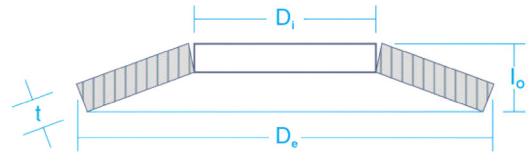


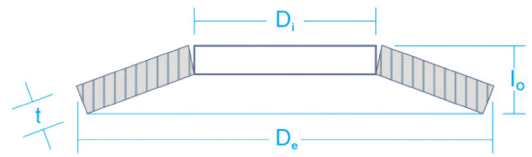


## Disc Springs Dimension:

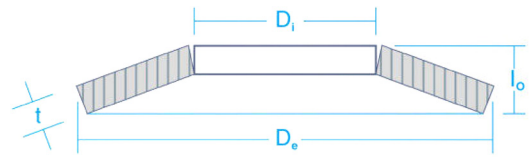
We supply disc springs washer according to DIN 2093.  
Following are our standard size range.



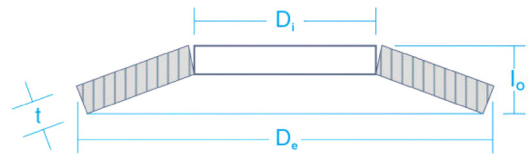
Item code	De	Di	t	h	lo	Deflection S=0.75h	Force N
HVDS060303	6.00	3.20	0.30	0.15	0.45	0.11	119
HVDS080302	8.00	3.20	0.20	0.20	0.40	0.15	26
HVDS080303	8.00	3.20	0.30	0.25	0.55	0.19	104
HVDS080304	8.00	3.20	0.40	0.20	0.60	0.15	186
HVDS080305	8.00	3.20	0.50	0.20	0.70	0.15	357
HVDS080402	8.00	4.20	0.20	0.25	0.45	0.19	39
HVDS080403	8.00	4.20	0.30	0.25	0.55	0.19	118
HVDS080404	8.00	4.20	0.40	0.20	0.60	0.15	210
HVDS100303	10.00	3.20	0.30	0.35	0.65	0.26	98
HVDS100304	10.00	3.20	0.40	0.30	0.70	0.23	179
HVDS100305	10.00	3.20	0.50	0.25	0.75	0.19	279
HVDS100404	10.00	4.20	0.40	0.30	0.70	0.23	189
HVDS100404	10.00	4.20	0.50	0.25	0.75	0.19	294
HVDS100406	10.00	4.20	0.60	0.25	0.85	0.19	502
HVDS100502	10.00	5.20	0.25	0.30	0.55	0.23	58
HVDS100504	10.00	5.20	0.40	0.30	0.70	0.23	209
HVDS100505	10.00	5.20	0.50	0.25	0.75	0.19	325
HVDS120404	12.00	4.20	0.40	0.40	0.80	0.30	178
HVDS120405	12.00	4.20	0.50	0.35	0.85	0.26	284
HVDS120406	12.00	4.20	0.60	0.40	1.00	0.30	557
HVDS120505	12.00	5.20	0.50	0.40	0.90	0.30	350
HVDS120506	12.00	5.20	0.60	0.35	0.95	0.26	506
HVDS120605	12.00	6.20	0.50	0.35	0.85	0.26	326
HVDS120606	12.00	6.20	0.60	0.35	0.95	0.26	552
HVDS130505	12.50	5.20	0.50	0.35	0.85	0.26	272
HVDS130603	12.50	6.20	0.35	0.45	0.80	0.34	151
HVDS130605	12.50	6.20	0.50	0.35	0.85	0.26	293
HVDS130607	12.50	6.20	0.70	0.30	1.00	0.26	660
HVDS140703	14.00	7.20	0.35	0.45	0.80	0.34	123
HVDS140705	14.00	7.20	0.50	0.40	0.90	0.30	279
HVDS140708	14.00	7.20	0.80	0.30	1.10	0.23	797
HVDS150504	15.00	5.20	0.40	0.55	0.95	0.41	176
HVDS150505	15.00	5.20	0.50	0.50	1.00	0.38	278
HVDS150506	15.00	5.20	0.60	0.45	1.05	0.34	407
HVDS150507	15.00	5.20	0.70	0.40	1.10	0.30	555
HVDS150605	15.00	6.20	0.50	0.50	1.00	0.38	289
HVDS150606	15.00	6.20	0.60	0.45	1.05	0.34	424
HVDS150607	15.00	6.20	0.70	0.40	1.10	0.30	578
HVDS150807	15.00	8.20	0.70	0.40	1.10	0.38	666
