

Stainless Steel Spring Washers

DIN 7980



DIN 7980 stainless steel spring washers are split, helical washers designed to provide resistance to loosening in bolted assemblies. When compressed, the washer applies a spring force that helps maintain preload and counters vibration induced loosening.

Applicable Standard

DIN 7980 – Helical spring washers.

Material

- A2 Stainless Steel (304)
- A4 Stainless Steel (316)

Sizes

M6–M30.

Specific Features

- Split (helical) spring washer profile
- Square or rectangular wire section, depending on size
- Metric dimensions as defined by DIN 7980
- Designed to fit standard metric bolts, screws, and nuts

Performance

- Provides resistance to loosening caused by vibration
- Maintains clamping force under dynamic loading
- Compatible with stainless bolts and nuts of matching grade

Typical Applications

- Vibration prone assemblies

- Mechanical and engineering fixings
- Threaded bar, bolt, and stud connections
- General construction and industrial installations
- External and corrosive environments when used with stainless fasteners

Dimensions & Design

Stainless Steel Spring Washers are defined by their outer diameter (OD) and internal diameter (ID) to DIN 7980.

DIN 7890 Spring Lock Washer for Cylinder Head Screws

Nominal	d1		d2	S		h		For Thread Size
	Max.	Min.	Max.		Limit	Max.	Min.	
6	6.5	6.1	9.9	1.6	±0.1	3.78	3.2	M6
8	8.5	8.1	12.7	2	±0.1	4.72	4	M8
10	10.7	10.2	16	2.5	±0.15	5.9	5	M10
12	12.7	12.2	18	2.5	±0.15	5.9	5	M12
14	14.7	14.2	21.1	3	±0.2	7.1	6	M14
16	17	16.2	24.4	3.5	±0.2	8.25	7	M16
18	19	18.2	25.4	3.5	±0.2	8.25	7	M18
20	21.2	20.2	30.6	4.5	±0.2	10.6	9	M20
22	23.5	22.5	32.9	4.5	±0.2	10.6	9	M22
24	25.5	24.5	35.9	5	±0.2	11.8	10	M24
27	28.5	27.5	38.9	5	±0.2	11.8	10	M27
30	31.7	30.5	44.1	6	±0.2	14.2	12	M30

