D4 DZUS® Standard Line Quarter-Turn Fasteners
Stud selection · Size 3

Material and Finish
Studs:
Steel, zinc plated or stainless steel

To select correct fastener:
1. Select receptacle
   Choose a receptacle from page 415
2. Select retainer and accessories
   from page 416 and note any adjustment values
3. Specify stud length
   Calculate the total material thickness (TMT) using the formula given for the receptacle selected. Find the range of TMT using the stud length selection table (right) using the column (A or B) given for the receptacle selected.
4. Complete the stud part number
   by specifying the head style [H], stud length [K], and material [M]

Example: For rivet-on
D4-S3-175 use column A
For TMT value calculated as 5.2 (.206), K = 35
For slotted head style in steel material, completed part number: D4-AJ3-35
A complete example can be found on page 377.

Notes
Stainless steel material may require a higher minimum order quantity. Contact Southco for details.

<table>
<thead>
<tr>
<th>Head Styles - Tool Actuated</th>
<th>Head Styles - Hand Actuated</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>H</td>
</tr>
<tr>
<td>Slot</td>
<td>Bail</td>
</tr>
<tr>
<td>Flush</td>
<td>Wing</td>
</tr>
</tbody>
</table>

Flush

Standard

H Head style
AJ Slot
AJW Wing head
BJR Bail
FJ Flush slot

K Length
Enter number from selection table below

M Material
SS Stainless steel
Omit for steel, zinc plated

<table>
<thead>
<tr>
<th>Stud Length Table</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>2.41 (.095)</td>
</tr>
<tr>
<td>3.68 (.145)</td>
</tr>
<tr>
<td>4.95 (.195)</td>
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<tr>
<td>6.22 (.245)</td>
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<td>7.49 (.295)</td>
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<td>8.76 (.345)</td>
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<tr>
<td>10.03 (.395)</td>
</tr>
<tr>
<td>11.3 (.445)</td>
</tr>
<tr>
<td>12.57 (.495)</td>
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<td>13.84 (.545)</td>
</tr>
<tr>
<td>15.11 (.595)</td>
</tr>
<tr>
<td>16.38 (.645)</td>
</tr>
</tbody>
</table>

|                  | X | U | L |
|                  | 25 | 1.91 (.075) | 6.35 (.250) |
|                  | 30 | 2.54 (.100) | 7.62 (.300) |
|                  | 35 | 3.81 (.150) | 8.89 (.350) |
|                  | 40 | 5.08 (.200) | 10.16 (.400) |
|                  | 45 | 5.77 (.225) | 11.43 (.450) |
|                  | 50 | 6.35 (.250) | 12.70 (.500) |
|                  | 55 | 6.99 (.275) | 13.97 (.550) |
|                  | 60 | 7.62 (.300) | 15.24 (.600) |
|                  | 65 | 8.89 (.350) | 16.51 (.650) |
|                  | 70 | 10.16 (.400) | 17.78 (.700) |
|                  | 75 | 9.5 (.375) | 19.05 (.750) |
|                  | 80 | 10.16 (.400) | 20.32 (.800) |

Dimensions in millimeters (inch) unless otherwise stated
D4 DZUS® Standard Line Quarter-Turn Fasteners
Receptacles - Size 3

Rivet-On

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Steel</th>
<th>Stainless Steel</th>
<th>H±0.25 (.010)</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-S3-150</td>
<td>D4-S3-150SS</td>
<td></td>
<td>3.81 (.150)</td>
<td>A</td>
</tr>
<tr>
<td>D4-S3-175</td>
<td>D4-S3-175SS</td>
<td></td>
<td>4.45 (.175)</td>
<td></td>
</tr>
</tbody>
</table>

Weld-On

<table>
<thead>
<tr>
<th>Part Number</th>
<th>H</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-X735-180</td>
<td>4.57 (.180)</td>
<td>B</td>
</tr>
<tr>
<td>D4-X735-205</td>
<td>5.21 (.205)</td>
<td></td>
</tr>
</tbody>
</table>
D4 DZUS® Standard Line Quarter-Turn Fasteners
Retainers · Size 3, 4, 5 and 6

Material and Finish
Retaining ring: Steel, zinc plated
Retaining spring: Stainless steel
Retainer GH: Aluminum, natural
Retainer GP, natural: HD Polythene
Retainer GP, black: Polypropylene

Installation Notes
1. Place the retainer on the mandrel as shown
2. Align ring or spring ends so that they will miss the stud cam
3. Place mandrel in end of stud cam
4. Place tool over mandrel
5. Push retainer until it is sealed in stud undercut

Notes
Tooling:
29 - TFRS hand tool: Spreads the inside diameter of retainers over stud shanks and then pushes them into stud undercuts.
29 - TB1A block: Nests stud heads during installation. (Any flat block may be used for BJR bail head studs).

