

## Sworznie blokujące kulkowe • samozabezpieczające, z uchwytem standardowym

EH 22370. /EH 22380.



### Opis produktu

Produkt do szybkiego ustawiania, unieruchamiania, przestawiania, zmiany i zabezpieczania. Daje się szybko i łatwo otworzyć dlatego stosuje się go do powtarzających się często połączeń. Sworznie odporne na korozję. Sworznie wykonane ze stali nierdzewnej 1.4542 dodatkowo charakteryzują się wysoką odpornością oraz hartowanym trzpieniem, dlatego wytrzymują ekstremalne obciążenia i posiadają maksymalną ochronę przed zużyciem. Kompaktowy kształt z uchwytem standardowym.

### Materiał

#### Część sworznia

- Stal nierdzewna 1.4305
- Stal nierdzewna 1.4542, utwardzana

#### Sprężyna

- Stal nierdzewna

### Działanie

Odblokowanie kulek następuje przez wciśnięcie przycisku.

### Charakterystyka

Wersje ze stali nierdzewnej 1.4542 z oznakowaniem poniżej kulki.

### Więcej informacji

#### Uwagi

Wersja specjalna na zapytanie.

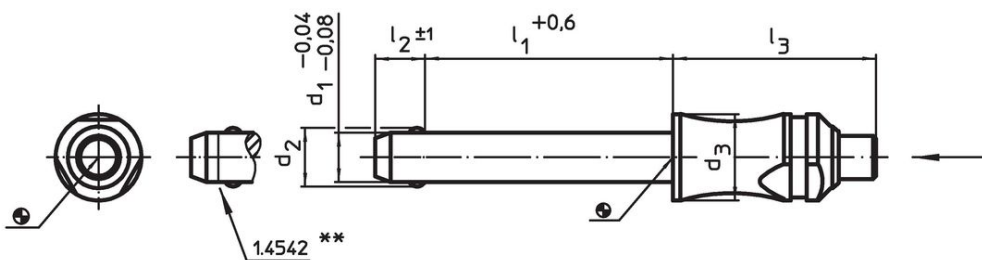
#### Akcesoria

Możliwość zamocowania linki mocującej EH 22400.

#### Inne produkty

- Sworznie blokujące kulkowe, samozabezpieczające, z uchwytem standardowym, tytan
- Tuleje mocujące, do sworzni kulkowych blokujących i sworzni wtykowych
- Tuleje mocujące, z kołnierzem, do sworzni kulkowych blokujących i sworzni wtykowych
- Linki mocujące
- Tuleje pozycjonujące, z kołnierzem, DIN 172 A
- Tuleje pozycjonujące, bez kołnierza, DIN 179 A

### Rysunek



\*\* Wykonanie: stal nierdzewna 1.4542 z oznakowaniem.

### Informacje do zamówienia

| Wymiary                |                |                |                |                |                | Otwór ustalający H11 | 🌡️ maks. | 🏋️  | Odporność na ścinanie, podwójne <sup>1)</sup> min. | Nr art.    |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------------|----------|-----|--|------------|
| d <sub>1</sub>         | l <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | l <sub>2</sub> | l <sub>3</sub> | [mm]                 | [°C]     | [g] | [kN]   |            |
| -0,04<br>-0,08         | +0,6           |                |                | ±1             | +0,6           |                      |          |     |  |            |
| [mm]                   |                |                |                |                |                |                      |          |     |  |            |
| Stal nierdzewna 1.4305 |                |                |                |                |                |                      |          |     |  |            |
| 5                      | 10             | 5,5            | 10             | 6,0            | 26,2           | 5                    | 250      | 10  | 14   | 22370.0012 |
| 5                      | 15             | 5,5            | 10             | 6,0            | 26,2           | 5                    | 250      | 11  | 14   | 22370.0013 |
| 5                      | 20             | 5,5            | 10             | 6,0            | 26,2           | 5                    | 250      | 12  | 14   | 22370.0014 |
| 5                      | 25             | 5,5            | 10             | 6,0            | 26,2           | 5                    | 250      | 12  | 14   | 22370.0015 |

