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Ball Lock Pins • self-locking, with safety handle

EH 22340. /EH 22350.



Product Description

For quick fastening, locking, adjusting, changing and securing. Quickly and easily unlockable for frequently repeated connections.
All versions are corrosion resistant. When using stainless steel 1.4542: high-strength, hardened, abrasion resistant pin with high load capacity.
Robust safety handle (press button not overlaying). Shape of grip protects from unintentional use of the press button.

Material

Pin part
- Stainless steel 1.4305
- Stainless steel 1.4542, precipitation-hardened

Handle
- Stainless steel

Press button
- Stainless steel

Spring
- Stainless steel

Operation

The balls are unlocked by pressing the button.

Characteristic

Types from stainless steel 1.4542 with marking below the balls.

More information

Notes

Customized design on request.

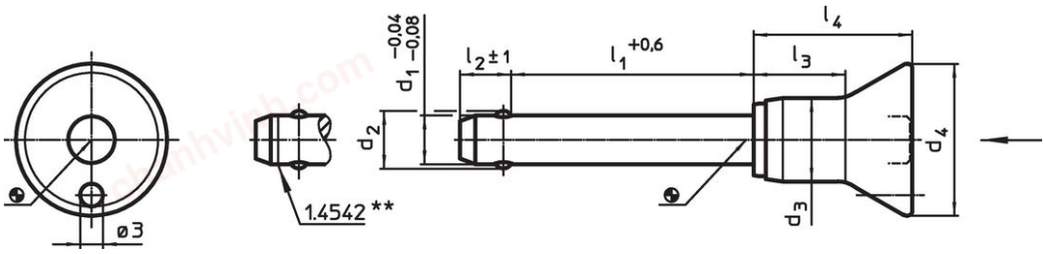
Accessories

Can easily be fitted with retaining cable EH 22400.

Further products

- Locating Bushings, for ball lock pins and socket pins
- Locating Bushings, with flange, for ball lock pins and socket pins
- Retaining Cables
- Positioning Bushings, with collar, DIN 172 A
- Positioning Bushings, without collar, DIN 179 A

Drawing



** Types from stainless steel 1.4542 with marking.

Order information

Dimensions								Location hole H11	max.		Shearing resistance, two-shear[1] min.	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]	[°C]	[g]	[kN]	
Stainless steel 1.4305												
5	**10**	5.5	10.3	20	6.0	11.6	21.0	5	250	18	14	22340.1012
5	**15**	5.5	10.3	20	6.0	11.6	21.0	5	250	19	14	22340.1013
5	**20**	5.5	10.3	20	6.0	11.6	21.0	5	250	20	14	22340.1014
5	**25**	5.5	10.3	20	6.0	11.6	21.0	5	250	20	14	22340.1015
5	**30**	5.5	10.3	20	6.0	11.6	21.0	5	250	21	14	22340.1016
5	**35**	5.5	10.3	20	6.0	11.6	21.0	5	250	22	14	22340.1017
5	**40**	5.5	10.3	20	6.0	11.6	21.0	5	250	23	14	22340.1018
5	**45**	5.5	10.3	20	6.0	11.6	21.0	5	250	23	14	22340.1007
5	**50**	5.5	10.3	20	6.0	11.6	21.0	5	250	24	14	22340.1008

