



SCHNORR®



DISC SPRINGS

Keep Bolted Joints Tight

A Disc Spring is an annular disc of steel, formed into a conical section. Load is generated by flattening this section. Although one single disc can be used, it is more usual for several to be used in a column or stack. One of the most frequently used mechanical engineering components is the Disc Spring.

Benefits

- Absorb movement in progressive or regressive character according to design performance
- Alteration of spring performance as desired by the addition or removal of single springs
- Space saving
- Large self-dampening, particularly with parallel stacking, giving good shock absorption and energy dissipation
- No deformation or fatigue under normal loads
- Long service life



Disc springs are available from 3.2mm to 127mm inside diameter in varying thicknesses and outside diameters.



SCHNORR can supply you with complete, mountable custom made spring units which are 100 % load tested. This gives you the benefit of tailored design assembly with a high degree of security.

Specialty Program

Constantly increasing product and quality requirements often make the use of custom-made springs necessary. These can be specifically designed to suit your application.

The use of a special size can lead to considerable product and price advantages when it results in volume production. An early consultation between you and SCHNORR technical staff, even at the conceptual stage, can lead to tailor-made solutions.

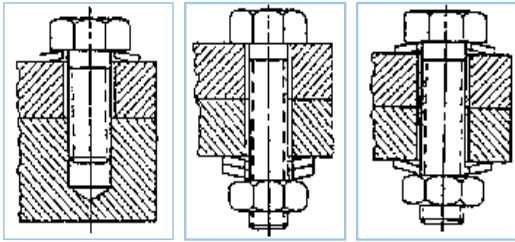
SCHNORR's modern tooling plant, specialized production and testing processes makes production of high-quality special designed springs easy and quick.

Give us a call to receive a quote and aid with design for your specialized custom solution.



Applications Include

- To isolate vibration
- For dynamic and static spring clamping
- To control relief valves & tension gland packings
- For use in brakes, braking systems & safety clutches
- For shock absorbing devices
- For hydraulic cylinder and cable anchors
- For clamping devices, indexing and holding equipment
- For bus bar joints and heavy duty connectors
- For equipment and vessel mountings to combat vibrations and movements due to atmosphere conditions



Stacked in parallel



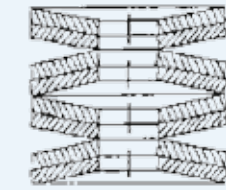
Deflection:
Same as for the single disc
Force:
Force of the single disc multiplied by the number of discs in parallel.

Stacked in series



Deflection:
Deflection of the single disc multiplied by the number of discs in column
Force:
Same as for the single disc.

Stacked in series - parallel



Deflection:
Deflection of the single disc multiplied by the number of series in column
Force:
Force of the single disc multiplied by the number of discs in each parallel series.

Original SCHNORR disc Springs

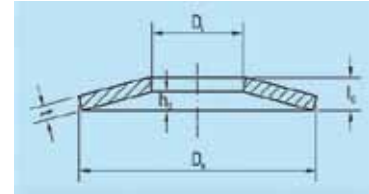
Features:

"Highest load in the smallest space"

Standard SCHNORR® Disc Springs are preset to eliminate setting losses.

Manufactured acc. to DIN 2093 and to works standard, using all suitable non-galvanic surface treatments.

Standard Material (C75S and 51CrV4)



PART NO.	MOQ	De mm	Di mm	Thickness (t) mm	LIST PRICE
SCH006X3.2X0.3	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	6	3.2	0.3	\$ 0.60
SCH008X3.2X0.2		8	3.2	0.2	\$ 0.60
SCH008X3.2X0.3		8	3.2	0.3	\$ 0.60
SCH008X3.2X0.4		8	3.2	0.4	\$ 0.60
SCH008X4.2X0.2		8	4.2	0.2	\$ 0.60
SCH008X4.2X0.3		8	4.2	0.3	\$ 0.60
SCH008X4.2X0.4		8	4.2	0.4	\$ 0.60
SCH010X3.2X0.3		10	3.2	0.3	\$ 0.60
SCH010X3.2X0.4		10	3.2	0.4	\$ 0.60
SCH010X3.2X0.5		10	3.2	0.5	\$ 0.60
SCH010X4.2X0.4		10	4.2	0.4	\$ 0.60
SCH010X4.2X0.5		10	4.2	0.5	\$ 0.60
SCH010X5.2X0.25		10	5.2	0.25	\$ 0.60
SCH010X5.2X0.4		10	5.2	0.4	\$ 0.60
SCH010X5.2X0.5		10	5.2	0.5	\$ 0.60
SCH012X4.2X0.4		12	4.2	0.4	\$ 0.60
SCH012X4.2X0.5		12	4.2	0.5	\$ 0.60
SCH012X4.2X0.6		12	4.2	0.6	\$ 0.60
SCH012X5.2X0.5		12	5.2	0.5	\$ 0.60
SCH012X5.2X0.6		12	5.2	0.6	\$ 0.60
SCH012X6.2X0.5	12	6.2	0.5	\$ 0.60	
SCH012X6.2X0.6	12	6.2	0.6	\$ 0.60	

