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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. 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.

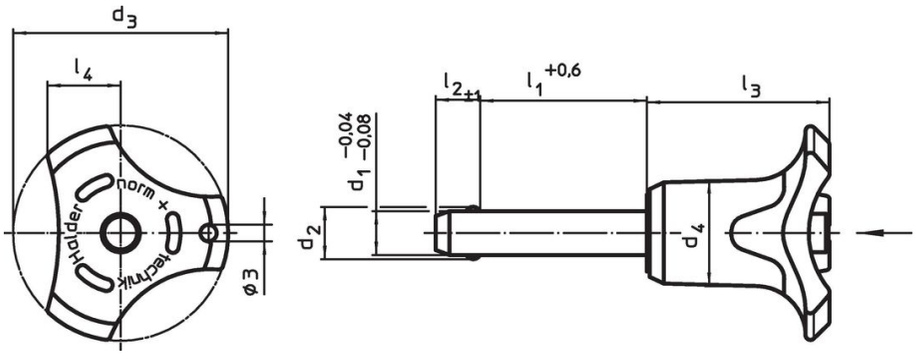
Accessories

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	Shearing resistance, two-shear[1]				
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4	H11	min.	min.	max.		Art. No.
[mm]								[mm]	[kN]	[°C]		[g]	
Handle colour: orange													
5	**10**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	21.0	22370.0152
5	**15**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0153
5	**20**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	16.0	22370.0154
5	**25**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	17.0	22370.0155
5	**30**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0156
5	**35**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0145

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
5	40	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	20.0	22370.0146
5	45	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	21.0	22370.0147
5	50	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	23.0	22370.0148
5	60	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	21.0	22370.0149
5	70	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0150
5	80	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0151
6	10	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	16.0	22370.0162
6	15	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	17.0	22370.0163
6	20	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	18.0	22370.0164
6	25	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	19.0	22370.0165
6	30	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	20.0	22370.0166
6	35	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	21.0	22370.0167
6	40	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	22.0	22370.0168
6	45	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	23.0	22370.0169
6	50	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	24.0	22370.0170
6	60	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	26.0	22370.0157
6	70	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	28.0	22370.0158
6	80	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	30.0	22370.0159
8	10	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	38.0	22370.0172
8	15	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	37.0	22370.0173
8	20	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	39.0	22370.0174
8	25	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	42.0	22370.0175
8	30	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	44.0	22370.0176
8	35	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	46.0	22370.0177
8	40	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	47.0	22370.0178
8	45	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	49.0	22370.0179
8	50	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	51.0	22370.0180
8	60	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	62.0	22370.0181
8	70	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	65.0	22370.0182
8	80	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	69.0	22370.0183
8	90	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	36.0	22370.0171
8	100	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	54.0	22370.0161
10	15	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	86.0	22370.0191
10	20	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	46.0	22370.0184
10	25	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	49.0	22370.0185
10	30	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0186
10	35	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	55.0	22370.0187
10	40	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	57.0	22370.0188
10	45	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	61.0	22370.0189
10	50	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	64.0	22370.0190
10	60	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	70.0	22370.0192
10	70	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	91.0	22370.0193
10	80	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	97.0	22370.0194
10	90	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	103.0	22370.0195
10	100	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	109.0	22370.0196
10	110	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	115.0	22370.0197
10	120	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0198
12	20	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	91.0	22370.0204
12	25	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	96.0	22370.0205
12	30	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	100.0	22370.0206
12	35	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	105.0	22370.0207
12	40	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	109.0	22370.0208
12	45	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	113.0	22370.0209
12	50	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	117.0	22370.0210
12	60	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	126.0	22370.0212
12	70	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	134.0	22370.0214
12	80	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	143.0	22370.0216
12	90	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	165.0	22370.0217
12	100	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	173.0	22370.0218

