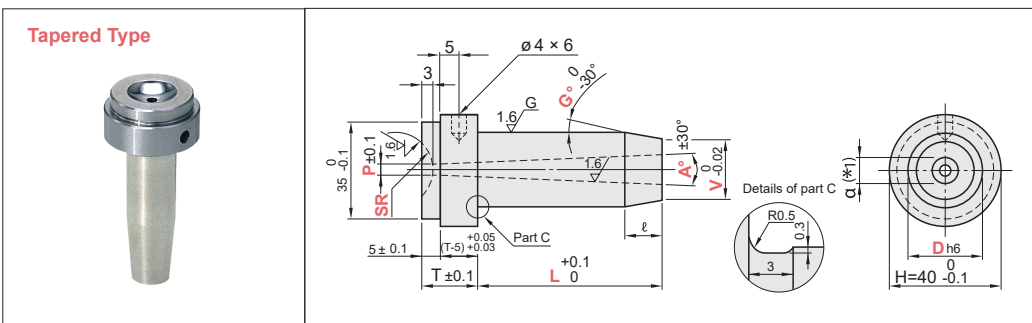


| Type | | M | H |
|--------|------------------------|-------|----------|
| Normal | String eliminator type | | |
| SJBC | SJBCH | S45C | — |
| SJBD | SJBDH | SKD61 | 48-52HRC |



| Type | | M | H |
|--------|------------------------|-------|----------|
| Normal | String eliminator type | | |
| SJTC | SJTCH | S45C | — |
| SJTD | SJT DH | SKD61 | 48-52HRC |

| Dh6 | Type | D | T | L ^(*) 0.1mm Increments | SR | P | A 0.5° Increments | V 0.1mm Increments | G 1° Increments |
|-----|-------------------------------|----|----|---|------|--------------------|-------------------------|---------------------------------|---------------------------------|
| 10 | Straight Type SJBC SJBD | 10 | 25 | 0 ~ 120.0 | 0 | 2 | 1 ~ 4 ^(*) | D>V≥α+2 | 1 ~ 10 |
| | | | 30 | | | | | | |
| 12 | SJBC SJBCH SJBDH | 12 | 25 | 0 ~ 150.0 | 10.5 | 2.5 ^(*) | 1 ~ 4 ^(*) | Available for tapered type only | Available for tapered type only |
| | | | 30 | | | | | | |
| 13 | Tapered Type SJTC SJTD | 13 | 25 | 0 ~ 200.0 | 11 | 3 ^(*) | 1 ~ 4 ^(*) | Available for tapered type only | Available for tapered type only |
| | | | 30 | | | | | | |
| 16 | SJTC SJTCH | 16 | 25 | 0 ~ 200.0 | 13 | 4 | 1 ~ 4 ^(*) | Available for tapered type only | Available for tapered type only |
| | | | 30 | | | | | | |
| 20 | SJTD SJT DH | 20 | 25 | 0 ~ 200.0 | 20 | 4.5 | 1 ~ 4 ^(*) | Available for tapered type only | Available for tapered type only |
| | | | 30 | | | | | | |

Order Example

| TYPE | D | T | L | SR | P | A | V | G |
|------|-------|-------|--------|--------|--------|------|-------|------|
| SJBD | - D13 | - T25 | - L125 | - SR16 | - P3 | - A2 | | |
| SJTC | - D20 | - T25 | - L60 | - SR11 | - P3.5 | - A3 | - V16 | - G5 |

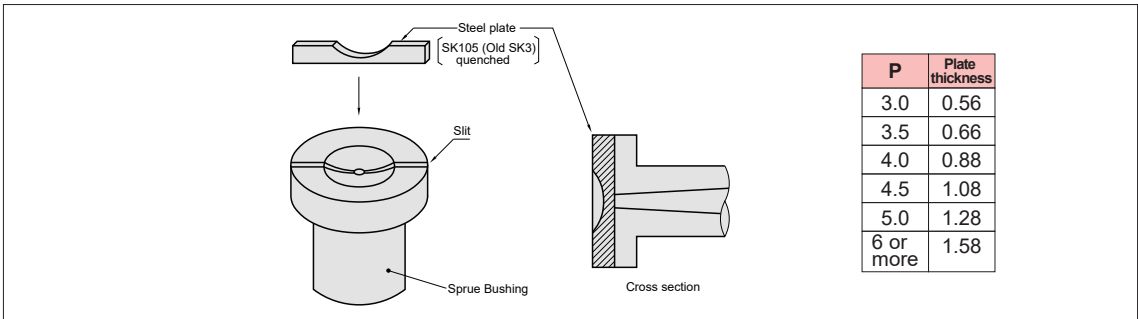
(*) The value of α is set in accordance with L dimension

(**) L dimension is restricted by P, V and A

(*) L dimension limits

| P | 2 | 2.5 | 3 | 3.5~4.5 |
|----------|----|---------|----|---------|
| A | 1 | 1.5~4.0 | 1 | 1.5~4.0 |
| L limits | 50 | 85 | 50 | 85 |