<sup>1)</sup> Wytrzymałość na ścinanie zgodna z DIN 50141

| d <sub>1</sub><br>-0,04<br>-0,08 | l <sub>1</sub><br>+0,6 | Wymiary        |                |      |      | l <sub>2</sub><br>±1 | l <sub>3</sub> | Otwór<br>ustalający<br>H11 | maks.<br>🌡️ | 🏋️         | Odporność<br>na ścinanie,<br>podwójne <sup>1)</sup><br>min. | Nr art. |
|----------------------------------|------------------------|----------------|----------------|------|------|----------------------|----------------|----------------------------|-------------|------------|---|---------|
|                                  |                        | d <sub>2</sub> | d <sub>3</sub> | [mm] |      |                      |                |                            |             |            |   |         |
| 5                                | 30                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 13                         | 14          | 22370.0016 |   |         |
| 5                                | 35                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 14                         | 14          | 22370.0017 |   |         |
| 5                                | 40                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 14                         | 14          | 22370.0018 |   |         |
| 5                                | 45                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 15                         | 14          | 22370.0007 |   |         |
| 5                                | 50                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 16                         | 14          | 22370.0008 |   |         |
| 5                                | 60                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 17                         | 14          | 22370.0009 |   |         |
| 5                                | 70                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 19                         | 14          | 22370.0010 |   |         |
| 5                                | 80                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 20                         | 14          | 22370.0011 |   |         |
| 6                                | 10                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 11                         | 21          | 22370.0022 |   |         |
| 6                                | 15                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 12                         | 21          | 22370.0023 |   |         |
| 6                                | 20                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 13                         | 21          | 22370.0024 |   |         |
| 6                                | 25                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 14                         | 21          | 22370.0025 |   |         |
| 6                                | 30                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 15                         | 21          | 22370.0026 |   |         |
| 6                                | 35                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 16                         | 21          | 22370.0027 |   |         |
| 6                                | 40                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 17                         | 21          | 22370.0028 |   |         |
| 6                                | 45                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 18                         | 21          | 22370.0029 |   |         |
| 6                                | 50                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 19                         | 21          | 22370.0030 |   |         |
| 6                                | 60                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 21                         | 21          | 22370.0019 |   |         |
| 6                                | 70                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 23                         | 21          | 22370.0020 |   |         |
| 6                                | 80                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 25                         | 21          | 22370.0021 |   |         |
| 8                                | 10                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 29                         | 38          | 22370.0032 |   |         |
| 8                                | 15                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 31                         | 38          | 22370.0033 |   |         |
| 8                                | 20                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 32                         | 38          | 22370.0034 |   |         |
| 8                                | 25                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 34                         | 38          | 22370.0035 |   |         |
| 8                                | 30                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 36                         | 38          | 22370.0036 |   |         |
| 8                                | 35                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 38                         | 38          | 22370.0037 |   |         |
| 8                                | 40                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 40                         | 38          | 22370.0038 |   |         |
| 8                                | 45                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 42                         | 38          | 22370.0039 |   |         |
| 8                                | 50                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 44                         | 38          | 22370.0040 |   |         |
| 8                                | 60                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 47                         | 38          | 22370.0031 |   |         |
| 8                                | 70                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 51                         | 38          | 22370.0041 |   |         |
| 8                                | 80                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 54                         | 38          | 22370.0042 |   |         |
| 8                                | 90                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 58                         | 38          | 22370.0043 |   |         |
| 8                                | 100                    | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 62                         | 38          | 22370.0051 |   |         |
| 10                               | 15                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 36                         | 60          | 22370.0059 |   |         |
| 10                               | 20                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 39                         | 60          | 22370.0044 |   |         |
| 10                               | 25                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 42                         | 60          | 22370.0045 |   |         |
| 10                               | 30                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 45                         | 60          | 22370.0046 |   |         |
| 10                               | 35                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 48                         | 60          | 22370.0047 |   |         |
| 10                               | 40                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 51                         | 60          | 22370.0048 |   |         |
| 10                               | 45                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 54                         | 60          | 22370.0049 |   |         |
| 10                               | 50                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 57                         | 60          | 22370.0050 |   |         |
| 10                               | 60                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 63                         | 60          | 22370.0052 |   |         |
| 10                               | 70                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 69                         | 60          | 22370.0053 |   |         |
| 10                               | 80                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 74                         | 60          | 22370.0054 |   |         |
| 10                               | 90                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 80                         | 60          | 22370.0055 |   |         |
| 10                               | 100                    | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 86                         | 60          | 22370.0056 |   |         |
| 10                               | 110                    | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 92                         | 60          | 22370.0057 |   |         |
| 10                               | 120                    | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 98                         | 60          | 22370.0058 |   |         |
| 12                               | 20                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 79                         | 87          | 22370.0064 |   |         |
| 12                               | 25                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 84                         | 87          | 22370.0065 |   |         |
| 12                               | 30                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 88                         | 87          | 22370.0066 |   |         |
| 12                               | 35                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 92                         | 87          | 22370.0067 |   |         |
| 12                               | 40                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 97                         | 87          | 22370.0068 |   |         |
| 12                               | 45                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 101                        | 87          | 22370.0069 |   |         |
| 12                               | 50                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 105                        | 87          | 22370.0070 |   |         |
| 12                               | 60                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 113                        | 87          | 22370.0072 |   |         |
| 12                               | 70                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 122                        | 87          | 22370.0074 |   |         |
| 12                               | 80                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 130                        | 87          | 22370.0076 |   |         |