HVDS150808	15.00	8.20	0.80	0.40	1.20	0.30	982



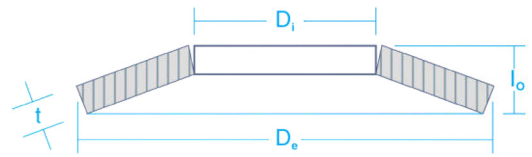
Item code	De	Di	t	h	lo	Deflection S=0.75h	Force N
HVDS160804	16.00	8.20	0.40	0.55	0.90	0.38	154
HVDS160806	16.00	8.20	0.60	0.45	1.05	0.34	410
HVDS160807	16.00	8.20	0.70	0.45	1.15	0.34	637
HVDS160808	16.00	8.20	0.80	0.40	1.20	0.30	825
HVDS160809	16.00	8.20	0.90	0.35	1.25	0.26	1013
HVDS180604	18.00	6.20	0.40	0.60	1.00	0.45	139
HVDS180605	18.00	6.20	0.50	0.60	1.10	0.50	245
HVDS180606	18.00	6.20	0.60	0.60	1.20	0.45	400
HVDS180607	18.00	6.20	0.70	0.55	1.25	0.41	553
HVDS180608	18.00	6.20	0.80	0.50	1.30	0.38	726
HVDS180805	18.00	8.20	0.50	0.60	1.10	0.45	265
HVDS180807	18.00	8.20	0.70	0.55	1.25	0.41	596
HVDS180808	18.00	8.20	0.80	0.50	1.30	0.38	783
HVDS180810	18.00	8.20	1.00	0.40	1.40	0.30	1181
HVDS180904	18.00	9.20	0.45	0.60	1.05	0.45	214
HVDS180907	18.00	9.20	0.70	0.50	1.20	0.38	566
HVDS180910	18.00	9.20	1.00	0.40	1.40	0.30	1254
HVDS200806	20.00	8.20	0.60	0.70	1.30	0.53	412
HVDS200807	20.00	8.20	0.70	0.65	1.35	0.49	569
HVDS200808	20.00	8.20	0.80	0.60	1.40	0.45	751
HVDS200809	20.00	8.20	0.90	0.55	1.45	0.41	954
HVDS200810	20.00	8.20	1.00	0.55	1.55	0.41	1294
HVDS201005	20.00	10.20	0.50	0.65	1.15	0.49	254
HVDS201008	20.00	10.20	0.80	0.55	1.35	0.41	748
HVDS201009	20.00	10.20	0.90	0.55	1.45	0.41	1050
HVDS201010	20.00	10.20	1.00	0.55	1.55	0.41	1425
HVDS201011	20.00	10.20	1.10	0.45	1.55	0.34	1521
HVDS201012	20.00	10.20	1.20	0.35	1.55	0.38	2477
HVDS201015	20.00	10.20	1.50	0.30	1.80	0.23	2521
HVDS221106	22.50	11.20	0.60	0.80	1.40	0.60	425
HVDS221108	22.50	11.20	0.80	0.65	1.45	0.49	707
HVDS221112	22.50	11.20	1.00	0.65	1.65	0.49	1335
HVDS221112	22.50	11.20	1.25	0.50	1.75	0.38	1929
HVDS230807	23.00	8.20	0.70	0.80	1.50	0.60	544
HVDS230808	23.00	8.20	0.80	0.75	1.55	0.50	6719
HVDS230809	23.00	8.20	0.90	0.70	1.60	0.53	919
HVDS230810	23.00	8.20	1.00	0.70	1.70	0.53	1240
HVDS231009	23.00	10.20	0.90	0.75	1.65	0.56	1058
HVDS231010	23.00	10.20	1.00	0.70	1.70	0.53	1315
HVDS231012	23.00	10.20	1.25	0.65	1.90	0.49	2310
HVDS231210	23.00	12.20	1.00	0.60	1.60	0.45	1217
HVDS231212	23.00	12.20	1.25	0.60	1.85	0.45	2331