PART NO.	MOQ	De mm	Di mm	Thickness (t) mm	LIST PRICE
SCH012.5X5.2X.5	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	12.5	5.2	0.5	\$ 0.60
SCH012.5X6X0.35		12.5	6.2	0.35	\$ 0.60
SCH012.5X6.2X.5		12.5	6.2	0.5	\$ 0.60
SCH012.5X6.2X.7		12.5	6.2	0.7	\$ 0.60
SCH014X7.2X0.35		14	7.2	0.35	\$ 0.60
SCH014X7.2X0.5		14	7.2	0.5	\$ 0.60
SCH014X7.2X0.8		14	7.2	0.8	\$ 0.60
SCH015X5.2X0.4		15	5.2	0.4	\$ 0.60
SCH015X5.2X0.5		15	5.2	0.5	\$ 0.60
SCH015X5.2X0.6		15	5.2	0.6	\$ 0.60
SCH015X5.2X0.7		15	5.2	0.7	\$ 0.60
SCH015X6.2X0.5		15	6.2	0.5	\$ 0.60
SCH015X6.2X0.6		15	6.2	0.6	\$ 0.60
SCH015X6.2X0.7		15	6.2	0.7	\$ 0.60
SCH015X8.2X0.7		15	8.2	0.7	\$ 0.60
SCH015X8.2X0.8		15	8.2	0.8	\$ 0.60
SCH016X8.2X0.4		16	8.2	0.4	\$ 0.70
SCH016X8.2X0.6		16	8.2	0.6	\$ 0.70
SCH016X8.2X0.7		16	8.2	0.7	\$ 0.70
SCH016X8.2X0.8		16	8.2	0.8	\$ 0.70
SCH016X8.2X0.9		16	8.2	0.9	\$ 0.70
SCH018X6.2X0.4		18	6.2	0.4	\$ 0.70
SCH018X6.2X0.5		18	6.2	0.5	\$ 0.70
SCH018X6.2X0.6		18	6.2	0.6	\$ 0.70
SCH018X6.2X0.7		18	6.2	0.7	\$ 0.70
SCH018X6.2X0.8		18	6.2	0.8	\$ 0.70
SCH018X8.2X0.5		18	8.2	0.5	\$ 0.70
SCH018X8.2X0.7		18	8.2	0.7	\$ 0.70
SCH018X8.2X0.8		18	8.2	0.8	\$ 0.70
SCH018X8.2X1		18	8.2	1	\$ 0.70
SCH018X9.2X0.45		18	9.2	0.45	\$ 0.70
SCH018X9.2X0.7		18	9.2	0.7	\$ 0.70
SCH018X9.2X1		18	9.2	1	\$ 0.70
SCH020X8.2X0.6		20	8.2	0.6	\$ 0.90
SCH020X8.2X0.7		20	8.2	0.7	\$ 0.90
SCH020X8.2X0.8		20	8.2	0.8	\$ 0.90
SCH020X8.2X0.9		20	8.2	0.9	\$ 0.90
SCH020X8.2X1		20	8.2	1	\$ 0.90
SCH020X10.2X0.5		20	10.2	0.5	\$ 0.90
SCH020X10.2X0.8		20	10.2	0.8	\$ 0.90
SCH020X10.2X0.9		20	10.2	0.9	\$ 0.90
SCH020X10.2X1		20	10.2	1	\$ 0.90
SCH020X10.2X1.1		20	10.2	1.1	\$ 0.90
SCH020X10.2X125		20	10.2	1.25	\$ 0.90
SCH020X10.2X1.5		20	10.2	1.5	\$ 0.90
SCH022.5X11X0.6		22.5	11.2	0.6	\$ 0.90
SCH022.5X11X0.8		22.5	11.2	0.8	\$ 0.90
SCH022.5X11X125		22.5	11.2	1.25	\$ 1.00



