in cell ram clamp
- Includes pillar and anvil for strain dial gauge or transducer
- Five on/off no-volume changes valves fit as standard
- For sample sizes between 38 and 150 mm dia.
- Standard length chambers accepts submersible load cells
- Rapid assembly design
- Cells are designed to accommodate a specimen with a high twice its diameter
- Base adapters, plinths, top caps, porous disc, rubber membranes and sealing rings are not included. See accessories.
- Models **28-WF4070; 28-WF4100; 28-WF4150** with pedestal and top cap can be used also to perform **stress path tests and dynamic test** using a vacuum attachment
- Models **28-WF4070; 28-WF4100; 28-WF4150** can be upgraded with an advanced kit making them compatible with mini on sample transducers and bender elements.

Standards

- BS 1377:6
- BS 1377:7
- ASTM D2850
- ASTM D4767
- ASTM D5084
- BS 1377:8
- ASTM D7181
- EN 17892-8
- EN 17892-9

DATA SHEET

Specifications

Model 28-	WF4050	WF4070	WF4100	WF4150
Nominal size dia. mm	50	70	100	150
Range of spec. size dia. mm	38-50	38-70	38-100	38-150
Max. working pressure kPa	3500	3500	2000	2000
Max. height [mm]	410	670	745	870
Dia. mm (including valves)	350	400	440	650
Weight approx.[kg]	7	15	21	40
Test				
Effective stress/Total stress	x	x	x	x
Stress path		x	x	x
Dynamic test / Extension		x	x	x
On sample/bender elements*		x	x	x

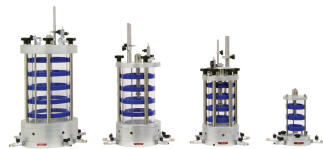
* Requires Advanced upgrading kit



Vacuum attachment mounted on WF4070- WF4100 - WF4150



Advanced triaxial kit allowing use of mini on sample transducers and bender elements WF4070/ADV



Banded triaxial cell mounting the advanced upgrading kit for on sample transducers and bender elements

DATA SHEET



Triaxial sample accessories



Triaxial top cap

Products

28-WF4050

Banded triaxial cell for up to 50mm sample diameter.

28-WF4070

Banded triaxial cell for up to 70mm sample diameter.

28-WF4100

Banded triaxial cell for up to 100mm sample diameter.

28-WF4150

Banded triaxial cell for up to 150mm sample diameter.

Accessories and consumables

28-WF4070/ADV

Advanced upgrading kit for triaxial cell mod. WF4070 allowing use of mini on sample transducers and bender elements.

28-WF4100/ADV

Advanced upgrading kit for triaxial cell mod. WF4100 allowing use of mini on sample transducers and bender elements.

29-WF4005/E

Extension test accessory for rigid connection to the ram of the banded triaxial cell

28-WF4150/ADV

Advanced upgrading kit for triaxial cell mod. WF4150 allowing use of mini on sample transducers and bender elements.