

Spring Plungers · with collar and ball, front slot

EH 22075.



Product Description

Spring plungers can be used for locating or for applying pressure, as a detent or for ejection. This spring plunger is characterised by the collar with front slot. This makes it suitable for applications that require a flat surface when screwed in.

Material

Body

- Free cutting steel, blackened
- Stainless steel 1.4305
- Thermoplastic POM, blue

Ball

- Stainless steel, hardened
- Thermoplastic POM, white

Spring

- Stainless steel

More information

Notes

Customized design on request.
Spring plungers are specially tested for spring range and forces.

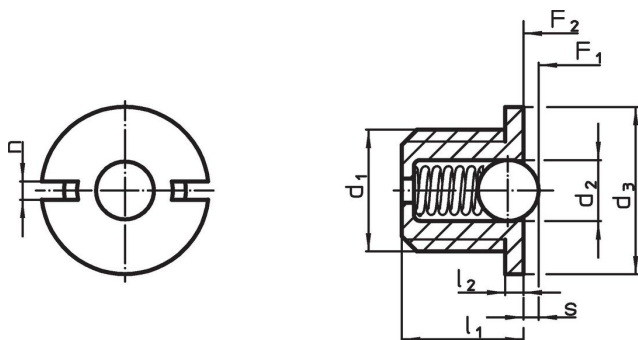
References

Thread lock on request, please refer to appendix - Technical Data -
Calculation of indexing resistance, please refer to appendix - Technical Data -

Further products

- Spring Plungers, smooth, with collar and ball
- Locators, with bore hole, for spring plungers
- Locators, smooth, for spring plungers

Drawing



Order information

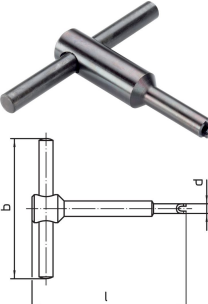
| Dimensions | | | | | | Stroke s +0.1 -0.1 [mm] | Spring load ¹⁾ | | Temperature | | Weight [g] | Art. No. |
|--|----------------|----------------|------------------------|------------------------|-----|-------------------------------------|----------------------------|----------------------------|-------------|------|---------------|------------|
| d ₁ | l ₁ | d ₂ | d ₃ -0.1 | l ₂ -0.1 | n | | F ₁ ~ [N] | F ₂ ~ [N] | min. | max. | | |
| body from free cutting steel, ball from stainless steel, standard spring load | | | | | | | | | | | | |
| M 4 | 4.0 | 2.00 | 5.5 | 0.6 | 0.6 | 0.6 | 1.7 | 3.9 | – | 250 | 0.3 | 22075.0004 |
| M 5 | 5.0 | 3.00 | 7.0 | 0.8 | 1.2 | 0.8 | 2.9 | 4.5 | – | 250 | 0.5 | 22075.0005 |
| M 6 | 6.0 | 3.50 | 8.0 | 1.0 | 1.3 | 1.0 | 3.6 | 8.7 | – | 250 | 0.8 | 22075.0006 |
| M 8 | 7.0 | 5.00 | 10.0 | 1.5 | 1.5 | 1.6 | 5.4 | 10.2 | – | 250 | 1.9 | 22075.0008 |
| M10 | 9.0 | 6.35 | 12.0 | 1.5 | 1.5 | 1.9 | 7.4 | 17.5 | – | 250 | 3.6 | 22075.0010 |
| M12 | 11.5 | 8.00 | 14.0 | 1.5 | 2.7 | 2.4 | 10.8 | 22.3 | – | 250 | 6.0 | 22075.0012 |
| body and ball from stainless steel, standard spring load | | | | | | | | | | | | |
| M 4 | 4.0 | 2.00 | 5.5 | 0.6 | 0.6 | 0.6 | 1.7 | 3.9 | – | 250 | 0.3 | 22075.0404 |
| M 5 | 5.0 | 3.00 | 7.0 | 0.8 | 1.2 | 0.8 | 2.9 | 4.5 | – | 250 | 0.5 | 22075.0405 |
| M 6 | 6.0 | 3.50 | 8.0 | 1.0 | 1.3 | 1.0 | 3.6 | 8.7 | – | 250 | 0.9 | 22075.0406 |
| M 8 | 7.0 | 5.00 | 10.0 | 1.5 | 1.5 | 1.6 | 5.4 | 10.2 | – | 250 | 1.9 | 22075.0408 |
| M10 | 9.0 | 6.35 | 12.0 | 1.5 | 1.5 | 1.9 | 7.4 | 17.5 | – | 250 | 3.7 | 22075.0410 |
| M12 | 11.5 | 8.00 | 14.0 | 1.5 | 2.7 | 2.4 | 10.8 | 22.3 | – | 250 | 6.1 | 22075.0412 |

