

Section 2

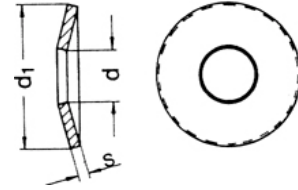
Non-Threaded Fasteners, Etc.

DISC SPRING WASHER # 2093

Ref: DIN 2093 - Chrome Vanadium Spring Steel - Black

Disc Springs (also known as Schnorr® washers or Belleville springs) offer particularly the following benefits:

- Load/deflection curves of straight, progressive or regressive character
- Easy adjustment of the spring stack length by addition or removal of discs
- Space saving
- No deformation or fatigue under normal loads, long service life
- Please call for permissible stress information



NOM. SIZE OD x ID x THICK d1 x d x s mm	SPRING HEIGHT mm	NOM. SIZE OD x ID x THICK d1 x d x s mm	SPRING HEIGHT mm	NOM. SIZE OD x ID x THICK d1 x d x s mm	SPRING HEIGHT mm	NOM. SIZE OD x ID x THICK d1 x d x s mm	SPRING HEIGHT mm
6 x 3.2 x 0.3	0.15	18 x 9.2 x 0.7	0.5	34 x 16.3 x 1.5	1.05	80 x 31 x 2.5	2.8
8 x 3.2 x 0.2	0.2	18 x 9.2 x 1.0	0.4	34 x 16.3 x 2.0	0.85	80 x 31 x 3	2.5
8 x 3.2 x 0.3	0.25	20 x 8.2 x 0.6	0.7	40 x 14.3 x 1.25	1.4	80 x 31 x 4	2.1
8 x 3.2 x 0.4	0.2	20 x 8.2 x 0.7	0.65	40 x 14.3 x 1.5	1.25	80 x 36 x 3	2.7
8 x 4.2 x 0.2	0.25	20 x 8.2 x 0.8	0.6	40 x 14.3 x 2.0	1.05	80 x 36 x 4	2.2
8 x 4.2 x 0.3	0.25	20 x 8.2 x 0.9	0.55	40 x 16.3 x 1.5	1.3	80 x 41 x 3	2.3
8 x 4.2 x 0.4	0.2	20 x 8.2 x 1.0	0.55	40 x 16.3 x 2.0	1.1	80 x 41 x 4	2.2
10 x 3.2 x 0.3	0.35	20 x 10.2 x 0.8	0.55	40 x 18.3 x 2.0	1.15	80 x 41 x 5	1.7
10 x 3.2 x 0.4	0.3	20 x 10.2 x 0.9	0.55	40 x 20.4 x 1.0	1.3	100 x 41 x 4	3.2
10 x 3.2 x 0.5	0.25	20 x 10.2 x 1.0	0.55	40 x 20.4 x 1.5	1.15	100 x 41 x 5	2.75
10 x 4.2 x 0.4	0.3	20 x 10.2 x 1.1	0.45	40 x 20.4 x 2.0	1.1	100 x 51 x 2.7	3.6
10 x 4.2 x 0.5	0.25	20 x 10.2 x 1.25	0.5	40 x 20.4 x 2.25	0.9	100 x 51 x 3.5	2.8
10 x 5.2 x 0.4	0.3	20 x 10.2 x 1.5	0.3	40 x 20.4 x 2.5	0.95	100 x 51 x 4	3.0
10 x 5.2 x 0.5	0.25	23 x 8.2 x 0.7	0.8	45 x 22.5 x 1.25	1.6	100 x 51 x 5	2.8
12 x 4.2 x 0.4	0.4	23 x 8.2 x 0.8	0.75	45 x 22.4 x 1.75	1.3	100 x 51 x 6	2.2
12 x 4.2 x 0.5	0.35	23 x 8.2 x 0.9	0.7	45 x 22.4 x 2.5	1.0	125 x 41 x 4	4.2
12 x 4.2 x 0.6	0.4	23 x 8.2 x 1.0	0.7	50 x 18.4 x 1.25	1.6	125 x 51 x 4	4.5
12 x 5.2 x 0.5	0.4	23 x 10.2 x 0.9	0.75	50 x 18.4 x 1.5	1.8	125 x 51 x 5	3.9
12 x 5.2 x 0.6	0.35	23 x 10.2 x 1.0	0.7	50 x 18.4 x 2.0	1.5	125 x 51 x 6	3.4