HVDS231215	23.00	12.20	1.50	0.60	2.10	0.38	3297



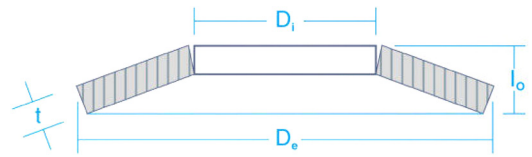
Item code	De	Di	t	h	lo	Deflection S=0.75h	Force N
HVDS251207	25.00	12.20	0.70	0.90	1.60	0.68	600
HVDS251209	25.00	12.20	0.90	0.70	1.60	0.53	862
HVDS251210	25.00	12.20	1.00	0.80	1.80	0.60	1359
HVDS251212	25.00	12.20	1.25	0.70	1.95	0.53	2214
HVDS251215	25.00	12.20	1.50	0.55	2.05	0.41	2926
HVDS281008	28.00	10.20	0.80	0.95	1.75	0.71	662
HVDS281010	28.00	10.20	1.00	0.90	1.90	0.68	1130
HVDS281012	28.00	10.20	1.25	0.80	2.05	0.60	1853
HVDS281015	28.00	10.20	1.50	0.70	2.20	0.56	2723
HVDS281210	28.00	12.20	1.00	0.95	1.95	0.71	1268
HVDS281212	28.00	12.20	1.25	0.85	2.10	0.64	2083
HVDS281215	28.00	12.20	1.50	0.75	2.25	0.56	3077
HVDS281408	28.00	14.20	0.80	1.00	1.80	0.75	801
HVDS281410	28.00	14.20	1.00	0.80	1.80	0.60	1107
HVDS281412	28.00	14.20	1.25	0.85	2.10	0.64	2240
HVDS281415	28.00	14.20	1.50	0.65	2.15	0.49	2841
HVDS311608	31.50	16.30	0.80	1.05	1.85	0.70	687
HVDS311612	31.50	16.30	1.25	0.90	2.15	0.68	1913
HVDS311615	31.50	16.30	1.50	0.90	2.40	0.68	3230
HVDS311617	31.50	16.30	1.75	0.70	2.45	0.53	3871
HVDS311620	31.50	16.30	2.00	0.75	2.75	0.56	6173
HVDS341412	34.00	14.30	1.25	1.15	2.40	0.86	1989
HVDS341415	34.00	14.20	1.50	1.05	2.55	0.79	2984
HVDS341615	34.00	16.30	1.50	1.05	2.55	0.79	3155
HVDS341620	34.00	16.30	2.00	0.85	2.85	0.64	5783
HVDS351809	35.50	18.30	0.90	1.15	2.05	0.86	832
HVDS351812	35.50	18.30	1.25	1.00	2.25	0.75	1699
HVDS351820	35.50	18.30	2.00	0.85	2.85	0.60	5187
HVDS401412	40.00	14.30	1.25	1.40	2.65	1.05	1778
HVDS401415	40.00	14.30	1.50	1.25	2.75	0.94	2542
HVDS401420	40.00	14.30	2.00	1.05	3.05	0.79	4763
HVDS401615	40.00	16.30	1.50	1.30	2.80	0.79	2140
HVDS401620	40.00	16.30	2.00	1.10	3.10	0.83	5169
HVDS401820	40.00	18.30	2.00	1.15	3.15	0.98	5656
HVDS402010	40.00	20.40	1.00	1.30	2.30	0.98	1017
HVDS402015	40.00	20.40	1.50	1.15	2.65	0.86	2621
HVDS402020	40.00	20.40	2.00	1.10	3.10	0.83	5701
HVDS402022	40.00	20.40	2.25	0.90	3.15	0.68	6500
HVDS402025	40.00	20.40	2.50	0.95	3.45	0.71	9390
HVDS452212	45.00	22.40	1.25	1.60	2.85	1.20	1891
HVDS452217	45.00	22.40	1.75	1.30	3.05	0.98	3646
