# 82P-720 Series

## Locating Pin Clamps

Destaco has been providing clamping solutions for welding and assembly applications in the automotive and transportation industry for over 50 years. Today, we continue to use our expertise to provide manufacturers with robust clamping solutions developed specifically to fit their ever evolving applications.

Destaco’s 82P-720 Series tolerance compensating pin clamps are designed to hold different sheet metal thicknesses without the need to use shims. The 82P-720 features tandem cylinder that provides consistent clamping force throughout the closing stroke. The sensing system can be mounted at different positions and has a plug can be pivoted. Different pin diameter and shapes are available for greater flexibility in accuracy.

## Product Highlights/Options

- Two sizes available - 50mm, 63mm
- Integrated sensing
- Tandem cylinder
- Enclosed body

## Features, Markets and Applications

<table>
<thead>
<tr>
<th>Features</th>
<th>Markets</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRECISION</td>
<td>AUTOMOTIVE</td>
<td>WELDING</td>
</tr>
<tr>
<td>• Tolerance compensation for variable sheet metal thicknesses from 0 to 6 mm</td>
<td>• Tandem cylinder design for high clamping force</td>
<td></td>
</tr>
<tr>
<td>• Pin diameters range from 18mm to 40mm</td>
<td>• Locks in clamping position for safety</td>
<td></td>
</tr>
<tr>
<td>STRENGTH</td>
<td>ASSEMBLY</td>
<td>FIXTURE/TESTING</td>
</tr>
<tr>
<td>• Consistent clamping force throughout clamping range</td>
<td>• Sealed and protected against contaminants</td>
<td></td>
</tr>
<tr>
<td>• Tandem cylinder design for high clamping force</td>
<td>• Maintenance free - over 3 million cycle</td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE</td>
<td>INDUSTRIAL</td>
<td>CONSUMER GOODS</td>
</tr>
<tr>
<td>• Self-locking mechanism in clamping position</td>
<td></td>
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</tbody>
</table>

Dimensions and technical information are subject to change without notice.
**82P-720 Series** Tolerance Compensating Pin Clamp features

- Patent pending sealed mechanism
- Sensing and 1/8 G ports located at the bottom
- Centering Pins are designed with a channel for easy cleaning.

**Round Shape**

**Diamond Shape**

### Technical Information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Unit</th>
<th>82P50</th>
<th>82P63</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamping Force @ 5 bar</td>
<td>N [lbf]</td>
<td>1500 [337]</td>
<td>2500 [562]</td>
</tr>
<tr>
<td>Max. Operating Pressure</td>
<td>bar [psi]</td>
<td>6 [87]</td>
<td>6 [87]</td>
</tr>
<tr>
<td>Air Consumption</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clamping @ 6 bar</td>
<td>liter [in³]</td>
<td>0,66 [40.28]</td>
<td>0,92 [56.14]</td>
</tr>
<tr>
<td>Opening @ 6 bar</td>
<td>liter [in³]</td>
<td>0,33 [20.13]</td>
<td>0,46 [28.07]</td>
</tr>
<tr>
<td>Weight</td>
<td>kg [lb]</td>
<td>3,2 [7.05]</td>
<td>3,9 [8.59]</td>
</tr>
</tbody>
</table>

**Time:**
- Clamping: sec 0,3 0,3
- Opening: sec 0,3 0,3

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