<sup>1)</sup> Wytrzymałość na ścinanie zgodna z DIN 50141

| d <sub>1</sub><br>-0,04<br>-0,08          | l <sub>1</sub><br>+0,6 | Wymiary        |                |      |      | l <sub>2</sub><br>±1 | l <sub>3</sub> | Otwór<br>ustalający<br>H11 | maks.<br> |            | Odporność<br>na ścinanie,<br>podwójne <sup>1)</sup><br>min. | Nr art. |
|---|------------------------|----------------|----------------|------|------|----------------------|----------------|----------------------------|-----------|------------|---|---------|
|   |                        | d <sub>2</sub> | d <sub>3</sub> | [mm] |      |                      |                |                            |           |            |   |         |
| 12  | 90                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 139                        | 87        | 22370.0060 |   |         |
| 12  | 100                    | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 147                        | 87        | 22370.0061 |   |         |
| 12  | 110                    | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 156                        | 87        | 22370.0062 |   |         |
| 12  | 120                    | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 165                        | 87        | 22370.0063 |   |         |
| 16  | 30                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 123                        | 155       | 22370.0086 |   |         |
| 16  | 35                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 130                        | 155       | 22370.0087 |   |         |
| 16  | 40                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 138                        | 155       | 22370.0088 |   |         |
| 16  | 45                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 146                        | 155       | 22370.0089 |   |         |
| 16  | 50                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 154                        | 155       | 22370.0090 |   |         |
| 16  | 60                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 169                        | 155       | 22370.0092 |   |         |
| 16  | 70                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 185                        | 155       | 22370.0094 |   |         |
| 16  | 80                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 200                        | 155       | 22370.0096 |   |         |
| 16  | 90                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 216                        | 155       | 22370.0097 |   |         |
| 16  | 100                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 232                        | 155       | 22370.0098 |   |         |
| 16  | 110                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 248                        | 155       | 22370.0099 |   |         |
| 16  | 120                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 263                        | 155       | 22370.0100 |   |         |
| 16  | 130                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 278                        | 155       | 22370.0101 |   |         |
| 16  | 140                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 294                        | 155       | 22370.0102 |   |         |
| 16  | 150                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 310                        | 155       | 22370.0103 |   |         |
| 20  | 50                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 301                        | 244       | 22370.0111 |   |         |
| 20  | 60                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 326                        | 244       | 22370.0112 |   |         |
| 20  | 70                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 351                        | 244       | 22370.0113 |   |         |
| 20  | 80                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 375                        | 244       | 22370.0116 |   |         |
| 20  | 90                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 399                        | 244       | 22370.0117 |   |         |
| 20  | 100                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 423                        | 244       | 22370.0120 |   |         |
| 20  | 110                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 448                        | 244       | 22370.0121 |   |         |
| 20  | 120                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 472                        | 244       | 22370.0124 |   |         |
| 20  | 130                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 498                        | 244       | 22370.0125 |   |         |
| 20  | 140                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 520                        | 244       | 22370.0126 |   |         |
| 20  | 150                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 546                        | 244       | 22370.0127 |   |         |
| 25  | 50                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 399                        | 386       | 22370.0129 |   |         |
| 25  | 60                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 437                        | 386       | 22370.0130 |   |         |
| 25  | 70                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 477                        | 386       | 22370.0131 |   |         |
| 25  | 80                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 513                        | 386       | 22370.0132 |   |         |
| 25  | 90                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 551                        | 386       | 22370.0133 |   |         |
| 25  | 100                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 588                        | 386       | 22370.0134 |   |         |
| 25  | 110                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 627                        | 386       | 22370.0135 |   |         |
| 25  | 120                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 664                        | 386       | 22370.0136 |   |         |
| 25  | 130                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 703                        | 386       | 22370.0137 |   |         |
| 25  | 140                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 743                        | 386       | 22370.0138 |   |         |
| 25  | 150                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 779                        | 386       | 22370.0139 |   |         |
| <b>Stal nierdzewna 1.4542, utwardzana</b> |                        |                |                |      |      |                      |                |                            |           |            |   |         |
| 5   | 10                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 10                         | 24        | 22380.0012 |   |         |
| 5   | 15                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 11                         | 24        | 22380.0013 |   |         |
| 5   | 20                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 12                         | 24        | 22380.0014 |   |         |
| 5   | 25                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 12                         | 24        | 22380.0015 |   |         |
| 5   | 30                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 13                         | 24        | 22380.0016 |   |         |
| 5   | 35                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 14                         | 24        | 22380.0017 |   |         |
| 5   | 40                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 14                         | 24        | 22380.0018 |   |         |
| 5   | 45                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 15                         | 24        | 22380.0007 |   |         |
| 5   | 50                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 16                         | 24        | 22380.0008 |   |         |
| 5   | 60                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 17                         | 24        | 22380.0009 |   |         |
| 5   | 70                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 19                         | 24        | 22380.0010 |   |         |
| 5   | 80                     | 5,5            | 10             | 6,0  | 26,2 | 5                    | 250            | 20                         | 24        | 22380.0011 |   |         |
| 6   | 10                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 11                         | 35        | 22380.0022 |   |         |
| 6   | 15                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 12                         | 35        | 22380.0023 |   |         |
| 6   | 20                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 13                         | 35        | 22380.0024 |   |         |
| 6   | 25                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 14                         | 35        | 22380.0025 |   |         |

