

## BS EN 61386-24 : Particular Requirements —Conduit Systems Buried Underground – Compression Test – Testing Equipment

### Description

#### 10.2 Compression test

Replacement:

10.2.1 Conduits are subjected to a compression test.

NOTE: Compression test on fittings is under consideration

The test for conduits containing non-metallic materials is not started until 10 days after manufacture.

10.2.2 Samples are  $(200 \pm 5)$  mm long.

10.2.3 Before the test, the outside and inside diameters of the samples are measured as specified in Clause 8.

10.2.4 The samples are compressed between two flat steel plates having minimum dimensions  $(100 \times 220 \times 15)$  mm, the length 220 mm being along the length of the sample. The samples are compressed at a rate of  $(15 \pm 0,5)$  mm/min and the load is recorded at the vertical deflection equivalent to 5% of the average value of the original inside diameter of the sample.

10.2.5 When reaching the deflection of 5 %, the applied force shall be at least:

- 250 N for conduits according to 6.1.1.1 ;
- 450 N for conduits according to 6.1.1.2;
- 750 N for conduits according to 6.1.1.3.

NOTE: The deflection is calculated with the inner diameter but the measurement of the outside diameter may be sufficient. In case of doubt, it will be necessary to measure the inner diameter.

10.2.6 After the test, there shall be no crack allowing the ingress of light or water between the inside and the outside.



#### Ring Stiffness Tester According to BS EN 61386-24

- Ball screw movement mechanism
- Double column
- Special compression plates  $100 \times 220 \times 15$  mm

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- USB connection port to the computer
  - Software is based on Windows 7, 8,10
  - Reporting in MS EXCEL
  - Limit switches for safety
  - Chrome coated guide shafts
  - Servomotor actuated
  - Manual hand key included
  - Force capacity up to the customer 20KN, 50KN, 100KN, ....
  - Extensometer depending on size and shape of pipe
  - solid wall pipes don't need internal diameter measurement
  - Double-layer pipes need an internal diameter measurement device for pipes
  - Extensometer range depending on pipe size
  - Software is included in standard delivery
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### Category

1. Equipment for Standards
2. Standards

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