HVDS452225	45.00	22.40	2.50	1.00	3.50	0.75	7716



Item code	De	Di	t	h	lo	Deflection S=0.75h	Force N
HVDS501812	50.00	18.30	1.25	1.60	2.85	1.20	1373
HVDS501815	50.00	18.30	1.50	1.80	3.30	1.35	2603
HVDS501820	50.00	18.30	2.00	1.50	3.50	1.13	4567
HVDS501825	50.00	18.30	2.50	1.35	3.85	1.20	9305
HVDS501830	50.00	18.30	3.00	1.00	4.00	1.05	13763
HVDS502020	50.00	20.40	2.00	1.50	3.50	1.13	4687
HVDS502025	50.00	20.40	2.50	1.35	3.85	1.01	7919
HVDS502220	50.00	22.40	2.00	1.60	3.60	1.20	5222
HVDS502225	50.00	22.40	2.50	1.40	3.90	1.05	8510
HVDS502512	50.00	25.40	1.25	1.60	2.85	1.20	1550
HVDS502515	50.00	25.40	1.50	1.60	3.10	1.20	2512
HVDS502520	50.00	25.40	2.00	1.40	3.40	1.05	4762
HVDS502522	50.00	25.40	2.25	1.50	3.75	1.13	7271
HVDS502525	50.00	25.40	2.50	1.40	3.90	1.05	9063
HVDS502530	50.00	25.40	3.00	1.10	4.10	0.83	11976
HVDS562815	56.00	28.50	1.50	1.95	3.45	1.46	2622
HVDS562820	56.00	28.50	2.00	1.60	3.60	1.20	4438
HVDS56825	56.00	28.50	2.50	1.70	4.20	1.28	8978
HVDS562830	56.00	28.50	3.00	1.30	4.30	0.98	11388
HVDS602020	60.00	20.40	2.00	2.10	4.10	1.58	4727
HVDS602025	60.00	20.40	2.50	1.80	4.30	1.35	7297
HVDS602030	60.00	20.40	3.00	1.70	4.70	1.26	11569
HVDS602525	60.00	25.50	2.50	1.90	4.40	1.43	8164
HVDS602530	60.00	25.50	3.00	1.65	4.65	1.24	11768
HVDS603025	60.00	30.50	2.50	2.00	4.50	1.35	8432
HVDS603027	60.00	30.50	2.75	2.00	4.75	1.50	12356
HVDS603030	60.00	30.50	3.00	1.70	4.70	1.28	13226
HVDS603035	60.00	30.50	3.50	1.50	5.00	1.13	18153
HVDS633118	63.00	31.00	1.80	2.35	4.15	1.76	4238
HVDS633125	63.00	31.00	2.50	1.75	4.25	1.31	7189
HVDS633130	63.00	31.00	3.00	1.80	4.80	1.35	12536
HVDS633135	63.00	31.00	3.50	1.40	4.90	1.05	15025
HVDS702520	70.00	25.50	2.00	2.50	4.50	1.88	4437
HVDS703025	70.00	30.50	2.50	2.40	4.90	1.80	8031
HVDS703030	70.00	30.50	3.00	2.10	5.10	1.58	11426
HVDS703530	70.00	35.50	3.00	2.10	5.10	1.58	12287
HVDS703540	70.00	35.50	4.00	1.80	5.90	1.35	23923
HVDS704040	70.00	40.50	4.00	1.60	5.60	1.20	23351
HVDS704050	70.00	40.50	5.00	1.20	6.20	0.90	33672
HVDS713620	71.00	36.00	2.00	2.60	4.60	1.95	5144
HVDS713625	71.00	36.00	2.60	2.00	4.50	1.50	6725
