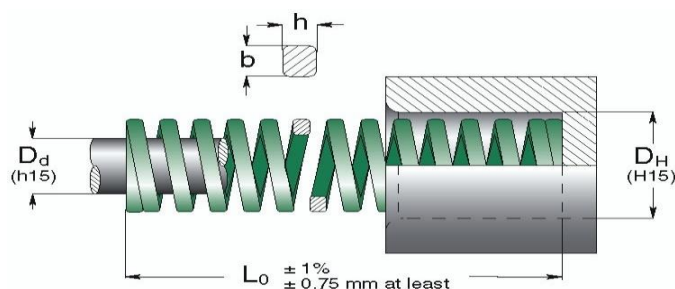


輕荷重彈簧 V 系列

Light Load
Springs

ISO 10243

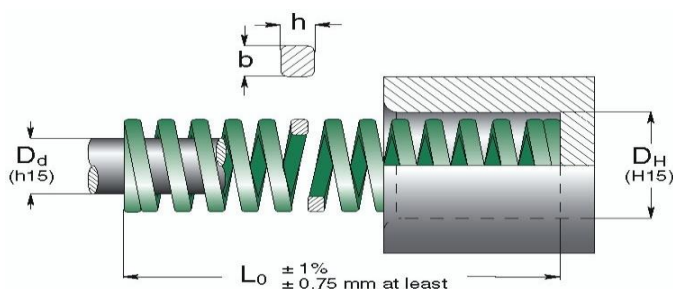


模孔徑	螺栓徑	彈 簧 編 號	自由長	常數	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 35% L ₀		壓縮 40% L ₀		密實長
D _H	D _d		L ₀	R									 (不建議 使用)
mm	mm		mm	N/mm	mm	N	mm	N	mm	N	mm	N	
b x h				± 10%									
10	5	V 10 x 25	25	10.0	6.3	63	7.5	75	8.8	88	10.0	100	13.5
		V 10 x 32	32	8.5	8.0	68	9.6	82	11.2	95	12.8	109	17.5
		V 10 x 38	38	6.8	9.5	65	11.4	78	13.3	90	15.2	103	20.8
		V 10 x 45	44	6.0	11.0	66	13.2	79	15.4	92	17.6	106	23.9
		V 10 x 50	51	5.0	12.8	64	15.3	77	17.9	89	20.4	102	28.9
		V 10 x 65	64	4.3	16.0	69	19.2	83	22.4	96	25.6	110	36.1
		V 10 x 75	76	3.2	19.0	61	22.8	73	26.6	85	30.4	97	43.2
1.7 x 1.1		V 10 x 300	305	1.1	76.3	84	91.5	101	107	117	122	134	178
12.5	6.3	V 13 x 25	25	17.9	6.3	113	7.5	134	8.8	157	10.0	179	13.2
		V 13 x 32	32	16.4	8.0	131	9.6	157	11.2	184	12.8	210	18.0
		V 13 x 38	38	13.6	9.5	129	11.4	155	13.3	181	15.2	207	21.0
		V 13 x 45	44	12.1	11.0	133	13.2	160	15.4	186	17.6	213	24.0
		V 13 x 50	51	11.4	12.8	146	15.3	174	17.9	203	20.4	233	28.7
		V 13 x 65	64	9.3	16.0	149	19.2	179	22.4	208	25.6	238	35.8
		V 13 x 75	76	7.1	19.0	135	22.8	162	26.6	189	30.4	216	42.7
2.4 x 1.4		V 13 x 300	305	1.4	76.3	107	91.5	128	107	149	122	171	172
16	8	V 16 x 25	25	23.4	6.3	147	7.5	176	8.8	205	10.0	234	12.6
		V 16 x 32	32	22.9	8.0	183	9.6	220	11.2	256	12.8	293	16.4
		V 16 x 38	38	19.3	9.5	183	11.4	220	13.3	257	15.2	293	19.7
		V 16 x 45	44	17.1	11.0	188	13.2	226	15.4	263	17.6	301	22.5
		V 16 x 50	51	15.7	12.8	201	15.3	240	17.9	280	20.4	320	26.3
		V 16 x 65	64	10.7	16.0	171	19.2	205	22.4	240	25.6	274	33.3
		V 16 x 75	76	10.0	19.0	190	22.8	228	26.6	266	30.4	304	40.2
		V 16 x 90	89	8.6	22.3	192	26.7	230	31.2	268	35.6	306	47.6
		V 16 x 100	102	7.8	25.5	199	30.6	239	35.7	278	40.8	318	55.4
3.2 x 1.5		V 16 x 300	305	2.5	76.3	191	91.5	229	107	267	122	305	165
20	10	V 19 x 25	25	55.8	6.3	352	7.5	419	8.8	488	10.0	558	12.1
		V 19 x 32	32	45.0	8.0	360	9.6	432	11.2	504	12.8	576	15.3
		V 19 x 38	38	33.3	9.5	316	11.4	380	13.3	443	15.2	506	18.9
		V 19 x 45	44	30.0	11.0	330	13.2	396	15.4	462	17.6	528	21.5
		V 19 x 50	51	24.5	12.8	314	15.3	375	17.9	437	20.4	500	25.0
		V 19 x 65	64	20.0	16.0	320	19.2	384	22.4	448	25.6	512	31.1
4.0 x 2.1		V 19 x 75	76	16.0	19.0	304	22.8	365	26.6	426	30.4	486	37.3

