



Load Washer Advantages

Original SCHNORR® load washers acc. to DIN 6796

These SCHNORR® load washers have been specially developed for high-strength bolts of grades 8.8 - 12.9. 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.

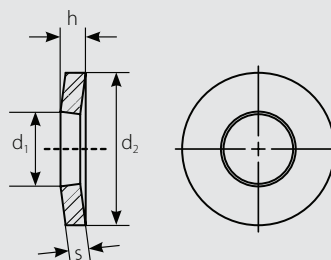
For the protection of bolted joints only that load is available which remains after the load washer has initially set. The table indicates the respective minimum height after the initial loading of the washer. Thus the maximum loss of height due to setting is limited.

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 grades:	spring steel acc. to DIN EN 10132-4, other materials on request
Available surfaces:	hardened, blank and oiled; mechanically galvanized; 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
Minimum residual spring load :	spring load, which rests after load with the contact pressure acc. to DIN 267 part 2 and subsequent relieving of 100 µm



Designation of an original SCHNORR® load washer DIN 6796:

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