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Part Number</th>
<th>Ø A</th>
<th>Ø B</th>
<th>C</th>
<th>D</th>
<th>Adjustment Value</th>
<th>Installation Tool Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Retainer GP, natural</td>
<td>D4-GP3</td>
<td>7.9 (.311)</td>
<td>4.06 (.160)</td>
<td>0.5 (.020)</td>
<td>N/A</td>
<td>Add 0.51 (.020)</td>
<td>29-TFRS3 and 29-TB1A3</td>
</tr>
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<td></td>
<td>Retainer GP, black</td>
<td>D4-GP3B</td>
<td>7.9 (.311)</td>
<td>4.06 (.160)</td>
<td>0.5 (.020)</td>
<td>N/A</td>
<td>Add 0.51 (.020)</td>
<td>29-TFRS3 and 29-TB1A3</td>
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<tr>
<td></td>
<td>Retainer GH</td>
<td>D4-GH3</td>
<td>5.3 (.209)</td>
<td>0.56 (.022)</td>
<td>1.3 (.051)</td>
<td>N/A</td>
<td>Add 0.38 (.015)</td>
<td>29-TBP5A3 and 29-TB1A3</td>
</tr>
<tr>
<td></td>
<td>Retaining ring</td>
<td>D4-RR3</td>
<td>5.3 (.209)</td>
<td>0.56 (.022)</td>
<td>1.3 (.051)</td>
<td>N/A</td>
<td>Add 0.38 (.015)</td>
<td>29-TBP5A3 and 29-TB1A3</td>
</tr>
<tr>
<td></td>
<td>Retaining spring</td>
<td>D4-SX520</td>
<td>7.9 (.311)</td>
<td>0.46 (.018)</td>
<td>17.5 (.689)</td>
<td>N/A</td>
<td>Add 0.91 (.036)</td>
<td>29-TBP5A3 and 29-TB1A3</td>
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<tr>
<td>4</td>
<td>Retainer GP, natural</td>
<td>D4-GP4</td>
<td>11.1 (.437)</td>
<td>5.4 (.21)</td>
<td>0.7 (.028)</td>
<td>N/A</td>
<td>Add 0.7 (.028)</td>
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<tr>
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<td>D4-GP4B</td>
<td>11.1 (.437)</td>
<td>5.4 (.21)</td>
<td>0.7 (.028)</td>
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<td>Add 0.7 (.028)</td>
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<tr>
<td></td>
<td>Retainer GH</td>
<td>D4-GH4</td>
<td>7.1 (.280)</td>
<td>0.71 (.028)</td>
<td>2.1 (.083)</td>
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<td>Add 0.74 (.029)</td>
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<tr>
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<td>Retaining ring</td>
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<td>7.1 (.280)</td>
<td>0.71 (.028)</td>
<td>2.1 (.083)</td>
<td>N/A</td>
<td>Add 0.74 (.029)</td>
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<tr>
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<td>D4-SX523</td>
<td>11.1 (.437)</td>
<td>0.64 (.025)</td>
<td>17.5 (.689)</td>
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<tr>
<td>5</td>
<td>Retainer GP, natural</td>
<td>D4-GP5</td>
<td>14.3 (.562)</td>
<td>6.5 (.256)</td>
<td>0.83 (.033)</td>
<td>N/A</td>
<td>Add 0.86 (.034)</td>
<td>29-TBP5A5 and 29-TB1A5</td>
</tr>
<tr>
<td></td>
<td>Retainer GP, black</td>
<td>D4-GP5B</td>
<td>14.3 (.562)</td>
<td>6.5 (.256)</td>
<td>0.83 (.033)</td>
<td>N/A</td>
<td>Add 0.86 (.034)</td>
<td>29-TBP5A5 and 29-TB1A5</td>
</tr>
<tr>
<td></td>
<td>Retainer GH</td>
<td>D4-GH5</td>
<td>7.9 (.311)</td>
<td>0.88 (.035)</td>
<td>2.7 (.106)</td>
<td>N/A</td>
<td>Add 0.78 (.031)</td>
<td>29-TBP5A5 and 29-TB1A5</td>
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<tr>
<td></td>
<td>Retaining ring</td>
<td>D4-RR5</td>
<td>8.92 (.351)</td>
<td>0.91 (.036)</td>
<td>19.748</td>
<td>N/A</td>
<td>Add 1.64 (.064)</td>
<td>29-TBP5A5 and 29-TB1A5</td>
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<tr>
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<td>Retaining spring</td>
<td>D4-SX510</td>
<td>14.3 (.562)</td>
<td>6.5 (.256)</td>
<td>0.82 (.032)</td>
<td>19.748</td>
<td>Add 1.64 (.064)</td>
<td>29-TBP5A5 and 29-TB1A5</td>
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<tr>
<td>6</td>
<td>Retainer GH</td>
<td>D4-GH6</td>
<td>15.9 (.625)</td>
<td>9.5 (.374)</td>
<td>0.88 (.035)</td>
<td>2.9 (.114)</td>
<td>Add .88 (.035)</td>
<td>29-TBP5A6 and 29-TB1A6</td>
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<td>Retaining ring</td>
<td>D4-RR6</td>
<td>10.78 (.424)</td>
<td>1.14 (.045)</td>
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<td>N/A</td>
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<tr>
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<td>8 (.315)</td>
<td>0.88 (.035)</td>
<td>19.748</td>
<td>Add 1.76 (.070)</td>
<td>29-TBP5A6 and 29-TB1A6</td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated
**Material and Finish**
Retainer GA: Aluminum, natural

