







Disc Springs to DIN 2093

Disc Springs to DIN 2093								15% Defl.		30% Defl.		45% Defl.		60% Defl.		75% Defl.		90% Defl.	
																			
								Defl. mm	Force N	Defl. mm	Force N	Defl. mm	Force N	Defl. mm	Force N	Defl. mm	Force N	Defl. mm	Force N
Code No.	Outer Dia. (De) mm	Inner Dia. (Di) mm	Thick. (t) mm	Cone Ht. (ho) mm	Overall Ht. (lo) mm	Cone Ht. Thick. Ratio	Weight per 1000 pcs.	Stress		Stress		Stress		Stress		Stress			
								δII	δIII	δII	δIII	δII	δIII	δII	δIII	δII	δIII	δII	δIII
								N/mm ²		N/mm ²		N/mm ²		N/mm ²		N/mm ²			
D602043	60.0	20.4	3.00	1.70	4.70	.57	59	.26	2,760	.51	5,248	.77	7,515	1.02	9,605	1.28	11,569	1.53	13,453
								239	231	508	448	806	651	1,133	839	1,490	1,013	1,876	1,173
D6025425	60.0	25.4	2.50	1.90	4.40	.76	46	.29	2,178	.57	4,025	.86	5,599	1.14	6,959	1.43	8,164	1.71	9,271
								144	277	323	533	538	770	788	987	1,074	1,184	1,395	1,361
D602543	60.0	25.4	3.00	1.65	4.65	.55	55	.25	2,782	.50	5,304	.74	7,611	.99	9,751	1.24	11,768	1.49	13,709
								213	253	452	491	719	713	1,012	921	1,332	1,114	1,678	1,291
D6030525	60.0	30.5	2.50	1.80	4.30	.72	41	.27	2,172	.54	4,039	.81	5,653	1.08	7,070	1.35	8,342	1.62	9,524
								138	298	308	576	510	833	745	1,070	1,012	1,285	1,311	1,481
D60305275	60.0	30.5	2.75	2.00	4.75	.73	45	.30	3,232	.60	6,002	.90	8,391	1.20	10,482	1.50	12,356	1.80	14,093
								166	366	372	707	617	1,022	903	1,312	1,228	1,576	1,594	1,815
D603053	60.0	30.5	3.00	1.70	4.70	.57	49	.26	3,155	.51	6,000	.77	8,591	1.02	10,981	1.28	13,226	1.53	15,380
								204	307	437	596	699	867	990	1,119	1,309	1,353	1,658	1,569
D6030535	60.0	30.5	3.50	1.50	5.00	.43	58	.23	4,039	.45	7,830	.68	11,417	.90	14,843	1.13	18,153	1.35	21,389
								255	288	532	562	832	821	1,154	1,066	1,499	1,297	1,866	1,514
D633118	63.0	31.0	1.80	2.35	4.15	1.31	33	.35	1,566	.71	2,697	1.06	3,467	1.41	3,955	1.76	4,238	2.12	4,393
								-19	332	12	633	92	903	222	1,142	402	1,351	631	1,528
D633125	63.0	31.0	2.50	1.75	4.25	.70	46	.26	1,850	.53	3,450	.79	4,843	1.05	6,075	1.31	7,189	1.58	8,229
								127	252	282	487	464	704	674	905	912	1,088	1,176	1,254
D63313	63.0	31.0	3.00	1.80	4.80	.60	56	.27	3,046	.54	5,764	.81	8,214	1.08	10,452	1.35	12,536	1.62	14,525
								187	292	403	566	648	822	923	1,060	1,226	1,280	1,559	1,481
D633135	63.0	31.0	3.50	1.40	4.90	.40	65	.21	3,301	.42	6,422	.63	9,395	.84	12,253	1.05	15,025	1.26	17,746
								224	231	466	452	725	661	1,002	860	1,296	1,047	1,608	1,224