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PART NO.	MOQ	De mm	Di mm	Thickness (t) mm	LIST PRICE
SCH023X8.2X0.7	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	23	8.2	0.7	\$ 0.90
SCH023X8.2X0.8		23	8.2	0.8	\$ 0.90
SCH023X8.2X0.9		23	8.2	0.9	\$ 0.90
SCH023X8.2X1		23	8.2	1	\$ 0.90
SCH023X10.2X0.9		23	10.2	0.9	\$ 0.90
SCH023X10.2X1		23	10.2	1	\$ 0.90
SCH023X10.2X125		23	10.2	1.25	\$ 1.00
SCH023X12.2X1		23	12.2	1	\$ 0.90
SCH023X12.2X125		23	12.2	1.25	\$ 1.00
SCH023X12.2X1.5		23	12.2	1.5	\$ 1.20
SCH025X10.2X1		25	10.2	1	\$ 1.20
SCH025X12.2X0.7		25	12.2	0.7	\$ 1.20
SCH025X12.2X0.9		25	12.2	0.9	\$ 1.20
SCH025X12.2X1		25	12.2	1	\$ 1.20
SCH025X12.2X125		25	12.2	1.25	\$ 1.20
SCH025X12.2X1.5		25	12.2	1.5	\$ 1.20
SCH028X10.2X0.8		28	10.2	0.8	\$ 1.20
SCH028X10.2X1		28	10.2	1	\$ 1.20
SCH028X10.2X125		28	10.2	1.25	\$ 1.20
SCH028X10.2X1.5		28	10.2	1.5	\$ 1.30
SCH028X12.2X1		28	12.2	1	\$ 1.20
SCH028X12.2X125		28	12.2	1.25	\$ 1.20
SCH028X12.2X1.5		28	12.2	1.5	\$ 1.20
SCH028X14.2X0.8		28	14.2	0.8	\$ 1.20
SCH028X14.2X1		28	14.2	1	\$ 1.20
SCH028X14.2X125		28	14.2	1.25	\$ 1.20
SCH028X14.2X1.5		28	14.2	1.5	\$ 1.20
SCH031.5X12.2X1		31.5	12.2	1	\$ 1.40
SCH031.5X12X125		31.5	12.2	1.25	\$ 1.40
SCH031.5X12X1.5		31.5	12.2	1.5	\$ 1.40
SCH031.5X16X0.8		31.5	16.3	0.8	\$ 1.40
SCH031.5X16X125		31.5	16.3	1.25	\$ 1.40
SCH031.5X16X1.5		31.5	16.3	1.5	\$ 1.40
SCH031.5X16X175		31.5	16.3	1.75	\$ 1.50
SCH031.5X16.3X2		31.5	16.3	2	\$ 1.70
SCH034X12.3X1		34	12.3	1	\$ 1.50
SCH034X12.3X125	34	12.3	1.25	\$ 1.50	
SCH034X12.3X1.5	34	12.3	1.5	\$ 1.60	
SCH034X14.3X125	34	14.3	1.25	\$ 1.50	
SCH034X14.3X1.5	34	14.3	1.5	\$ 1.70	
SCH034X16.3X1.5	34	16.3	1.5	\$ 1.70	
SCH034X16.3X2	34	16.3	2	\$ 1.80	
SCH035.5X18X0.9	35.5	18.3	0.9	\$ 1.50	
SCH035.5X18X125	35.5	18.3	1.25	\$ 1.50	
SCH035.5X18.3X2	35.5	18.3	2	\$ 2.00	

