ROPE GRIPS

Pneumatic Bollard Grips

Pneumatic bollard grips for fibers, yarns, cords and fine wires, 200 N to 10 kN



OVERVIEW

Pneumatic bollard grips for tensile tests on fibers, filaments, yarns, cords, strands and fine wires. The specimen is wrapped 180° around the bollard, guided by a horn with centering groove, and clamped pneumatically; the bollard relieves tension gradually so the specimen does not break at the jaws. Four sizes cover 200 N to 10 kN.

KEY FEATURES

- 180° bollard wrap prevents breaks in the clamping area
- Guide horn with centering groove for repeatable specimen position
- Pneumatic clamping for constant, operator-independent jaw force
- Four sizes from 200 N to 10 kN
- Blank, pyramid, rubber-faced and diamond-faced jaws
- Anodized aluminum or stainless steel bollards

TECHNICAL SPECIFICATIONS

Max. load	200 N, 2 kN, 5 kN or 10 kN
Clamping force	0.9 kN to 14 kN at 7 bar; up to 33 kN at 16 bar
Specimen diameter	0-2 mm, 0-6 mm or 0-8 mm (by size)
Min. specimen length	15 cm, 25 cm or 30 cm (by size)
Jaw clamping surface	20 × 6 mm, 36 × 12 mm or 44 × 15 mm
Body / bollard	Aluminum, anodized; bollard anodized aluminum or stainless steel
Coupling	Female clevis Ø 8 mm (200 N) or Ø 15.9 mm (5/8 in); others on request
Pneumatic connection	M3 (200 N, adapter to 1/8 in available) or M5
Temperature range	-10 to 80 °C; rubber-faced jaws max. 70 °C

AVAILABLE VERSIONS

200 N	Fibers, filaments; clamping 0.9 kN at 7 bar; 0.15 kg
2 kN, aluminum bollard	Yarns, cords; clamping 6 kN at 7 bar; 1.13 kg
2 kN, stainless steel bollard	Stronger version; clamping 13 kN at 16 bar; 1.25 kg
5 kN	Yarns, cords, strands; clamping 6 kN at 7 bar; 1.82 kg
10 kN	Wires, strands, cords; stainless bollard R3; clamping 14 kN at 7 bar; 2.22 kg
Jaw sets	Blank, pyramid, rubber-faced or diamond-faced; 2 jaws per set

APPLICATIONS

- Textile fibers and yarns
- Glass and technical fibers
- Cords and strands
- Fine wires

Ordering & customization: Specify the tensile capacity, specimen type and diameter, bollard material, jaw surface, coupling and any pneumatic accessories (foot pedals, hand switches, pressure regulator).

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-RP-040

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DIMENSIONAL DRAWINGS

FIG. 1

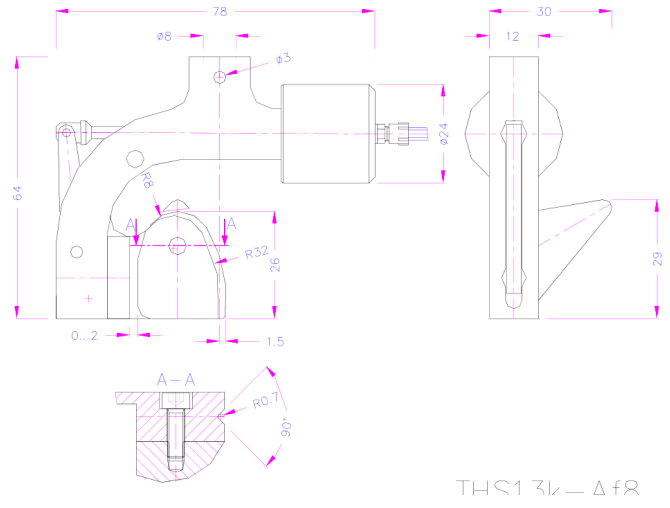


FIG. 2

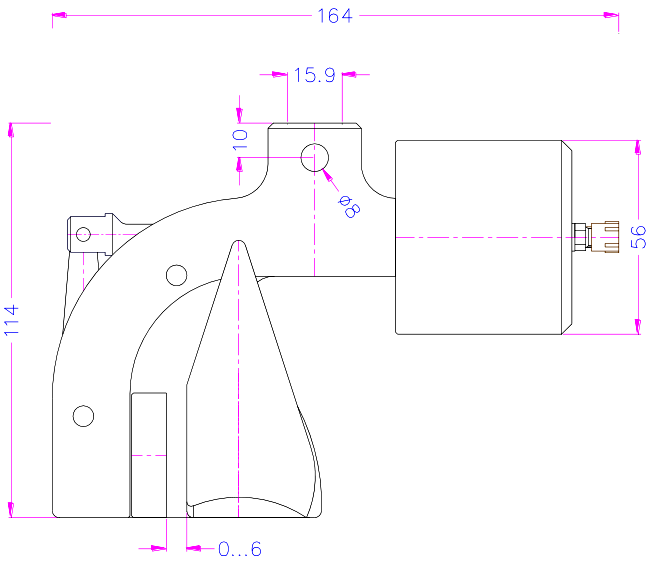


FIG. 3

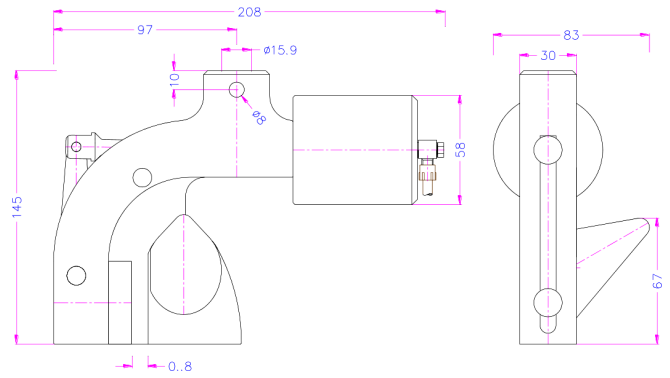
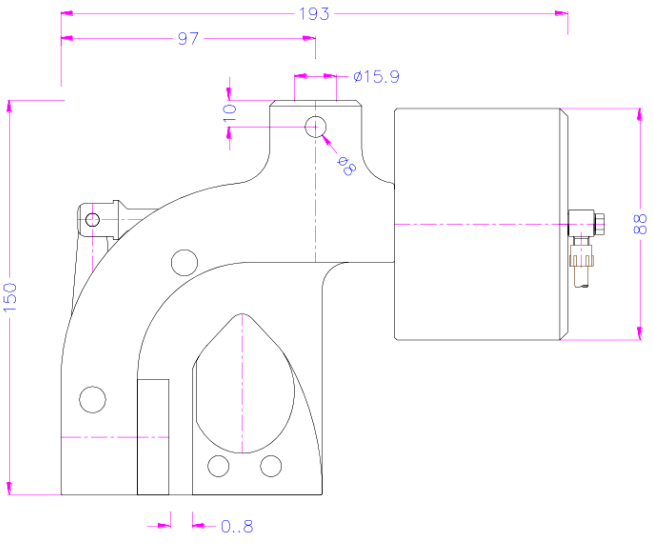


FIG. 4



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.