**Installation Notes**
1. Insert retainer in panel hole
2. Set retainer
3. Insert stud
4. Flatten retainer

---

**Part Number**
See table

---

**Dimension Table**

<table>
<thead>
<tr>
<th>Size</th>
<th>Panel Thickness</th>
<th>L</th>
<th>Part Number</th>
<th>Ø A</th>
<th>Ø B</th>
<th>C</th>
<th>Adjustment Formula</th>
<th>Installation Tool Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0.38 - 0.64 (.015 - .025)</td>
<td>4.45 (.175)</td>
<td>D4-GA3-175</td>
<td>7.9 (.311)</td>
<td>5.6 (.220)</td>
<td>0.38 (.015)</td>
<td>Add 0.76 (.030)</td>
<td>29-TP1A3, 29-TP3A3, 29-TB1A3 and 29-TB2A3 (all required)</td>
</tr>
<tr>
<td></td>
<td>0.66 - 1.27 (.026 - .050)</td>
<td>5.08 (.200)</td>
<td>D4-GA3-200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.29 - 2.38 (.051 - .094)</td>
<td>6.35 (.250)</td>
<td>D4-GA3-250</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.38 - 0.64 (.015 - .025)</td>
<td>4.45 (.175)</td>
<td>D4-GA4-175</td>
<td>10.3 (.405)</td>
<td>7.9 (.311)</td>
<td>.64 (.025)</td>
<td>Add 1.28 (.050)</td>
<td>29-TP1A4, 29-TP3A4 and 29-TB1A4 (all required)</td>
</tr>
<tr>
<td></td>
<td>0.66 - 1.27 (.026 - .050)</td>
<td>5.08 (.200)</td>
<td>D4-GA4-200</td>
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<td></td>
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<td></td>
<td>1.29 - 2.38 (.051 - .094)</td>
<td>6.35 (.250)</td>
<td>D4-GA4-250</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0.38 - 0.64 (.015 - .025)</td>
<td>4.45 (.175)</td>
<td>D4-GA5-175</td>
<td>12.7 (.500)</td>
<td>9.5 (.374)</td>
<td>.71 (.028)</td>
<td>Add 1.42 (.056)</td>
<td>29-TP1A5, 29-TP3A5, 29-TB1A5 and 29-TB2A5 (all required)</td>
</tr>
<tr>
<td></td>
<td>0.66 - 1.27 (.026 - .050)</td>
<td>5.08 (.200)</td>
<td>D4-GA5-200</td>
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<tr>
<td></td>
<td>1.29 - 2.38 (.051 - .094)</td>
<td>6.35 (.250)</td>
<td>D4-GA5-250</td>
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<td></td>
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<tr>
<td>6</td>
<td>0.38 - 0.64 (.015 - .025)</td>
<td>4.45 (.175)</td>
<td>D4-GA6-175</td>
<td>15.1 (.594)</td>
<td>11.1 (.437)</td>
<td>.71 (.028)</td>
<td>Add 1.42 (.056)</td>
<td>29-TP1A6, 29-TP3A6, 29-TB1A6 and 29-TB2A6 (all required)</td>
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<td>1.29 - 2.38 (.051 - .094)</td>
<td>6.35 (.250)</td>
<td>D4-GA6-250</td>
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</tr>
</tbody>
</table>
D4 **DZUS®** Standard Line Quarter-Turn Fasteners

Stud selection - Size 4

**Material and Finish**
- Studs: Steel, zinc plated or stainless steel

**To select correct fastener:**

1. **Select receptacle**
   - Choose a receptacle from pages 420-421

2. **Select retainer and accessories**
   - from pages 416-417 and note any adjustment values

3. **Specify stud length**
   - Calculate the total material thickness (TMT) using the formula given for the receptacle selected.
   - Find the range of TMT using the stud length selection table (right) using the column (A, B, C, or D) given for the receptacle selected.

4. **Complete the stud part number**
   - by specifying the head style [H], stud length [K], and material [M]

**Example:**
- For rivet-on D4-S4-225 use column A
- For TMT value calculated as 5.2 (.206), K = 40
- For slotted head style in steel material, completed part number: D4-AJ4-40
- A complete example can be found on page 377