PART NO.	MOQ	De mm	Di mm	Thickness (t) mm	LIST PRICE
SCH040X14.3X125	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	40	14.3	1.25	\$ 2.20
SCH040X14.3X1.5		40	14.3	1.5	\$ 2.20
SCH040X14.3X2		40	14.3	2	\$ 2.40
SCH040X16.3X1.5		40	16.3	1.5	\$ 2.20
SCH040X16.3X2		40	16.3	2	\$ 2.40
SCH040X18.3X2		40	18.3	2	\$ 2.40
SCH040X20.4X1		40	20.4	1	\$ 2.20
SCH040X20.4X1.5		40	20.4	1.5	\$ 2.20
SCH040X20.4X2		40	20.4	2	\$ 2.30
SCH040X20.4X225		40	20.4	2.25	\$ 2.60
SCH040X20.4X2.5		40	20.4	2.5	\$ 2.80
SCH045X22.4X125		45	22.4	1.25	\$ 2.90
SCH045X22.4X175		45	22.4	1.75	\$ 3.00
SCH045X22.4X2.5		45	22.4	2.5	\$ 3.40
SCH050X18.4X125		50	18.4	1.25	\$ 2.90
SCH050X18.4X1.5		50	18.4	1.5	\$ 3.00
SCH050X18.4X2		50	18.4	2	\$ 3.70
SCH050X18.4X2.5		50	18.4	2.5	\$ 4.30
SCH050X18.4X3		50	18.4	3	\$ 5.00
SCH050X20.4X2		50	20.4	2	\$ 3.60
SCH050X20.4X2.5		50	20.4	2.5	\$ 4.30
SCH050X22.4X2		50	22.4	2	\$ 3.60
SCH050X22.4X2.5		50	22.4	2.5	\$ 4.30
SCH050X25.4X125		50	25.4	1.25	\$ 2.90
SCH050X25.4X1.5		50	25.4	1.5	\$ 3.00
SCH050X25.4X2		50	25.4	2	\$ 3.60
SCH050X25.4X2.5		50	25.4	2.5	\$ 4.20
SCH050X25.4X3		50	25.4	3	\$ 4.90
SCH056X28.5X1.5	56	28.5	1.5	\$ 3.60	
SCH056X28.5X2	56	28.5	2	\$ 4.30	
SCH056X28.5X3	56	28.5	3	\$ 6.10	
SCH060X20.5X2	60	20.5	2	\$ 5.00	
SCH060X20.5X2.5	60	20.5	2.5	\$ 5.80	
SCH060X20.5X3	60	20.5	3	\$ 6.90	
SCH060X25.5X2.5	60	25.5	2.5	\$ 5.80	
SCH060X25.5X3	60	25.5	3	\$ 6.90	
SCH060X30.5X2.5	60	30.5	2.5	\$ 5.70	
SCH060X30.5X3	60	30.5	3	\$ 6.80	
SCH060X30.5X3.5	60	30.5	3.5	\$ 7.50	
SCH063X31X1.8	63	31	1.8	\$ 5.40	
SCH063X31X2.5	63	31	2.5	\$ 6.20	
SCH063X31X3	63	31	3	\$ 7.50	
SCH063X31X3.5	63	31	3.5	\$ 8.20	



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PART NO.	MOQ	De mm	Di mm	Thickness (t) mm	LIST PRICE
SCH070X25.5X2	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	70	25.5	2	\$ 7.40
SCH070X30.5X2.5		70	30.5	2.5	\$ 8.10
SCH070X30.5X3		70	30.5	3	\$ 9.50
SCH070X35.5X3		70	35.5	3	\$ 9.40
SCH070X35.5X4		70	35.5	4	\$ 13.20
SCH070X40.5X4		70	40.5	4	\$ 13.10
SCH070X40.5X5		70	40.5	5	\$ 16.40
SCH071X36X2		71	36	2	\$ 7.40
SCH071X36X2.5		71	36	2.5	\$ 8.40
SCH071X36X4		71	36	4	\$ 13.50
SCH080X31X2.5		80	31	2.5	\$ 10.50
SCH080X31X3		80	31	3	\$ 11.80
SCH080X31X4		80	31	4	\$ 16.90
SCH080X36X3		80	36	3	\$ 11.70
SCH080X36X4		80	36	4	\$ 16.50
SCH080X41X2.25		80	41	2.25	\$ 9.80
SCH080X41X3		80	41	3	\$ 11.60
SCH080X41X4		80	41	4	\$ 16.60
SCH080X41X5		80	41	5	\$ 20.30
SCH090X46X2.5		90	46	2.5	\$ 13.40
SCH090X46X3.5		90	46	3.5	\$ 16.20
SCH090X46X5		90	46	5	\$ 24.60
SCH100X41X4		100	41	4	\$ 24.60
SCH100X41X5		100	41	5	\$ 30.80
SCH100X51X2.7		100	51	2.7	\$ 17.10
SCH100X51X3.5		100	51	3.5	\$ 19.60
SCH100X51X4		100	51	4	\$ 24.20
SCH100X51X5		100	51	5	\$ 30.30
SCH100X51X6		100	51	6	\$ 38.60
SCH112X57X3		112	57	3	\$ 26.20
SCH112X57X4		112	57	4	\$ 30.80
SCH112X57X6		112	57	6	\$ 43.80
SCH125X41X4		125	41	4	\$ 34.50
SCH125X51X4		125	51	4	\$ 37.70
SCH125X51X5		125	51	5	\$ 44.40
SCH125X51X6		125	51	6	\$ 48.30
SCH125X61X5		125	61	5	\$ 43.70
SCH125X61X6		125	61	6	\$ 69.30
SCH125X61X8		125	61	8	\$ 90.40
SCH125X64X3.5		125	64	3.5	\$ 32.20
SCH125X64X5	125	64	5	\$ 43.60	
SCH125X64X8	125	64	7.5	\$ 90.10	
SCH125X71X6	125	71	6	\$ 58.10	
SCH125X71X8	125	71	7.4	\$ 89.10	
SCH125X71X10	125	71	9.2	\$ 102.90	
SCH140X72X3.8	140	72	3.8	\$ 47.10	
SCH140X72X5	140	72	5	\$ 60.10	
SCH140X72X8	140	72	7.5	\$ 109.70	

