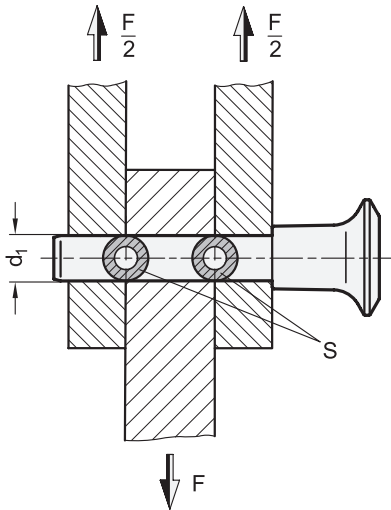


Load Capacity of Ball Lock Pins / Locking Pins

Double Sided Shearing Resistance



Information

The load capacities specified in the table for the double sided shearing resistance (breaking strength) have been calculated or theoretically defined on the basis of DIN 50141.

At the same time, the endangered bolt cross-section S, according to a nearby sketch, was considered in two shear planes before breakage.

The details given on load rating are non-binding guide values without any liability. In general, they do not constitute a warranty of condition.

The user must determine whether the product is suitable for the intended purpose. Environmental factors can influence the specified values.

An appropriate safety factor must be taken into account in the design.

Ball Lock Pins					
Load capacity F in kN ≈ Double sided shearing resistance acc. DIN 50141 (Breaking strength)					
d1 Pin diameter	GN 113.3 GN 113.7 GN 113.9 GN 113.11	GN 113.4 GN 113.8 GN 113.10 GN 113.12	GN 113.5	GN 113.6	GN 113.30
5	14	24	14	24	-
6	21	35	21	35	23
8	38	63	38	63	43
10	60	100	60	100	69
12	87	144	87	144	-
16	155	257	155	257	-
20	244	403	-	-	-
25	386	631	-	-	-

Lock Pins								
Load capacity F in kN ≈ Double sided shearing resistance acc. DIN 50141 (Breaking strength)								
d1 Pin diameter	GN 114.2 GN 114.7 GN 114.11	GN 114.3 GN 114.6 GN 114.8 GN 114.12	GN 124.1 GN 124.2	GN 124.3	GN 214.2	GN 214.3 GN 214.6	GN 314	GN 2342
6	14	17	22	-	14	17	-	-
8	28	35	40	40	28	35	30	32
10	38	47	62	62	38	47	46	57
12	61	75	90	90	61	75	74	80
16	113	138	-	-	113	138	136	156
20	187	228	-	-	-	-	227	247