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	max.		Shearing resistance, two-shear[1] min.	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]	[°C]	[g]	[kN]	
5	60	5.5	10.3	20	6.0	11.6	21.0	5	250	25	14	22340.1009
5	70	5.5	10.3	20	6.0	11.6	21.0	5	250	27	14	22340.1010
5	80	5.5	10.3	20	6.0	11.6	21.0	5	250	28	14	22340.1011
6	10	7.0	10.3	20	7.0	11.6	21.0	6	250	19	21	22340.1022
6	15	7.0	10.3	20	7.0	11.6	21.0	6	250	20	21	22340.1023
6	20	7.0	10.3	20	7.0	11.6	21.0	6	250	21	21	22340.1024
6	25	7.0	10.3	20	7.0	11.6	21.0	6	250	22	21	22340.1025
6	30	7.0	10.3	20	7.0	11.6	21.0	6	250	23	21	22340.1026
6	35	7.0	10.3	20	7.0	11.6	21.0	6	250	24	21	22340.1027
6	40	7.0	10.3	20	7.0	11.6	21.0	6	250	25	21	22340.1028
6	45	7.0	10.3	20	7.0	11.6	21.0	6	250	26	21	22340.1029
6	50	7.0	10.3	20	7.0	11.6	21.0	6	250	27	21	22340.1030
6	60	7.0	10.3	20	7.0	11.6	21.0	6	250	29	21	22340.1019
6	70	7.0	10.3	20	7.0	11.6	21.0	6	250	31	21	22340.1020
6	80	7.0	10.3	20	7.0	11.6	21.0	6	250	33	21	22340.1021
8	10	9.5	13.3	24	8.2	17.4	27.5	8	250	36	38	22340.1032
8	15	9.5	13.3	24	8.2	17.4	27.5	8	250	38	38	22340.1033
8	20	9.5	13.3	24	8.2	17.4	27.5	8	250	40	38	22340.1034
8	25	9.5	13.3	24	8.2	17.4	27.5	8	250	42	38	22340.1035
8	30	9.5	13.3	24	8.2	17.4	27.5	8	250	43	38	22340.1036
8	35	9.5	13.3	24	8.2	17.4	27.5	8	250	45	38	22340.1037
8	40	9.5	13.3	24	8.2	17.4	27.5	8	250	47	38	22340.1038
8	45	9.5	13.3	24	8.2	17.4	27.5	8	250	49	38	22340.1039
8	50	9.5	13.3	24	8.2	17.4	27.5	8	250	51	38	22340.1040
8	60	9.5	13.3	24	8.2	17.4	27.5	8	250	54	38	22340.1031
8	70	9.5	13.3	24	8.2	17.4	27.5	8	250	58	38	22340.1041
8	80	9.5	13.3	24	8.2	17.4	27.5	8	250	62	38	22340.1042
8	90	9.5	13.3	24	8.2	17.4	27.5	8	250	65	38	22340.1043
8	100	9.5	13.3	24	8.2	17.4	27.5	8	250	69	38	22340.1051
10	15	12.0	13.3	24	9.6	17.4	27.5	10	250	43	60	22340.1059
10	20	12.0	13.3	24	9.6	17.4	27.5	10	250	46	60	22340.1044
10	25	12.0	13.3	24	9.6	17.4	27.5	10	250	49	60	22340.1045
10	30	12.0	13.3	24	9.6	17.4	27.5	10	250	52	60	22340.1046
10	35	12.0	13.3	24	9.6	17.4	27.5	10	250	55	60	22340.1047
10	40	12.0	13.3	24	9.6	17.4	27.5	10	250	58	60	22340.1048
10	45	12.0	13.3	24	9.6	17.4	27.5	10	250	61	60	22340.1049
10	50	12.0	13.3	24	9.6	17.4	27.5	10	250	64	60	22340.1050
10	60	12.0	13.3	24	9.6	17.4	27.5	10	250	70	60	22340.1052
10	70	12.0	13.3	24	9.6	17.4	27.5	10	250	76	60	22340.1053
10	80	12.0	13.3	24	9.6	17.4	27.5	10	250	82	60	22340.1054
10	90	12.0	13.3	24	9.6	17.4	27.5	10	250	88	60	22340.1055
10	100	12.0	13.3	24	9.6	17.4	27.5	10	250	93	60	22340.1056
10	110	12.0	13.3	24	9.6	17.4	27.5	10	250	99	60	22340.1057
10	120	12.0	13.3	24	9.6	17.4	27.5	10	250	105	60	22340.1058
12	20	14.5	16.5	28	10.6	23.1	33.5	12	250	73	87	22340.1064
12	25	14.5	16.5	28	10.6	23.1	33.5	12	250	77	87	22340.1065
12	30	14.5	16.5	28	10.6	23.1	33.5	12	250	81	87	22340.1066
12	35	14.5	16.5	28	10.6	23.1	33.5	12	250	86	87	22340.1067
12	40	14.5	16.5	28	10.6	23.1	33.5	12	250	90	87	22340.1068
12	45	14.5	16.5	28	10.6	23.1	33.5	12	250	94	87	22340.1069
12	50	14.5	16.5	28	10.6	23.1	33.5	12	250	98	87	22340.1070
12	60	14.5	16.5	28	10.6	23.1	33.5	12	250	107	87	22340.1072
12	70	14.5	16.5	28	10.6	23.1	33.5	12	250	115	87	22340.1074
12	80	14.5	16.5	28	10.6	23.1	33.5	12	250	123	87	22340.1076
12	90	14.5	16.5	28	10.6	23.1	33.5	12	250	132	87	22340.1060
12	100	14.5	16.5	28	10.6	23.1	33.5	12	250	140	87	22340.1061
12	110	14.5	16.5	28	10.6	23.1	33.5	12	250	149	87	22340.1062
12	120	14.5	16.5	28	10.6	23.1	33.5	12	250	158	87	22340.1063
16	30	19.0	23.4	38	14.0	29.5	43.1	16	250	192	155	22340.1071

