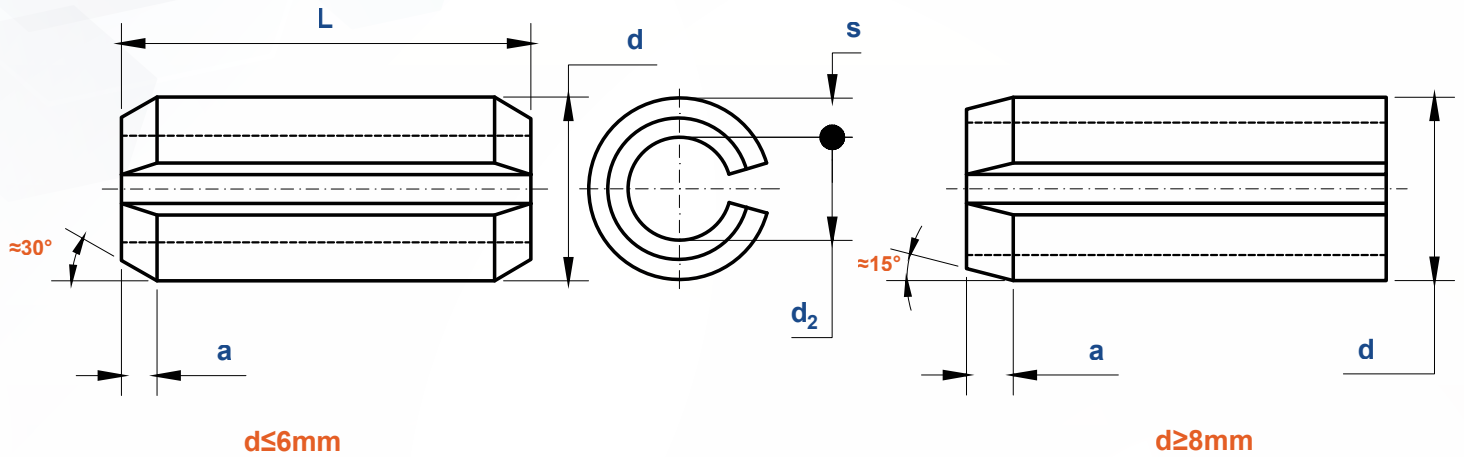




Nominal Diameter d		Φ1	Φ1.5	Φ2	Φ2.5	Φ3	Φ3.5	Φ4	Φ4.5	Φ5	Φ6	Φ8	Φ10	Φ12	Φ13
a		0.15	0.25	0.35	0.4	0.5	0.6	0.65	0.8	0.9	1.2	2	2	2	2
d	min	1.2	1.7	2.3	2.8	3.3	3.8	4.4	4.9	5.4	6.4	8.5	10.5	12.5	13.5
	max	1.3	1.8	2.4	2.9	3.5	4	4.6	5.1	5.6	6.7	8.8	10.8	12.8	13.8
d ₂	≈	0.8	1.1	1.5	1.8	2.1	2.3	2.8	2.9	3.4	3.9	5.5	6.5	7.5	8.5
s		0.2	0.3	0.4	0.5	0.6	0.75	0.8	1	1	1.25	1.5	2	2.5	2.5
Minimum shear strength, single (kN)		0.35	0.79	1.41	2.19	3.16	4.53	5.62	7.68	8.77	13.02	21.38	35.08	52.07	57.55
Minimum Double Shear, kN		0.7	1.58	2.82	4.38	6.32	9.06	11.24	15.36	17.54	26.04	42.76	70.16	104.1	115.1

Nominal Diameter d		Φ14	Φ16	Φ18	Φ20	Φ21	Φ25	Φ28	Φ30	Φ32	Φ35	Φ38	Φ40	Φ45	Φ50
a		2	2	2	3	3	3	3	3	3	3	4	4	4	4
d	min	14.4	16.5	18.5	20.5	21.5	25.5	28.5	30.5	32.5	35.5	38.5	40.5	45.5	50.5
	max	14.8	16.8	18.9	20.9	21.9	25.9	28.9	30.9	32.9	35.9	38.9	40.9	45.9	50.9
d ₂	≈	8.5	10.5	11.5	12.5	13.5	15.5	17.5	18.5	20.5	21.5	23.5	25.5	28.5	31.5
s		3	3	3.5	4	4	5	5.5	6	6	7	7.5	7.5	8.5	9.5
Minimum shear strength, single (kN)		72.36	85.51	111.27	140.32	149.09	219.25	271.32	315.72	342.03	429.73	501.53	534.42	680.22	843.57
Minimum Double Shear, kN		144.7	171	222.5	280.6	298.2	438.5	542.6	631.4	684	859	1003	1068	1360	1685

①. Material: Spring steel 55Si7 according to DIN 17222: Tempered to 422 to 560 HV5 (corresponding to 1400 to 1800Mpa tensile strength)