

Code: DCY

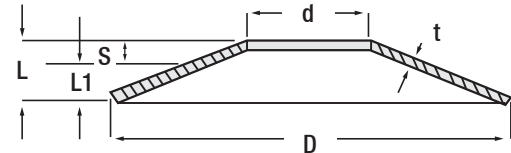
d Ø	D Ø	t mm	L mm	L1 mm	F Nw
3.2	8	0.30	0.55	0.36	104
		0.50	0.70	0.55	357
4.2		0.40	0.60	0.45	209
3.2	10	0.30	0.65	0.39	98
		0.40	0.70	0.48	179
4.2	10	0.50	0.75	0.56	294
		0.60	0.85	0.66	502
5.2	10	0.40	0.70	0.48	209
		0.50	0.75	0.56	325
4.2	12	0.40	0.80	0.50	178
		0.50	0.85	0.59	284
5.2	12	0.50	0.90	0.60	349
		0.60	0.95	0.69	506
6.2	12	0.50	0.85	0.59	326
		0.60	0.95	0.69	551
6.2	12.5	0.50	0.85	0.59	293
		0.70	1.00	0.78	659
7.2	14	0.50	0.90	0.60	279
		0.80	1.10	0.87	796
5.2	15	0.40	0.95	0.54	175
		0.60	1.05	0.71	407
6.2	15	0.50	1.00	0.63	289
		0.70	1.10	0.80	577
8.2	15	0.70	1.10	0.80	665
		0.80	1.20	0.90	982
8.2	16	0.40	0.90	0.53	154
		0.60	1.05	0.71	410
		0.90	1.25	0.99	1012
6.2	18	0.50	1.10	0.65	245
		0.70	1.25	0.84	552
8.2	18	0.80	1.30	0.92	582
		1.00	1.40	1.10	1181
9.2	18	0.70	1.20	0.83	566
		1.00	1.40	1.10	1253
8.2	20	0.60	1.30	0.77	412
		0.80	1.40	0.95	751
		1.00	1.55	1.14	1294
10.2	20	0.80	1.35	1.94	748
		1.00	1.55	1.14	1414

d Ø	D Ø	t mm	L mm	L1 mm	F Nw
8.2	23	0.80	1.55	0.99	718
		0.90	1.60	1.07	918
10.2		1.00	1.70	1.17	1315
12.2	25	0.70	1.60	0.92	599
		0.90	1.60	1.07	862
10.2	28	0.80	1.75	1.04	661
		1.00	1.90	1.23	1129
14.2	28	0.80	1.80	1.05	801
		1.00	1.80	1.20	1107
16.3	31.5	1.25	2.15	1.48	1912
		1.50	2.40	1.73	3228
12.3	34	1.25	2.35	1.53	1814
		1.50	2.50	1.75	2719
14.3	34	1.25	2.40	1.54	1988
		1.50	2.55	1.76	2982
16.3	34	1.50	2.55	1.76	3153
		2.00	2.85	2.21	5779
14.3	40	1.50	2.75	1.81	2544
		2.00	3.05	2.26	4766
16.3	40	1.50	2.80	1.83	2748
		2.00	3.10	2.28	5166
20.4	40	2.00	3.10	2.28	5698
		2.50	3.45	2.74	9384
22.4	45	1.75	3.05	2.08	3644
		2.50	3.50	2.75	7712
20.4	50	2.00	3.50	2.38	4685
		2.50	3.85	2.84	7915
25.4	50	2.00	3.40	2.35	4760
		2.50	3.90	2.85	9058
30.5	60	3.00	4.10	3.28	11970
		2.50	4.70	2.95	7293
20.5	60	3.00	5.20	3.42	11563
		3.00	4.70	3.42	13219
30.5	60	3.50	5.00	3.88	18143
		4.00	5.70	4.04	23338
40.5	70	5.00	6.40	5.30	33653
		3.00	5.30	3.58	10512
31	80	4.00	6.10	4.50	19384
		5.00	6.70	5.42	33541
41	80	3.00	5.30	3.58	10512
		5.00	6.70	5.42	33541
41	100	5.00	7.75	5.69	32344
		6.00	8.20	6.55	47995



Disc Springs
DIN 2093

Code: DCY



- d:** Inner hole diameter
- D:** Outer diameter
- t:** Thickness
- L:** Free length
- L1:** Loading length
- F max:** Flex force
- S:** Flex length stroke / motion

Disc Springs: It provides resistance to higher forces at very short working strokes. The advantage of springs with very short spring is that when the pressure is applied, it produces high power with less motion. Disc springs sometimes can be used alone and also as stacked array sets.

Tension Resistance N: 25 / + 200 50 CrV **Heat Resistance:** -15 / +150°

Disc Spring Working Strokes: Applied forces (F / N) should be designed according to the working strokes. Specifying the working strokes should be according to the hole thickness (t) internal wall. L: 0.25 (1/4) or 0.50 (1/2) of free length.

In addition, with motion up to 0.75 (3/4), different forces (F/N) per each stroke value may be applied.

$F=N / S = \text{mm} / \text{stroke}$

Disc Spring Array (load application) / 1 Newton : 0.102 Kg.

1 x F, 4 x S

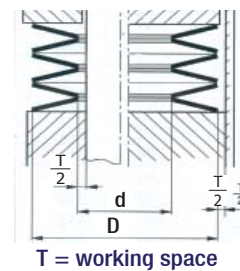
1 F (force / N) in application 0.25 4 times S (stroke)
Light Duty

2 x F, 4 x S

2 F (force / N) in application 0.50 4 times S (stroke)
Heavy Duty

3 x F, 1 x S

3 F (force / N) in application 0.75 4 times S (stroke)
Extra Heavy Duty



Fixing Disc Spring with Shaft

D	T
> 8 - 16	0.2 mm
> 16 - 20	0.3 mm
> 20 - 26	0.4 mm
> 26 - 34	0.5 mm
> 34 - 50	0.6 mm
> 50 - 100	0.8 mm

Order:
DCY. d x D x t