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
12	**110**	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	182.0	22370.0219
12	**120**	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	177.0	22370.0220
16	**30**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	132.0	22370.0226
16	**35**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	140.0	22370.0227
16	**40**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	148.0	22370.0228
16	**45**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	155.0	22370.0229
16	**50**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	168.0	22370.0230
16	**60**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	178.0	22370.0232
16	**70**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	194.0	22370.0234
16	**80**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	208.0	22370.0236
16	**90**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	234.0	22370.0237
16	**100**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	251.0	22370.0238
16	**110**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	266.0	22370.0239
16	**120**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	281.0	22370.0240
16	**130**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	297.0	22370.0241
16	**140**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	313.0	22370.0242
16	**150**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	328.0	22370.0243
20	**50**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	329.0	22370.0251
20	**60**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	343.0	22370.0252
20	**70**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	377.0	22370.0253
20	**80**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	392.0	22370.0256
20	**90**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	426.0	22370.0257
20	**100**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	444.0	22370.0260
20	**110**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	474.0	22370.0261
20	**120**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	488.0	22370.0264
20	**130**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	523.0	22370.0265
20	**140**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	546.0	22370.0266
20	**150**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	571.0	22370.0267
25	**50**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	400.0	22370.0269
25	**60**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	453.0	22370.0270
25	**70**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	503.0	22370.0271
25	**80**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	536.0	22370.0272
25	**90**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	565.0	22370.0273
25	**100**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	612.0	22370.0274
25	**110**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	650.0	22370.0275
25	**120**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	689.0	22370.0276
25	**130**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	720.0	22370.0277
25	**140**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	764.0	22370.0278
25	**150**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	811.0	22370.0279
Handle colour: grey													
5	**10**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0292
5	**15**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0293
5	**20**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	16.0	22370.0294
5	**25**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	17.0	22370.0295
5	**30**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0296
5	**35**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0285
5	**40**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	20.0	22370.0286
5	**45**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	21.0	22370.0287
5	**50**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	23.0	22370.0288
5	**60**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	24.0	22370.0289
5	**70**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0290
5	**80**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0291
6	**10**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	16.0	22370.0302
6	**15**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	16.0	22370.0303
6	**20**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	18.0	22370.0304
6	**25**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	19.0	22370.0305
6	**30**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	20.0	22370.0306
6	**35**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	21.0	22370.0307

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
6	40	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	22.0	22370.0308
6	45	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	23.0	22370.0309
6	50	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	24.0	22370.0310
6	60	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	26.0	22370.0297
6	70	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	28.0	22370.0298
6	80	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	30.0	22370.0299
8	10	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	38.0	22370.0312
8	15	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	58.0	22370.0313
8	20	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	40.0	22370.0314
8	25	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	42.0	22370.0315
8	30	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	44.0	22370.0316
8	35	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	46.0	22370.0317
8	40	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	46.0	22370.0318
8	45	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	49.0	22370.0319
8	50	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	51.0	22370.0320
8	60	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	62.0	22370.0321
8	70	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	65.0	22370.0322
8	80	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	69.0	22370.0323
8	90	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	36.0	22370.0311
8	100	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	54.0	22370.0301
10	15	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	86.0	22370.0331
10	20	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	47.0	22370.0324
10	25	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	49.0	22370.0325
10	30	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0326
10	35	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	55.0	22370.0327
10	40	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	57.0	22370.0328
10	45	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	61.0	22370.0329
10	50	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	64.0	22370.0330
10	60	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	70.0	22370.0332
10	70	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	91.0	22370.0333
10	80	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	97.0	22370.0334
10	90	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	103.0	22370.0335
10	100	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	109.0	22370.0336
10	110	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	115.0	22370.0337
10	120	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0338
12	20	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	156.0	22370.0344
12	25	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	96.0	22370.0345
12	30	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	100.0	22370.0346
12	35	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	105.0	22370.0347
12	40	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	109.0	22370.0348
12	45	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	120.0	22370.0349
12	50	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	117.0	22370.0350
12	60	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	126.0	22370.0352
12	70	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	134.0	22370.0354
12	80	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	143.0	22370.0356
12	90	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	165.0	22370.0357
12	100	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	173.0	22370.0358
12	110	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	182.0	22370.0359
12	120	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	177.0	22370.0360
16	30	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	132.0	22370.0366
16	35	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	140.0	22370.0367
16	40	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	148.0	22370.0368
16	45	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	155.0	22370.0369
16	50	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	168.0	22370.0370
16	60	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	178.0	22370.0372
16	70	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	194.0	22370.0374
16	80	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	208.0	22370.0376
16	90	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	234.0	22370.0377
16	100	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	251.0	22370.0378

