PUNCTURE FIXTURES

Geomembrane Index Puncture Fixture

Index puncture fixture for geomembranes and geosynthetics to ASTM D4833



OVERVIEW

A puncture fixture for determining the index puncture resistance of geomembranes, geotextiles and related products according to ASTM D4833. The specimen is clamped between rings with a 45 mm opening and punctured by a hardened 8 mm flat-ended probe driven by the testing machine. The maximum force is recorded as the index puncture resistance.

KEY FEATURES

- Built to ASTM D4833, GOST R 56586 and NF P 84-507
- Ring clamp with 45 ± 0.025 mm internal diameter
- Hardened probe, Ø 8 ± 0.1 mm
- Rated 20 kN or 50 kN depending on coupling size
- Nickel-plated steel construction for corrosion resistance
- Pre-cut bolt holes in the specimen recommended for clamping

TECHNICAL SPECIFICATIONS

Max. load	20 kN (Ø 15.9 or 20 mm clevis); 50 kN (Ø 31.8 mm clevis)
Clamping ring	Inside Ø 45 ± 0.025 mm (1.772 ± 0.001 in), outside Ø 100 mm (3.937 in)
Probe	Ø 8 ± 0.1 mm (0.315 ± 0.004 in), hardened
Coupling	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-plated
Temperature range	0 to +70 °C (others on request)
Weight	3.3 kg lower part incl. adapter; 0.68 kg probe
Scope of supply	1 fixture incl. probe

AVAILABLE VERSIONS

20 kN	Female clevis Ø 15.9 mm (5/8 in) or Ø 20 mm
50 kN	Female clevis Ø 31.8 mm (1-1/4 in)

APPLICATIONS

- Geomembranes and liners
- Geotextiles and geosynthetics
- Landfill and civil engineering
- Roofing membranes

STANDARDS ASTM D4833, GOST R 56586, NF P 84-507

Ordering & customization: Specify the machine coupling (which sets the 20 kN or 50 kN rating) and any special temperature range.

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-PF-030

Geomembrane Index Puncture Fixture

DIMENSIONAL DRAWINGS

FIG. 1

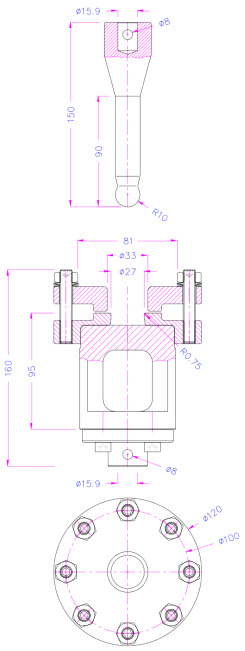


FIG. 2

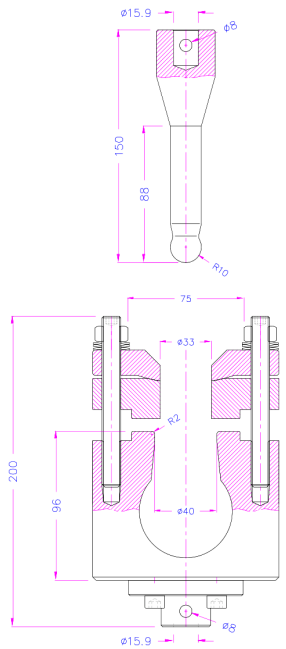


FIG. 3

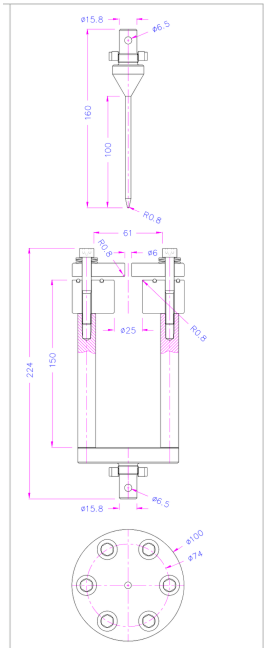
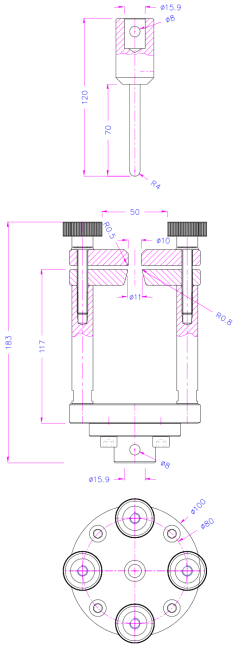


FIG. 4



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.