<sup>1)</sup> Wytrzymałość na ścinanie zgodna z DIN 50141

| d <sub>1</sub><br>-0,04<br>-0,08 | l <sub>1</sub><br>+0,6 | Wymiary        |                |      |      | l <sub>2</sub><br>±1 | l <sub>3</sub> | Otwór<br>ustalający<br>H11 | maks.<br>[°C] | [g]        | Odporność<br>na ścinanie,<br>podwójne <sup>1)</sup><br>min.<br>[kN] | Nr art. |
|----------------------------------|------------------------|----------------|----------------|------|------|----------------------|----------------|----------------------------|---------------|------------|---|---------|
|                                  |                        | d <sub>2</sub> | d <sub>3</sub> | [mm] |      |                      |                |                            |               |            |   |         |
| 6                                | 30                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 15                         | 35            | 22380.0026 |   |         |
| 6                                | 35                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 16                         | 35            | 22380.0027 |   |         |
| 6                                | 40                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 17                         | 35            | 22380.0028 |   |         |
| 6                                | 45                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 18                         | 35            | 22380.0029 |   |         |
| 6                                | 50                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 19                         | 35            | 22380.0030 |   |         |
| 6                                | 60                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 21                         | 35            | 22380.0019 |   |         |
| 6                                | 70                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 23                         | 35            | 22380.0020 |   |         |
| 6                                | 80                     | 7,0            | 10             | 7,0  | 26,2 | 6                    | 250            | 25                         | 35            | 22380.0021 |   |         |
| 8                                | 10                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 29                         | 63            | 22380.0032 |   |         |
| 8                                | 15                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 31                         | 63            | 22380.0033 |   |         |
| 8                                | 20                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 32                         | 63            | 22380.0034 |   |         |
| 8                                | 25                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 34                         | 63            | 22380.0035 |   |         |
| 8                                | 30                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 36                         | 63            | 22380.0036 |   |         |
| 8                                | 35                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 38                         | 63            | 22380.0037 |   |         |
| 8                                | 40                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 40                         | 63            | 22380.0038 |   |         |
| 8                                | 45                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 42                         | 63            | 22380.0039 |   |         |
| 8                                | 50                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 44                         | 63            | 22380.0040 |   |         |
| 8                                | 60                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 47                         | 63            | 22380.0031 |   |         |
| 8                                | 70                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 51                         | 63            | 22380.0041 |   |         |
| 8                                | 80                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 54                         | 63            | 22380.0042 |   |         |
| 8                                | 90                     | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 58                         | 63            | 22380.0043 |   |         |
| 8                                | 100                    | 9,5            | 14             | 8,2  | 33,1 | 8                    | 250            | 62                         | 63            | 22380.0051 |   |         |
| 10                               | 15                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 36                         | 100           | 22380.0059 |   |         |
| 10                               | 20                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 39                         | 100           | 22380.0044 |   |         |
| 10                               | 25                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 42                         | 100           | 22380.0045 |   |         |
| 10                               | 30                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 45                         | 100           | 22380.0046 |   |         |
| 10                               | 35                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 48                         | 100           | 22380.0047 |   |         |
