



Key Locking Devices

All key locking devices are shown in die position.

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------|------------------------------------------------|
| <h2>Ball-Lock Standard Key Locations</h2> <p>BS (Ball Seat) - 90°</p> <p>Standard Location is furnished unless specified otherwise.</p> | | | | |
| | <p>Ordering Examples:</p> <p>BPLO 13-13-63 M2 P10.0 W5.0 BS-90°</p> | <p>BPLS 13-13-63 M2 P10.0 W5.0 BS-0°</p> | <p>BPLO 13-13-63 M2 P10.0 W5.0 BS-45°</p> | <p>BPLS 13-13-63 M2 P10.0 W5.0 BS-225°</p> |

| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|
| <h2>General Standard Key Locations</h2> <p>K2 = Key Flat @ 0° K3 = Key Flat @ 0° & 180° K4 = Pin Slot @ 0°</p> <p>Standard Location is furnished unless specified otherwise.</p> | | | | |
| | <p>Ordering Examples:</p> <p>GPSO 13-13-63 M2 P10.0 W5.0 K2-0°</p> | <p>GPSS 13-13-63 M2 P10.0 W5.0 K2-90°</p> | <p>GPSO 13-13-63 M2 P10.0 W5.0 K2-45°</p> | <p>GPSS 13-13-63 M2 P10.0 W5.0 K4-225°</p> |

Automotive Industry Standards

| <p>K0 3.0 Pin Slot</p> | <p>K41 4.0 Pin Slot</p> | <p>K61 6.0 Pin Slot NAAMS Std.</p> | <p>K80 Thru-Flat</p> | <p>K85 Stepped Key Flat</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------|------------------------------------|-----|----|-----|---------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|----|-----|----|-----|----|-----|----|------|----|------|----|------|---------|-----|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|-----|---------|-----|------|---------|-----|------|
| | <table border="1"> <thead> <tr> <th>Dia. "D"</th> <th>"F"</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>6.0</td> </tr> <tr> <td>13</td> <td>7.2</td> </tr> <tr> <td>16 & up</td> <td>D/2</td> </tr> </tbody> </table> | Dia. "D" | "F" | 10 | 6.0 | 13 | 7.2 | 16 & up | D/2 | <table border="1"> <thead> <tr> <th>Dia. "D"</th> <th>"F"</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>7.0</td> </tr> <tr> <td>13</td> <td>8.2</td> </tr> <tr> <td>16</td> <td>9.0</td> </tr> <tr> <td>20</td> <td>11.0</td> </tr> <tr> <td>22</td> <td>12.0</td> </tr> <tr> <td>25</td> <td>13.5</td> </tr> <tr> <td>32 & up</td> <td>D/2</td> </tr> </tbody> </table> | Dia. "D" | "F" | 10 | 7.0 | 13 | 8.2 | 16 | 9.0 | 20 | 11.0 | 22 | 12.0 | 25 | 13.5 | 32 & up | D/2 | | <table border="1"> <thead> <tr> <th>Dia. "D"</th> <th>"F"</th> <th>"G"</th> </tr> </thead> <tbody> <tr> <td>10 - 16</td> <td>1.5</td> <td>10.0</td> </tr> <tr> <td>20 & up</td> <td>2.0</td> <td>12.0</td> </tr> </tbody> </table> | Dia. "D" | "F" | "G" | 10 - 16 | 1.5 | 10.0 | 20 & up | 2.0 | 12.0 |
| Dia. "D" | "F" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 6.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 25 | 13.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 & up | D/2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dia. "D" | "F" | "G" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 - 16 | 1.5 | 10.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 & up | 2.0 | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | | | | |
|---------------------------------|-----------------------------------|--------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| P U N C H E S | K2 Single Flat | BS Ball Seat Std. 90° | K3 Double Flats | <h2>Standard Key Locations</h2> <p>K2 = Key Flat @ 0° K3 = Key Flat @ 0° & 180° K4 = Pin Slot @ 0°</p> | K4 3.0 Pin Slot | | |
| | K2 Shown on PGU-Uphead | K2 Shown on PGU-Press-Fit | K3 Shown on PGU-Downhead | | K4 Shown on PGU-Uphead | <p>Radial degrees for non-standard locations must be specified at time of order.</p> <p>Standard Location is furnished unless specified otherwise.</p> | |
| | K2 | K2 or K8 | K3 | | K4 Headed | | K4 Headless |

*For Headless Die Buttons & Guide Bushings Only

| Dia. "D" | 5.0 | 6.0 | 8.0 | 10.0 | 13.0 | 16.0 | 20.0 | 22.0 | 25.0 | 32.0 | 38.0 | 40.0 | 45.0 | 50.0 | 56.0 | 63.0 | 71.0 | 76.0 | 85.0 | 90.0 | 100.0 |
|-----------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| *"F" Dim. | 2.2 | 2.6 | 3.5 | 4.3 | 5.6 | 6.9 | 8.7 | 9.5 | 10.8 | 13.8 | 16.5 | 17.5 | 19.5 | 21.7 | 24.2 | 27.3 | 30.7 | 33.0 | 37.5 | 40.0 | 45.0 |

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