Pascal rod-swing clamp
air-operated

Die holding force
39, 69, 108 kN

Features

1. Compact size came out from simplified eccentric clamp mechanism, bearing high power along with durability and impact-resistance.
2. At clamping, air cylinder output is enlarged by **eccentric clamp mechanism**, and it gives a large pull-up force and holding force to clamp rod. The model TNA□A and TNA□B are equipped with hard pull-up spring inside air cylinder. Thus the die holding force is kept even when air supply is cut off. Even when press machine is not in use, die is securely clamped.
3. Position indicator on the body presents clamp / unclamp / swing conditions.
4. The limit switches for clamp and unclamp detection are provided to set up the safety interlock.
5. All of mechanisms are based on maintenance-free concept.

Hard pull-up spring for safety
- Powerful die holding force even at no air pressure
- Ideal for upper die of press machine

Limit switch activation
- Clamp and unclamp can be detected by clamp rod’s position.

Eccentric clamp mechanism
- Efficient and durable
- Prepared for shock and vibration
- No lubrication required

Clamp rod with high durability
- Thorough heat and surface treatment on chrome-molybdenum steel

Position indicator of clamp rod
- Visual confirmation of clamp / unclamp / swing positions.

Press Slide
Die

Clamp ON
Clamp OFF
Unclamp ON

Clamp
Unclamp
Swing

TNA100
TNA060
TNA040
Pascal rod-swing clamp
model TNA
air-operated

Model and Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Pull-up force kN</th>
<th>Holding force kN</th>
<th>Clamp rod break force kN</th>
<th>Clamp stroke mm</th>
<th>Safety stroke mm</th>
<th>Swing angle °</th>
<th>Air pressure MPa</th>
<th>Ambient temperature °C</th>
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1: Pull-up force and holding force vary with the tolerance of ±10% from the figure.
2: Swing angle is set as designated at factory before delivery.

Outline Dimensions

Specifications are subject to change without prior notice.

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