

Original SCHNORR® load washers acc. to DIN 6796

These SCHNORR® load washers have been specially developed for high-strength bolts of grades 8.8 - 10.9. This represents the most powerful form of safety washer in the form of a disc spring. The load of the washers have been matched to these bolts and are 70 to 90% of the bolt load in the flat state.

These load washers conform to DIN 6796, edition Oct. 1987, and are designed for high demands on the protection of bolt joints. As a highly progressive load increase occurs at the end of the spring deflection when the load washer is flattened the load has been indicated as double the calculated value. Tests have shown that these values are comparable with the measured values.

For the protection of bolted joints only that load is available which remains after the load washer has initially set.

The table indicates the respective minimum height after the initial loading of the washer.

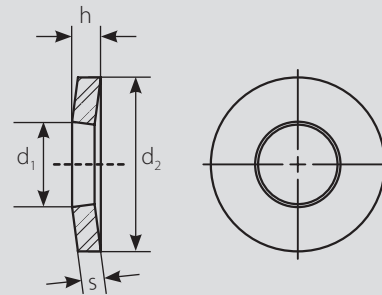
Thus the maximum loss of height due to setting is limited.

Particular advantages of the SCHNORR® load washer:

- ① High axial load
- ② Optimum compensation for setting in the joint
- ③ Reduction of the dynamic loading of the screw.
- ④ Uniform concentric loading and high safety through a high degree of spring action
- ⑤ Suitable for captive fitting on a wide range of bolts (combi bolts)

Explanations on the table:

Technical requirements:	according to DIN 267, Part 26
Available material grad.:	spring steel acc. to DIN EN 10132-4, other materials on request
Available surfaces:	hardened, blank and oiled; mechanically plated; other materials on request
Article-no.:	applies to the normal version made of spring steel
h max.:	maximum dimension in delivery condition
h min.:	minimum dimension after setting test according to DIN 267, Part 26
Contact force:	contact forces for the setting test according to DIN 267, Part 26
Min. residual spring load:	spring load, which rests after load with the contact pressure acc. to DIN 267, Part 26 and subsequent relieving of 20 µm



Designation of an original SCHNORR® load washer DIN 6796:

Size 8 made of spring steel
= load washer DIN 6796-8 FSt.

Original SCHNORR® load washers acc. to DIN 6796 material C60 S (1.1211)

Article number/ Order reference	Finish	Size	Ordering dimensions					Contact force	Minimum residual spring load
			Nominal size [mm]	d ₁ [mm]	d ₂ [mm]	s [mm]	h _{min.} [mm]		
700 000 702 110	blank, oiled Zn12M + passivation	2	2.2	5	0.4	0.5	0.60	*	*
700 100 702 120	blank, oiled Zn12M + passivation	2.5	2.7	6	0.5	0.6	0.72	*	*
700 200 702 130	blank, oiled Zn12M + passivation	3	3.2	7	0.6	0.7	0.85	*	*
700 300 702 140	blank, oiled Zn12M + passivation	3.5	3.7	8	0.8	0.9	1.06	*	*
700 400 702 150	blank, oiled Zn12M + passivation	4	4.3	9	1.0	1.1	1.30	4400	1400
700 500 702 160	blank, oiled Zn12M + passivation	5	5.3	11	1.2	1.3	1.55	7200	2300
700 600 702 170	blank, oiled Zn12M + passivation	6	6.4	14	1.5	1.7	2.00	10200	4200
700 700 702 180	blank, oiled Zn12M + passivation	7	7.4	17	1.75	2.0	2.30	14800	6200
700 800 702 190	blank, oiled Zn12M + passivation	8	8.4	18	2.0	2.2	2.60	18600	7700
700 900 702 200	blank, oiled Zn12M + passivation	10	10.5	23	2.5	2.8	3.20	29600	12400
701 000 702 210	blank, geölt Zn12M + passivation	12	13.0	29	3.0	3.4	3.95	43000	18000
701 100 702 220	blank, oiled Zn12M + passivation	14	15.0	35	3.5	4.0	4.65	59100	25000
701 200 702 230	blank, oiled Zn12M + passivation	16	17.0	39	4.0	4.6	5.25	80900	34000
701 300 702 240	blank, oiled Zn12M + passivation	18	19.0	42	4.5	5.1	5.80	102000	57000
701 400 702 250	blank, oiled Zn12M + passivation	20	21.0	45	5.0	5.6	6.40	130000	73000
701 500 702 260	blank, oiled Zn12M + passivation	22	23.0	49	5.5	6.1	7.05	162000	91000
701 600 702 270	blank, oiled Zn12M + passivation	24	25.0	56	6.0	6.8	7.75	188000	122000
701 700 702 280	blank, oiled Zn12M + passivation	27	28.0	60	6.5	7.3	8.35	246000	161000
701 800 702 290	blank, oiled Zn12M + passivation	30	31.0	70	7.0	8.0	9.20	300000	196000

We would be glad to offer you load washers according to DIN 6796 in different finish and material grades on request.

* dimensions not listed in DIN 267 part 26