**Stud Length Table**

<table>
<thead>
<tr>
<th>TMT Range For:</th>
<th>Stud Length</th>
<th>TMT Range For:</th>
<th>Stud Length</th>
<th>TMT Range For:</th>
<th>Stud Length</th>
<th>TMT Range For:</th>
<th>Stud Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rivet-On Receptacle</td>
<td>D4-S4-225</td>
<td>Rivet-On Receptacle</td>
<td>D4-S4-200</td>
<td>Weld-On Receptacle</td>
<td>D4-X485-300</td>
<td>Weld-On Receptacle</td>
<td>D4-X485-275</td>
</tr>
<tr>
<td>1.27 (.050)</td>
<td>1.88 (.074)</td>
<td>1.91 (.075)</td>
<td>2.51 (.099)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>2.54 (.100)</td>
<td>3.15 (.124)</td>
<td>3.18 (.125)</td>
<td>3.78 (.149)</td>
<td>0.64 (.025)</td>
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<td>1.88 (.074)</td>
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<tr>
<td>3.81 (.150)</td>
<td>4.42 (.174)</td>
<td>4.45 (.175)</td>
<td>5.05 (.199)</td>
<td>1.91 (.075)</td>
<td>2.51 (.099)</td>
<td>2.54 (.100)</td>
<td>3.15 (.124)</td>
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<td>5.08 (.200)</td>
<td>5.69 (.224)</td>
<td>5.72 (.225)</td>
<td>6.32 (.249)</td>
<td>3.18 (.125)</td>
<td>3.78 (.149)</td>
<td>3.81 (.150)</td>
<td>4.42 (.174)</td>
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<tr>
<td>6.35 (.250)</td>
<td>6.96 (.274)</td>
<td>6.99 (.275)</td>
<td>7.59 (.299)</td>
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<td>5.05 (.199)</td>
<td>5.08 (.200)</td>
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<tr>
<td>7.62 (.300)</td>
<td>8.23 (.324)</td>
<td>8.26 (.325)</td>
<td>8.86 (.349)</td>
<td>5.72 (.225)</td>
<td>6.32 (.249)</td>
<td>6.35 (.250)</td>
<td>6.96 (.274)</td>
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<tr>
<td>8.89 (.350)</td>
<td>9.50 (.374)</td>
<td>9.53 (.375)</td>
<td>10.13 (.399)</td>
<td>6.89 (.275)</td>
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<td>8.23 (.324)</td>
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<tr>
<td>10.16 (.400)</td>
<td>10.77 (.424)</td>
<td>10.80 (.425)</td>
<td>11.40 (.449)</td>
<td>8.26 (.325)</td>
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<td>9.50 (.374)</td>
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<tr>
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<td>12.07 (.475)</td>
<td>12.67 (.499)</td>
<td>9.53 (.375)</td>
<td>10.13 (.399)</td>
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<tr>
<td>12.70 (.500)</td>
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<td>14.61 (.575)</td>
<td>15.21 (.599)</td>
<td>12.07 (.475)</td>
<td>12.67 (.499)</td>
<td>12.70 (.500)</td>
<td>13.31 (.524)</td>
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<tr>
<td>15.24 (.600)</td>
<td>15.85 (.624)</td>
<td>15.88 (.625)</td>
<td>16.48 (.649)</td>
<td>13.34 (.525)</td>
<td>13.94 (.549)</td>
<td>13.97 (.550)</td>
<td>14.58 (.574)</td>
</tr>
<tr>
<td>16.51 (.650)</td>
<td>17.12 (.674)</td>
<td>17.15 (.675)</td>
<td>17.75 (.699)</td>
<td>14.61 (.575)</td>
<td>15.21 (.599)</td>
<td>15.24 (.600)</td>
<td>15.85 (.624)</td>
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<tr>
<td>17.78 (.700)</td>
<td>18.39 (.724)</td>
<td>18.42 (.725)</td>
<td>19.02 (.749)</td>
<td>15.88 (.625)</td>
<td>16.48 (.649)</td>
<td>16.51 (.650)</td>
<td>17.12 (.674)</td>
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<tr>
<td>19.05 (.750)</td>
<td>19.66 (.774)</td>
<td>19.69 (.775)</td>
<td>20.29 (.799)</td>
<td>17.15 (.675)</td>
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<td>17.78 (.700)</td>
<td>18.39 (.724)</td>
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<td>20.93 (.824)</td>
<td>20.96 (.825)</td>
<td>21.56 (.849)</td>
<td>18.42 (.725)</td>
<td>19.02 (.749)</td>
<td>19.05 (.750)</td>
<td>19.66 (.774)</td>
</tr>
</tbody>
</table>

**Dimensions**

- In millimeters (inch) unless otherwise stated

**For slotted head style in steel**
- K = 40

**TMT value calculated as 5.2 (.206)**

**D4-X485-275 use column A**

---

**Head Styles - Tool Actuated**

**Head Styles - Hand Actuated**

---

**Rivet-On Receptacle**

**Wing**

**Bail**

---

**Flush Slot**

---

**ACTUAL SIZE**

**Stud Length Table**

**D4** www.southco.com/D4
### Stud Length Table

<table>
<thead>
<tr>
<th>C</th>
<th>TMT Range For: Clip-On Receptacle D4-SL4-208</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>~</td>
<td>~</td>
</tr>
<tr>
<td>1.80 (.071)</td>
<td>2.41 (.095)</td>
</tr>
<tr>
<td>3.07 (.121)</td>
<td>3.68 (.145)</td>
</tr>
<tr>
<td>4.34 (.171)</td>
<td>4.95 (.195)</td>
</tr>
<tr>
<td>5.61 (.221)</td>
<td>6.22 (.245)</td>
</tr>
<tr>
<td>6.88 (.271)</td>
<td>7.49 (.295)</td>
</tr>
<tr>
<td>8.15 (.321)</td>
<td>8.76 (.345)</td>
</tr>
<tr>
<td>9.42 (.371)</td>
<td>10.03 (.395)</td>
</tr>
<tr>
<td>10.69 (.421)</td>
<td>11.30 (.445)</td>
</tr>
<tr>
<td>11.96 (.471)</td>
<td>12.57 (.495)</td>
</tr>
<tr>
<td>13.23 (.521)</td>
<td>13.84 (.545)</td>
</tr>
<tr>
<td>14.50 (.571)</td>
<td>15.11 (.595)</td>
</tr>
<tr>
<td>15.77 (.621)</td>
<td>16.38 (.645)</td>
</tr>
<tr>
<td>17.04 (.671)</td>
<td>17.65 (.695)</td>
</tr>
<tr>
<td>18.31 (.721)</td>
<td>18.92 (.745)</td>
</tr>
</tbody>
</table>