PART NO.	MOQ	De mm	Di mm	Thickness (t) mm	LIST PRICE
SCH150X61X5	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	150	61	5	\$ 67.50
SCH150X61X6		150	61	6	\$ 93.00
SCH150X71X6		150	71	6	\$ 92.30
SCH150X71X8		150	71	7.5	\$ 122.10
SCH150X81X8		150	81	7.5	\$ 120.70
SCH150X81X10		150	81	9.3	\$ 136.70
SCH160X82X4.3		160	82	4.3	\$ 78.10
SCH160X82X6		160	82	6	\$ 96.90
SCH160X82X10		160	82	9.4	\$ 146.60
SCH180X92X4.8		180	92	4.8	\$ 107.00
SCH180X92X6		180	92	6	\$ 135.60
SCH180X92X10		180	92	9.4	\$ 186.60
SCH200X82X8		200	82	7.6	\$ 203.30
SCH200X82X10		200	82	9.6	\$ 233.40
SCH200X82X12		200	82	11.5	\$ 266.30
SCH200X92X10		200	92	9.5	\$ 250.00
SCH200X92X12		200	92	11.4	\$ 282.30
SCH200X92X14		200	92	13.1	\$ 306.50
SCH200X102X5.5		200	102	5.5	\$ 151.10
SCH200X102X8		200	102	7.5	\$ 199.50
SCH200X102X10		200	102	9.4	\$ 250.00
SCH200X102X12		200	102	11.25	\$ 260.10
SCH200X102X14		200	102	13.1	\$ 285.60
SCH200X112X12		200	112	11.1	\$ 256.70
SCH200X112X14		200	112	12.9	\$ 306.50
SCH200X112X16		200	112	14.8	\$ 330.80
SCH225X112X6.5		225	112	6.2	\$ 279.60
SCH225X112X8		225	112	7.5	\$ 287.50
SCH225X112X12		225	112	11.25	\$ 363.90
SCH250X102X10		250	102	9.6	\$ 405.00
SCH250X102X12	250	102	11.5	\$ 445.43	
SCH250X127X7	250	127	6.7	\$ 321.20	
SCH250X127X10	250	127	9.4	\$ 368.00	
SCH250X127X12	250	127	11.25	\$ 410.00	
SCH250X127X14	250	127	13.1	\$ 452.10	
SCH250X127X16	250	127	15	\$ 494.30	

SCHNORR "K" Series Disc Springs - Made in Germany

To eliminate axial play and for noise reduction in bearings. A spring has been designed for each bearing size. The outer ring of the bearing is pre-loaded using a "K" Spring. There is no need to worry about tolerance stack up, as the "K" Spring eliminates the original axial play. Whilst this range is offered, our supplier (SCHNORR) has minimum order requirements (MOQ) that have to be purchased. As this range isn't popular we must enforce the MOQ.

