

10 N Advantage™ Pneumatic Grips



The MTS 2 lbf. (10 N) Pneumatic Grips are designed for low force tensile applications and work particularly well on thin specimens with low breaking strengths like the gold wire in electronics, tungsten wire, thermocouples, gels and plastic films.

Features include minimal side load, self alignment and lightweight design. The lightweight design lets you perform tests with your low force load cell without worrying about the grip weight taking up too much of your load cell's capacity. And, self alignment, even when the grips are fully actuated, saves you time and effort.

These grips feature faces that are both dual acting and can swivel. With dual action, both faces move simultaneously to the centerline of the grip and eliminate the bending strains on your specimen that can invalidate your test results. The ability to swivel lets these faces conform to any variations in your specimen's geometry.

These pneumatic grips require an air grip controller and an air grip supply to provide dry, filtered air. They are designed to operate in temperatures of -40° F to 400°F (-40°C to 200°C).



Features

No Side Loads

- Through design and machining to precise tolerances, side loads are eliminated.

Eliminates Guesswork

- These grips are self aligning even while actuated.
- Previous adjustments are not lost when small changes in alignment are required.

Constant Clamping Force

- A constant clamping force protects your specimens from damage during your tests.

Swivel Faces

- These grips can accommodate varying specimen widths.

Convenience

- Pneumatic grips that offer you enough room to manipulate your specimens.

Specifications

Part Number

►100-032-017

Capacity

►10 N (2 lbs.)

Air Pressure

►5.5 bar (80 psi)

Dimensions

►72 mm (2.8 in) W x 147 mm (5.8 in) H

Clamping Force

►31 N (7 lbf)

Upper Grip Weight

►270 grams (0.6 lbs)

Maximum Specimen Thickness

►5 mm (0.2 in)

Also Required

Pneumatic Control

►Both models require an air grip supply to provide dry, filtered air and an air grip controller for operation. This control features a foot operated switch which lets you control the grips and keep both hands free for specimen alignment.

Adapters

►The upper grip requires a Type B (1/2 in.) adapter and the bottom grip requires a Type D (1-1/4 in.) adapter.

Options

Grip Faces With A Variety Of Surface Coatings

►Choose the face surface that works best on the type of material you're testing. All of these faces are manufactured in sets of four and must be purchased that way.

Serrated

►Does an excellent job of gripping soft materials like plastics without causing failure.

Rubber Coated

►When you want extra protection for fragile specimens like fibers, thin films and sheets.

Line Contacts

►Line contacts are also available for these low capacity grips.

Faces for 2 lb. grips

Wedge Surface	Height	Dimensions	
		Length	Part Number
Smooth	10 mm (.394 in)	15 mm (.59 in)	056-163-701
Serrated	10 mm (.394 in)	15 mm (.59 in)	056-163-702
Rubber	10 mm (.394 in)	15 mm (.59 in)	056-163-703



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