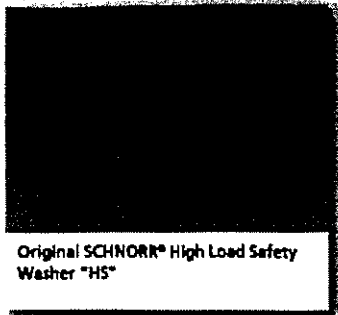


SCHNORR® Bolting Series Washers

SCHNORR® High Load Safety Washers - HS



This safety washer is in principle a load washer with a smaller outer diameter than those in DIN 6796.

A notable feature of these washers is the slightly curved form, which provides a progressively increasing characteristic curve. Despite the smaller outside

dimensions, this makes it possible to achieve the same load as the load washers as per DIN 6796.

These washers are primarily used when the space available is insufficient for standardized load washers.

Original SCHNORR® High Load Safety Washer "HS"

Available materials:
Spring steel
as per DIN 17221 or 17222

Available finishes:
phosphated and oiled

Bolt Size		d ₁	d ₂	s	h	h	d ₁	d ₂	s	h	h	Steel Flat Load lbs
metric mm	Imperial Inch	mm	mm	mm	max. mm	min. mm	Inch	Inch	Inch	max. Inch	min. Inch	
8	5/16"	8.4	17	2	2.55	2.21	.331	.669	.079	.100	.087	3395
12	1/2"	13	24	3	3.75	3.27	.512	.945	.118	.148	.129	7823
16	5/8"	17	30	4	4.95	4.31	.669	1.181	.157	.195	.170	14118
20	3/4"	21	36	5	5.95	5.3	.827	1.417	.197	.234	.209	20727
24	7/8"	25	45	6	7.3	6.45	.984	1.772	.236	.287	.254	36349
30	1 1/8"	31	58	7	8.9	7.65	1.220	2.283	.276	.350	.301	40466

Standards

DIN EN 10048	Hot-rolled narrow steel strip - Tolerances on dimensions and shape	DIN EN 1652	Copper and copper alloys - Plate, sheet, strip and circles for general purposes
DIN EN 10140	Coiled rolled steel	DIN EN 1654	Copper and copper alloys - Strip for springs and connectors
DIN 2092	Disc springs; calculation	DIN 50938	Alkaline blackening (black finishing) of iron materials
DIN 2093	Disc springs; dimensions and quality specifications	DIN 50942	Phosphating of metals
DIN 7521	Steel forgings; technical terms of delivery	DIN 50960	Electroplated and chemical coatings; designation and specification in technical documents
DIN 17221	Hot rolled steels for quenched and tempered springs	DIN EN 10258	Cold-rolled stainless steel narrow strip and cut lengths - Tolerances on dimensions and shape
DIN EN 10132-4	Cold-rolled narrow steel strip for heat-treatment Part 4: Spring steels and other applications	DIN EN 10029	Hot rolled steel plates 3 mm thick or above; Tolerances on dimensions, shape and mass
DIN EN 10151	Wire and strip of stainless steels for springs	DIN EN 10088-2	Stainless steels
DIN EN 10269	Steel and nickel alloys for fasteners with specified elevated and / or low temperature properties		