(*) Not available for product with string eliminator



| Alterations | Code | AIW | AHW | AXW | ATW | AJW | AKW | AEW | ALW | APW | AUW | ACW | Spec. | | | | | | | | | | | | | | | | | |
|---------------------|-------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|-----------------|---|-----|----|---|---|---|-----|---|---|-----|---|-----|----|---|
| Shape A (Trapezoid) | Spec. | | | | | | | | | | | | W dimension and GC ² selection <table border="1"> <thead> <tr> <th>W</th> <th>t</th> <th>GC²</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>2.5</td> <td rowspan="3">7°</td> </tr> <tr> <td>4</td> <td>3</td> </tr> <tr> <td>5</td> <td>3.5</td> </tr> <tr> <td>6</td> <td>4</td> <td rowspan="3">10°</td> </tr> <tr> <td>8</td> <td>5.5</td> </tr> <tr> <td>10</td> <td>7</td> </tr> </tbody> </table> | W | t | GC ² | 3 | 2.5 | 7° | 4 | 3 | 5 | 3.5 | 6 | 4 | 10° | 8 | 5.5 | 10 | 7 |
| W | t | GC ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2.5 | 7° | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4 | 10° | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Designation method AIW10-GC7</p> <p>⊗ Combination with ZC not available</p> <p>⊗ Combination with RC not available</p> <p>⚠ ATW, AJW, AKW, AEW, ALW, APW, AUW and ACW have working limits as follows When D=10, (α-0.6) ≥ W When D ≥ 12, (α-0.4) ≥ W</p> <p>• Dowel hole position KC position (When KC code is used)</p> <p>⚠ The trapezoidal taper angle, which was previously fixed at 10°, is now selectable from 10° or 7°</p> <p>Designation method AHW4-GC7 "Specify in the sequence "(shape) (W dimension)-GC". If you do not make a specification, (AHW4, for example) will be 10°</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Alterations | Code | BIR | BHR | BXR | BTR | BJR | BKR | BER | BLR | BPR | BUR | BCR | Spec. | | | | | | | | | | |
|----------------------|-------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|------|-----|------|---|------|-----|---|-----|---|
| Shape B (Semicircle) | Spec. | | | | | | | | | | | | • R dimension selection <table border="1"> <tbody> <tr><td>1</td></tr> <tr><td>1.25</td></tr> <tr><td>1.5</td></tr> <tr><td>1.75</td></tr> <tr><td>2</td></tr> <tr><td>2.25</td></tr> <tr><td>2.5</td></tr> <tr><td>3</td></tr> <tr><td>3.5</td></tr> <tr><td>4</td></tr> </tbody> </table> | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 3 | 3.5 | 4 |
| 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.75 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Designation method BXR2</p> <p>⊗ Combination with ZC not available</p> <p>⊗ Combination with RC not available</p> <p>⚠ BTR, BJR, BKR, BER, BLR, BPR, BUR and BCR have working limits as follows When D=10, (α-0.6) ≥ 2×R When D ≥ 12, (α-0.4) ≥ 2×R</p> <p>• Dowel hole position KC position (When KC code is used)</p> | | | | | | | | | | | | | | | | | | | | | |

| Alterations | Code | CIQ | CHQ | CXQ | CTQ | CJQ | CKQ | CEQ | CLQ | CPQ | CUQ | CCQ | Spec. | | | | | | | | |
|-----------------------|-------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|-----|---|-----|---|---|---|---|
| Shape C (Arc-tangent) | Spec. | | | | | | | | | | | | Q dimension selection <table border="1"> <tbody> <tr><td>2</td></tr> <tr><td>2.5</td></tr> <tr><td>3</td></tr> <tr><td>3.5</td></tr> <tr><td>4</td></tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>8</td></tr> </tbody> </table> | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 8 |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| | | <p>Designation method CTQ5</p> <p>⊗ Combination with ZC not available</p> <p>⊗ Combination with RC not available</p> <p>⚠ CTQ, CJQ, CKQ, CEQ, CLQ, CPQ, CUQ and CCQ have working limits as follows When D=10, (α-0.6) ≥ Q×1.09 When D ≥ 12, (α-0.4) ≥ Q×1.09</p> <p>• Dowel hole position KC position (When KC code is used)</p> | | | | | | | | | | | | | | | | | | | |

| Alterations | Code | Spec. |
|-------------|------|--|
| | KC | <p>Adds a key flat on the head</p> |
| | WKC | <p>Adds two parallel flats on the head</p> |
| | ZC | <p>Undercut machining S, T, U = 0.1mm increments ⚠ S ≥ α+2 α+2 ≤ T ≤ D (V-2UTanG) 1.5 ≤ U ≤ 5 Lmax. ≥ L+U Designation method ZC-S3.5-T4.0-U2.0</p> |

| Alterations | Code | Spec. | | |
|-------------|------|---|---|---|
| | GKC | <p>Changes the G tolerance. G₀ ... G₋₃₀ ... G₋₁₅ ⚠ Available for tapered type when ℓ ≤ 15 and (L-ℓ) ≥ 10 ⊗ Combination with ZC not available</p> | | |
| | KLC | <p>L dimension tolerance alteration L₀^{+0.1} ... L₀^{-0.02} ⚠ L dimension can be designated at 0.01mm increments when LKC is used ⊗ Combination with ZC not available</p> | | |
| | RC | <p>The step R is processed in the tip bore to prevent the connection between the sprue and the runner from breaking when releasing from the mold. ⚠ The step R is cut with an inner R cutter. Surface roughness and position precision are not provided.</p> <p>Dimension selection of step R <table border="1"> <tbody> <tr><td>1</td></tr> <tr><td>2</td></tr> </tbody> </table> </p> <p>⚠ Available for α ≥ 5 ⚠ Straight type D - α - (2 × RC) > 2 ⚠ Tapered type V - α - (2 × RC) > 2 ⊗ Combination with shapes A · B · C not available ⊗ Combination with ZC not available</p> | 1 | 2 |
| 1 | | | | |
| 2 | | | | |