

Ball Lock Pins • self-locking, with combination handle

EH 22370.



Product Description

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

All versions are corrosion resistant.

Ergonomic grip, different colour combinations available. The grip design provides protection of unintentional unlocking.

Material

Pin part

- Stainless steel 1.4305

Handle

- Thermoplastic PA 6 grey / orange
- Thermoplastic PA 6 grey / grey
- Thermoplastic PA 6 grey / blue
- Thermoplastic PA 6 black / black

Spring

- Stainless steel

Operation

The balls are unlocked by pressing the button.

More information

Notes

Customized design on request.

References

Stainless steel 1.4542, see EH 22380.

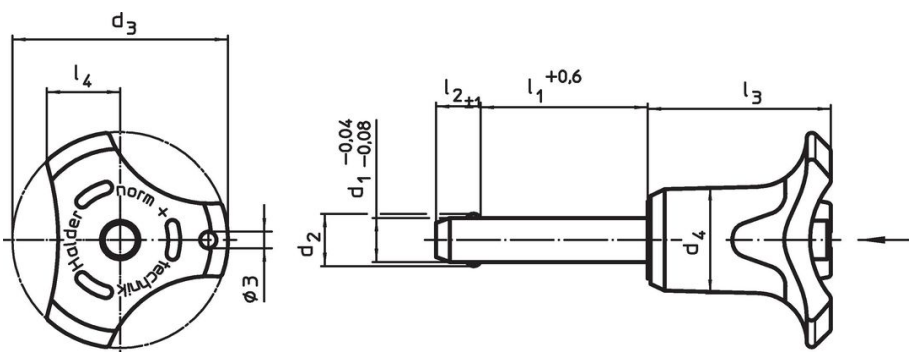
Accessories

Can easily be fitted with retaining cable EH 22400.

Further products

- Ball Lock Pins, self-locking, with combination handle, precipitation-hardened
- 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





Order information

| Dimensions | | | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] | Temperature | | Weight [g] | Art. No. |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------|---|-------------|------|---------------|------------|
| d ₁ | l ₁ | d ₂ | d ₃ | d ₄ | l ₂ | l ₃ | l ₄ | | | min. | max. | | |
| -0.04 -0.08 | +0.6 | | | | ±1 | | | | | | | | |
| [mm] | | | | | | | | | | | | | |
| [°C] | | | | | | | | | | | | | |
| [mm] | | | | | | | | | | | | | |
| [kN] | | | | | | | | | | | | | |
| [g] | | | | | | | | | | | | | |
| Handle colour: orange | | | | | | | | | | | | | |
| 5 | 10 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0152 |
| 5 | 15 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 15 | 22370.0153 |
| 5 | 20 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 16 | 22370.0154 |
| 5 | 25 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 17 | 22370.0155 |
| 5 | 30 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0156 |
| 5 | 35 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0145 |



¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | [°C] | | | |
| | | [mm] | | | | | | | | | | | |
| 5 | 40 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 20 | 22370.0146 |
| 5 | 45 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0147 |
| 5 | 50 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 23 | 22370.0148 |
| 5 | 60 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0149 |
| 5 | 70 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0150 |
| 5 | 80 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0151 |
| 6 | 10 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 16 | 22370.0162 |
| 6 | 15 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 17 | 22370.0163 |
| 6 | 20 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 18 | 22370.0164 |
| 6 | 25 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 19 | 22370.0165 |
| 6 | 30 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 20 | 22370.0166 |
| 6 | 35 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 21 | 22370.0167 |
| 6 | 40 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 22 | 22370.0168 |
| 6 | 45 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 23 | 22370.0169 |
| 6 | 50 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 24 | 22370.0170 |
| 6 | 60 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 26 | 22370.0157 |
| 6 | 70 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 28 | 22370.0158 |
| 6 | 80 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 30 | 22370.0159 |
| 8 | 10 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 38 | 22370.0172 |
| 8 | 15 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 37 | 22370.0173 |
| 8 | 20 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 39 | 22370.0174 |
| 8 | 25 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 42 | 22370.0175 |
| 8 | 30 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 44 | 22370.0176 |
| 8 | 35 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 46 | 22370.0177 |
| 8 | 40 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 47 | 22370.0178 |
| 8 | 45 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 49 | 22370.0179 |
| 8 | 50 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 51 | 22370.0180 |
| 8 | 60 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 62 | 22370.0181 |
| 8 | 70 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 65 | 22370.0182 |
| 8 | 80 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 69 | 22370.0183 |
| 8 | 90 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 36 | 22370.0171 |
| 8 | 100 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 54 | 22370.0161 |
| 10 | 15 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 86 | 22370.0191 |
| 10 | 20 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 46 | 22370.0184 |
| 10 | 25 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 49 | 22370.0185 |
| 10 | 30 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0186 |
| 10 | 35 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 55 | 22370.0187 |
| 10 | 40 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 57 | 22370.0188 |
| 10 | 45 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 61 | 22370.0189 |
| 10 | 50 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 64 | 22370.0190 |
| 10 | 60 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 70 | 22370.0192 |
| 10 | 70 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 91 | 22370.0193 |
| 10 | 80 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 97 | 22370.0194 |
| 10 | 90 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 103 | 22370.0195 |
| 10 | 100 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 109 | 22370.0196 |
| 10 | 110 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 115 | 22370.0197 |
| 10 | 120 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0198 |
| 12 | 20 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 91 | 22370.0204 |
| 12 | 25 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 96 | 22370.0205 |
| 12 | 30 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 100 | 22370.0206 |
| 12 | 35 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 105 | 22370.0207 |
| 12 | 40 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 109 | 22370.0208 |
| 12 | 45 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 113 | 22370.0209 |
| 12 | 50 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 117 | 22370.0210 |
| 12 | 60 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 126 | 22370.0212 |
| 12 | 70 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 134 | 22370.0214 |
| 12 | 80 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 143 | 22370.0216 |
| 12 | 90 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 165 | 22370.0217 |
| 12 | 100 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 173 | 22370.0218 |



¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | [°C] | | | |
| [mm] | | | | | | | | | | | | | |
| 12 | 110 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 182 | 22370.0219 |
| 12 | 120 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 177 | 22370.0220 |
| 16 | 30 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 132 | 22370.0226 |
| 16 | 35 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 140 | 22370.0227 |
| 16 | 40 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 148 | 22370.0228 |
| 16 | 45 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 155 | 22370.0229 |
| 16 | 50 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 168 | 22370.0230 |
| 16 | 60 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 178 | 22370.0232 |
| 16 | 70 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 194 | 22370.0234 |
| 16 | 80 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 208 | 22370.0236 |
| 16 | 90 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 234 | 22370.0237 |
| 16 | 100 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 251 | 22370.0238 |
| 16 | 110 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 266 | 22370.0239 |
| 16 | 120 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 281 | 22370.0240 |
| 16 | 130 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 297 | 22370.0241 |
| 16 | 140 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 313 | 22370.0242 |
| 16 | 150 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 328 | 22370.0243 |
| 20 | 50 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 329 | 22370.0251 |
| 20 | 60 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 343 | 22370.0252 |
| 20 | 70 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 377 | 22370.0253 |
| 20 | 80 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 392 | 22370.0256 |
| 20 | 90 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 426 | 22370.0257 |
| 20 | 100 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 444 | 22370.0260 |
| 20 | 110 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 474 | 22370.0261 |
| 20 | 120 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 488 | 22370.0264 |
| 20 | 130 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 523 | 22370.0265 |
| 20 | 140 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 546 | 22370.0266 |
| 20 | 150 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 571 | 22370.0267 |
| 25 | 50 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 415 | 22370.0269 |
| 25 | 60 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 453 | 22370.0270 |
| 25 | 70 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 503 | 22370.0271 |
| 25 | 80 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 536 | 22370.0272 |
| 25 | 90 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 565 | 22370.0273 |
| 25 | 100 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 612 | 22370.0274 |
| 25 | 110 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 640 | 22370.0275 |
| 25 | 120 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 689 | 22370.0276 |
| 25 | 130 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 715 | 22370.0277 |
| 25 | 140 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 753 | 22370.0278 |
| 25 | 150 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 811 | 22370.0279 |
| Handle colour: grey | | | | | | | | | | | | | |
| 5 | 10 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0292 |
| 5 | 15 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 15 | 22370.0293 |
| 5 | 20 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 16 | 22370.0294 |
| 5 | 25 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 17 | 22370.0295 |
| 5 | 30 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0296 |
| 5 | 35 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0285 |
| 5 | 40 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 20 | 22370.0286 |
| 5 | 45 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0287 |
| 5 | 50 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 23 | 22370.0288 |
| 5 | 60 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0289 |
| 5 | 70 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0290 |
| 5 | 80 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0291 |
| 6 | 10 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 16 | 22370.0302 |
| 6 | 15 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 17 | 22370.0303 |
| 6 | 20 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 18 | 22370.0304 |
| 6 | 25 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 19 | 22370.0305 |
| 6 | 30 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 20 | 22370.0306 |
| 6 | 35 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 21 | 22370.0307 |



¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. [°C] | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | | | | |
| 6 | 40 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 22 | 22370.0308 |
| 6 | 45 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 23 | 22370.0309 |
| 6 | 50 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 24 | 22370.0310 |
| 6 | 60 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 26 | 22370.0297 |
| 6 | 70 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 28 | 22370.0298 |
| 6 | 80 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 30 | 22370.0299 |
| 8 | 10 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 38 | 22370.0312 |
| 8 | 15 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 37 | 22370.0313 |
| 8 | 20 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 39 | 22370.0314 |
| 8 | 25 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 42 | 22370.0315 |
| 8 | 30 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 44 | 22370.0316 |
| 8 | 35 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 46 | 22370.0317 |
| 8 | 40 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 47 | 22370.0318 |
| 8 | 45 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 49 | 22370.0319 |
| 8 | 50 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 51 | 22370.0320 |
| 8 | 60 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 62 | 22370.0321 |
| 8 | 70 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 65 | 22370.0322 |
| 8 | 80 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 69 | 22370.0323 |
| 8 | 90 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 36 | 22370.0311 |
| 8 | 100 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 54 | 22370.0301 |
| 10 | 15 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 86 | 22370.0331 |
| 10 | 20 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 46 | 22370.0324 |
| 10 | 25 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 49 | 22370.0325 |
| 10 | 30 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0326 |
| 10 | 35 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 55 | 22370.0327 |
| 10 | 40 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 57 | 22370.0328 |
| 10 | 45 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 61 | 22370.0329 |
| 10 | 50 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 64 | 22370.0330 |
| 10 | 60 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 70 | 22370.0332 |
| 10 | 70 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 91 | 22370.0333 |
| 10 | 80 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 97 | 22370.0334 |
| 10 | 90 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 103 | 22370.0335 |
| 10 | 100 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 109 | 22370.0336 |
| 10 | 110 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 115 | 22370.0337 |
| 10 | 120 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0338 |
| 12 | 20 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 91 | 22370.0344 |
| 12 | 25 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 96 | 22370.0345 |
| 12 | 30 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 100 | 22370.0346 |
| 12 | 35 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 105 | 22370.0347 |
| 12 | 40 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 109 | 22370.0348 |
| 12 | 45 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 113 | 22370.0349 |
| 12 | 50 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 117 | 22370.0350 |
| 12 | 60 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 126 | 22370.0352 |
| 12 | 70 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 134 | 22370.0354 |
| 12 | 80 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 143 | 22370.0356 |
| 12 | 90 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 165 | 22370.0357 |
| 12 | 100 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 173 | 22370.0358 |
| 12 | 110 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 182 | 22370.0359 |
| 12 | 120 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 177 | 22370.0360 |
| 16 | 30 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 132 | 22370.0366 |
| 16 | 35 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 140 | 22370.0367 |
| 16 | 40 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 148 | 22370.0368 |
| 16 | 45 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 155 | 22370.0369 |
| 16 | 50 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 168 | 22370.0370 |
| 16 | 60 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 178 | 22370.0372 |
| 16 | 70 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 194 | 22370.0374 |
| 16 | 80 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 208 | 22370.0376 |
| 16 | 90 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 234 | 22370.0377 |
| 16 | 100 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 251 | 22370.0378 |



¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. [°C] | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | [°C] | | | |
| 16 | 110 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 266 | 22370.0379 |
| 16 | 120 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 281 | 22370.0380 |
| 16 | 130 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 297 | 22370.0381 |
| 16 | 140 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 313 | 22370.0382 |
| 16 | 150 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 328 | 22370.0383 |
| 20 | 50 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 329 | 22370.0391 |
| 20 | 60 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 343 | 22370.0392 |
| 20 | 70 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 377 | 22370.0393 |
| 20 | 80 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 392 | 22370.0396 |
| 20 | 90 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 426 | 22370.0397 |
| 20 | 100 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 444 | 22370.0400 |
| 20 | 110 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 474 | 22370.0401 |
| 20 | 120 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 488 | 22370.0404 |
| 20 | 130 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 523 | 22370.0405 |
| 20 | 140 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 546 | 22370.0406 |
| 20 | 150 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 571 | 22370.0407 |
| 25 | 50 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 415 | 22370.0409 |
| 25 | 60 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 453 | 22370.0410 |
| 25 | 70 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 503 | 22370.0411 |
| 25 | 80 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 536 | 22370.0412 |
| 25 | 90 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 565 | 22370.0413 |
| 25 | 100 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 612 | 22370.0414 |
| 25 | 110 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 640 | 22370.0415 |
| 25 | 120 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 689 | 22370.0416 |
| 25 | 130 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 715 | 22370.0417 |
| 25 | 140 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 753 | 22370.0418 |
| 25 | 150 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 811 | 22370.0419 |
| Handle colour: blue | | | | | | | | | | | | | |
| 5 | 10 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0432 |
| 5 | 15 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 15 | 22370.0433 |
| 5 | 20 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 16 | 22370.0434 |
| 5 | 25 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 17 | 22370.0435 |
| 5 | 30 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0436 |
| 5 | 35 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0425 |
| 5 | 40 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 20 | 22370.0426 |
| 5 | 45 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0427 |
| 5 | 50 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 23 | 22370.0428 |
| 5 | 60 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0429 |
| 5 | 70 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0430 |
| 5 | 80 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0431 |
| 6 | 10 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 16 | 22370.0442 |
| 6 | 15 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 17 | 22370.0443 |
| 6 | 20 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 18 | 22370.0444 |
| 6 | 25 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 19 | 22370.0445 |
| 6 | 30 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 20 | 22370.0446 |
| 6 | 35 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 21 | 22370.0447 |
| 6 | 40 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 22 | 22370.0448 |
| 6 | 45 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 23 | 22370.0449 |
| 6 | 50 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 24 | 22370.0450 |
| 6 | 60 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 26 | 22370.0437 |
| 6 | 70 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 28 | 22370.0438 |
| 6 | 80 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 30 | 22370.0439 |
| 8 | 10 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 38 | 22370.0452 |
| 8 | 15 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 37 | 22370.0453 |
| 8 | 20 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 39 | 22370.0454 |
| 8 | 25 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 42 | 22370.0455 |
| 8 | 30 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 44 | 22370.0456 |
| 8 | 35 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 46 | 22370.0457 |



¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | [°C] | | | |
| 8 | 40 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 47 | 22370.0458 |
| 8 | 45 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 49 | 22370.0459 |
| 8 | 50 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 51 | 22370.0460 |
| 8 | 60 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 62 | 22370.0461 |
| 8 | 70 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 65 | 22370.0462 |
| 8 | 80 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 69 | 22370.0463 |
| 8 | 90 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 36 | 22370.0451 |
| 8 | 100 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 54 | 22370.0441 |
| 10 | 15 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 86 | 22370.0471 |
| 10 | 20 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 46 | 22370.0464 |
| 10 | 25 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 49 | 22370.0465 |
| 10 | 30 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0466 |
| 10 | 35 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 55 | 22370.0467 |
| 10 | 40 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 57 | 22370.0468 |
| 10 | 45 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 61 | 22370.0469 |
| 10 | 50 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 64 | 22370.0470 |
| 10 | 60 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 70 | 22370.0472 |
| 10 | 70 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 91 | 22370.0473 |
| 10 | 80 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 97 | 22370.0474 |
| 10 | 90 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 103 | 22370.0475 |
| 10 | 100 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 109 | 22370.0476 |
| 10 | 110 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 115 | 22370.0477 |
| 10 | 120 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0478 |
| 12 | 20 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 91 | 22370.0484 |
| 12 | 25 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 96 | 22370.0485 |
| 12 | 30 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 100 | 22370.0486 |
| 12 | 35 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 105 | 22370.0487 |
| 12 | 40 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 109 | 22370.0488 |
| 12 | 45 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 113 | 22370.0489 |
| 12 | 50 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 117 | 22370.0490 |
| 12 | 60 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 126 | 22370.0492 |
| 12 | 70 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 134 | 22370.0494 |
| 12 | 80 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 143 | 22370.0496 |
| 12 | 90 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 165 | 22370.0497 |
| 12 | 100 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 173 | 22370.0498 |
| 12 | 110 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 182 | 22370.0499 |
| 12 | 120 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 177 | 22370.0500 |
| 16 | 30 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 132 | 22370.0506 |
| 16 | 35 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 140 | 22370.0507 |
| 16 | 40 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 148 | 22370.0508 |
| 16 | 45 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 155 | 22370.0509 |
| 16 | 50 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 168 | 22370.0510 |
| 16 | 60 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 178 | 22370.0512 |
| 16 | 70 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 194 | 22370.0514 |
| 16 | 80 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 208 | 22370.0516 |
| 16 | 90 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 234 | 22370.0517 |
| 16 | 100 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 251 | 22370.0518 |
| 16 | 110 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 266 | 22370.0519 |
| 16 | 120 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 281 | 22370.0520 |
| 16 | 130 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 297 | 22370.0521 |
| 16 | 140 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 313 | 22370.0522 |
| 16 | 150 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 328 | 22370.0523 |
| 20 | 50 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 329 | 22370.0531 |
| 20 | 60 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 343 | 22370.0532 |
| 20 | 70 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 377 | 22370.0533 |
| 20 | 80 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 392 | 22370.0536 |
| 20 | 90 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 426 | 22370.0537 |
| 20 | 100 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 444 | 22370.0540 |
| 20 | 110 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 474 | 22370.0541 |

¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | [°C] | | | |
| | | [mm] | | | | | | | | | | | |
| 20 | 120 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 488 | 22370.0544 |
| 20 | 130 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 523 | 22370.0545 |
| 20 | 140 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 546 | 22370.0546 |
| 20 | 150 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 571 | 22370.0547 |
| 25 | 50 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 415 | 22370.0549 |
| 25 | 60 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 453 | 22370.0550 |
| 25 | 70 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 503 | 22370.0551 |
| 25 | 80 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 536 | 22370.0552 |
| 25 | 90 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 565 | 22370.0553 |
| 25 | 100 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 612 | 22370.0554 |
| 25 | 110 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 640 | 22370.0555 |
| 25 | 120 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 689 | 22370.0556 |
| 25 | 130 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 715 | 22370.0557 |
| 25 | 140 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 753 | 22370.0558 |
| 25 | 150 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 811 | 22370.0559 |
| Handle colour: black | | | | | | | | | | | | | |
| 5 | 10 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0812 |
| 5 | 15 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 15 | 22370.0813 |
| 5 | 20 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 16 | 22370.0814 |
| 5 | 25 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 17 | 22370.0815 |
| 5 | 30 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0816 |
| 5 | 35 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0805 |
| 5 | 40 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 20 | 22370.0806 |
| 5 | 45 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0807 |
| 5 | 50 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 23 | 22370.0808 |
| 5 | 60 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 21 | 22370.0809 |
| 5 | 70 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 18 | 22370.0810 |
| 5 | 80 | 5.5 | 33.2 | 14.5 | 6.0 | 26.7 | 10.8 | 5 | 14 | -30 | 80 | 19 | 22370.0811 |
| 6 | 10 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 16 | 22370.0822 |
| 6 | 15 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 17 | 22370.0823 |
| 6 | 20 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 18 | 22370.0824 |
| 6 | 25 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 19 | 22370.0825 |
| 6 | 30 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 20 | 22370.0826 |
| 6 | 35 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 21 | 22370.0827 |
| 6 | 40 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 22 | 22370.0828 |
| 6 | 45 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 23 | 22370.0829 |
| 6 | 50 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 24 | 22370.0830 |
| 6 | 60 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 26 | 22370.0817 |
| 6 | 70 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 28 | 22370.0818 |
| 6 | 80 | 7.0 | 33.2 | 14.5 | 7.0 | 26.7 | 10.8 | 6 | 21 | -30 | 80 | 30 | 22370.0819 |
| 8 | 10 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 38 | 22370.0832 |
| 8 | 15 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 37 | 22370.0833 |
| 8 | 20 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 39 | 22370.0834 |
| 8 | 25 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 42 | 22370.0835 |
| 8 | 30 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 44 | 22370.0836 |
| 8 | 35 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 46 | 22370.0837 |
| 8 | 40 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 47 | 22370.0838 |
| 8 | 45 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 49 | 22370.0839 |
| 8 | 50 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 51 | 22370.0840 |
| 8 | 60 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 62 | 22370.0841 |
| 8 | 70 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 65 | 22370.0842 |
| 8 | 80 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 69 | 22370.0843 |
| 8 | 90 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 36 | 22370.0831 |
| 8 | 100 | 9.5 | 39.2 | 18.4 | 8.2 | 33.3 | 13.4 | 8 | 38 | -30 | 80 | 54 | 22370.0821 |
| 10 | 15 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 86 | 22370.0851 |
| 10 | 20 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 46 | 22370.0844 |
| 10 | 25 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 49 | 22370.0845 |
| 10 | 30 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0846 |