HVDS713640	71.00	36.00	4.00	1.60	5.60	1.20	20355



Item code	De	Di	t	h	lo	Deflection S=0.75h	Force N
HVDS803125	80.00	31.00	2.50	2.80	5.40	2.10	7239
HVDS803130	80.00	31.00	3.00	2.50	5.50	1.88	10352
HVDS803140	80.00	31.00	4.00	2.10	6.10	1.58	19394
HVDS803630	80.00	36.00	3.00	2.70	5.80	2.03	11919
HVDS806340	80.00	36.00	4.00	2.20	6.20	1.65	21400
HVDS804122	80.00	41.00	2.25	2.95	5.20	2.21	6613
HVDS804130	80.00	41.00	3.00	2.30	5.30	1.73	10518
HVDS804140	80.00	41.00	4.00	2.20	6.20	1.65	22874
HVDS804150	80.00	41.00	5.00	1.70	6.70	2.40	7684
HVDS904625	90.00	46.00	2.50	3.20	5.70	2.40	7684
HVDS904635	90.00	46.00	3.50	2.50	6.00	1.88	14161
HVDS904650	90.00	46.00	5.00	2.00	7.00	1.50	31354
HVDS1004140	100.00	41.00	4.00	3.20	7.20	2.40	20251
HVDS1004150	100.00	41.00	5.00	2.75	7.75	2.06	32361
HVDS1005127	100.00	51.00	2.70	3.50	6.20	2.63	8609
HVDS1005135	100.00	51.00	3.50	2.80	6.30	2.10	13070
HVDS1005140	100.00	51.00	4.00	3.00	7.00	2.25	20674
HVDS1005150	100.00	51.00	5.00	2.80	7.80	2.10	36339
HVDS1005160	100.00	51.00	6.00	2.20	8.20	1.65	48022
HVDS1125730	112.00	57.00	3.00	3.90	6.90	2.93	10489
HVDS1125740	112.00	57.00	4.00	3.20	7.20	2.40	17752
HVDS1125760	112.00	57.00	6.00	2.50	8.50	1.88	43707
HVDS1254140	125.00	41.00	4.00	4.20	8.20	3.15	17346
HVDS1255140	125.00	51.00	4.00	4.50	8.50	3.38	19847
HVDS1255150	125.00	51.00	5.00	3.90	8.90	2.93	30669
HVDS1255160	125.00	51.00	6.00	3.40	9.40	2.55	44307
HVDS1256150	125.00	61.00	5.00	4.00	9.00	3.00	33965
HVDS1256160	125.00	61.00	6.00	3.60	9.60	2.70	50722
HVDS1256180	125.00	61.00	8.00	2.90	10.90	2.18	93577
HVDS1256435	125.00	64.00	3.50	4.50	8.00	3.38	15416
HVDS1256450	125.00	64.00	5.00	3.50	8.50	2.63	29808
HVDS1256460	125.00	64.00	6.00	3.60	9.60	2.70	52155
HVDS1256470	125.00	64.00	7.00	3.00	10.00	2.25	67216
HVDS1256480	125.00	64.00	8.00	2.60	10.60	1.95	85926
HVDS1257160	125.00	71.00	6.00	3.30	9.30	2.48	5127
HVDS1257180	125.00	71.00	8.00	2.40	10.40	1.88	5494
HVDS1257110	125.00	71.00	10.00	1.80	11.80	1.35	<b>124124</b>
HVDS1407238	140.00	72.00	3.80	4.90	8.70	3.68	<b>17195</b>
HVDS1407250	140.00	72.00	5.00	4.00	9.00	3.00	27920
HVDS1407280	140.00	72.00	8.00	3.20	11.20	2.40	<b>85251</b>



