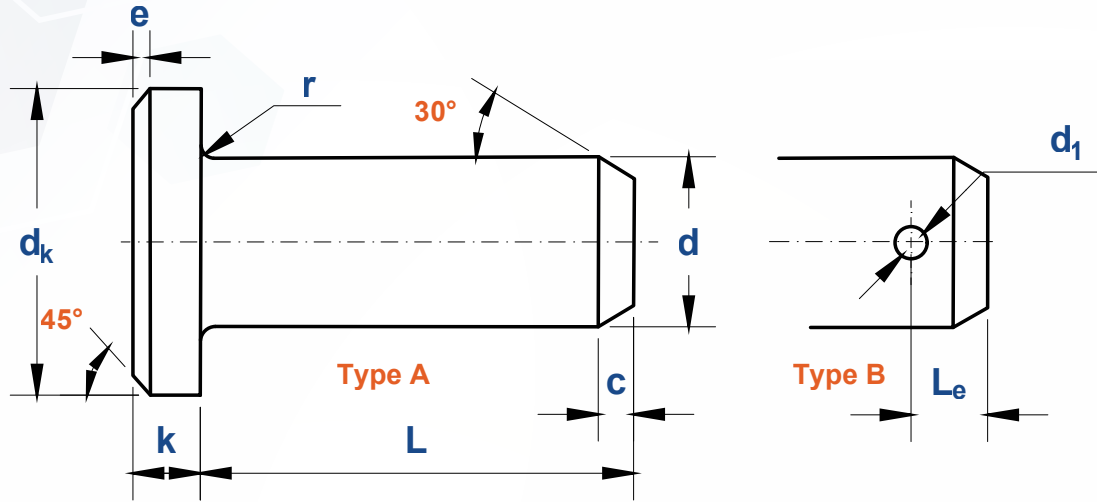




Nominal Diameter d		3	4	5	6	8	10	12	14	16	18	20	22	24
dk	max	5	6	8	10	14	18	20	22	25	28	30	33	36
	min	4.7	5.7	7.64	9.64	13.57	17.57	19.48	21.48	24.48	27.48	29.48	32.38	35.38
d1	max	0.94	1.14	1.34	1.74	2.14	3.38	3.38	4.18	4.18	5.18	5.18	5.18	6.52
	min	0.8	1	1.2	1.6	2	3.2	3.2	4	4	5	5	5	6.3
k	Nominal Size	1	1	1.6	2	3	4	4	4	4.5	5	5	5.5	6
	max	1.125	1.125	1.725	2.125	3.125	4.15	4.15	4.15	4.65	5.15	5.15	5.65	6.15
	min	0.875	0.875	1.475	1.875	2.875	3.85	3.85	3.85	4.35	4.85	4.85	5.35	5.85
r		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1	1	1	1
Le	min	1.6	2.2	2.9	3.2	3.5	4.5	5.5	6	6	7	8	8	9
c	max	1	1	2	2	2	2	3	3	3	3	4	4	4
e	≈	0.5	0.5	1	1	1	1	1.6	1.6	1.6	1.6	2	2	2

Nominal Diameter d		27	30	33	36	40	45	50	55	60	70	80	90	100
dk	max	40	44	47	50	55	60	66	72	78	90	100	110	120
	min	39.38	43.38	46.38	49.38	54.26	59.26	65.26	71.26	77.26	89.13	99.13	109.13	119.13
d1	max	6.52	8.22	8.22	8.22	8.22	10.22	10.22	10.22	10.22	13.27	13.27	13.27	13.27
	min	6.3	8	8	8	8	10	10	10	10	13	13	13	13
k	Nominal Size	6	8	8	8	8	9	9	11	12	13	13	13	13
	max	6.15	8.18	8.18	8.18	8.18	9.18	9.18	11.215	12.215	13.215	13.215	13.215	13.215
	min	5.85	7.82	7.82	7.82	7.82	8.82	8.82	10.785	11.785	12.785	12.785	12.785	12.785
r		1	1	1	1	1	1	1	1	1	1	1	1	1
Le	min	9	10	10	10	10	12	12	14	14	16	16	16	16
c	max	4	4	4	4	4	4	4	6	6	6	6	6	6
e	≈	2	2	2	2	2	2	2	3	3	3	3	3	3

①, Material:

Steel = 9SMnPb28K (according to DIN 1651) or Cq35 (according to DIN 1654) at the manufacturer's choice.

②, The desired tolerance field for bolt diameter d shall be indicated in the designation. The tolerance fields a11, c11, f8, or h11 are recommended.