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	max.		Shearing resistance, two-shear[1] min.	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]	[°C]	[g]	[kN]	
16	**35**	19.0	23.4	38	14.0	29.5	43.1	16	250	200	155	22340.1073
16	**40**	19.0	23.4	38	14.0	29.5	43.1	16	250	209	155	22340.1075
16	**45**	19.0	23.4	38	14.0	29.5	43.1	16	250	216	155	22340.1077
16	**50**	19.0	23.4	38	14.0	29.5	43.1	16	250	224	155	22340.1078
16	**60**	19.0	23.4	38	14.0	29.5	43.1	16	250	239	155	22340.1079
16	**70**	19.0	23.4	38	14.0	29.5	43.1	16	250	254	155	22340.1080
16	**80**	19.0	23.4	38	14.0	29.5	43.1	16	250	271	155	22340.1081
16	**90**	19.0	23.4	38	14.0	29.5	43.1	16	250	286	155	22340.1082
16	**100**	19.0	23.4	38	14.0	29.5	43.1	16	250	301	155	22340.1083
16	**110**	19.0	23.4	38	14.0	29.5	43.1	16	250	316	155	22340.1084
16	**120**	19.0	23.4	38	14.0	29.5	43.1	16	250	333	155	22340.1085
16	**130**	19.0	23.4	38	14.0	29.5	43.1	16	250	348	155	22340.1086
16	**140**	19.0	23.4	38	14.0	29.5	43.1	16	250	363	155	22340.1087
16	**150**	19.0	23.4	38	14.0	29.5	43.1	16	250	378	155	22340.1088
20	**50**	24.8	23.4	38	17.0	29.5	43.1	20	250	283	244	22340.1089
20	**60**	24.8	23.4	38	17.0	29.5	43.1	20	250	309	244	22340.1090
20	**70**	24.8	23.4	38	17.0	29.5	43.1	20	250	332	244	22340.1091
20	**80**	24.8	23.4	38	17.0	29.5	43.1	20	250	357	244	22340.1092
20	**90**	24.8	23.4	38	17.0	29.5	43.1	20	250	381	244	22340.1093
20	**100**	24.8	23.4	38	17.0	29.5	43.1	20	250	406	244	22340.1094
20	**110**	24.8	23.4	38	17.0	29.5	43.1	20	250	430	244	22340.1095
20	**120**	24.8	23.4	38	17.0	29.5	43.1	20	250	452	244	22340.1096
20	**130**	24.8	23.4	38	17.0	29.5	43.1	20	250	472	244	22340.1097
20	**140**	24.8	23.4	38	17.0	29.5	43.1	20	250	501	244	22340.1098
20	**150**	24.8	23.4	38	17.0	29.5	43.1	20	250	526	244	22340.1099
25	**50**	31.0	30.4	50	22.0	36.8	54.8	25	250	524	386	22340.1100
25	**60**	31.0	30.4	50	22.0	36.8	54.8	25	250	566	386	22340.1101
25	**70**	31.0	30.4	50	22.0	36.8	54.8	25	250	600	386	22340.1102
25	**80**	31.0	30.4	50	22.0	36.8	54.8	25	250	643	386	22340.1103
25	**90**	31.0	30.4	50	22.0	36.8	54.8	25	250	672	386	22340.1104
25	**100**	31.0	30.4	50	22.0	36.8	54.8	25	250	713	386	22340.1105
25	**110**	31.0	30.4	50	22.0	36.8	54.8	25	250	755	386	22340.1106
25	**120**	31.0	30.4	50	22.0	36.8	54.8	25	250	798	386	22340.1107
25	**130**	31.0	30.4	50	22.0	36.8	54.8	25	250	825	386	22340.1108
25	**140**	31.0	30.4	50	22.0	36.8	54.8	25	250	873	386	22340.1109
25	**150**	31.0	30.4	50	22.0	36.8	54.8	25	250	893	386	22340.1110
Stainless steel 1.4542, precipitation-hardened												
5	**10**	5.5	10.3	20	6.0	11.6	21.0	5	250	18	24	22350.1012
5	**15**	5.5	10.3	20	6.0	11.6	21.0	5	250	19	24	22350.1013
5	**20**	5.5	10.3	20	6.0	11.6	21.0	5	250	20	24	22350.1014
5	**25**	5.5	10.3	20	6.0	11.6	21.0	5	250	20	24	22350.1015
5	**30**	5.5	10.3	20	6.0	11.6	21.0	5	250	21	24	22350.1016
5	**35**	5.5	10.3	20	6.0	11.6	21.0	5	250	22	24	22350.1017
5	**40**	5.5	10.3	20	6.0	11.6	21.0	5	250	22	24	22350.1018
5	**45**	5.5	10.3	20	6.0	11.6	21.0	5	250	23	24	22350.1007
5	**50**	5.5	10.3	20	6.0	11.6	21.0	5	250	24	24	22350.1008
5	**60**	5.5	10.3	20	6.0	11.6	21.0	5	250	25	24	22350.1009
5	**70**	5.5	10.3	20	6.0	11.6	21.0	5	250	27	24	22350.1010
5	**80**	5.5	10.3	20	6.0	11.6	21.0	5	250	28	24	22350.1011
6	**10**	7.0	10.3	20	7.0	11.6	21.0	6	250	19	35	22350.1022
6	**15**	7.0	10.3	20	7.0	11.6	21.0	6	250	20	35	22350.1023
6	**20**	7.0	10.3	20	7.0	11.6	21.0	6	250	21	35	22350.1024
6	**25**	7.0	10.3	20	7.0	11.6	21.0	6	250	22	35	22350.1025
6	**30**	7.0	10.3	20	7.0	11.6	21.0	6	250	23	35	22350.1026
6	**35**	7.0	10.3	20	7.0	11.6	21.0	6	250	24	35	22350.1027
6	**40**	7.0	10.3	20	7.0	11.6	21.0	6	250	25	35	22350.1028
6	**45**	7.0	10.3	20	7.0	11.6	21.0	6	250	26	35	22350.1029
6	**50**	7.0	10.3	20	7.0	11.6	21.0	6	250	27	35	22350.1030

