GUIDE FOR SWIVEL LIFTING EYE BOLTS

**Features**

- Swivel Lifting Eye Bolt is available to rotate 180° against the lift shaft and 180° against the lifting direction.
- Compared with CHI, Swivel Lifting Eye Bolt has approx. three times allowance load with same bolt size. Available to use at small place by changing screw diameter M and outer dimension W smaller.
- Can safely use Swivel Lifting Eye Bolt even when the lifting work from side direction, beveled direction or under tensile condition which are dangerous with the conventional eye bolt of CHI.
- Swivel Lifting Eye Bolt is available to rotate 360°.
- For burning prevention, wipe off the screw part from the dirt and dust and install after lubrication if possible.
- Strict prohibition of fastening torques exceeding indication of fastening torques for Socket head cap screw (N • m).
- Use at ordinary temperature below 40°C.

**Component Drawing**

- No. Item name
  - ① Turnnion SCM435 28
  - ② Turnnion SCM435 32
  - ③ Button bolt
  - ④ Round washer
  - ⑤ Steel ball SUJ2 60
  - ⑥ Socket head cap screw
  - ⑦ Round washer SS400
  - ⑧ Steel ball SUJ2 60
  - ⑨ Spacer cap S45C 24
  - ⑩ Button bolt

**Notes**

- Guide for installation: Sit flange on the wider surface area than swivel lifting eye bolt and fasten bolts with right torque.

**Mounting Examples**

- Lifting from vertical direction
- Lifting from side direction

**Comparison on maximum allowance load**

<table>
<thead>
<tr>
<th>Bolt size</th>
<th>Comparison on maximum allowance load (N)</th>
<th>Strength rank</th>
<th>Coating painting</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 8</td>
<td>4.5 176 104 36 105 67 130 108 273 80 200 42 65 176.6 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
<td>10.9</td>
<td>Parkerizing</td>
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<tr>
<td>M 10</td>
<td>11 33 30</td>
<td>12</td>
<td>Trivalent Chromate</td>
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<tr>
<td>M 12</td>
<td>18 60 42 36 21 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
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<td>Parkerizing</td>
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<td>M 14</td>
<td>24 90 60 45 30 20 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
<td>10.9</td>
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<td>M 16</td>
<td>31 120 80 60 40 30 20 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
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<td>M 18</td>
<td>40 180 120 90 75 60 50 40 30 20 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
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<td>M 20</td>
<td>50 240 180 140 110 90 75 60 50 40 30 20 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
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<td>M 22</td>
<td>60 300 240 180 140 110 90 75 60 50 40 30 20 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
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<td>Parkerizing</td>
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<tr>
<td>M 24</td>
<td>72 360 270 210 180 150 120 100 90 75 60 50 40 30 20 15 10 5 0.35 49 45 40 35 30 25 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
<td>10.9</td>
<td>Parkerizing</td>
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<tr>
<td>M 30</td>
<td>150 610 510 450 400 350 300 250 200 175 150 125 100 80 60 50 40 30 20 15 10 5 0.35 568 510 400 350 300 250 200 175 150 125 100 80 60 50 40 30 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
<td>10.9</td>
<td>Parkerizing</td>
</tr>
<tr>
<td>M 36</td>
<td>300 1500 1200 1000 850 750 650 550 500 450 400 350 300 250 200 175 150 125 100 80 60 50 40 30 20 15 10 5 0.35 980 870 750 650 550 500 450 400 350 300 250 200 175 150 125 100 80 60 50 40 30 20 15 10 5 0.35 245 120 45 45 10.9 Black oxide film (Coarse thread)</td>
<td>10.9</td>
<td>Parkerizing</td>
</tr>
</tbody>
</table>

**Guide for lifting work**

- As the shackle is designed for longitudinal load, do not directly hook larger ball than inner diameter of the shackle.
- When using two or more eye bolts, need attention on the loading displacement to single eye bolt depending on the lift angle.
- This item has rotating function for changing lifting direction, however, do NOT continuously rotate eye bolt in loading condition.
- Sudden lifting work is dangerous. Lift carefully with slow in lifting speed. (Impact shock may be a cause of bolt or other parts damage)
- Guide for maintenance: Make regular check-up on the change in shape and cracking according to the load working condition and operation frequency.

**Note:** Use at ordinary temperature below 40°C.