### Snap-In - Rear Mount Receptacle

<table>
<thead>
<tr>
<th>D</th>
<th>TMT Range For: Snap-In - Rear Mount Receptacle D4-SQC4-F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>0.48 (.019)</td>
<td>1.09 (.043)</td>
</tr>
<tr>
<td>1.12 (.044)</td>
<td>1.73 (.068)</td>
</tr>
<tr>
<td>1.76 (.069)</td>
<td>2.36 (.093)</td>
</tr>
<tr>
<td>2.39 (.094)</td>
<td>3.00 (.118)</td>
</tr>
<tr>
<td>3.02 (.119)</td>
<td>3.63 (.143)</td>
</tr>
<tr>
<td>3.66 (.144)</td>
<td>4.27 (.168)</td>
</tr>
<tr>
<td>4.29 (.169)</td>
<td>4.90 (.193)</td>
</tr>
<tr>
<td>4.93 (.194)</td>
<td>5.54 (.218)</td>
</tr>
<tr>
<td>5.56 (.219)</td>
<td>6.17 (.243)</td>
</tr>
<tr>
<td>6.20 (.244)</td>
<td>6.81 (.268)</td>
</tr>
<tr>
<td>6.83 (.269)</td>
<td>7.44 (.293)</td>
</tr>
<tr>
<td>7.47 (.294)</td>
<td>8.08 (.328)</td>
</tr>
</tbody>
</table>

**Dimensions in millimeters (inch) unless otherwise stated**

- **K** Length: Enter number from selection table on below
- **M** Material: SS Stainless steel
- **Omit for steel, zinc plated**
**D4 DZUS® Standard Line Quarter-Turn Fasteners**

**Receptacles · Size 4**

---

### Material and Finish
Steel, zinc plated or stainless steel

### Notes
After selecting receptacle use stud selection letter A and follow instruction on page 418

### Part Number
See table

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 418-419

---

### Rivet-On

![Diagram of Rivet-On Fastener](image)

### Weld-On

![Diagram of Weld-On Fastener](image)

---

### Material and Finish
Steel, zinc plated or stainless steel

### Notes
After selecting receptacle use stud selection letter B and follow instruction on page 418

---

### Part Number
See table

Utilize stud selection column indicated when choosing a stud length from the stud length table on page 418-419

---

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steel</strong></td>
<td><strong>Stainless Steel</strong></td>
</tr>
<tr>
<td>D4-S4-200</td>
<td>D4-S4-200SS</td>
</tr>
<tr>
<td>D4-S4-225</td>
<td>D4-S4-225SS</td>
</tr>
</tbody>
</table>

**Rivet-On**

- TMT = P + F + Compressed gasket

**Weld-On**

- TMT = P + F + (Retainer adjustment value)

---

**www.southco.com/D4**

Dimensions in millimeters (inch) unless otherwise stated
Material and Finish
Steel, zinc plated

Notes
After selecting receptacle use stud selection letter C and follow instruction on page 418

Part Number
See table
Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 418-419

Material and Finish
Steel, zinc plated

Installation Notes
For stud retention use only retaining ring part number: D4-RR4

Notes
After selecting receptacle use stud selection letter D and follow instruction on page 418

Part Number
See table
Utilize stud selection column indicated when choosing a stud length from the stud length table on page 418-419

Dimensions in millimeters (inch) unless otherwise stated
**Material and Finish**

Studs:
Steel, zinc plated or stainless steel

---

**To select correct fastener:**

1. **Select receptacle**
   Choose a receptacle from pages 424-425

2. **Select retainer and accessories**
   from pages 416-417 and note any adjustment values

3. **Specify stud length**
   Calculate the total material thickness (TMT) using the formula given for the receptacle selected. Find the range of TMT using the stud length selection table (right) using the column (A, B or C) given for the receptacle selected.

4. **Complete the stud part number**
   by specifying the head style [H], stud length [K], and material [M]

   Example:
   For rivet-on D4-S5-225 use column A
   For TMT value calculated as 5.21 (.205), K = 40
   For slotted head style in steel material, completed part number: D4-AJS-40
   A complete example can be found on page 377.

**Notes**
Stainless steel material may require a higher minimum order quantity. Contact Southco for details.

---

**Head Styles - Tool Actuated**

<table>
<thead>
<tr>
<th>Slot</th>
<th>Hex Recess</th>
<th>Phillips Recess</th>
<th>Flush slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 14.3 (.563)</td>
<td>1.6 (.063)</td>
<td>4 (5/32)</td>
<td>1.7 (.067)</td>
</tr>
<tr>
<td>Ø 6.4 (.252)</td>
<td>2.4 (.094)</td>
<td>5/32</td>
<td>2.2 (.087)</td>
</tr>
<tr>
<td>Ø 7.9 (.311)</td>
<td>3.18 (.125)</td>
<td>20º</td>
<td>2.9 (.114)</td>
</tr>
</tbody>
</table>

---

**Head Styles - Hand Actuated**

<table>
<thead>
<tr>
<th>Wing</th>
<th>Bail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 14.3 (.563)</td>
<td>Ø 11.1 (.437)</td>
</tr>
<tr>
<td>28.6 (.113)</td>
<td>23 (.9)</td>
</tr>
<tr>
<td>10.6 (4.17)</td>
<td>1.7 (0.067)</td>
</tr>
</tbody>
</table>

