

## Pins · with plastic bearing surface

EH 22691.



### Product Description

Pins with plastic bearing surface can be used as protective supports, stops, and thrust pads. This protects high-quality surfaces from damage.

### Material

#### Insert

- Plastic (PEEK), blue

#### Threaded bushing

- Stainless steel

#### Grub Screw

- Stainless steel

#### Body

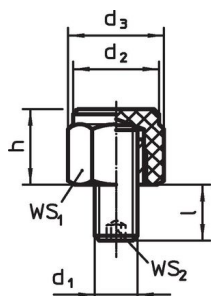
- Plastic (PEEK), blue
- Stainless steel 1.4305

### More information

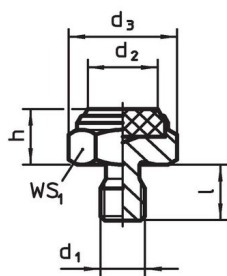
#### Further products

- Seating Elements, with plastic bearing surface, orienting
- Pins

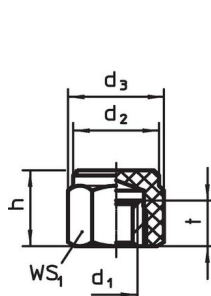
### Drawing



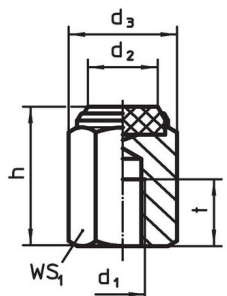
picture 1



picture 2



picture 3



picture 4

### Order information

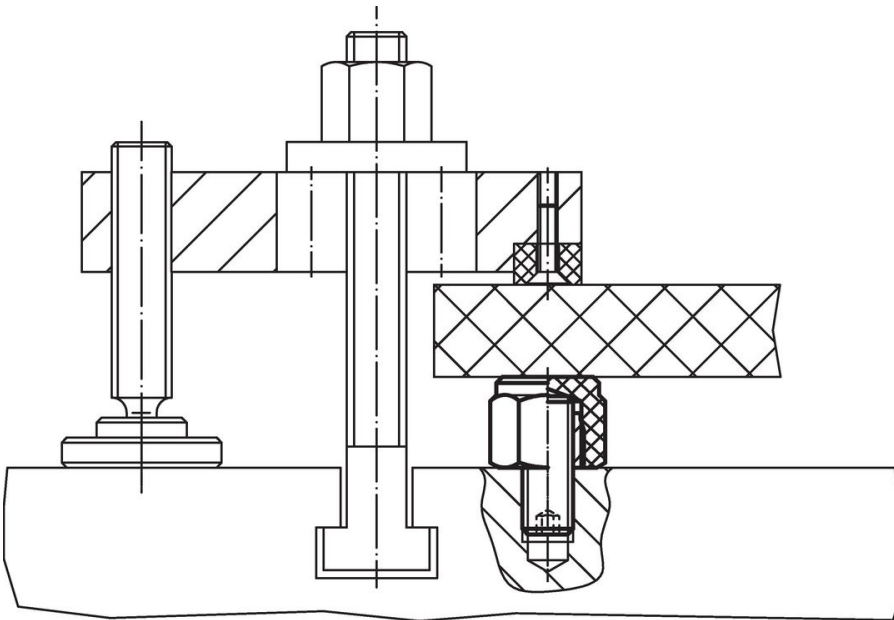
| h<br>±0.1  | Dimensions     |                |                |       |   | WS <sub>1</sub><br>[mm] | WS <sub>2</sub><br>[mm] | Load capacity<br>for static load<br>max.<br>[kN] | Tightening<br>torque<br>max.<br>[Nm] | Temperature |      | Weight<br>[g] | Art. No.   |
|--|----------------|----------------|----------------|-------|---|-------------------------|-------------------------|--|--------------------------------------|-------------|------|---------------|------------|
|  | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | l     | t |                         |                         |  |                                      | min.        | max. |               |            |
| [mm]   |                |                |                |       |   |                         |                         |  |                                      |             |      |               |            |
| with male thread, body made of plastic (PEEK), bearing surface plain – picture 1 |                |                |                |       |   |                         |                         |  |                                      |             |      |               |            |
| 15   | M 8            | 17.0           | 19.0           | 8 ±1  | – | 17                      | 4                       | 8.5  | 10                                   | -60         | 250  | 12.0          | 22691.0122 |
| 20   | M10            | 19.0           | 21.5           | 10 ±1 | – | 19                      | 5                       | 9.5  | 10                                   | -60         | 250  | 21.0          | 22691.0133 |
| 20   | M12            | 22.0           | 25.0           | 14 ±1 | – | 22                      | 6                       | 14.0   | 10                                   | -60         | 250  | 32.0          | 22691.0143 |