SCHK01-623	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	9.8	6.2	0.20	\$ 0.60
SCHK02-624		12.8	7.2	0.25	\$ 0.60
SCHK03-625		15.8	8.2	0.25	\$ 0.60
SCHK04-626		18.8	9.2	0.30	\$ 0.60
SCHK05-607		18.8	10.2	0.35	\$ 0.60
SCHK06-608		21.8	12.3	0.35	\$ 0.60
SCHK07-609		23.7	14.3	0.40	\$ 0.60
SCHK08-6000		25.7	14.3	0.40	\$ 0.70




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SCHK09-6001	PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY - PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876	27.7	17.3	0.40	\$ 0.70
SCHK10-6200		29.7	17.4	0.40	\$ 0.80
SCHK11-6002		31.7	20.4	0.40	\$ 0.80
SCHK12-6300		34.6	20.4	0.40	\$ 1.00
SCHK13-6003		34.6	22.4	0.50	\$ 1.10
SCHK14-6301		36.6	20.4	0.50	\$ 1.20
SCHK15-6203		39.6	25.5	0.50	\$ 1.30
SCHK16-6004		41.6	25.5	0.50	\$ 1.40
SCHK17-6005		46.5	30.5	0.60	\$ 1.70
SCHK18-6205		51.5	35.5	0.60	\$ 2.00
SCHK18A-6006		54.5	40.5	0.60	\$ 2.20
SCHK19-6007		61.5	40.5	0.70	\$ 3.40
SCHK19A-6008		67.5	50.5	0.70	\$ 4.00
SCHK20-6306		71.5	45.5	0.70	\$ 4.00
SCHK21-6207		71.5	50.5	0.70	\$ 4.00
SCHK21A-6009		74.5	55.5	0.80	\$ 4.50
SCHK22-6307		79.5	50.5	0.80	\$ 5.10
SCHK23-6010		79.5	55.5	0.80	\$ 5.10
SCHK24-6209		84.5	60.5	0.90	\$ 5.50
SCHK25-6308		89.5	60.5	0.90	\$ 5.90
SCHK26-6011		89.5	65.5	0.90	\$ 5.90
SCHK26A-6012		94.5	75.5	1.00	\$ 6.80
SCHK27-6309		99.0	65.5	1.00	\$ 7.60
SCHK28-6013		99.0	70.5	1.00	\$ 7.60
SCHK29-6310		109.0	70.5	1.25	\$ 10.00
SCHK30-6014		109.0	75.5	1.25	\$ 10.00
SCHK30A-6015		114.0	90.5	1.25	\$ 10.20
SCHK31-6311		119.0	75.5	1.25	\$ 11.80
SCHK32-6213		119.0	85.5	1.25	\$ 11.60
SCHK33-6016		124.0	90.5	1.25	\$ 13.00
SCHK34-6312		129.0	85.5	1.25	\$ 13.60
SCHK35-6017		129.0	95.5	1.25	\$ 14.80
SCHK36-6313		139.0	90.5	1.25	\$ 15.70
SCHK37-6018		139.0	101.0	1.25	\$ 17.30
SCHK38-6314		149.0	95.5	1.50	\$ 22.50
SCHK39-6020		149.0	106.0	1.50	\$ 26.10
SCHK40-6315		159.0	101.0	1.50	\$ 31.00
SCHK41-6021		159.0	111.0	1.50	\$ 30.60
SCHK42-6316		169.0	111.0	1.50	\$ 27.60
SCHK43-6022		169.0	121.0	1.50	\$ 27.60
SCHK44-6317		198.0	141.0	2.00	\$ 56.50

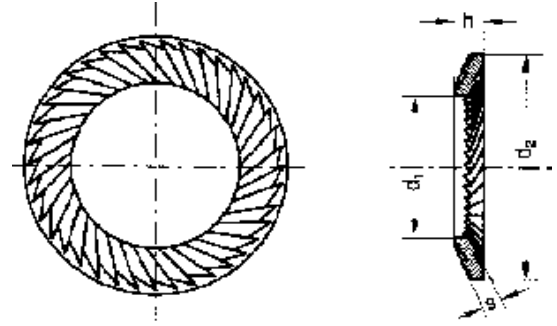


SCHNORR VS Washers

These safety washers are in the form of a disc spring which is serrated on both sides. The positive locking of the serrations gives them a high resistance to vibration.

They are available plain black or mechanically zinc plated with clear chromate.

These safety washers perform equal to or better than Nordlock products in laboratory tests at Materials Testing Institute, Darmstadt - Germany.



