PNEUMATIC BOLLARD GRIPS 200 N, 2 kN, 5 kN, 10 kN

- Depending on type, applicable for tensile tests on fibers, fine wires, cords, filaments, yarns, etc.
- Guide horn with centering groove
- Specimen is wrapped 180° around the bollard to prevent the breakage in the clamping area by generating a slow notch free stress relief

<table>
<thead>
<tr>
<th>Item number:</th>
<th>THS13k</th>
<th>THS13m</th>
<th>THS13g-5</th>
<th>THS13g-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable for:</td>
<td>Fibers, filaments, etc.</td>
<td>Yarns, cords, strands, etc.</td>
<td>Wires, strands, cords, etc.</td>
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<tr>
<td>Tensile force:</td>
<td>200 N / 7 bar</td>
<td>2 kN / 7 bar</td>
<td>5 kN / 7 bar (THS13g-5)</td>
<td>10 kN / 7 bar (THS13g-10)</td>
</tr>
<tr>
<td>Clamping force:</td>
<td>880 N</td>
<td>1.9 kN (THS13m)</td>
<td>6 kN (THS13m)</td>
<td>6 kN / 7 bar (THS13g-5)</td>
</tr>
<tr>
<td>Recommended specimen Ø:</td>
<td>1 mm Ø</td>
<td>2 mm Ø</td>
<td>3 mm Ø</td>
<td></td>
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<tr>
<td>Minimal specimen length:</td>
<td>15 cm</td>
<td>25 cm</td>
<td>30 cm</td>
<td></td>
</tr>
<tr>
<td>Clamping surface of jaws HxW:</td>
<td>6 x 20 mm</td>
<td>12 x 36 mm</td>
<td>15 x 44 mm</td>
<td></td>
</tr>
<tr>
<td>Coupling:*</td>
<td>M3 for micro fittings or with additional adapter (TH205-PK23) for 1/8” normal pneumatics</td>
<td>Internal thread M5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pneumatic connection:</td>
<td>Af8</td>
<td>Af159</td>
<td>Af159</td>
<td></td>
</tr>
<tr>
<td>Body:</td>
<td>Aluminum, anodized</td>
<td>Anodized aluminum</td>
<td>Anodized aluminum</td>
<td></td>
</tr>
<tr>
<td>Bollard:</td>
<td>Anodized aluminum</td>
<td>Stainless steel (THS13m+SSB)</td>
<td>Stainless steel (THS13g-5)</td>
<td></td>
</tr>
<tr>
<td>Temperature range:</td>
<td>-10 … +70°C</td>
<td>-70 … +180°C possible with Viton sealing and Teflon tubes; further temperature ranges on request</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight per grip incl. jaws:</td>
<td>0.15 kg</td>
<td>1.13 kg (THS13m)</td>
<td>1.82 kg (THS13g-5)</td>
<td></td>
</tr>
<tr>
<td>Scope of delivery:</td>
<td>1 pair of grips without jaws</td>
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</tbody>
</table>

*Further couplings on request

Jaw surfaces for THS13:

- THS13-B: Blank jaws
- THS13-BP: Pyramid (serrated) jaws
- THS13-BG: Rubber-faced jaws
- THS13-BD: Diamond-faced jaws
THS13

THS13g-10
Exchangeable stainless steel bollard

THS13k with TH205-PK23 adapter
Pneumatic accessories

**TH205-1 Foot pedals**
None locking: The jaws of the grip open by pressing the foot pedal and close after removing the foot from the pedal.
Scope of delivery: 1 pair of foot switches including tubes and fittings

**TH205-2 Foot pedals**
With locking function: The jaws of the grip open by pressing the foot pedal and remain opened after removing the foot from the pedal. The jaws close by pressing the pedal one more time.
Scope of delivery: 1 pair of foot switches including tubes and fittings

**TH205-PR16 bar Pressure regulator**
Optional for TH205-1 or TH205-2
To adjust air pressure: 1-16 bar

**TH205-3 Hand switches**
With locking function: The jaws of the grip close by pulling the handle and remain closed. The jaws open by pushing the handle back.
Scope of delivery: 1 unit of hand switches including tubes and fittings

**TH205-4-M5 Hand switches**
Pneumatic micro – hand switches, tubes and fittings, M5 connection
With locking function: The hand switches are directly installed at the grips, 3/2 directional valve.
Only for single action rods with spring inside.
Scope of supply: 2 hand switches including tubes and fittings

**TH216 Silent compressor for laboratories, oil-lubricated, with pressure reducer**
Max pressure 16 bar; 230 V/50 HZ; noise level: 38 dB(A)
Motor: 0.13 kW; displacement: 17 l/min; tank size 3.5 l
Dimensions: 340x290x340 mm (L x W x H); weight 18 kg

Test videos:

https://youtu.be/OhD11ia0QNE THS13k
3.25 N

https://youtu.be/FxafHH129t8 THS13g
Sample slips

https://youtu.be/ruxgeN348SA
Sample holds

Better clamping through twisting the glass fiber

25.04.2019