



Diameter Tolerance

D _e or D _i mm	Permissible deviation in mm		
	D _e	D _i	Concentricity
over 3 to 6	0 / -0.12	+0.12 / 0	0.15
over 6 to 10	0 / -0.15	+0.15 / 0	0.18
over 10 to 18	0 / -0.18	+0.18 / 0	0.22
over 18 to 30	0 / -0.21	+0.21 / 0	0.26
over 30 to 50	0 / -0.25	+0.25 / 0	0.32
over 50 to 80	0 / -0.30	+0.30 / 0	0.60
over 80 to 120	0 / -0.35	+0.35 / 0	0.70
over 120 to 180	0 / -0.40	+0.40 / 0	0.80
over 180 to 250	0 / -0.46	+0.46 / 0	0.92
over 250 to 315	0 / -0.52	+0.52 / 0	1.04
over 315 to 400	0 / -0.57	+0.57 / 0	1.14
over 400 to 500	0 / -0.63	+0.63 / 0	1.26

Thickness Tolerance

	t or t' mm	Tolerance for t mm
Group 1	0.2 to 0.6	+0.02 / -0.06
	> 0.6 to < 1.25	+0.03 / -0.09
Group 2	1.25 to 3.8	+0.04 / -0.12
	> 3.8 to 6.0	+0.05 / -0.15
Group 3	> 6.0 to 16.0	+0.10 / -0.10

Overall Height Tolerance

	t mm	Tolerance for l_0 mm
Group 1	< 1.25	+0.10 / -0.05
Group 2	1.25 to 2.0	+0.15 / -0.08
	> 2.0 to 3.0	+0.20 / -0.10
	> 3.0 to 6.0	+0.30 / -0.15
Group 3	> 6.0 to 16.0	+0.30 / -0.30

To ensure the specified spring forces, DIN EN 16983 (Previously DIN 2093) allows the overall height tolerance to be slightly exceeded.

Force Tolerance

	t mm	Tolerance for F at the test length $l_p=l_0-0.75h_0$
Group 1	< 1.25	+25% / -7.5%
Group 2	1.25 to 3.0	+15% / -7.5%
	> 3.0 to 6.0	+10% / -5.0%
Group 3	> 6.0 to 16.0	+5.0% / -5.0%