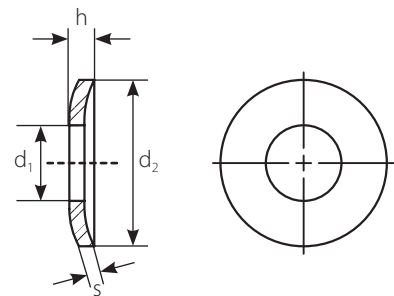


The original SCHNORR® HS-Washer

This bolt locking device 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® HS-Washer:

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

Original SCHNORR® HS-Washers material C60 S (1.1211)

Article-number/ Ordering reference	Finish	Size Nominal size [mm]	Ordering dimensions					Contact force F [N]	Minimum residual spring load F [N]	packaging	
			d ₁ [mm]	d ₂ [mm]	s [mm]	h _{min.} [mm]	h _{max.} [mm]			Unit piece	Weight per 1000 pieces (kg)
416 320 431 510	Phosphated and oiled Zn20M + passivation	6	6,4	12	1,5	1,64	1,90	10200	4200	1000	0,943
416 520 431 520	Phosphated and oiled Zn20M + passivation	8	8,4	17	2,0	2,10	2,55	18600	7700	500	2,438
423 220 431 530	Phosphated and oiled Zn20M + passivation	10	10,5	21	2,5	2,75	3,15	29600	12400	250	4,915
426 400 431 540	Phosphated and oiled Zn20M + passivation	12	13,0	24	3,0	3,27	3,75	43000	18000	250	7,194
429 320 431 550	Phosphated and oiled Zn20M + passivation	14	15,0	28	3,5	3,80	4,35	59100	25000	100	11,61
430 900 431 560	Phosphated and oiled Zn20M + passivation	16	17,0	30	4,0	4,31	4,95	80900	34000	200	14,5
433 750 431 570	Phosphated and oiled Zn20M + passivation	18	19,0	33	4,5	4,80	5,50	102000	57000	100	19,36
435 320 431 580	Phosphated and oiled Zn20M + passivation	20	21,0	36	5,0	5,30	5,95	130000	73000	50	25,33
436 620 431 590	Phosphated and oiled Zn20M + passivation	22	23,0	40	5,5	5,90	6,70	162000	91000	50	35,07
439 150 431 600	Phosphated and oiled Zn20M + passivation	24	25,0	45	6,0	6,45	7,30	188000	122000	25	50,28
440 100 431 610	Phosphated and oiled Zn20M + passivation	27	28,0	50	6,5	7,00	8,00	246000	161000	20	66,94
442 650 431 620	Phosphated and oiled Zn20M + passivation	30	31,0	58	7,0	7,65	8,90	300000	196000	-	101

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