| 10                               | 40                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 51                         | 100           | 22380.0048 |   |         |
| 10                               | 45                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 54                         | 100           | 22380.0049 |   |         |
| 10                               | 50                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 57                         | 100           | 22380.0050 |   |         |
| 10                               | 60                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 63                         | 100           | 22380.0052 |   |         |
| 10                               | 70                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 69                         | 100           | 22380.0053 |   |         |
| 10                               | 80                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 74                         | 100           | 22380.0054 |   |         |
| 10                               | 90                     | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 80                         | 100           | 22380.0055 |   |         |
| 10                               | 100                    | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 86                         | 100           | 22380.0056 |   |         |
| 10                               | 110                    | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 92                         | 100           | 22380.0057 |   |         |
| 10                               | 120                    | 12,0           | 14             | 9,6  | 33,1 | 10                   | 250            | 98                         | 100           | 22380.0058 |   |         |
| 12                               | 20                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 79                         | 144           | 22380.0064 |   |         |
| 12                               | 25                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 84                         | 144           | 22380.0065 |   |         |
| 12                               | 30                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 88                         | 144           | 22380.0066 |   |         |
| 12                               | 35                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 92                         | 144           | 22380.0067 |   |         |
| 12                               | 40                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 97                         | 144           | 22380.0068 |   |         |
| 12                               | 45                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 101                        | 144           | 22380.0069 |   |         |
| 12                               | 50                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 105                        | 144           | 22380.0070 |   |         |
| 12                               | 60                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 113                        | 144           | 22380.0072 |   |         |
| 12                               | 70                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 122                        | 144           | 22380.0074 |   |         |
| 12                               | 80                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 130                        | 144           | 22380.0076 |   |         |
| 12                               | 90                     | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 139                        | 144           | 22380.0060 |   |         |
| 12                               | 100                    | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 147                        | 144           | 22380.0061 |   |         |
| 12                               | 110                    | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 156                        | 144           | 22380.0062 |   |         |
| 12                               | 120                    | 14,5           | 20             | 10,6 | 39,5 | 12                   | 250            | 165                        | 144           | 22380.0063 |   |         |
| 16                               | 30                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 123                        | 257           | 22380.0086 |   |         |
| 16                               | 35                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 130                        | 257           | 22380.0087 |   |         |
| 16                               | 40                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 138                        | 257           | 22380.0088 |   |         |
| 16                               | 45                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 146                        | 257           | 22380.0089 |   |         |
| 16                               | 50                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 154                        | 257           | 22380.0090 |   |         |
| 16                               | 60                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 169                        | 257           | 22380.0092 |   |         |
| 16                               | 70                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 185                        | 257           | 22380.0094 |   |         |
| 16                               | 80                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 200                        | 257           | 22380.0096 |   |         |