Item code	De	Di	t	h	lo	Deflection S=0.75h	Force N
HVDS1506150	150.00	61.00	5.00	5.30	10.30	3.98	31041
HVDS1506160	150.00	61.00	6.00	4.80	10.80	3.60	45456
HVDS1507160	150.00	71.00	6.00	4.80	10.80	3.64	8155
HVDS1507180	150.00	71.00	8.00	4.00	12.00	3.00	89851
HVDS1508180	150.00	81.00	8.00	3.70	11.70	2.78	89352
HVDS1508110	150.00	81.00	10.00	3.00	13.00	2.25	139128
HVDS1608243	160.00	82.00	4.30	5.60	9.90	4.20	21843
HVDS1608260	160.00	82.00	6.00	4.50	10.50	3.38	41008
HVDS1608210	160.00	82.00	10.00	3.50	13.50	2.63	138331
HVDS1809248	180.00	92.00	4.80	6.20	11.00	4.65	26442
HVDS1829260	180.00	92.00	6.00	5.10	11.10	3.83	41008
HVDS1809210	180.00	92.00	10.00	4.00	14.00	3.00	125417
HVSS1809213	180.00	92.00	13.00	3.50	16.50	2.63	237883
HVDS2008280	200.00	82.00	8.00	6.20	14.20	4.65	78034
HVDS2008210	200.00	82.00	10.00	5.50	15.50	4.13	124995
HVDS2008212	200.00	82.00	12.00	4.60	16.60	3.45	182737
HVDS2009210	200.00	92.00	10.00	5.60	15.60	4.20	137688
HVDS2009212	200.00	92.00	12.00	4.80	16.80	3.60	199269
HVDS2009214	200.00	92.00	14.00	4.10	18.10	3.08	267227
HVDS20010255	200.00	102.00	5.50	7.00	12.50	5.25	36111
HVDS20010280	200.00	102.00	8.00	5.60	13.60	4.20	76378
HVDS20010210	200.00	102.00	10.00	5.60	15.60	4.20	145357
HVDS20010212	200.00	102.00	12.00	4.20	16.20	3.15	183020
HVDS20010214	200.00	102.00	14.00	4.20	18.20	3.15	289181
HVDS20011212	200.00	112.00	12.00	4.20	16.20	3.15	195830
HVDS20011214	200.00	112.00	14.00	3.50	17.50	2.63	256758
HVDS20011216	200.00	112.00	16.00	2.80	18.80	2.10	305100
HVDS22511265	225.00	112.00	6.50	6.20	12.7	4.88	39775
HVDS22511280	225.00	112.00	8.00	7.50	15.50	4.88	70749
HVDS22511212	225.00	112.00	12.00	11.30	17.00	3.75	171016
HVDS22511216	225.00	112.00	16.00	15.00	20.50		
HVDS25010210	250.00	102.00	10.00	9.60	18.00	6.00	126387
HVDS25010212	250.00	102.00	12.00	11.50	19.00	5.25	182962
HVDS25012770	250.00	127.00	7.00	6.70	14.80	5.85	
HVDS25012710	250.00	127.00	10.00	9.40	17.00	5.25	104004
HVDS25012712	250.00	127.00	12.00	11.30	19.30	5.48	210806
HVDS25012714	250.00	127.00	14.00	13.10	19.60	4.20	248828
HVDS25012716	250.00	127.00	16.00	15.00	21.80	4.35	383017