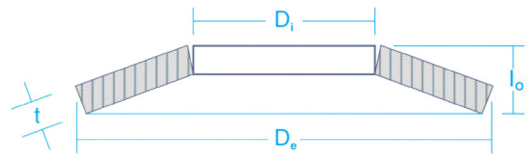




DISC SPRING TOLERANCES as per DIN 2093

For De - tolerance and For Di + Tolerance



Thickness tolerances:

	t or t' (mm)	Tolerance for t (mm)
Group 1	0.20 to 0.60	+ 0.02 / - 0.06
	> 0.60 to < 1.25	+0.03 / - 0.09
Group 2	1.25 to 3.80	+0.04 / - 0.12
	> 3.80 to < 6.00	+0.05 / - 0.15
Group 3	> 6.00 to < 16.00	+0.10 / - 0.10
For Group 3 , the tolerance is applied to the reduced thickness t'		

Overall Height Thickness:

	t mm	Tolerance for lo (mm)
Group 1	< 1.25	+ 0.10 / - 0.05
Group 2	1.25 to 2.00	+0.15 / - 0.05
Group 2	> 2.00 to < 3.00	+0.20 / - 0.10
	> 3.00 to < 6.00	+0.30 / - 0.15
Group 3	> 6.00 to < 16.00	+0.30 / - 0.30
To ensure the specified springs forges, Din 2093 allows the overall height tolerance to be slightly exceeded		

Diameter tolerances:

De or Di (mm)	Permissible deviation in mm	
	Outer Diameter	Inner Diameter
Over 3.00 to 6.00	+ 0 / - 0. 12	+0.12 / - 0.00
Over 6.00 to 10.00	+ 0 / - 0. 15	+0.15 / - 0.00
Over 10.00 to 18.00	+ 0 / - 0. 18	+0.18 / - 0.00
Over 18.00 to 30.00	+ 0 / - 0. 21	+0.21 / - 0.00
Over 30.00 to 50.00	+ 0 / - 0. 25	+0.25 / - 0.00
Over 50.00 to 80.00	+ 0 / - 0. 30	+0.30 / - 0.00
Over 80.00 to 120.00	+ 0 / - 0. 35	+0.35 / - 0.00
Over 120.00 to 180.00	+ 0 / - 0. 40	+0.40 / - 0.00
Over 180.00 to 250.00	+ 0 / - 0. 46	+0.46 / - 0.00
Over 250.00 to 315.00	+ 0 / - 0. 52	+0.52 / - 0.00
Over 315.00 to 400.00	+ 0 / - 0. 57	+0.57 / - 0.00
Over 400.00 to 500.00	+ 0 / - 0.63	+0.63 / - 0.00