PUNCTURE FIXTURES

Small Sample Slow Rate Penetration Fixture

Manual clamp fixture for slow rate penetration of barrier films, based on ASTM F1306, for small samples



OVERVIEW

A puncture fixture for measuring the slow rate penetration resistance of flexible barrier films and laminates, based on ASTM F1306 but sized for smaller samples. The film is clamped over a 35 mm opening and penetrated by a probe with a 1.6 mm tip radius at a controlled speed. Strip samples up to 50 mm wide or discs up to 64 mm diameter fit the clamp.

KEY FEATURES

- Based on ASTM F1306, adapted for small samples
- Specimen opening of Ø 35 mm (1.375 in)
- Probe tip radius of 1.6 mm (0.06 in)
- Accepts strips up to 50 mm wide or Ø 64 mm discs
- Manual clamping with 20 kN load capacity
- Version with short clamping handles available

TECHNICAL SPECIFICATIONS

Max. load	20 kN
Test type	Slow rate penetration
Specimen opening	Ø 35 mm (1.375 in)
Probe	Tip radius 1.6 mm (0.06 in)
Specimen size	Strips max. 50 mm wide; discs max. Ø 64 mm
Coupling	Female clevis Ø 15.9 mm (5/8 in) or Ø 20 mm; others on request
Material	Steel, nickel-plated
Temperature range	0 to +70 °C (others on request)
Weight	2.1 kg incl. probe

AVAILABLE VERSIONS

Standard	Long clamping handles, 20 kN
Short handles	Compact version, 10 kN

APPLICATIONS

- Barrier films
- Food packaging laminates
- Medical packaging
- Film R&D

STANDARDS ASTM F1306 (adapted for small samples)

Ordering & customization: Specify sample format (strip or disc), the machine coupling and handle version.

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-090

UGC-PF-090

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DIMENSIONAL DRAWINGS

FIG. 1

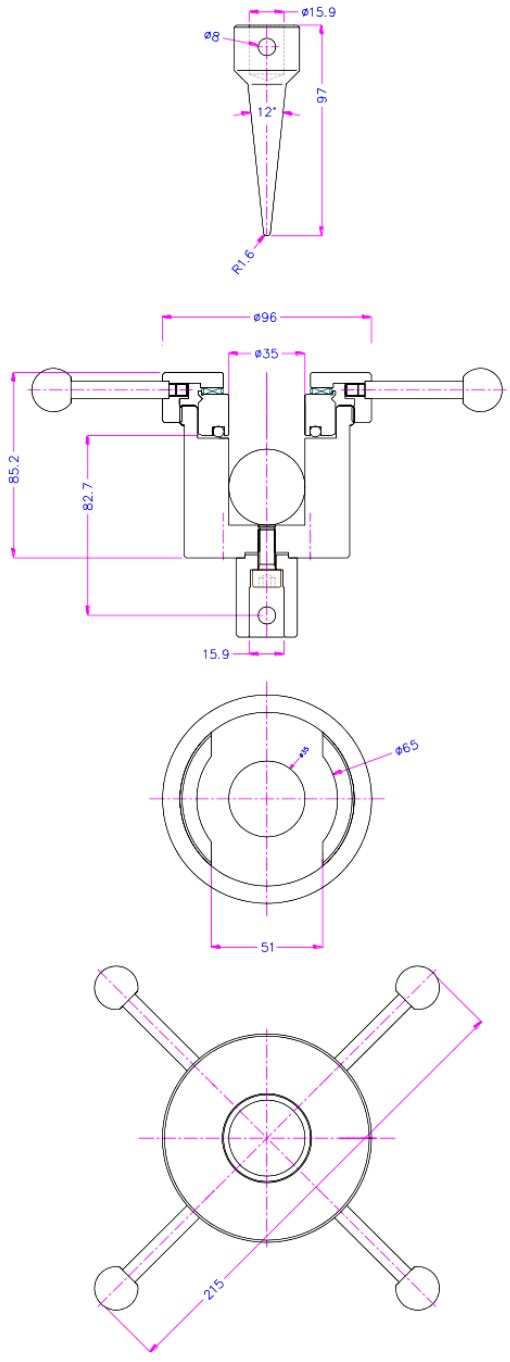
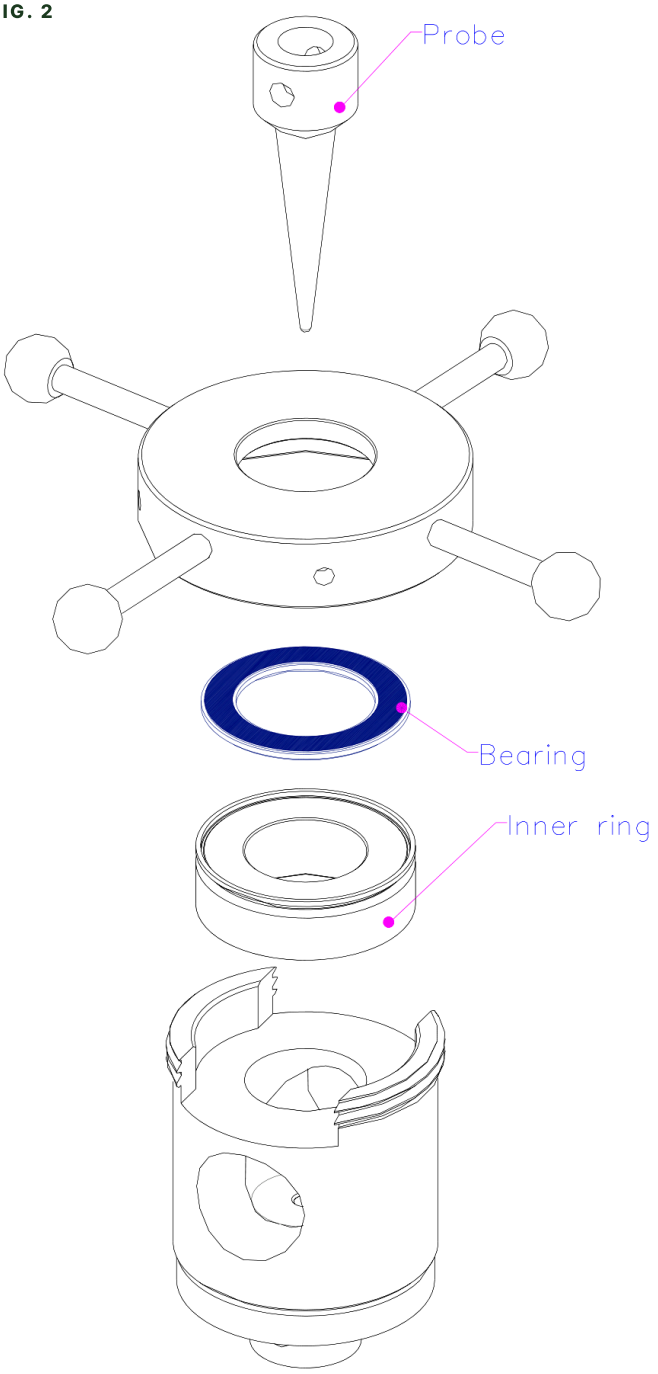


FIG. 2



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.