¹⁾ Shearing resistance similar to DIN 50141

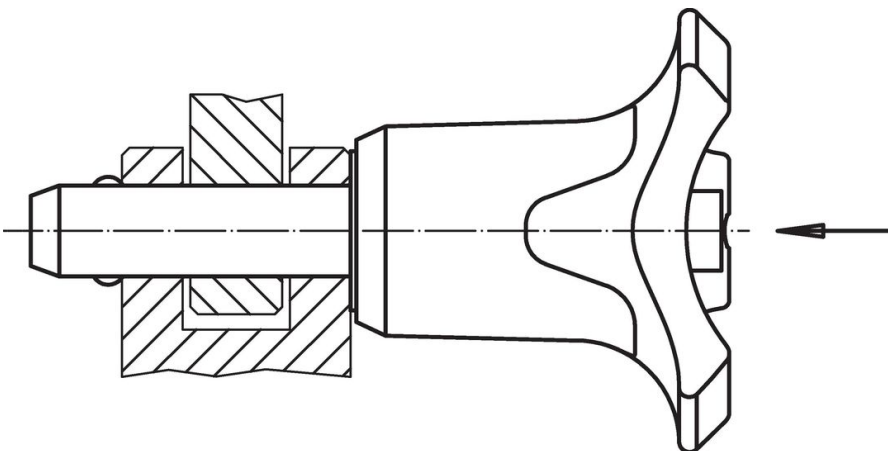
| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] |  min. max. | |  [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|--|----|--|------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | [°C] | | | |
| | | [mm] | | | | | | | | | | | |
| 10 | 35 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 55 | 22370.0847 |
| 10 | 40 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 57 | 22370.0848 |
| 10 | 45 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 61 | 22370.0849 |
| 10 | 50 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 64 | 22370.0850 |
| 10 | 60 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 70 | 22370.0852 |
| 10 | 70 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 91 | 22370.0853 |
| 10 | 80 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 97 | 22370.0854 |
| 10 | 90 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 103 | 22370.0855 |
| 10 | 100 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 109 | 22370.0856 |
| 10 | 110 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 115 | 22370.0857 |
| 10 | 120 | 12.0 | 39.2 | 18.4 | 9.6 | 33.3 | 13.4 | 10 | 60 | -30 | 80 | 53 | 22370.0858 |
| 12 | 20 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 91 | 22370.0864 |
| 12 | 25 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 96 | 22370.0865 |
| 12 | 30 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 100 | 22370.0866 |
| 12 | 35 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 105 | 22370.0867 |
| 12 | 40 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 109 | 22370.0868 |
| 12 | 45 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 113 | 22370.0869 |
| 12 | 50 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 117 | 22370.0870 |
| 12 | 60 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 126 | 22370.0872 |
| 12 | 70 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 134 | 22370.0874 |
| 12 | 80 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 143 | 22370.0876 |
| 12 | 90 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 165 | 22370.0877 |
| 12 | 100 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 173 | 22370.0878 |
| 12 | 110 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 182 | 22370.0879 |
| 12 | 120 | 14.5 | 47.6 | 25.2 | 10.6 | 39.7 | 16.7 | 12 | 87 | -30 | 80 | 177 | 22370.0880 |
| 16 | 30 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 132 | 22370.0886 |
| 16 | 35 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 140 | 22370.0887 |
| 16 | 40 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 148 | 22370.0888 |
| 16 | 45 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 155 | 22370.0889 |
| 16 | 50 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 168 | 22370.0890 |
| 16 | 60 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 178 | 22370.0892 |
| 16 | 70 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 194 | 22370.0894 |
| 16 | 80 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 208 | 22370.0896 |
| 16 | 90 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 234 | 22370.0897 |
| 16 | 100 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 251 | 22370.0898 |
| 16 | 110 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 266 | 22370.0899 |
| 16 | 120 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 281 | 22370.0900 |
| 16 | 130 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 297 | 22370.0901 |
| 16 | 140 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 313 | 22370.0902 |
| 16 | 150 | 19.0 | 47.6 | 25.2 | 14.0 | 39.7 | 16.7 | 16 | 155 | -30 | 80 | 328 | 22370.0903 |
| 20 | 50 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 329 | 22370.0905 |
| 20 | 60 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 343 | 22370.0904 |
| 20 | 70 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 377 | 22370.0906 |
| 20 | 80 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 392 | 22370.0908 |
| 20 | 90 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 426 | 22370.0909 |
| 20 | 100 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 444 | 22370.0912 |
| 20 | 110 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 474 | 22370.0913 |
| 20 | 120 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 488 | 22370.0916 |
| 20 | 130 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 523 | 22370.0917 |
| 20 | 140 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 546 | 22370.0918 |
| 20 | 150 | 25.0 | 57.1 | 33.8 | 20.5 | 50.7 | 21.5 | 20 | 244 | -30 | 80 | 571 | 22370.0919 |
| 25 | 50 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 415 | 22370.0921 |
| 25 | 60 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 453 | 22370.0922 |
| 25 | 70 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 503 | 22370.0923 |
| 25 | 80 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 536 | 22370.0924 |
| 25 | 90 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 565 | 22370.0925 |
| 25 | 100 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 612 | 22370.0926 |
| 25 | 110 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 640 | 22370.0927 |