---

**Stud Length Table**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>U</th>
<th>L</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
</tr>
<tr>
<td>2.67 (.105)</td>
<td>3.28 (.129)</td>
<td>3.3 (.13)</td>
<td>3.91 (.154)</td>
<td>–</td>
</tr>
<tr>
<td>3.94 (.155)</td>
<td>4.55 (.179)</td>
<td>4.57 (.18)</td>
<td>5.18 (.204)</td>
<td>1.65 (.065)</td>
</tr>
<tr>
<td>5.21 (.205)</td>
<td>5.82 (.229)</td>
<td>5.84 (.23)</td>
<td>6.45 (.254)</td>
<td>2.92 (.115)</td>
</tr>
<tr>
<td>6.48 (.255)</td>
<td>7.09 (.279)</td>
<td>7.11 (.28)</td>
<td>7.72 (.304)</td>
<td>4.19 (.165)</td>
</tr>
<tr>
<td>7.75 (.305)</td>
<td>8.36 (.329)</td>
<td>8.38 (.33)</td>
<td>8.99 (.354)</td>
<td>5.46 (.215)</td>
</tr>
<tr>
<td>9.02 (.355)</td>
<td>9.63 (.379)</td>
<td>9.65 (.38)</td>
<td>10.26 (.404)</td>
<td>6.73 (.265)</td>
</tr>
<tr>
<td>10.29 (.405)</td>
<td>10.9 (.429)</td>
<td>10.92 (.43)</td>
<td>11.53 (.454)</td>
<td>8.0 (.315)</td>
</tr>
<tr>
<td>11.56 (.455)</td>
<td>12.17 (.479)</td>
<td>12.19 (.48)</td>
<td>12.8 (.504)</td>
<td>9.27 (.365)</td>
</tr>
<tr>
<td>12.83 (.505)</td>
<td>13.44 (.529)</td>
<td>13.46 (.53)</td>
<td>14.07 (.554)</td>
<td>10.54 (.415)</td>
</tr>
<tr>
<td>14.1 (.555)</td>
<td>14.71 (.579)</td>
<td>14.73 (.58)</td>
<td>15.34 (.604)</td>
<td>11.81 (.465)</td>
</tr>
<tr>
<td>15.37 (.605)</td>
<td>15.98 (.629)</td>
<td>16.0 (.63)</td>
<td>16.61 (.654)</td>
<td>13.08 (.515)</td>
</tr>
<tr>
<td>16.64 (.655)</td>
<td>17.25 (.679)</td>
<td>17.27 (.68)</td>
<td>17.88 (.704)</td>
<td>14.35 (.565)</td>
</tr>
<tr>
<td>17.91 (.705)</td>
<td>18.52 (.729)</td>
<td>18.54 (.73)</td>
<td>19.15 (.754)</td>
<td>15.62 (.605)</td>
</tr>
<tr>
<td>19.18 (.755)</td>
<td>19.79 (.779)</td>
<td>19.81 (.78)</td>
<td>20.42 (.804)</td>
<td>16.89 (.665)</td>
</tr>
<tr>
<td>20.45 (.805)</td>
<td>21.06 (.829)</td>
<td>21.08 (.83)</td>
<td>21.69 (.854)</td>
<td>18.16 (.715)</td>
</tr>
</tbody>
</table>

---

**Dimensions in millimeters (inch) unless otherwise stated**
Stud Length Table

<table>
<thead>
<tr>
<th>C</th>
<th>TMT Range For:</th>
<th>U</th>
<th>L</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clip-On Receptacle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D4-SL5-305</td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
</tr>
<tr>
<td>1.8 (.071)</td>
<td>2.41 (.095)</td>
<td>2.44 (.096)</td>
<td>3.05 (.12)</td>
<td>3.18 (.125)</td>
</tr>
<tr>
<td>3.07 (.121)</td>
<td>3.68 (.145)</td>
<td>3.71 (.146)</td>
<td>4.32 (.17)</td>
<td>4.83 (.200)</td>
</tr>
<tr>
<td>4.34 (.171)</td>
<td>4.95 (.195)</td>
<td>4.98 (.196)</td>
<td>5.59 (.22)</td>
<td>6.35 (.250)</td>
</tr>
<tr>
<td>5.61 (.221)</td>
<td>6.22 (.245)</td>
<td>6.25 (.246)</td>
<td>6.86 (.27)</td>
<td>6.99 (.275)</td>
</tr>
<tr>
<td>6.88 (.271)</td>
<td>7.49 (.295)</td>
<td>7.52 (.296)</td>
<td>8.13 (.32)</td>
<td>7.62 (.300)</td>
</tr>
<tr>
<td>8.15 (.321)</td>
<td>8.76 (.345)</td>
<td>8.79 (.346)</td>
<td>9.4 (.37)</td>
<td>8.89 (.350)</td>
</tr>
<tr>
<td>9.42 (.371)</td>
<td>10.03 (.395)</td>
<td>10.06 (.396)</td>
<td>10.67 (.42)</td>
<td>10.16 (.400)</td>
</tr>
<tr>
<td>10.69 (.421)</td>
<td>11.3 (.445)</td>
<td>11.33 (.446)</td>
<td>11.94 (.47)</td>
<td>11.94 (.47)</td>
</tr>
<tr>
<td>11.96 (.471)</td>
<td>12.57 (.495)</td>
<td>12.6 (.496)</td>
<td>13.21 (.52)</td>
<td>12.7 (.500)</td>
</tr>
<tr>
<td>13.23 (.521)</td>
<td>13.84 (.545)</td>
<td>13.87 (.546)</td>
<td>14.48 (.57)</td>
<td>15.24 (.600)</td>
</tr>
<tr>
<td>14.5 (.571)</td>
<td>15.11 (.595)</td>
<td>15.14 (.596)</td>
<td>15.75 (.62)</td>
<td>18.31 (.72)</td>
</tr>
<tr>
<td>15.77 (.621)</td>
<td>16.38 (.645)</td>
<td>16.41 (.646)</td>
<td>17.02 (.67)</td>
<td>18.95 (.746)</td>
</tr>
<tr>
<td>17.04 (.671)</td>
<td>17.65 (.695)</td>
<td>17.68 (.696)</td>
<td>18.29 (.72)</td>
<td>19.56 (.77)</td>
</tr>
</tbody>
</table>