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
16	**110**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	266.0	22370.0379
16	**120**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	281.0	22370.0380
16	**130**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	297.0	22370.0381
16	**140**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	313.0	22370.0382
16	**150**	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	328.0	22370.0383
20	**50**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	329.0	22370.0391
20	**60**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	343.0	22370.0392
20	**70**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	377.0	22370.0393
20	**80**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	392.0	22370.0396
20	**90**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	426.0	22370.0397
20	**100**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	440.0	22370.0400
20	**110**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	474.0	22370.0401
20	**120**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	488.0	22370.0404
20	**130**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	523.0	22370.0405
20	**140**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	546.0	22370.0406
20	**150**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	571.0	22370.0407
25	**50**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	415.0	22370.0409
25	**60**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	453.0	22370.0410
25	**70**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	496.0	22370.0411
25	**80**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	536.0	22370.0412
25	**90**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	565.0	22370.0413
25	**100**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	612.0	22370.0414
25	**110**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	650.0	22370.0415
25	**120**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	689.0	22370.0416
25	**130**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	715.0	22370.0417
25	**140**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	753.0	22370.0418
25	**150**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	811.0	22370.0419
Handle colour: blue													
5	**10**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0432
5	**15**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0433
5	**20**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	16.0	22370.0434
5	**25**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	17.0	22370.0435
5	**30**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0436
5	**35**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0425
5	**40**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	20.0	22370.0426
5	**45**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	21.0	22370.0427
5	**50**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	23.0	22370.0428
5	**60**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	24.0	22370.0429
5	**70**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0430
5	**80**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0431
6	**10**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	16.0	22370.0442
6	**15**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	17.0	22370.0443
6	**20**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	18.0	22370.0444
6	**25**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	19.0	22370.0445
6	**30**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	20.0	22370.0446
6	**35**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	21.0	22370.0447
6	**40**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	22.0	22370.0448
6	**45**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	23.0	22370.0449
6	**50**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	24.0	22370.0450
6	**60**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	26.0	22370.0437
6	**70**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	28.0	22370.0438
6	**80**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	30.0	22370.0439
8	**10**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	38.0	22370.0452
8	**15**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	58.0	22370.0453
8	**20**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	40.0	22370.0454
8	**25**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	42.0	22370.0455
8	**30**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	44.0	22370.0456
8	**35**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	1.7	22370.0457

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
8	40	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	47.0	22370.0458
8	45	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	49.0	22370.0459
8	50	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	51.0	22370.0460
8	60	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	62.0	22370.0461
8	70	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	65.0	22370.0462
8	80	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	69.0	22370.0463
8	90	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	36.0	22370.0451
8	100	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	54.0	22370.0441
10	15	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	86.0	22370.0471
10	20	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	46.0	22370.0464
10	25	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	49.0	22370.0465
10	30	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0466
10	35	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	55.0	22370.0467
10	40	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	58.0	22370.0468
10	45	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	61.0	22370.0469
10	50	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	64.0	22370.0470
10	60	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	70.0	22370.0472
10	70	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	91.0	22370.0473
10	80	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	97.0	22370.0474
10	90	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	103.0	22370.0475
10	100	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	109.0	22370.0476
10	110	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	115.0	22370.0477
10	120	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0478
12	20	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	156.0	22370.0484
12	25	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	96.0	22370.0485
12	30	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	100.0	22370.0486
12	35	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	105.0	22370.0487
12	40	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	109.0	22370.0488
12	45	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	113.0	22370.0489
12	50	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	117.0	22370.0490
12	60	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	126.0	22370.0492
12	70	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	134.0	22370.0494
12	80	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	143.0	22370.0496
12	90	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	165.0	22370.0497
12	100	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	173.0	22370.0498
12	110	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	182.0	22370.0499
12	120	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	177.0	22370.0500
16	30	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	132.0	22370.0506
16	35	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	140.0	22370.0507
16	40	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	148.0	22370.0508
16	45	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	155.0	22370.0509
16	50	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	168.0	22370.0510
16	60	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	178.0	22370.0512
16	70	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	194.0	22370.0514
16	80	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	208.0	22370.0516
16	90	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	234.0	22370.0517
16	100	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	251.0	22370.0518
16	110	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	266.0	22370.0519
16	120	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	281.0	22370.0520
16	130	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	297.0	22370.0521
16	140	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	313.0	22370.0522
16	150	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	328.0	22370.0523
20	50	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	329.0	22370.0531
20	60	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	343.0	22370.0532
20	70	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	377.0	22370.0533
20	80	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	392.0	22370.0536
20	90	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	426.0	22370.0537
20	100	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	440.0	22370.0540
20	110	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	474.0	22370.0541