12 x 6.2 x 0.5	0.35	23 x 10.2 x 1.25	0.65	50 x 18.4 x 2.5	1.6	125 x 51 x 5	4.0
12 x 6.2 x 0.6	0.35	23 x 12.2 x 1.0	0.6	50 x 18.4 x 3.0	1.4	125 x 61 x 6	3.6
14 x 7.2 x 0.5	0.4	23 x 12.2 x 1.25	0.6	50 x 20.4 x 2.0	1.5	125 x 61 x 8	2.9
14 x 7.2 x 0.8	0.3	23 x 12.2 x 1.5	0.6	50 x 20.4 x 2.5	1.35	125 x 64 x 5	3.5
15 x 5.2 x 0.4	0.55	25 x 10.2 x 1.0	0.75	50 x 22.4 x 2.0	1.6	125 x 64 x 8	2.6
15 x 5.2 x 0.5	0.5	25 x 12.2 x 0.7	0.9	50 x 22.4 x 2.5	1.4	125 x 71 x 6	3.3
15 x 5.2 x 0.6	0.45	25 x 12.2 x 0.9	0.7	50 x 25.4 x 1.25	1.6	125 x 71 x 8	2.4
15 x 5.2 x 0.7	0.4	25 x 12.2 x 1.0	0.8	50 x 25.4 x 1.5	1.6	125 x 71 x 10	1.8
15 x 6.2 x 0.5	0.5	25 x 12.2 x 1.25	0.7	50 x 25.4 x 2.0	1.4	150 x 61 x 5	5.3
15 x 6.2 x 0.6	0.45	25 x 12.2 x 1.5	0.55	50 x 25.4 x 2.5	1.4	150 x 61 x 6	4.8
15 x 6.2 x 0.7	0.4	28 x 10.2 x 0.8	0.95	50 x 25.4 x 3.0	1.1	150 x 71 x 6	1.8
15 x 8.2 x 0.7	0.4	28 x 10.2 x 1.0	0.9	60 x 20.5 x 2	2.1	150 x 71 x 8	4.0
15 x 8.2 x 0.8	0.4	28 x 10.2 x 1.25	0.8	60 x 20.5 x 2.5	1.8	150 x 81 x 8	3.7
16 x 8.2 x 0.6	0.45	28 x 10.2 x 1.5	0.7	60 x 20.5 x 3	1.7	150 x 81 x 10	3.0
16 x 8.2 x 0.7	0.45	28 x 12.2 x 1.0	0.95	60 x 25.5 x 2.5	1.9	180 x 92 x 6	5.1
16 x 8.2 x 0.8	0.4	28 x 12.2 x 1.25	0.85	60 x 25.5 x 3	1.65	180 x 92 x 10	4.0
16 x 8.2 x 0.9	0.35	28 x 12.2 x 1.5	0.75	60 x 30.5 x 2.5	1.8	200 x 82 x 8	6.2
18 x 6.2 x 0.4	0.6	28 x 14.2 x 0.8	1.0	60 x 30.5 x 3.5	1.7	200 x 82 x 10	5.5
18 x 6.2 x 0.5	0.6	28 x 14.2 x 1.0	0.8	60 x 30.5 x 3.5	1.5	200 x 82 x 12	4.6
18 x 6.2 x 0.6	0.6	28 x 14.2 x 1.25	0.85	70 x 25.5 x 2	2.5	200 x 92 x 10	5.6
18 x 6.2 x 0.7	0.55	28 x 14.2 x 1.5	0.65	70 x 30.5 x 2.5	2.4	200 x 92 x 12	4.8
18 x 6.2 x 0.8	0.5	34 x 12.3 x 1.0	1.25	70 x 30.5 x 3	2.1	200 x 92 x 14	4.1
18 x 8.2 x 0.5	0.6	34 x 12.3 x 1.25	1.1	70 x 35.5 x 3	2.1	200 x 102 x 8	5.6
18 x 8.2 x 0.7	0.55	34 x 12.3 x 1.5	1.0	70 x 35.5 x 4	1.8	200 x 102 x 10	5.6
18 x 8.2 x 0.8	0.5	34 x 14.3 x 1.25	1.15	70 x 40.5 x 4	1.6	200 x 102 x 12	4.2
18 x 8.2 x 1.0	0.4	34 x 14.3 x 1.5	1.05	70 x 40.5 x 5	1.2	200 x 102 x 14	4.2

How to Order

Item #: 2093
 Size: 50 x 18.4 x 2.5
 Quantity: 25
 Tel: 1-888-966-MMCC

*Please note: Disc Springs may be used singly or combined to make stacked spring columns.
 Also available in Stainless Steel - **Please inquire.**