Dimensions in millimeters (inch) unless otherwise stated
# D4 DZUS® Standard Line Quarter-Turn Fasteners

## Receptacles · Size 5

### Material and Finish

Steel, zinc plated or stainless steel

### Part Number

#### Rivet-On

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-S5-200</td>
<td>A</td>
</tr>
<tr>
<td>D4-S5-225</td>
<td></td>
</tr>
</tbody>
</table>

#### Weld-On

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-X414-285</td>
<td>B</td>
</tr>
<tr>
<td>D4-X414-310</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 422-423

### Material and Finish

Steel, zinc plated or stainless steel

### Part Number

#### Rivet-On

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-S5-200</td>
<td>A</td>
</tr>
<tr>
<td>D4-S5-225</td>
<td></td>
</tr>
</tbody>
</table>

#### Weld-On

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-X414-285</td>
<td>B</td>
</tr>
<tr>
<td>D4-X414-310</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 422-423

---

**Dimensions in millimeters (inch) unless otherwise stated**
**Material and Finish**

Steel, zinc plated

---

**Dimensions in millimeters (inch) unless otherwise stated**

**D4 DZUS® Standard Line Quarter-Turn Fasteners**

**Receptacles · Size 5**

**Clip-On**

- **Frame thickness**: 0.91 - 3.25 (0.036 - .128)
- **2 x Rivet**
- **Spring**
- **Spring clip**
- **Base plate**

**Part Number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>H</th>
<th>Stud Selection Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>D4-SL5-280</td>
<td>7.11 (.280)</td>
<td></td>
</tr>
<tr>
<td>D4-SL5-305</td>
<td>7.75 (.305)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Utilize stud selection column indicated when choosing a stud length from the stud length table on pages 422-423

**Panel misalignment can be tolerated by increasing the support hole to 17.86 (.703) and decreasing the hole center to edge distance to 11.43 (.450)**
**D4** **DZUS® Standard Line Quarter-Turn Fasteners**

**Stud selection · Size 6**

### Material and Finish

Studs:
- Steel, zinc plated or stainless steel

### To select correct fastener:

1. **Select receptacle**
   - Choose a receptacle from page 427

2. **Select retainer and accessories**
   - from pages 416-417 and note any adjustment values

3. **Specify stud length**
   - Calculate the total material thickness (TMT) using the formula given for the receptacle selected. Find the range of TMT using the stud length selection table (right) using the column (A or B) given for the receptacle selected.

4. **Complete the stud part number**
   - by specifying the head style [H], stud length [K], and material [M]

#### Notes

- Stainless steel material may require a higher minimum order quantity.
- Contact Southco for details.

#### Example:

- For rivet-on D4-S6-300 column A
- For slotted head style in steel material, completed part number: D4-AJ6-45

