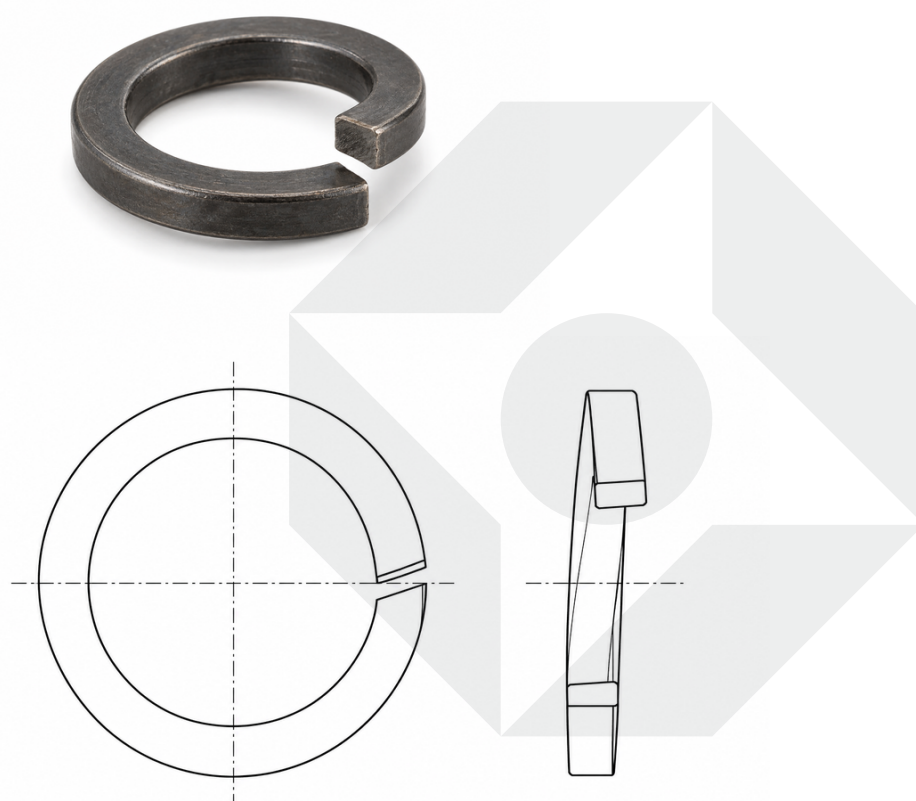


DIN 7980

Spring washer for socket head screws

A split washer with square cross-section and a compact outside envelope for assemblies specifying DIN 7980 geometry. Check bore, section and free height against the screw head and housing.

20 selected metric sizes from M2.5 to M42, with gaps in the range. Limits for the commercial spring-steel series. Other sizes and finishes on request.



d1: bore · d2: maximum outside diameter · b/s: square-section sides · h: free height.

Identification drawing, not a manufacturing drawing.

Dimensional range

Dimensions in millimetres.

M	d1 min.–max.	d2 max.	b / s min.–max.	h min.–max.	kg / 1,000 pcs
2.5	2.6–2.9	4.7	0.7–0.9	1.6–1.9	0.055
3	3.1–3.4	5.6	0.9–1.1	2–2.36	0.105
3.5	3.6–3.9	6.1	0.9–1.1	2–2.36	0.115
4	4.1–4.4	7	1.1–1.3	2.4–2.83	0.191
5	5.1–5.4	8.8	1.5–1.7	3.2–3.78	0.38
6	6.1–6.5	9.9	1.5–1.7	3.2–3.78	0.43
8	8.1–8.5	12.7	1.9–2.1	3.8–4.52	0.92
10	10.2–10.7	16	2.35–2.65	5–5.9	1.776
12	12.2–12.7	18	2.35–2.65	5–5.9	2.062
14	14.2–14.7	21.1	2.8–3.2	6–7.1	3.4
16	16.2–17	24.4	3.3–3.7	7–8.25	5.745
18	18.2–19	26.4	3.3–3.7	7–8.25	6.3
20	20.2–21.2	30.6	4.3–4.7	9–10.6	11.8
22	22.5–23.5	32.9	4.3–4.7	9–10.6	12.74
24	24.5–25.5	35.9	4.8–5.2	10–11.8	16.383
27	27.5–28.5	38.9	4.8–5.2	10–11.8	18.193
30	30.5–31.7	44.1	5.8–6.2	12–14.2	32
33	33.5–34.7	47.1	5.8–6.2	12–14.2	35
36	36.5–37.7	52.2	6.75–7.25	14–16.5	52.5
42	42.5–43.7	60.2	7.75–8.25	16–18.9	80

Indicative supplier-catalogue weight for each size in spring steel. This is neither a normative mass nor a certified batch weight; do not transfer it to other materials.

Materials and classes

Material	Class / hardness	M	Supply
Spring steel	430–530 HV	M2.5–M42	On request

Finishes and treatments

Finish	Material	Class	M
Plain / as manufactured	Spring steel	430–530 HV	M2.5–M42
Electroplated zinc	Spring steel	430–530 HV	M2.5–M42

Plain oiled or zinc-plated versions. For coated spring steel, define the process, any hydrogen-relief treatment and inspection requirements; these are not implied by the finish name alone.



Standards, documents and enquiry

DIN 7980 is withdrawn but remains a commercial designation. Its geometry differs from DIN 127 B. This washer alone does not guarantee protection against vibration-induced loosening.

Suitability depends on the joint and preload. It does not replace a verified locking system for high-strength joints; assess the locking solution for the application.

Supply documentation

Declaration of conformity; Material certificate; EN 10204 2.2 test report; EN 10204 3.1 inspection certificate; Dimensional inspection report; Coating report; Other documentation

Documents are subject to order agreement; no batch certificate is automatically included.

Related components

DIN 127 B, ISO 4762. Compare envelopes and assembly requirements; the socket head screw link is not automatic approval of the joint.

Request a quote

Specify standard, diameter, pitch and length where applicable, material, property class or hardness, finish, quantity and documents. Other sizes and dedicated production can be assessed on request, with agreed minimum quantities.

Reference technical configurations: these do not represent stock quantities.

Other materials and specifications

Other sizes, coatings and A2/A4 stainless versions on request. Stainless variants require their own dimensions and properties; they do not inherit spring-steel hardness or mass.