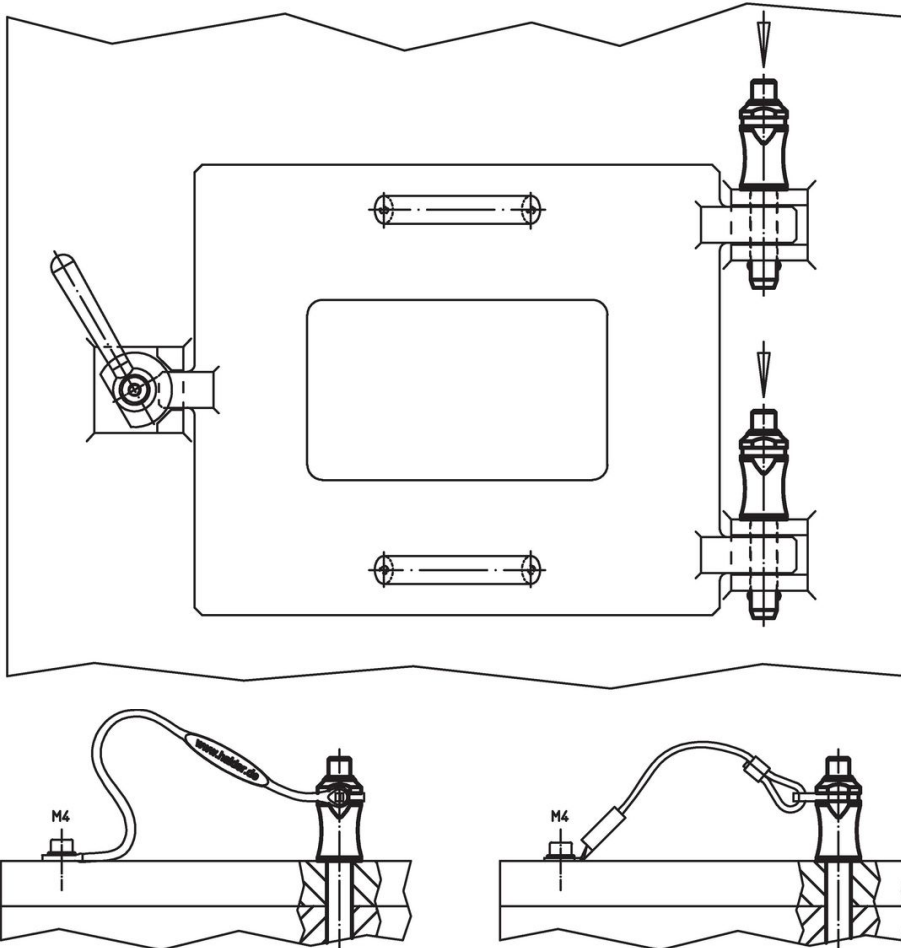
<sup>1)</sup> Wytrzymałość na ścinanie zgodna z DIN 50141

