PUNCTURE FIXTURES

Pneumatic Barrier Film Penetration Fixture

Pneumatically clamped fixture for slow rate penetration of flexible barrier films to ASTM F1306



OVERVIEW

A puncture fixture for slow rate penetration resistance of flexible barrier films and laminates according to ASTM F1306. A pneumatic cylinder clamps the film with up to 5 kN at 7 bar to prevent slip, and a probe with a 1.6 mm tip radius penetrates it through a 35 mm opening. Pneumatic clamping gives uniform, operator-independent clamping force from test to test.

KEY FEATURES

- Built to ASTM F1306 for flexible barrier films
- Pneumatic clamping, 5 kN at 7 bar (9 kN at 12 bar)
- Specimen opening of Ø 35 mm (1.375 in)
- Probe tip radius of 1.6 mm (0.06 in)
- Repeatable clamping force independent of the operator
- Versions for EN 14477 and larger openings available

TECHNICAL SPECIFICATIONS

Max. vertical load	3 kN
Clamping force	5 kN at 7 bar (9 kN at 12 bar)
Specimen opening	Ø 35 mm (1.375 in)
Probe	Tip radius 1.6 mm (0.06 in)
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin; others on request
Operation	Pneumatic clamping
Material	Steel, nickel-plated
Temperature range	0 to +70 °C (others on request)
Weight	5.2 kg

AVAILABLE VERSIONS

ASTM F1306	Ø 35 mm opening, 1.6 mm probe radius
EN 14477	Ø 10 mm opening, clamping 5 kN at 7 bar (11 kN at 16 bar)
Large opening	Ø 45 mm ring, 2 mm probe radius

APPLICATIONS

- Barrier films and laminates
- Food and medical packaging
- Flexible pouches
- Film quality control

STANDARDS ASTM F1306

Ordering & customization: Specify the standard and opening size, available air pressure and the machine coupling.

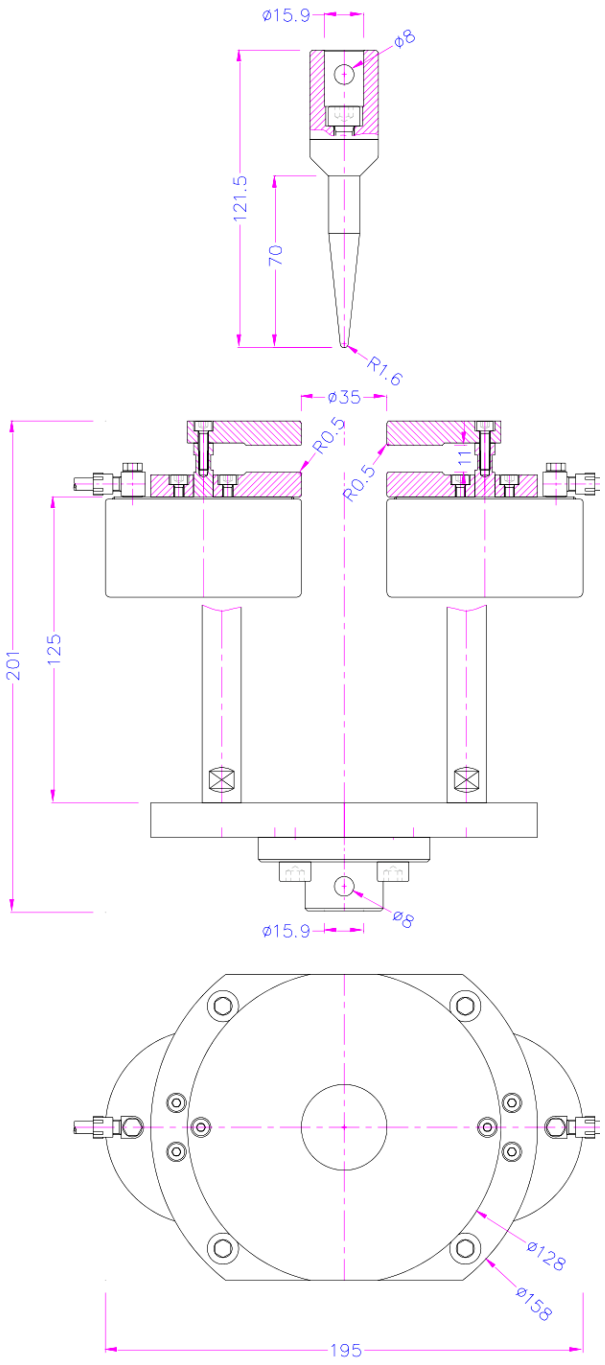
Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

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-100

Pneumatic Barrier Film Penetration Fixture

DIMENSIONAL DRAWINGS

FIG. 1



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.