Slide Pivot Clamps
with optional position monitoring
double acting, max. operating pressure 500 bar

Description
In the case of the slide pivot clamp the piston force is deviated by 180° by the clamping lever and is available as clamping force with virtually no loss of efficiency. Kinematics of the slide pivot clamp allow sliding back of the clamping lever during unclamping for unimpeded insertion of the workpieces. The clamping lever is available with smooth swivel contact bolt and in a longer version with dome-head contour. The position of the clamping lever can be monitored by inductive proximity switches or pneumatic jets. The pivot slide clamp can be installed immersed up to the flange surface in a hole of the fixture body or via intermediate plates which are available as an accessory. For both solutions there is the possibility to supply the hydraulic oil not only by fitting connection but also via drilled channels in the fixture body.

Advantages
- 3 sizes
- High clamping force, up to 50 kN
- Minimum dimensions
- High efficiency
- Minimum side loads act on the workpiece in the clamping area
- Increased rigidity allows compensation of side loads at the clamping point
- Unimpeded loading and unloading of the fixture
- Inductive or pneumatic monitoring of the clamping lever available as accessory
- Monitoring of the unclamping position and the usable clamping range is possible
- Two different clamping levers are available
- Clamping lever can be swivelled into small recesses
- Partially immersed mounting of the body
- Oil supply alternatively via fittings or drilled channels

Application
The slide pivot clamp has in relation to its base a very high clamping force. The clamps are particularly suitable for clamping tasks on machines with high performance and reduced space availability on the fixture. The workpieces can be inserted from above without any impediments. A clamping recess a little bit wider than the clamping lever is sufficient as clamping surface. This characteristic indicates their use for clamping of aluminium parts, which are very sensitive against deformation, with correspondingly reduced oil pressure.

Important notes!
Slide pivot clamps must only be used for clamping of workpieces in industrial applications and may only be operated with hydraulic oil. They can generate very high forces. The workpiece, the fixture or the machine must be in the position to compensate these forces. In the effective area of piston rod and clamping lever there is the danger of crushing. The manufacturer of the fixture or the machine is obliged to provide effective protection devices. The clamping lever must not be impeded during swivelling movement. The slots of the sliding pad have to be checked from time to time with regard to contamination by swarf and cleaned, if required.

Operating conditions, tolerances and other data see data sheet A 0.100.

Connecting and installation possibilities
Pipe thread
Drilled channels

Monitoring of the clamping lever position by inductive proximity switches, alternatively by pneumatic nozzles.
Accessory: Part no. Screw plug G 1/4
Accessories: see accessory
Tightening torque see table

Function chart

<table>
<thead>
<tr>
<th>Accessory:</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock nut</td>
<td>3101566</td>
</tr>
<tr>
<td>Intermediate plate for 1824-061, 081</td>
<td>3456384</td>
</tr>
<tr>
<td>Inductive proximity switch, plug with 5 m cable</td>
<td>3829164</td>
</tr>
<tr>
<td>Right angle plug with 5 m cable*</td>
<td>3829099</td>
</tr>
<tr>
<td>Pneumatic jet</td>
<td>3610202</td>
</tr>
</tbody>
</table>

Technical data
see data sheet B 1.7384, page 6

** see data sheet F 9.300, page 3

Version with long clamping lever
For oil supply through drilled channels, two bore holes for plug-type connectors have to be provided in the base plate.

Bore hole for plug-type connector

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Subject to modifications B 1.8241 / 11 - 17 E

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