| d <sub>1</sub><br>-0,04<br>-0,08 | l <sub>1</sub><br>+0,6 | Wymiary        |                |      |      | l <sub>2</sub><br>±1 | l <sub>3</sub> | Otwór<br>ustalający<br>H11 | 🌡️<br>maks. | 📦<br>[g]   | Odporność<br>na ścinanie,<br>podwójne <sup>1)</sup><br>min. | Nr art. |
|----------------------------------|------------------------|----------------|----------------|------|------|----------------------|----------------|----------------------------|-------------|------------|---|---------|
|                                  |                        | d <sub>2</sub> | d <sub>3</sub> | [mm] |      |                      |                |                            |             |            |   |         |
| 16                               | 90                     | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 216                        | 257         | 22380.0097 |   |         |
| 16                               | 100                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 232                        | 257         | 22380.0098 |   |         |
| 16                               | 110                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 248                        | 257         | 22380.0099 |   |         |
| 16                               | 120                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 263                        | 257         | 22380.0100 |   |         |
| 16                               | 130                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 278                        | 257         | 22380.0101 |   |         |
| 16                               | 140                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 294                        | 257         | 22380.0102 |   |         |
| 16                               | 150                    | 19,0           | 20             | 14,0 | 39,5 | 16                   | 250            | 310                        | 257         | 22380.0103 |   |         |
| 20                               | 50                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 301                        | 403         | 22380.0111 |   |         |
| 20                               | 60                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 326                        | 403         | 22380.0112 |   |         |
| 20                               | 70                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 351                        | 403         | 22380.0113 |   |         |
| 20                               | 80                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 375                        | 403         | 22380.0116 |   |         |
| 20                               | 90                     | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 399                        | 403         | 22380.0117 |   |         |
| 20                               | 100                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 423                        | 403         | 22380.0120 |   |         |
| 20                               | 110                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 448                        | 403         | 22380.0121 |   |         |
| 20                               | 120                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 472                        | 403         | 22380.0124 |   |         |
| 20                               | 130                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 498                        | 403         | 22380.0125 |   |         |
| 20                               | 140                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 520                        | 403         | 22380.0126 |   |         |
| 20                               | 150                    | 25,0           | 28             | 20,5 | 49,9 | 20                   | 250            | 546                        | 403         | 22380.0127 |   |         |
| 25                               | 50                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 399                        | 631         | 22380.0129 |   |         |
| 25                               | 60                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 437                        | 631         | 22380.0130 |   |         |
| 25                               | 70                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 477                        | 631         | 22380.0131 |   |         |
| 25                               | 80                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 513                        | 631         | 22380.0132 |   |         |
| 25                               | 90                     | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 551                        | 631         | 22380.0133 |   |         |
| 25                               | 100                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 588                        | 631         | 22380.0134 |   |         |
| 25                               | 110                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 627                        | 631         | 22380.0135 |   |         |
| 25                               | 120                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 664                        | 631         | 22380.0136 |   |         |
| 25                               | 130                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 703                        | 631         | 22380.0137 |   |         |
| 25                               | 140                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 743                        | 631         | 22380.0138 |   |         |
| 25                               | 150                    | 30,8           | 28             | 22,0 | 49,9 | 25                   | 250            | 779                        | 631         | 22380.0139 |   |         |

<sup>1)</sup> Wytrzymałość na ścinanie zgodna z DIN 50141

### Przykład aplikacji





## Zgodność

### Zgodny z RoHS

Zgodny zgodnie z Dyrektywą 2011/65/UE i Dyrektywą 2015/863

### Nie zawiera substancji SVHC

Brak substancji SVHC o zawartości powyżej 0,1% mas. – lista SVHC z 27.06.2024.

### Nie zawiera substancji Propozycji 65

Nie zawiera substancji z rozporządzenia Proposition 65.

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

### Wolny od minerałów konfliktu

Ten produkt nie zawiera żadnych substancji oznaczonych jako „minerały konfliktu”, takich jak tantal, cyna, złoto lub wolfram z Demokratycznej Republiki Konga lub krajów sąsiednich.