<sup>1)</sup> The tightening torque of bolts with female thread is for threaded pins, quality 8. The bolt has to be tightened over the total thread length.

| h<br>±0.1   | Dimensions     |                |                |    |    | WS <sub>1</sub><br>[mm] | WS <sub>2</sub><br>[mm] | Load capacity<br>for static load<br>max.<br>[kN] | Tightening<br>torque<br>max.<br>[Nm] | min. max. |     | [g]  | Art. No.   |
|---|----------------|----------------|----------------|----|----|-------------------------|-------------------------|--|--------------------------------------|-----------|-----|------|------------|
|   | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | l  | t  |                         |                         |  |                                      | [°C]      |     |      |            |
| [mm]  |                |                |                |    |    |                         |                         |  |                                      |           |     |      |            |
| <b>with male thread, plastic insert, bearing surface plain – picture 2</b>                |                |                |                |    |    |                         |                         |  |                                      |           |     |      |            |
| 10  | M 8            | 12.5           | 19.4           | 10 | –  | 17                      | –                       | 11.5   | 18                                   | -60       | 250 | 14.0 | 22691.0021 |
| 10  | M10            | 14.5           | 21.9           | 12 | –  | 19                      | –                       | 15.5   | 32                                   | -60       | 250 | 20.0 | 22691.0031 |
| 15  | M10            | 14.5           | 21.9           | 12 | –  | 19                      | –                       | 15.5   | 32                                   | -60       | 250 | 32.0 | 22691.0032 |
| 10  | M12            | 17.5           | 25.2           | 14 | –  | 22                      | –                       | 22.5   | 60                                   | -60       | 250 | 28.0 | 22691.0041 |
| 15  | M12            | 17.5           | 25.2           | 14 | –  | 22                      | –                       | 22.5   | 60                                   | -60       | 250 | 45.0 | 22691.0042 |
| <b>with female thread, body made of plastic (PEEK), bearing surface plain – picture 3</b> |                |                |                |    |    |                         |                         |  |                                      |           |     |      |            |
| 15  | M 8            | 17.0           | 19.0           | –  | 9  | 17                      | –                       | 8.5  | 10                                   | -60       | 250 | 6.4  | 22691.0222 |
| 20  | M10            | 19.0           | 21.5           | –  | 10 | 19                      | –                       | 9.5  | 10                                   | -60       | 250 | 21.0 | 22691.0233 |
| 20  | M12            | 22.0           | 25.0           | –  | 12 | 22                      | –                       | 14.0   | 10                                   | -60       | 250 | 13.0 | 22691.0243 |
| <b>with female thread, plastic insert (PEEK), bearing surface plain – picture 4</b>       |                |                |                |    |    |                         |                         |  |                                      |           |     |      |            |
| 25  | M 8            | 12.5           | 19.4           | –  | 12 | 17                      | –                       | 11.5   | 18 <sup>1)</sup>                     | -60       | 250 | 35.0 | 22691.0324 |
| 30  | M10            | 14.5           | 21.9           | –  | 15 | 19                      | –                       | 15.5   | 32 <sup>1)</sup>                     | -60       | 250 | 53.0 | 22691.0335 |
| 30  | M12            | 17.5           | 25.2           | –  | 18 | 22                      | –                       | 22.5   | 60 <sup>1)</sup>                     | -60       | 250 | 68.0 | 22691.0345 |

<sup>1)</sup> The tightening torque of bolts with female thread is for threaded pins, quality 8. The bolt has to be tightened over the total thread length.

### Application example



### Compliance

#### RoHS compliant

Compliant according to Directive 2011/65/EU and Directive 2015/863.

#### Does not contain SVHC substances

No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 27.06.2024.

#### Does not contain Proposition 65 substances

No Proposition 65 substances included.

<https://www.P65Warnings.ca.gov/>

#### Free from Conflict Minerals

This product does not contain any substances designated as "conflict minerals" such as tantalum, tin, gold or tungsten from the Democratic Republic of Congo or adjacent countries.