

## Ball Lock Pins • self-locking, with standard handle

22380.0016



### Product Description

For quick fastening, locking, adjusting, changing and securing. Quickly and easily unlockable for frequently repeated connections.

All versions are corrosion resistant. When using stainless steel 1.4542: high-strength, hardened, abrasion resistant pin with high load capacity.

Compact design with standard handle.

### Material

#### Pin part

- Stainless steel 1.4542, precipitation-hardened

#### Spring

- Stainless steel

### Operation

The balls are unlocked by pressing the button.

### Characteristic

Types from stainless steel 1.4542 with marking below the balls.

### More information

### Notes

Special types on request.

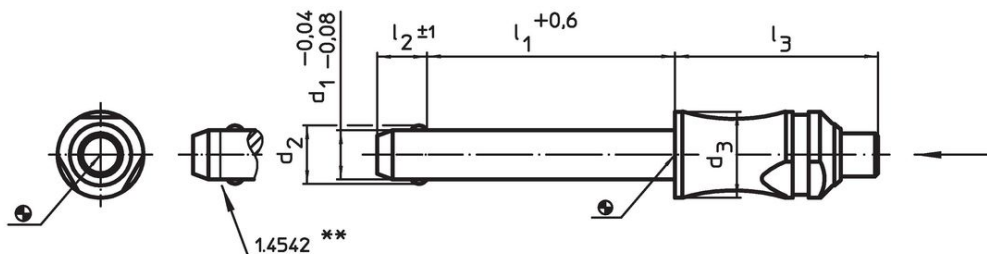
### Accessories

Can easily be fitted with retaining cable EH 22400.

### Further products

- Ball Lock Pins, self-locking, with standard handle, titanium
- Locating Bushings, for ball lock pins and socket pins
- Locating Bushings, with flange, for ball lock pins and socket pins
- Retaining Cables
- Positioning Bushings, with collar, DIN 172 A
- Positioning Bushings, without collar, DIN 179 A

### Drawing

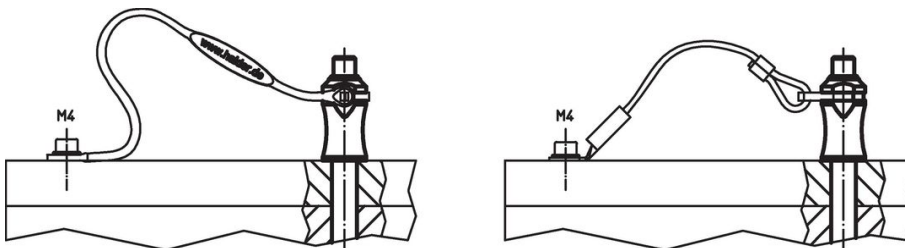
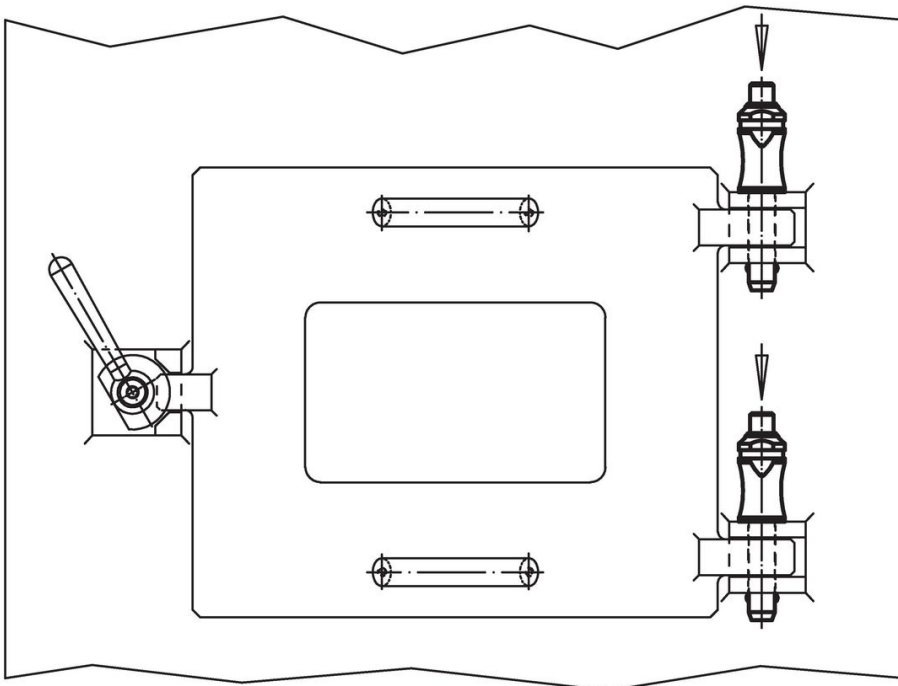


\*\* Types from stainless steel 1.4542 with marking.

### Order information

| Dimensions     |                |                |                |                      |                | Location hole<br>H11 | max. |     | Shearing<br>resistance,<br>two-shear <sup>1)</sup><br>min. | Art. No. |
|----------------|----------------|----------------|----------------|----------------------|----------------|----------------------|------|-----|--|----------|
| d <sub>1</sub> | l <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | l <sub>2</sub><br>±1 | l <sub>3</sub> |                      | [°C] | [g] | [kN]   |          |
| -0.04<br>-0.08 | +0.6           |                |                |                      |                |                      |      |     |  |          |
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| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
| [°C]           |                |                |                |                      |                |                      |      |     |  |          |
| [g]            |                |                |                |                      |                |                      |      |     |  |          |
| [kN]           |                |                |                |                      |                |                      |      |     |  |          |
| [mm]           |                |                |                |                      |                |                      |      |     |  |          |
|                |                |                |                |                      |                |                      |      |     |  |          |

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 23.01.2024.

### 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.