[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	max.		Shearing resistance, two-shear[1] min.	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]	[°C]	[g]	[kN]	
6	60	7.0	10.3	20	7.0	11.6	21.0	6	250	29	35	22350.1019
6	70	7.0	10.3	20	7.0	11.6	21.0	6	250	62	35	22350.1020
6	80	7.0	10.3	20	7.0	11.6	21.0	6	250	33	35	22350.1021
8	10	9.5	13.3	24	8.2	17.4	27.5	8	250	36	63	22350.1032
8	15	9.5	13.3	24	8.2	17.4	27.5	8	250	38	63	22350.1033
8	20	9.5	13.3	24	8.2	17.4	27.5	8	250	39	63	22350.1034
8	25	9.5	13.3	24	8.2	17.4	27.5	8	250	41	63	22350.1035
8	30	9.5	13.3	24	8.2	17.4	27.5	8	250	43	63	22350.1036
8	35	9.5	13.3	24	8.2	17.4	27.5	8	250	45	63	22350.1037
8	40	9.5	13.3	24	8.2	17.4	27.5	8	250	47	63	22350.1038
8	45	9.5	13.3	24	8.2	17.4	27.5	8	250	49	63	22350.1039
8	50	9.5	13.3	24	8.2	17.4	27.5	8	250	51	63	22350.1040
8	60	9.5	13.3	24	8.2	17.4	27.5	8	250	54	63	22350.1031
8	70	9.5	13.3	24	8.2	17.4	27.5	8	250	58	63	22350.1041
8	80	9.5	13.3	24	8.2	17.4	27.5	8	250	61	63	22350.1042
8	90	9.5	13.3	24	8.2	17.4	27.5	8	250	12	63	22350.1043
8	100	9.5	13.3	24	8.2	17.4	27.5	8	250	69	63	22350.1051
10	15	12.0	13.3	24	9.6	17.4	27.5	10	250	43	100	22350.1059
10	20	12.0	13.3	24	9.6	17.4	27.5	10	250	46	100	22350.1044
10	25	12.0	13.3	24	9.6	17.4	27.5	10	250	49	100	22350.1045
10	30	12.0	13.3	24	9.6	17.4	27.5	10	250	52	100	22350.1046
10	35	12.0	13.3	24	9.6	17.4	27.5	10	250	55	100	22350.1047
10	40	12.0	13.3	24	9.6	17.4	27.5	10	250	58	100	22350.1048
10	45	12.0	13.3	24	9.6	17.4	27.5	10	250	61	100	22350.1049
10	50	12.0	13.3	24	9.6	17.4	27.5	10	250	63	100	22350.1050
10	60	12.0	13.3	24	9.6	17.4	27.5	10	250	69	100	22350.1052
10	70	12.0	13.3	24	9.6	17.4	27.5	10	250	75	100	22350.1053
10	80	12.0	13.3	24	9.6	17.4	27.5	10	250	81	100	22350.1054
10	90	12.0	13.3	24	9.6	17.4	27.5	10	250	86	100	22350.1055
10	100	12.0	13.3	24	9.6	17.4	27.5	10	250	92	100	22350.1056
10	110	12.0	13.3	24	9.6	17.4	27.5	10	250	98	100	22350.1057
10	120	12.0	13.3	24	9.6	17.4	27.5	10	250	104	100	22350.1058
12	20	14.5	16.5	28	10.6	23.1	33.5	12	250	72	144	22350.1064
12	25	14.5	16.5	28	10.6	23.1	33.5	12	250	77	144	22350.1065
12	30	14.5	16.5	28	10.6	23.1	33.5	12	250	80	144	22350.1066
12	35	14.5	16.5	28	10.6	23.1	33.5	12	250	85	144	22350.1067
12	40	14.5	16.5	28	10.6	23.1	33.5	12	250	89	144	22350.1068
12	45	14.5	16.5	28	10.6	23.1	33.5	12	250	93	144	22350.1069
12	50	14.5	16.5	28	10.6	23.1	33.5	12	250	97	144	22350.1070
12	60	14.5	16.5	28	10.6	23.1	33.5	12	250	106	144	22350.1072
12	70	14.5	16.5	28	10.6	23.1	33.5	12	250	114	144	22350.1074
12	80	14.5	16.5	28	10.6	23.1	33.5	12	250	123	144	22350.1076
12	90	14.5	16.5	28	10.6	23.1	33.5	12	250	131	144	22350.1060
12	100	14.5	16.5	28	10.6	23.1	33.5	12	250	139	144	22350.1061
12	110	14.5	16.5	28	10.6	23.1	33.5	12	250	148	144	22350.1062
12	120	14.5	16.5	28	10.6	23.1	33.5	12	250	156	144	22350.1063
16	30	19.0	23.4	38	14.0	29.5	43.1	16	250	191	257	22350.1071
16	35	19.0	23.4	38	14.0	29.5	43.1	16	250	251	257	22350.1073
16	40	19.0	23.4	38	14.0	29.5	43.1	16	250	207	257	22350.1075
16	45	19.0	23.4	38	14.0	29.5	43.1	16	250	251	257	22350.1077
16	50	19.0	23.4	38	14.0	29.5	43.1	16	250	223	257	22350.1078
16	60	19.0	23.4	38	14.0	29.5	43.1	16	250	237	257	22350.1079
16	70	19.0	23.4	38	14.0	29.5	43.1	16	250	253	257	22350.1080
16	80	19.0	23.4	38	14.0	29.5	43.1	16	250	268	257	22350.1081
16	90	19.0	23.4	38	14.0	29.5	43.1	16	250	284	257	22350.1082
16	100	19.0	23.4	38	14.0	29.5	43.1	16	250	299	257	22350.1083
16	110	19.0	23.4	38	14.0	29.5	43.1	16	250	314	257	22350.1084
16	120	19.0	23.4	38	14.0	29.5	43.1	16	250	330	257	22350.1085
16	130	19.0	23.4	38	14.0	29.5	43.1	16	250	346	257	22350.1086

