PUNCTURE FIXTURES

Fabric Stiffness Puncture Fixture

Circular bend fixture for fabric stiffness to ASTM D4032



OVERVIEW

A puncture-type fixture for determining the stiffness of fabrics by the circular bend procedure according to ASTM D4032. The fabric is laid over a platform with a 38.1 mm orifice and pushed through by a flat 25.4 mm plunger. The maximum force reflects the combined bending resistance of the fabric in all directions and is used to assess hand and drape.

KEY FEATURES

- Built to the ASTM D4032 circular bend procedure
- Ø 38.1 mm orifice on an 80 mm high platform
- Flat-ended plunger of Ø 25.4 mm
- Nickel-plated steel construction for corrosion resistance
- Compact 2.2 kg fixture with clevis coupling
- Smaller variant with Ø 19 mm orifice available

TECHNICAL SPECIFICATIONS

Max. load	20 kN
Test type	Circular bend stiffness
Orifice	Ø 38.1 mm
Platform height	80 mm
Plunger	Ø 25.4 mm, flat
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin; others on request
Material	Steel, nickel-plated
Temperature range	0 to +70 °C (others on request)
Weight	2.2 kg

AVAILABLE VERSIONS

ASTM D4032	Orifice Ø 38.1 mm, plunger Ø 25.4 mm
Reduced size	Orifice Ø 19 mm, plunger Ø 12.7 mm (similar to ASTM D4032)

APPLICATIONS

- Woven and knitted fabrics
- Nonwoven fabrics
- Coated fabrics
- Textile hand evaluation

STANDARDS ASTM D4032

Ordering & customization: Specify standard or reduced orifice size and the machine coupling.

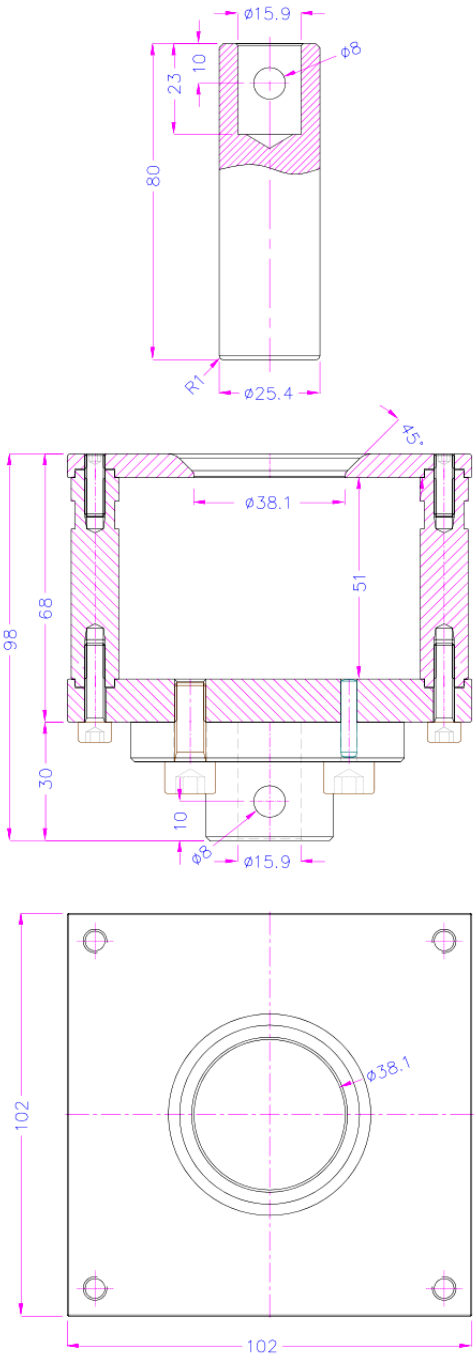
Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

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-120

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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.