Keep Bolted Joints Tight

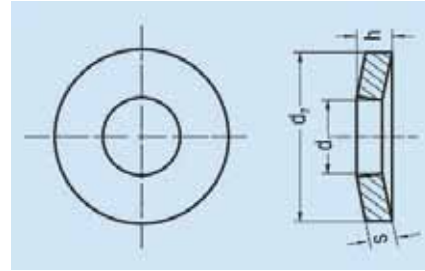
PART No.	MOQ	Description	List Price	PACK QTY	metric mm	imp. inch	d1 mm	d2 mm	s mm	h.max mm	h.min mm
SCHS02		2mm Black Washer	\$ 0.09	2000	2		2.2	4	0.35	0.6	0.39
SCHS02Z		2mm Plated Washer	\$ 0.10	2000	2		2.2	4	0.35	0.6	0.39
SCHS03Z		3mm Plated Washer	\$ 0.10	2000	3	1/8"	3.2	5.5	0.45	0.9	0.51
SCHS04Z		4mm Plated Washer	\$ 0.10	1000	4	5/32"	4.3	7	0.5	1	0.59
SCHVS05		5mm Black Washer	\$ 0.10	1000	5	3/16"	5.3	9	1	1.3	1.07
SCHVS05Z		5mm Plated Washer	\$ 0.10	1000	5	3/16"	5.3	9	1	1.3	1.07
SCHVS06		6mm Black Washer	\$ 0.10	1000	6		6.4	10	1	1.4	1.08
SCHVS06Z		6mm Plated Washer	\$ 0.10	1000	6		6.4	10	1	1.4	1.08
SCHVS08		8mm Black Washer	\$ 0.10	1000	8	5/16"	8.4	13	1.2	1.7	1.32
SCHVS08Z		8mm Plated Washer	\$ 0.12	1000	8	5/16"	8.4	13	1.2	1.7	1.32
SCHVS10		10mm Black Washer	\$ 0.20	1000	10	3/8"	10.5	16	1.5	2	1.64
SCHVS10Z		10mm Plated Washer	\$ 0.20	1000	10	3/8"	10.5	16	1.5	2	1.64
SCHVS12		12mm Black Washer	\$ 0.28	500	12		13	18	1.5	2.1	1.65
SCHVS12Z		12mm Plated Washer	\$ 0.30	500	12		13	18	1.5	2.1	1.65
SCHVS14		14mm Black Washer	\$ 0.35	500	14		15	22	1.5	2.2	1.76
SCHVS14Z		14mm Plated Washer	\$ 0.40	500	14		15	22	1.5	2.2	1.76
SCHVS16		16mm Black Washer	\$ 0.55	250	16	5/8"	17	24	2	2.6	2.21
SCHVS16Z		16mm Plated Washer	\$ 0.70	250	16	5/8"	17	24	2	2.6	2.21
SCHVS18		18mm Black Washer	\$ 0.90	250	18		19	27	2	2.7	2.27
SCHVS18Z		18mm Plated Washer	\$ 1.10	250	18		19	27	2	2.7	2.27
SCHVS20		20mm Black Washer	\$ 1.06	250	20		21	30	2	2.8	2.34
SCHVS20Z		20mm Plated Washer	\$ 1.30	250	20		21	30	2	2.8	2.34
SCHVS22		22mm Black Washer	\$ 1.25	100	22	7/8"	23	33	2	3	2.42
SCHVS22Z		22mm Plated Washer	\$ 1.50	100	22	7/8"	23	33	2	3	2.42
SCHVS24		24mm Black Washer	\$ 1.80	100	24		25.6	36	2.5	3.4	2.87
SCHVS24Z		24mm Plated Washer	\$ 2.10	100	24		25.6	36	2.5	3.4	2.87
SCHVS27		27mm Black Washer	\$ 2.25	100	27		28.6	39	2.5	3.5	2.91
SCHVS27Z		27mm Plated Washer	\$ 2.70	100	27		28.6	39	2.5	3.5	2.91
SCHVS30		30mm Black Washer	\$ 2.60	100	30	1.1/8"	31.6	45	2.5	3.8	3.12
SCHVS30Z		30mm Plated Washer	\$ 3.20	100	30	1.1/8"	31.6	45	2.5	3.8	3.12
SCHS36		36mm Black Washer	\$ 2.90	50	36	1.3/8"	38	54	2.5	4.2	3.38
SCHS36Z		36mm Plated Washer	\$ 3.50	50	36	1.3/8"	38	54	2.5	4.2	3.38

PLEASE NOTE MINIMUM ORDER QUANTITIES MAY APPLY -
PLEASE CONTACT WHITE INTERNATIONAL ON 1300 780 876

SCHNORR HDS Load Washers - Made in Germany to DIN6796

Typical Applications:

1. Electrical power transmission bus bars
2. Transformers and Insulators
3. Boiler joints, flanges and valves
4. Railway equipment, traction motors and braking equipment
5. Mining equipment crushers and screen gearboxes
6. Any high tensile bolting application where heavy vibration and / or heat stress causes breakdown time.