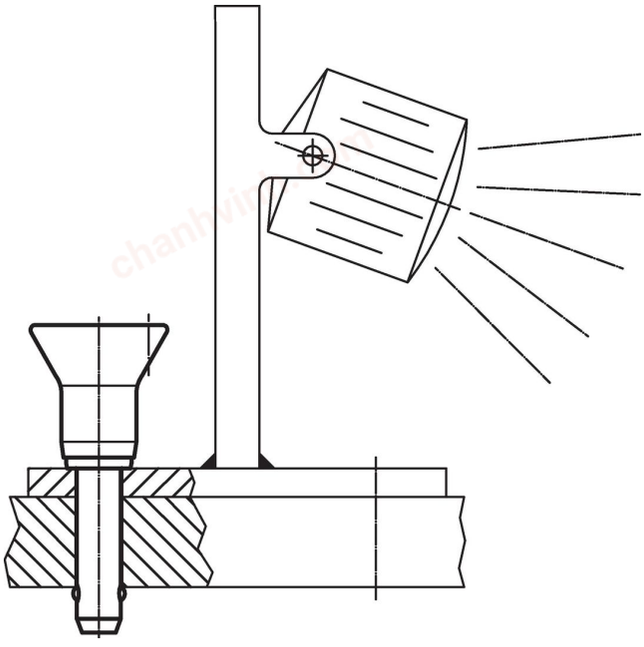
[1] Shearing resistance similar to DIN 50141