¹⁾ statistical average value

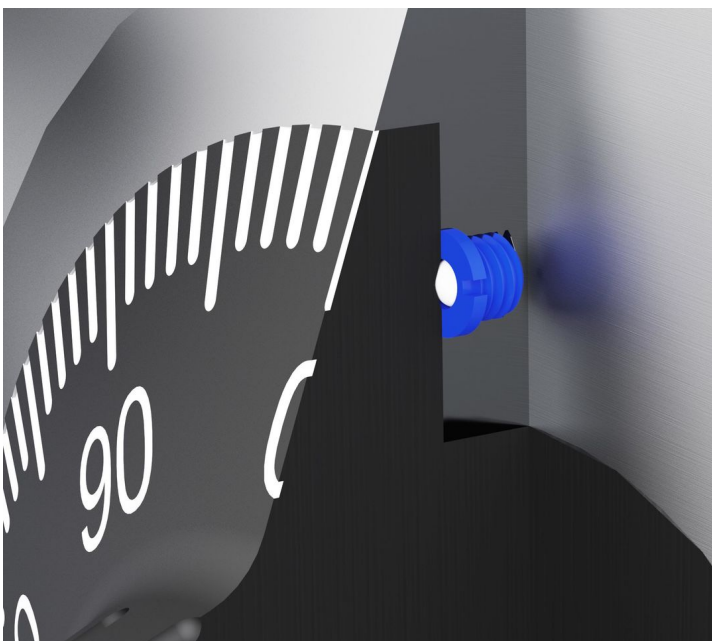
| d ₁ | l ₁ | Dimensions | | | | n | Stroke s +0.1 -0.1 [mm] | Spring load ¹⁾ | | min. | max. | [g] | Art. No. |
|---|----------------|----------------|------------------------|------------------------|------|-----|-------------------------------------|----------------------------|----------------------------|------|------|------------|----------|
| | | d ₂ | d ₃ -0.1 | l ₂ -0.1 | [mm] | | | F ₁ ~ [N] | F ₂ ~ [N] | | | | |
| body from thermoplastic, ball from stainless steel, standard spring load | | | | | | | | | | | | | |
| M 4 | 4.0 | 2.00 | 5.5 | 0.6 | 0.6 | 0.5 | 2.1 | 3.9 | -30 | 50 | 0.1 | 22075.0604 | |
| M 5 | 5.0 | 3.00 | 7.0 | 0.8 | 1.2 | 0.7 | 3.2 | 4.5 | -30 | 50 | 0.2 | 22075.0605 | |
| M 6 | 6.0 | 3.50 | 8.0 | 1.0 | 1.3 | 0.9 | 4.1 | 8.7 | -30 | 50 | 0.4 | 22075.0606 | |
| M 8 | 7.0 | 5.00 | 10.0 | 1.5 | 1.5 | 1.5 | 5.7 | 10.2 | -30 | 50 | 0.9 | 22075.0608 | |
| M10 | 9.0 | 6.50 | 12.0 | 1.5 | 1.5 | 1.9 | 9.2 | 17.2 | -30 | 50 | 1.8 | 22075.0610 | |
| M12 | 11.5 | 8.00 | 14.0 | 1.5 | 2.7 | 2.3 | 11.2 | 22.3 | -30 | 50 | 3.2 | 22075.0612 | |
| body and ball from thermoplastic, standard spring load | | | | | | | | | | | | | |
| M 4 | 4.0 | 2.00 | 5.5 | 0.6 | 0.6 | 0.5 | 2.1 | 3.9 | -30 | 50 | 0.1 | 22075.0804 | |
| M 5 | 5.0 | 3.00 | 7.0 | 0.8 | 1.2 | 0.7 | 3.2 | 4.5 | -30 | 50 | 0.2 | 22075.0805 | |
| M 6 | 6.0 | 3.50 | 8.0 | 1.0 | 1.3 | 0.9 | 4.1 | 8.7 | -30 | 50 | 0.4 | 22075.0806 | |
| M 8 | 7.0 | 5.00 | 10.0 | 1.5 | 1.5 | 1.5 | 5.7 | 10.2 | -30 | 50 | 0.9 | 22075.0808 | |
| M10 | 9.0 | 6.50 | 12.0 | 1.5 | 1.5 | 1.9 | 9.2 | 17.2 | -30 | 50 | 1.8 | 22075.0810 | |
| M12 | 11.5 | 8.00 | 14.0 | 1.5 | 2.7 | 2.3 | 11.2 | 22.3 | -30 | 50 | 3.2 | 22075.0812 | |

