Original SCHNORR® safety washers type "VS"

The Original SCHNORR® Safety Washer "VS" can be used with high-strength bolts of the grade 8.8 -10.9 without any restrictions. This extra strong safety washer has a greater thickness for higher pre-tensioning loads. The outside inside diameter as well and the serrations are the same as the "S" type. It can be delivered for screws M 5 t o M 30. Special sizes are also available upon request.

Explanations on the table:

Article no.: applies to the normal version made of spring steel,

hardened, blackened; mechanically plated

h max.: maximum dimension in delivery condition h min.: minimum dimension after load test

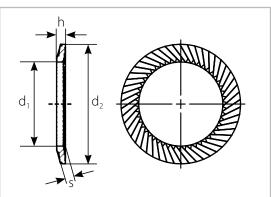
Available material grades: spring steel acc. to DIN EN 10132-4; corrosion-resistant

steel 1.4301; Phosphorus Bronze CuSn8; nickel cobalt

alloy, creep-resistant steel 1.4122; Inconel

Available surfaces: blackened (standard), bronzed, phosphated,

zinc-coated, zinc lamellar coatings



Designation of an original SCHNORR® safety washer type "VS":

Size 16 made of spring steel, surface mechanically plated

= safety washer VS 16 FSt. for 8 M + passivation

Article number/ Order reference	Finish	Size Nominal size [mm] [Inch]		Ordering dimensions					Packaging	
				d _ı [mm]	d ₂ [mm]	s [mm]	h _{min.} [mm]	h _{max.} [mm]	Unit [pcs.]	Weight per 1000 pieces [kg]
414600 450650	blackened Zn8M + passivation	5	3/16″	5.3	9.0	0.9	0.95	1.3	1000	0.273
416400 450750	blackened Zn8M + passivation	6		6.4	10.0	0.9	0.95	1.4	1000	0.300
420 500 451 050	blackened Zn8M + passivation	8	5/16"	8.4	13.0	1.1	1.15	1.7	1000	0.615
423 100 451 150	blackened Zn8M + passivation	10	3/8"	10.5	16.0	1.4	1.50	2.0	1000	1.167
426 300 451 350	blackened Zn8M + passivation	12		13.0	18.0	1.4	1.55	2.1	500	1.223
429 200 451 550	blackened Zn8M + passivation	14		15.0	22.0	1.4	1.65	2.2	500	2.089
430 800 451 650	blackened Zn8M + passivation	16	5/8″	17.0	24.0	1.9	2.05	2.6	250	3.142
432 500 451 750	blackened Zn8M + passivation	18		19.0	27.0	1.9	2.15	2.7	250	4.041
435 300 451 950	blackened Zn8M + passivation	20		21.0	30.0	1.9	2.10	2.8	250	5.066
436 700 452 050	blackened Zn8M + passivation	22	7/8"	23.0	33.0	1.9	2.30	3.0	100	6.117
438 000 452 150	blackened Zn8M + passivation	24		25.6	36.0	2.4	2.70	3.4	100	8.865
400 974 401 260	blackened Zn8M + passivation	25,4	1"	38.0	27.0	2.5	2.95	3.4	100	10.580
140 400 152 350	blackened Zn8M + passivation	27		28.6	39.0	2.4	2.80	3.5	100	9.731
441 600 452 450	blackened Zn8M + passivation	30	1 1/8"	31.6	45.0	2.4	3.05	3.8	100	14.380
442 801 401 051	blackened Zn8M + passivation	36	1 3/8"	38.0	54.0	3.0	3.75	4.5	50	27.226

Original SCHNORR® safety washers type "VS" material X5CrNi18-10 (1.4301)										
Article number/ Order reference	Size Nominal size			Or	Packaging					
			d,	$d_{_2}$	S	h _{min.}	h _{max.}	Unit	Weight per 1000 pieces	
	[mm]	[lnch]	[mm]	[mm]	[mm]	[mm]	[mm]	[pcs.]	[kg]	
416 201	5	3/16"	5.3	9.0	1.0	1.05	1.3	1000	0.298	
418001	6		6.4	10.0	1.0	1.10	1.4	1000	0.330	
422 901	8	5/16"	8.4	13.0	1.5	1.60	2.0	1000	0.836	
425 020	10	3/8"	10.5	16.0	1.8	1.90	2.3	1000	1.501	
427 700	12		13.0	18.0	1.8	1.90	2.4	500	1.731	
430 660	14		15.0	22.0	1.8	1.95	2.5	500	2.693	
430 750	16	5/8"	17.0	24.0	2.5	2.60	3.1	250	4.145	
433 621	18		19.0	27.0	2.5	2.65	3.2	250	5.337	
435 250	20		21.0	30.0	2.5	2.70	3.3	250	6.709	
436 721	22		23.0	33.0	2.5	2.70	3.4	100	8.184	
438 021	24		25.4	36.0	3.0	3.20	3.9	100	11.262	
441 420	27		28.6	39.0	3.0	3.30	4.0	100	12.360	
441 621	30	1 1/8"	31.6	45.0	3.0	3.55	4.3	100	18.222	

We would be glad to offer you safety washers type "VS" in further special material grades on request.

Original SCHNORR® safety washers "UV" captive fitting on bolts

For screws with captive safety washers

These safety washers are dimensioned so they can be fitted to bolts or screws from M2.5 to M10. This is done prior to thread rolling so the safety washers are captive.