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Dimensions								Location hole H11	max.		Shearing resistance, two-shear[1] min.	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]	[°C]	[g]	[kN]	
16	**140**	19.0	23.4	38	14.0	29.5	43.1	16	250	360	257	22350.1087
16	**150**	19.0	23.4	38	14.0	29.5	43.1	16	250	375	257	22350.1088
20	**50**	24.8	23.4	38	17.0	29.5	43.1	20	250	282	406	22350.1089
20	**60**	24.8	23.4	38	17.0	29.5	43.1	20	250	306	406	22350.1090
20	**70**	24.8	23.4	38	17.0	29.5	43.1	20	250	329	403	22350.1091
20	**80**	24.8	23.4	38	17.0	29.5	43.1	20	250	354	403	22350.1092
20	**90**	24.8	23.4	38	17.0	29.5	43.1	20	250	379	403	22350.1093
20	**100**	24.8	23.4	38	17.0	29.5	43.1	20	250	401	403	22350.1094
20	**110**	24.8	23.4	38	17.0	29.5	43.1	20	250	421	403	22350.1095
20	**120**	24.8	23.4	38	17.0	29.5	43.1	20	250	445	403	22350.1096
20	**130**	24.8	23.4	38	17.0	29.5	43.1	20	250	468	403	22350.1097
20	**140**	24.8	23.4	38	17.0	29.5	43.1	20	250	492	403	22350.1098
20	**150**	24.8	23.4	38	17.0	29.5	43.1	20	250	515	403	22350.1099
25	**50**	31.0	30.4	50	22.0	36.8	54.8	25	250	521	631	22350.1100
25	**60**	31.0	30.4	50	22.0	36.8	54.8	25	250	558	631	22350.1101
25	**70**	31.0	30.4	50	22.0	36.8	54.8	25	250	605	631	22350.1102
25	**80**	31.0	30.4	50	22.0	36.8	54.8	25	250	633	631	22350.1103
25	**90**	31.0	30.4	50	22.0	36.8	54.8	25	250	675	631	22350.1104
25	**100**	31.0	30.4	50	22.0	36.8	54.8	25	250	714	631	22350.1105
25	**110**	31.0	30.4	50	22.0	36.8	54.8	25	250	753	631	22350.1106
25	**120**	31.0	30.4	50	22.0	36.8	54.8	25	250	791	631	22350.1107
25	**130**	31.0	30.4	50	22.0	36.8	54.8	25	250	827	631	22350.1108
25	**140**	31.0	30.4	50	22.0	36.8	54.8	25	250	865	631	22350.1109
25	**150**	31.0	30.4	50	22.0	36.8	54.8	25	250	891	631	22350.1110

[1] Shearing resistance similar to DIN 50141

Application example



Compliance

For detailed compliance information please select the desired article number.