#### Stud Length Table

<table>
<thead>
<tr>
<th></th>
<th><strong>A</strong></th>
<th><strong>B</strong></th>
<th><strong>U</strong></th>
<th><strong>L</strong></th>
<th><strong>K</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TMT Range For:</strong></td>
<td><strong>Rivet-On Receptacle D4-S6-300</strong></td>
<td><strong>Rivet-On Receptacle D4-S6-275</strong></td>
<td><strong>Weld-On Receptacle D4-X441-335</strong></td>
<td><strong>Weld-On Receptacle D4-X441-310</strong></td>
<td></td>
</tr>
<tr>
<td>2.29 (.090)</td>
<td>2.90 (.114)</td>
<td>2.92 (.115)</td>
<td>3.53 (.139)</td>
<td>1.40 (.055)</td>
<td>2.01 (.079)</td>
</tr>
<tr>
<td>3.56 (.140)</td>
<td>4.17 (.164)</td>
<td>4.19 (.165)</td>
<td>4.80 (.189)</td>
<td>2.67 (.105)</td>
<td>3.28 (.129)</td>
</tr>
<tr>
<td>4.83 (.190)</td>
<td>5.44 (.214)</td>
<td>5.46 (.215)</td>
<td>6.07 (.239)</td>
<td>3.94 (.155)</td>
<td>4.55 (.179)</td>
</tr>
<tr>
<td>6.10 (.240)</td>
<td>6.71 (.264)</td>
<td>6.73 (.265)</td>
<td>7.34 (.289)</td>
<td>5.21 (.205)</td>
<td>5.82 (.229)</td>
</tr>
<tr>
<td>7.37 (.290)</td>
<td>7.98 (.314)</td>
<td>8.00 (.315)</td>
<td>8.61 (.339)</td>
<td>6.48 (.255)</td>
<td>7.09 (.279)</td>
</tr>
<tr>
<td>8.64 (.340)</td>
<td>9.25 (.364)</td>
<td>9.27 (.365)</td>
<td>9.88 (.389)</td>
<td>7.75 (.305)</td>
<td>8.36 (.329)</td>
</tr>
<tr>
<td>9.91 (.390)</td>
<td>10.52 (.414)</td>
<td>10.54 (.415)</td>
<td>11.15 (.439)</td>
<td>9.02 (.355)</td>
<td>9.63 (.379)</td>
</tr>
<tr>
<td>11.18 (.440)</td>
<td>11.79 (.464)</td>
<td>11.81 (.465)</td>
<td>12.42 (.488)</td>
<td>10.29 (.405)</td>
<td>10.90 (.429)</td>
</tr>
<tr>
<td>12.45 (.490)</td>
<td>13.06 (.514)</td>
<td>13.08 (.515)</td>
<td>13.69 (.539)</td>
<td>11.56 (.455)</td>
<td>12.17 (.479)</td>
</tr>
<tr>
<td>13.72 (.540)</td>
<td>14.33 (.564)</td>
<td>14.35 (.565)</td>
<td>14.96 (.589)</td>
<td>12.83 (.506)</td>
<td>13.44 (.529)</td>
</tr>
<tr>
<td>14.99 (.590)</td>
<td>15.60 (.614)</td>
<td>15.62 (.615)</td>
<td>16.23 (.639)</td>
<td>14.10 (.555)</td>
<td>14.71 (.579)</td>
</tr>
<tr>
<td>16.26 (.640)</td>
<td>16.87 (.664)</td>
<td>16.89 (.665)</td>
<td>17.50 (.689)</td>
<td>15.37 (.690)</td>
<td>15.98 (.629)</td>
</tr>
<tr>
<td>17.53 (.690)</td>
<td>18.14 (.714)</td>
<td>18.16 (.715)</td>
<td>18.77 (.739)</td>
<td>16.64 (.665)</td>
<td>17.25 (.679)</td>
</tr>
<tr>
<td>18.80 (.740)</td>
<td>19.41 (.764)</td>
<td>19.43 (.765)</td>
<td>20.04 (.789)</td>
<td>17.91 (.705)</td>
<td>18.52 (.729)</td>
</tr>
</tbody>
</table>

**Dimensions in millimeters (inch) unless otherwise stated**

www.southco.com/D4
Material and Finish
Steel, zinc plated or stainless steel

Notes
After selecting receptacle use stud selection letter A and follow instruction on page 426

Material and Finish
Steel, zinc plated

Notes
After selecting receptacle use stud selection letter B and follow instruction on page 426
Installation Guidelines
for SOUTHCO® Self-Clinching products

Self-clinching product installation is offered on these SOUTHCO® products, making them easy-to-use captive panel fasteners:

- Captive Screws
- Receptacles for Quarter-turn Fasteners
- Receptacles for Fast-lead Thread Screws

When pressed into a properly prepared hole, self-clinching captive fasteners cold-flow (move) the panel material into the retaining groove of the fastener. This material then retains the fastener in the panel.

Successful press-in installations depend on:

Material:
The hardness of the panel material must not exceed SOUTHCO® recommendations. If the panel is too hard, the fastener will not install correctly.

Installation Holes:
Mounting holes may be drilled, punched, or cast.
- Hole edge: the top hole edge must be sharp but with no broken edges.
- Punched holes: use a punch and die with a small clearance to minimize the rollover and fracture angle.
- Hole diameter: measure the hole diameter at the panel surface on the side on which the fastener will be installed. The diameter must be within SOUTHCO® specifications for that product.
  - If the hole is too large, not enough material will flow into the retaining groove and the fastener may not be retained adequately.
  - If the hole is too small, the fastener will not fit and installation may become difficult and unsafe.
- Hole distance from the edge of panel: the minimum recommended distance is 1.5 x the diameter of the mounting hole, unless otherwise indicated.

Installation Force: Proper installation requires an even distribution of force. It does not depend on the distance the fastener is pressed into the panel.

- Installing too close to the edge will cause the material to flow in the opposite direction, deforming the edge of the panel. To install closer to the edge, you may need to restrain the panel edge.

Panel Thickness:
The thickness of the panel at the mounting hole location must meet or exceed Southco’s stated minimum recommendations. If the material is too thin, panel deformation and/or damage to the fastener may result.

Installation is fast and easy if you follow these tips:

How to install: Use the recommended force where noted and a proper back-up tool.
- use any parallel-acting press
- use a punch whose diameter is larger than the head of the fastener

Installation Force:
Proper installation requires an even distribution of adequate force. It does not depend on the distance the fastener is pressed into the panel.

- Southco does not recommend using a hammer. The impact force does not provide an even distribution of force to allow the panel material to completely flow into the fastener’s retaining groove.
- Installation force varies from application to application, depending on the criteria noted above.
- On parts without a collar to provide a hard stop, press-in until the edge of the knurl is just barely visible.

When to Install:
Installation is recommended after plating or finishing has been applied to the panel.
The hole diameter must meet specifications before finish or plating is applied.
- Do not over-install parts. This interrupts the material and will reduce the retention strength.