COMPRESSION PLATENS

Compression Spring Test Fixture

Pin-guided fixtures for compression testing of helical springs



OVERVIEW

Fixture for compression testing of helical springs, in which a guide pin centers the spring and prevents buckling during loading. Pin diameter, pin length and machine coupling are chosen to suit the spring being tested. Versions with an outer guide tube and with an insert carrier for interchangeable pins of different diameters are also available.

KEY FEATURES

- Guide pin centers the spring and prevents buckling
- Pin diameter and length made to suit the spring
- Insert carrier version accepts interchangeable pins
- Guide tube version for outer guidance of larger springs
- Steel body; nickel-coated and stainless steel versions
- Female clevis couplings Ø 15.9 mm, 20 mm or 31.8 mm

TECHNICAL SPECIFICATIONS

Max. load	Depends on coupling size (examples: 100 N to 30 kN)
Test type	Compression (springs)
Pin diameter (A)	2 to 43 mm (made to order)
Pin length (B)	20 to 410 mm (made to order)
Coupling (C)	Female clevis Ø 15.9 mm (5/8 in), Ø 20 mm or Ø 31.8 mm (1-1/4 in); others via adapter
Material	Steel; nickel-coated or stainless steel versions
Temperature range	0 to +70 °C (others on request)
Scope of supply	1 fixture

AVAILABLE VERSIONS

Pin Ø 2 × 20 mm	Female clevis Ø 15.9 mm
Pin Ø 3 × 50 mm	Max. 100 N, nickel-coated steel
Pin Ø 6 × 60 mm	Female clevis Ø 15.9 mm
Pin Ø 12 × 290 mm	Female clevis Ø 31.8 mm
Pin Ø 24 × 100 mm	Max. 30 kN
Pin Ø 38 × 210 mm	Max. 3.2 kN, nickel-coated steel

APPLICATIONS

- Helical compression springs
- Automotive and valve springs
- Incoming spring inspection
- Spring rate measurement

Ordering & customization: Specify pin diameter (A), pin length (B), machine coupling (C) and maximum spring force; if unsure, give the spring's inner and outer diameter and free length.

Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-CP-100

Compression Spring Test Fixture

DIMENSIONAL DRAWINGS

FIG. 1

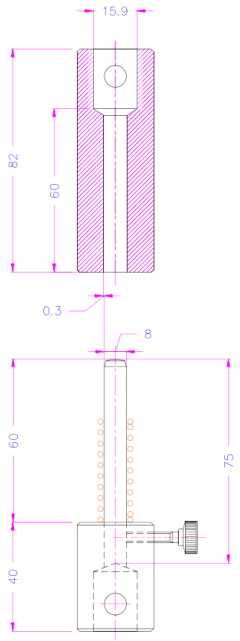


FIG. 2

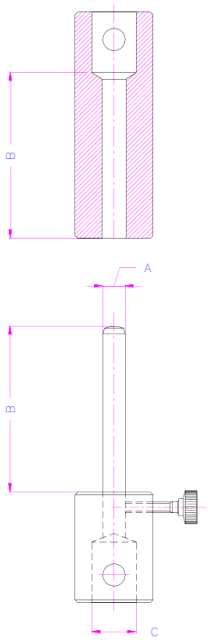
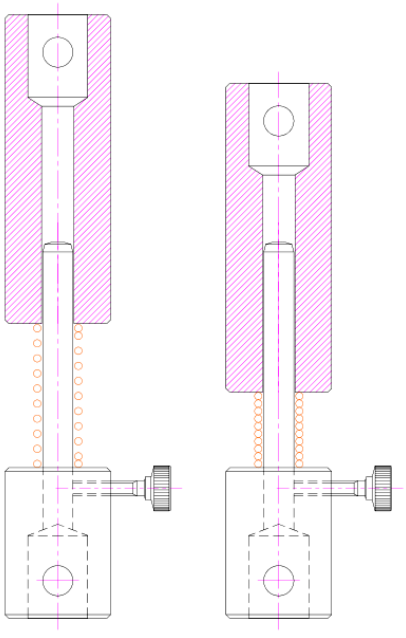


FIG. 3



Dimensions in mm. Drawings are representative of the product family and may show optional versions or accessories; dimensions are for reference only and may change without notice. Certified dimensional drawings and 3D models are available on request.