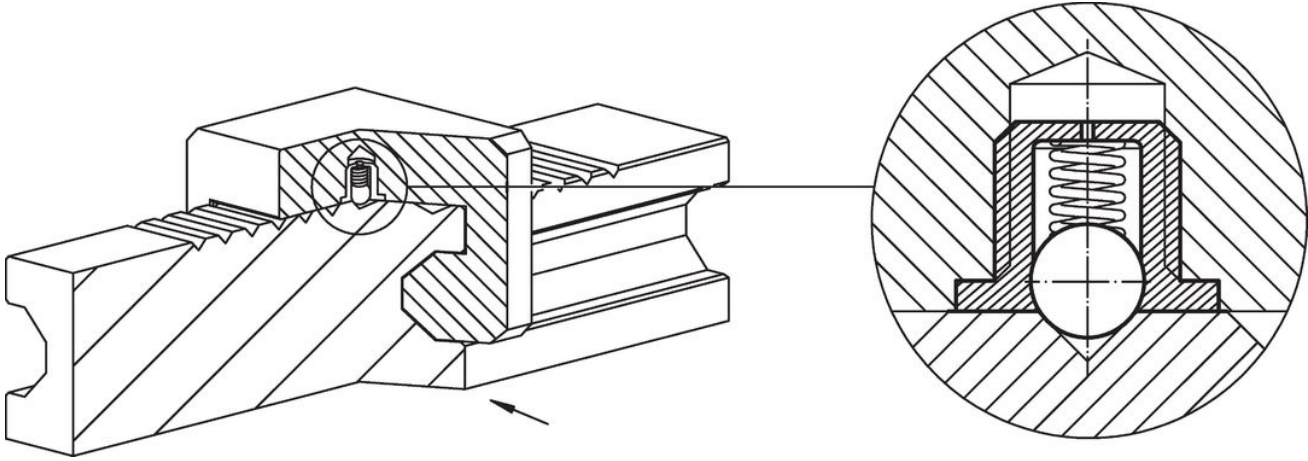
¹⁾ statistical average value

Accessories

| | Dimensions | | | | [g] | Art. No. |
|--|----------------|----|------|----|-----|------------|
| | d ₁ | b | d | l | | |
| assembly tool | | | | | | |
|  | M 4 | 50 | 5.2 | 55 | 20 | 22075.0904 |
| | M 5 | 50 | 6.7 | 55 | 24 | 22075.0905 |
| | M 6 | 50 | 7.7 | 60 | 30 | 22075.0906 |
| | M 8 | 60 | 9.7 | 60 | 47 | 22075.0908 |
| | M10 | 60 | 11.7 | 70 | 72 | 22075.0910 |
| | M12 | 80 | 13.7 | 80 | 127 | 22075.0912 |

Application example





Compliance

For detailed compliance information please select the desired article number.