D702552	70.0	25.5	2.00	2.50	4.50	1.25	52	.38	1,590	.75	2,753	1.13	3,565	1.50	4,101	1.88	4,437	2.25	4,647
								10	252	67	480	169	685	318	866	512	1,024	753	1,159
D7030525	70.0	30.5	2.50	2.40	4.90	.96	61	.36	2,421	.72	4,348	1.08	5,866	1.44	7,065	1.80	8,031	2.16	8,851
								78	293	198	562	359	807	562	1,028	806	1,225	1,092	1,399
D703053	70.0	30.5	3.00	2.10	5.10	.70	73	.32	2,941	.63	5,483	.95	7,698	1.26	9,656	1.58	11,426	1.89	13,080
								155	266	342	513	560	742	810	953	1,093	1,145	1,407	1,320
D703553	70.0	35.5	3.00	2.10	5.10	.70	67	.32	3,162	.63	5,897	.95	8,278	1.26	10,384	1.58	12,287	1.89	14,065
								147	302	327	584	539	846	784	1,087	1,060	1,307	1,369	1,507
D703554	70.0	35.5	4.00	1.80	5.80	.45	90	.27	5,376	.54	10,393	.81	15,115	1.08	19,604	1.35	23,923	1.62	28,137
								250	294	523	573	821	837	1,142	1,085	1,486	1,319	1,855	1,537
D704054	70.0	40.5	4.00	1.60	5.60	.40	80	.24	5,130	.48	9,980	.72	14,601	.96	19,042	1.20	23,351	1.44	27,579
								240	294	500	574	780	841	1,079	1,094	1,399	1,333	1,737	1,558
D704055	70.0	40.5	5.00	1.20	6.20	.24	100	.18	6,977	.36	13,806	.54	20,515	.72	27,128	.90	33,672	1.08	40,173
								271	244	553	480	846	709	1,150	929	1,465	1,142	1,792	1,348
D71362	71.0	36.0	2.00	2.60	4.60	1.30	46	.39	1,895	.78	3,265	1.17	4,201	1.56	4,796	1.95	5,144	2.34	5,337
								-19	330	11	629	88	897	214	1,135	388	1,342	610	1,519
D713625	71.0	36.0	2.50	2.00	4.50	.80	58	.30	1,838	.60	3,377	.90	4,669	1.20	5,768	1.50	6,725	1.80	7,595
								92	247	212	476	361	687	538	880	744	1,055	978	1,212
D71364	71.0	36.0	4.00	1.60	5.60	.40	92	.24	4,511	.48	8,776	.72	12,840	.96	16,745	1.20	20,535	1.44	24,252
								230	245	478	478	744	700	1,029	911	1,332	1,109	1,653	1,296
D803125	80.0	31.0	2.50	2.80	5.30	1.12	84	.42	2,404	.84	4,228	1.26	5,573	1.68	6,543	2.10	7,239	2.52	7,764
								39	263	121	502	247	718	417	911	631	1,081	888	1,227
D80313	80.0	31.0	3.00	2.50	5.50	.83	101	.38	2,887	.75	5,279	1.13	7,261	1.50	8,923	1.88	10,352	2.25	11,634
								115	242	266	466	451	671	671	857	926	1,025	1,215	1,175
D80314	80.0	31.0	4.00	2.10	6.10	.53	134	.32	4,525	.63	8,657	.95	12,467	1.26	16,023	1.58	19,394	1.89	22,651
								218	224	461	435	729	632	1,021	817	1,338	989	1,679	1,147
D80363	80.0	36.0	3.00	2.70	5.70	.90	94	.41	3,464	.81	6,271	1.22	8,540	1.62	10,383	2.03	11,919	2.43	13,261
								95	300	231	577	407	830	623	1,060	879	1,265	1,176	1,448
D80364	80.0	36.0	4.00	2.20	6.20	.55	126	.33	5,059	.66	9,645	.99	13,841	1.32	17,732	1.65	21,400	1.98	24,929
								208	265	444	514	705	747	994	965	1,310	1,167	1,652	1,353