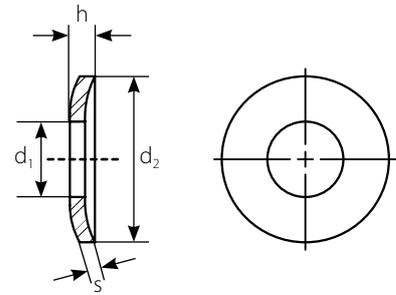


Original SCHNORR® high stress load washers „HS“

This safety washer is, in principle, a load washer with a smaller outer diameter than those acc. to DIN 6796. A notable feature of these washers is the slightly curved form which provides a progressively increasing characteristic curve. Despite the smaller outside diameter dimensions this makes it possible to achieve the same load as the load washers acc. to DIN 6796. These washers are primarily used when the space available is insufficient for standardised load washers.

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:	phosphated 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
Minimum 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



Description of an original SCHNORR® high stress load washer type “HS”:

Size 12 made of spring steel:
= Safety Washer HS 12 FSt.
phosphated and oiled

Original SCHNORR® safety washers type “HS” material C60 S (1.1211)

Article number/ Order reference	Finish	Size	Ordering dimensions					Contact force F [N]	Minimum residual spring load F [N]
			Nominal size [mm]	d ₁ [mm]	d ₂ [mm]	s [mm]	h _{min.} [mm]		
416 320 431510	Phosphated and oiled Zn12M + passivation	6	6.4	12	1.5	1.64	1.90	10200	4200
416 520 431 520	Phosphated and oiled Zn12M + passivation	8	8.4	17	2.0	2.10	2.55	18600	7700
423 220 431 530	Phosphated and oiled Zn12M + passivation	10	10.5	21	2.5	2.75	3.15	29600	12400
426 400 431 540	Phosphated and oiled Zn12M + passivation	12	13.0	24	3.0	3.27	3.75	43000	18000
429 320 431 550	Phosphated and oiled Zn12M + passivation	14	15.0	28	3.5	3.80	4.35	59100	25000
430 900 431 560	Phosphated and oiled Zn12M + passivation	16	17.0	30	4.0	4.31	4.95	80900	34000
433 750 431 570	Phosphated and oiled Zn12M + passivation	18	19.0	33	4.5	4.80	5.50	102000	57000
435 320 431 580	Phosphated and oiled Zn12M + passivation	20	21.0	36	5.0	5.30	5.95	130000	73000
436 620 431 590	Phosphated and oiled Zn12M + passivation	22	23.0	40	5.5	5.90	6.70	162000	91000
439 150 431 600	Phosphated and oiled Zn12M + passivation	24	25.0	45	6.0	6.45	7.30	188000	122000
440 100 431 610	Phosphated and oiled Zn12M + passivation	27	28.0	50	6.5	7.00	8.00	246000	161000
442 650 431 620	Phosphated and oiled Zn12M + passivation	30	31.0	58	7.0	7.65	8.90	300000	196000

We would be glad to offer you safety washers type “HS” with different finish on request.