2.3 Tensioning with Eccentric Cams and Wedge Clamps

GN 927.4 / GN 927.5 clamping levers with eccentrical cam are used for rapid clamping and releasing operations. In contrast to a clamping operation utilizing threads, these levers permit torque-free clamping.

The lever has been designed to insure that its movement cannot exceed the maximum clamping position.

There are no loose components since all are assembled and mounted in their correct order.

With these clamping levers, thrust forces of up to 1.800 lbf (8 kN) can be obtained.

Advantages of the Type A:

The distance between the eccentrical cam and the contact surface is adjustable by means of a fine threaded knurled nut. This permits the maximum clamping force to be set by a simple adjustment. In addition this also permits the selection of a preferred lever position in relation to the clamping lever pin.

How to order (Inch, zinc die-cast lever)

GN927.4-63-10X32-20-A-R

How to order (Metric, stainless steel lever)

GN927.5-101-M8-B

Information

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## Inch table

<table>
<thead>
<tr>
<th>l₁</th>
<th>d₁ Thread</th>
<th>d₂ Thread</th>
<th>l₂ in clamping position</th>
<th>b</th>
<th>d₃</th>
<th>d₄</th>
<th>d₅</th>
<th>h Stroke at 90° lever movement</th>
<th>l₃ in clamping position</th>
<th>l₄ Adjustable range</th>
<th>l₅ in clamping position</th>
<th>t Useable thread length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.48</td>
<td>10 x 32</td>
<td>10 x 32</td>
<td>0.79</td>
<td>1.18</td>
<td>1.38</td>
<td>1.57</td>
<td>2.36</td>
<td>0.98</td>
<td>1.97</td>
<td>0.98</td>
<td>0.16</td>
<td>25</td>
</tr>
<tr>
<td>2.48</td>
<td>1/4 x 20</td>
<td>1/4 x 20</td>
<td>0.79</td>
<td>1.18</td>
<td>1.38</td>
<td>1.57</td>
<td>2.36</td>
<td>0.98</td>
<td>1.97</td>
<td>0.98</td>
<td>0.16</td>
<td>25</td>
</tr>
<tr>
<td>2.32</td>
<td>5/16 x 18</td>
<td>5/16 x 18</td>
<td>0.98</td>
<td>1.38</td>
<td>1.57</td>
<td>1.97</td>
<td>2.36</td>
<td>0.98</td>
<td>1.97</td>
<td>0.98</td>
<td>0.16</td>
<td>25</td>
</tr>
<tr>
<td>2.32</td>
<td>3/8 x 16</td>
<td>3/8 x 16</td>
<td>0.98</td>
<td>1.38</td>
<td>1.57</td>
<td>1.97</td>
<td>2.36</td>
<td>0.98</td>
<td>1.97</td>
<td>0.98</td>
<td>0.16</td>
<td>25</td>
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## Metric table

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<th>l₂ in clamping position</th>
<th>b</th>
<th>d₃</th>
<th>d₄</th>
<th>d₅</th>
<th>h Stroke at 90° lever movement</th>
<th>l₃ in clamping position</th>
<th>l₄ Adjustable range</th>
<th>l₅ in clamping position</th>
<th>t Useable thread length</th>
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<td>M 4</td>
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<td>M 5</td>
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<tr>
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<tr>
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<td>M 6</td>
<td>M 6</td>
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<td>35</td>
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<td>3.7</td>
<td>0.15</td>
<td>3.7</td>
<td>0.15</td>
</tr>
</tbody>
</table>

## Constructional features (Type A)

1. \( l₁ \) adjustable by the setting screw for optimum clamping force at the preferred lever position.
2. \( l₅ \) must not be exceeded. Otherwise there is the risk that the positioning screw can no longer absorb the clamping force or may be damaged.

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