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
20	**120**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	488.0	22370.0544
20	**130**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	523.0	22370.0545
20	**140**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	546.0	22370.0546
20	**150**	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	571.0	22370.0547
25	**50**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	415.0	22370.0549
25	**60**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	453.0	22370.0550
25	**70**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	496.0	22370.0551
25	**80**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	538.0	22370.0552
25	**90**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	565.0	22370.0553
25	**100**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	612.0	22370.0554
25	**110**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	640.0	22370.0555
25	**120**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	689.0	22370.0556
25	**130**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	715.0	22370.0557
25	**140**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	753.0	22370.0558
25	**150**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	811.0	22370.0559
Handle colour: black													
5	**10**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0812
5	**15**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	15.0	22370.0813
5	**20**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	16.0	22370.0814
5	**25**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	17.0	22370.0815
5	**30**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0816
5	**35**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0805
5	**40**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	20.0	22370.0806
5	**45**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	21.0	22370.0807
5	**50**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	23.0	22370.0808
5	**60**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	24.0	22370.0809
5	**70**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	18.0	22370.0810
5	**80**	5.5	33.2	14.5	6.0	26.7	10.8	5	14	-30	80	19.0	22370.0811
6	**10**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	16.0	22370.0822
6	**15**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	17.0	22370.0823
6	**20**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	18.0	22370.0824
6	**25**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	19.0	22370.0825
6	**30**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	20.0	22370.0826
6	**35**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	21.0	22370.0827
6	**40**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	22.0	22370.0828
6	**45**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	23.0	22370.0829
6	**50**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	24.0	22370.0830
6	**60**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	26.0	22370.0817
6	**70**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	28.0	22370.0818
6	**80**	7.0	33.2	14.5	7.0	26.7	10.8	6	21	-30	80	30.0	22370.0819
8	**10**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	38.0	22370.0832
8	**15**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	37.0	22370.0833
8	**20**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	40.0	22370.0834
8	**25**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	42.0	22370.0835
8	**30**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	44.0	22370.0836
8	**35**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	46.0	22370.0837
8	**40**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	47.0	22370.0838
8	**45**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	49.0	22370.0839
8	**50**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	51.0	22370.0840
8	**60**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	62.0	22370.0841
8	**70**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	65.0	22370.0842
8	**80**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	69.0	22370.0843
8	**90**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	36.0	22370.0831
8	**100**	9.5	39.2	18.4	8.2	33.3	13.4	8	38	-30	80	54.0	22370.0821
10	**15**	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	86.0	22370.0851
10	**20**	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	46.0	22370.0844
10	**25**	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	49.0	22370.0845
10	**30**	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0846

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
10	35	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	55.0	22370.0847
10	40	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	58.0	22370.0848
10	45	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	61.0	22370.0849
10	50	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	64.0	22370.0850
10	60	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	70.0	22370.0852
10	70	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	91.0	22370.0853
10	80	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	97.0	22370.0854
10	90	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	103.0	22370.0855
10	100	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	109.0	22370.0856
10	110	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	115.0	22370.0857
10	120	12.0	39.2	18.4	9.6	33.3	13.4	10	60	-30	80	53.0	22370.0858
12	20	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	156.0	22370.0864
12	25	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	96.0	22370.0865
12	30	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	100.0	22370.0866
12	35	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	105.0	22370.0867
12	40	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	109.0	22370.0868
12	45	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	113.0	22370.0869
12	50	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	117.0	22370.0870
12	60	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	126.0	22370.0872
12	70	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	134.0	22370.0874
12	80	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	143.0	22370.0876
12	90	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	165.0	22370.0877
12	100	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	173.0	22370.0878
12	110	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	182.0	22370.0879
12	120	14.5	47.6	25.2	10.6	39.7	16.7	12	87	-30	80	177.0	22370.0880
16	30	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	132.0	22370.0886
16	35	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	140.0	22370.0887
16	40	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	148.0	22370.0888
16	45	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	155.0	22370.0889
16	50	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	168.0	22370.0890
16	60	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	178.0	22370.0892
16	70	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	194.0	22370.0894
16	80	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	208.0	22370.0896
16	90	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	234.0	22370.0897
16	100	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	251.0	22370.0898
16	110	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	266.0	22370.0899
16	120	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	281.0	22370.0900
16	130	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	297.0	22370.0901
16	140	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	313.0	22370.0902
16	150	19.0	47.6	25.2	14.0	39.7	16.7	16	155	-30	80	328.0	22370.0903
20	50	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	329.0	22370.0905
20	60	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	343.0	22370.0904
20	70	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	377.0	22370.0906
20	80	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	392.0	22370.0908
20	90	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	426.0	22370.0909
20	100	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	440.0	22370.0912
20	110	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	474.0	22370.0913
20	120	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	488.0	22370.0916
20	130	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	523.0	22370.0917
20	140	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	546.0	22370.0918
20	150	25.0	57.1	33.8	20.5	50.7	21.5	20	244	-30	80	571.0	22370.0919
25	50	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	415.0	22370.0921
25	60	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	453.0	22370.0922
25	70	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	503.0	22370.0923
25	80	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	536.0	22370.0924
25	90	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	565.0	22370.0925
25	100	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	612.0	22370.0926
25	110	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	640.0	22370.0927