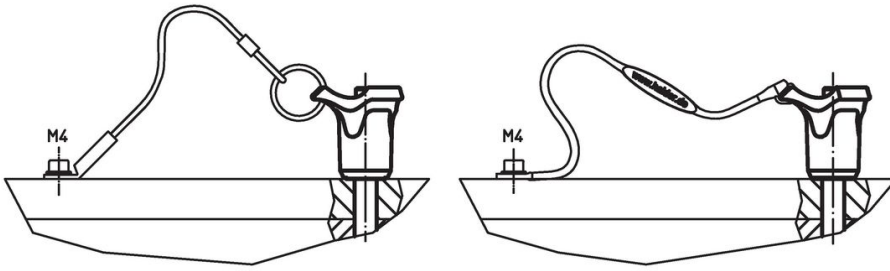
¹⁾ Shearing resistance similar to DIN 50141

| d ₁ -0.04 -0.08 | l ₁ +0.6 | Dimensions | | | | | | Location hole H11 [mm] | Shearing resistance, two-shear ¹⁾ min. [kN] | min. max. [°C] | | [g] | Art. No. |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------------|----------------|----------------|-------------------------------------|--|-------------------------|----|---------|----------------------------|
| | | d ₂ | d ₃ | d ₄ | l ₂ ±1 | l ₃ | l ₄ | | | | | | |
| 25 | 120 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 689 | 22370.0928 |
| 25 | 130 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 715 | 22370.0929 |
| 25 | 140 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 753 | 22370.0930 |
| 25 | 150 | 30.8 | 57.1 | 33.8 | 22.0 | 50.7 | 21.5 | 25 | 386 | -30 | 80 | 811 | 22370.0931 |

¹⁾ Shearing resistance similar to DIN 50141

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.