Keep Bolted Joints Tight

PART No.	MOQ	Description	List Price	metric mm	imp. inch	d1 mm	d2 mm	s mm	h.max mm	h.min mm	LOAD N	BOLT Load N
SCHHDS03		3mm Black Washer	\$0.20	3	1/8"	3.2	7	0.6	0.85	0.72	1320	1500
SCHHDS03Z		3mm Plated Washer	\$0.20	3	1/8"	3.2	7	0.6	0.85	0.72	1320	1500
SCHHDS04Z		4mm Plated Washer	\$0.20	4	5/32"	4.3	9	1	1.3	1.12	3770	4000
SCHHDS05Z		5mm Plated Washer	\$0.20	5	3/16"	5.3	11	1.2	1.55	1.35	5480	6700
SCHHDS06Z		6mm Plated Washer	\$0.20	6	1/4"	6.4	14	1.5	2	1.7	8590	9250
SCHHDS08		8mm Black Washer	\$0.20	8	5/16"	8.4	18	2	2.6	2.24	14900	17000
SCHHDS08Z		8mm Plated Washer	\$0.30	8	5/16"	8.4	18	2	2.6	2.24	14900	17000
SCHHDS10		10mm Black Washer	\$0.40	10	3/8"	10.5	23	2.5	3.2	2.8	22100	27100
SCHHDS10Z		10mm Plated Washer	\$0.45	10	3/8"	10.5	23	2.5	3.2	2.8	22100	27100
SCHHDS12		12mm Black Washer	\$0.70	12	1/2"	13	29	3	3.95	3.43	34100	39500
SCHHDS12Z		12mm Plated Washer	\$0.80	12	1/2"	13	29	3	3.95	3.43	34100	39500
SCHHDS14		14mm Black Washer	\$1.46	14	9/16"	15	35	3.5	4.65	4.04	46000	54000
SCHHDS14Z		14mm Plated Washer	\$1.70	14	9/16"	15	35	3.5	4.65	4.04	46000	54000
SCHHDS16		16mm Black Washer	\$1.87	16	5/8"	17	39	4	5.25	4.58	59700	75000
SCHHDS16Z		16mm Plated Washer	\$2.20	16	5/8"	17	39	4	5.25	4.58	59700	75000
SCHHDS18		18mm Black Washer	\$3.30	18		19	42	4.5	5.8	5.08	74400	90500
SCHHDS18Z		18mm Plated Washer	\$3.40	18		19	42	4.5	5.8	5.08	74400	90500
SCHHDS20		20mm Black Washer	\$4.20	20	3/4"	21	45	5	6.4	5.6	93200	117000
SCHHDS20Z		20mm Plated Washer	\$4.90	20	3/4"	21	45	5	6.4	5.6	93200	117000
SCHHDS22		22mm Black Washer	\$10.00	22	7/8"	23	49	5.5	7.05	6.15	113700	145000
SCHHDS22Z		22mm Plated Washer	\$12.00	22	7/8"	23	49	5.5	7.05	6.15	113700	145000
SCHHDS24		24mm Black Washer	\$8.20	24		25	56	6	7.75	6.77	131000	169000
SCHHDS24Z		24mm Plated Washer	\$10.00	24		25	56	6	7.75	6.77	131000	169000
SCHHDS27		27mm Black Washer	\$15.00	27	1"	28	60	6.5	8.35	7.3	154000	221000
SCHHDS27Z		27mm Plated Washer	\$16.90	27	1"	28	60	6.5	8.35	7.3	154000	221000
SCHHDS30		30mm Black Washer	\$16.90	30	1.1/8"	31	70	7	9.2	8	172000	269000
SCHHDS30Z		30mm Plated Washer	\$20.30	30	1.1/8"	31	70	7	9.2	8	172000	269000

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