[1] Shearing resistance similar to DIN 50141

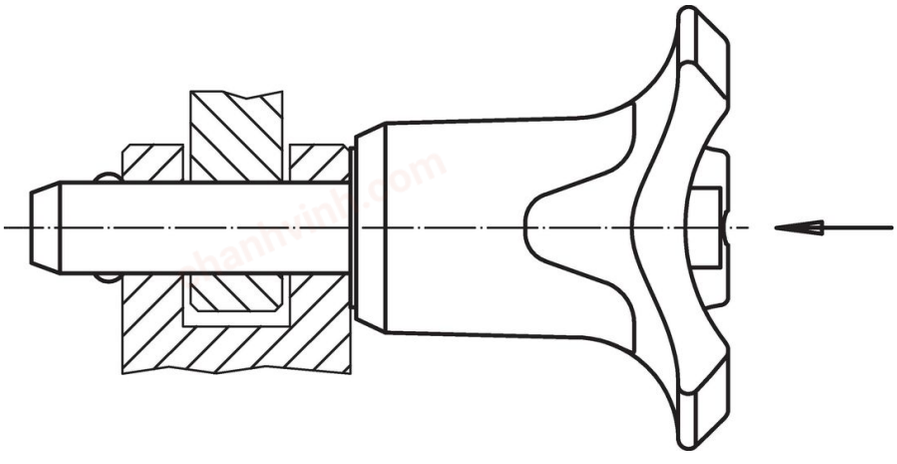
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Dimensions								Location hole H11	Shearing resistance, two-shear[1] min.	min.	max.		Art. No.
d_1 -0.04 -0.08	l_1 +0.6	d_2	d_3	d_4	l_2 ±1	l_3	l_4						
[mm]								[mm]	[kN]	[°C]		[g]	
25	**120**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	689.0	22370.0928
25	**130**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	739.0	22370.0929
25	**140**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	753.0	22370.0930
25	**150**	30.8	57.1	33.8	22.0	50.7	21.5	25	386	-30	80	811.0	22370.0931

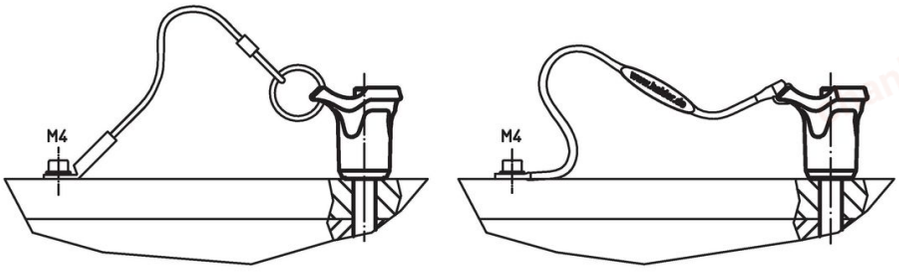
[1] Shearing resistance similar to DIN 50141

Application example





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Compliance

RoHS-compliant
Compliant with Directive 2011/65/EU [RoHS].

Does not contain SVHC substances
No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 04.02.2026.

SCIP-code
N/A

Contains Proposition 65 substances
Nickel can cause cancer from exposure.
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.

POP-compliant
Contains no persistent organic pollutants – Stockholm Convention [POP] as of September 2025.

PFAS-compliant
Contains no per- and polyfluoroalkyl substances (PFAS).

TSCA-compliant
Agent concentration in this product does not exceed the specified threshold.