輕荷重彈簧 V 系列

Light Load
Springs

ISO 10243

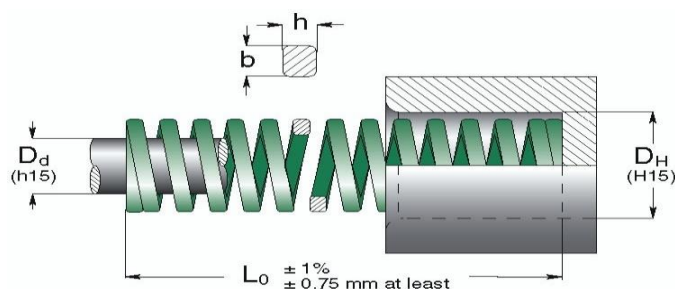


模孔徑 D _H mm	螺栓徑 D _d mm	彈 簧 編 號	自由長 L ₀ mm	常數 R N/mm ± 10%	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 35% L ₀		壓縮 40% L ₀		密實長  (不建議 使用)
					mm	N	mm	N	mm	N	mm	N	
b x h													
20	10	V 19 x 90	89	14.0	22.3	312	26.7	374	31.2	436	35.6	498	44.5
		V 19 x 100	102	12.0	25.5	306	30.6	367	35.7	428	40.8	490	51.1
		V 19 x 115	115	10.9	28.8	314	34.5	376	40.3	439	46.0	501	58.2
		V 19 x 125	127	9.5	31.8	302	38.1	362	44.5	422	50.8	483	64.9
		V 19 x 150	152	7.5	38.0	285	45.6	342	53.2	399	60.8	456	78.8
4.0 x 2.1		V 19 x 300	305	4.0	76.3	305	91.5	366	107	427	122	488	157
25	12.5	V 26 x 25	25	100	6.3	630	7.5	750	8.8	875	10.0	1000	11.9
		V 26 x 32	32	80.3	8.0	642	9.6	771	11.2	899	12.8	1028	16.0
		V 26 x 38	38	62.0	9.5	589	11.4	707	13.3	825	15.2	942	18.3
		V 26 x 45	44	52.9	11.0	582	13.2	698	15.4	815	17.6	931	21.4
		V 26 x 50	51	44.0	12.8	562	15.3	673	17.9	785	20.4	898	24.9
		V 26 x 65	64	35.2	16.0	563	19.2	676	22.4	788	25.6	901	31.4
		V 26 x 75	76	28.0	19.0	532	22.8	638	26.6	745	30.4	851	37.5
		V 26 x 90	89	24.0	22.3	535	26.7	641	31.2	748	35.6	854	43.5
		V 26 x 100	102	21.1	25.5	538	30.6	646	35.7	753	40.8	861	51.1
		V 26 x 115	115	18.7	28.8	539	34.5	645	40.3	753	46.0	860	58.1
		V 26 x 125	127	16.7	31.8	531	38.1	636	44.5	742	50.8	848	64.1
		V 26 x 150	152	14.0	38.0	532	45.6	638	53.2	745	60.8	851	77.1
		V 26 x 175	178	12.5	44.5	556	53.4	668	62.3	779	71.2	890	93.1
5.4 x 2.7		V 26 x 200	203	10.4	50.8	528	60.9	633	71.1	739	81.2	844	103
		V 26 x 300	305	7.0	76.3	534	91.5	641	107	747	122	854	156
32	16	V 32 x 38	38	94	9.5	893	11.4	1072	13.3	1250	15.2	1429	18.3
		V 32 x 45	44	79.5	11.0	875	13.2	1049	15.4	1224	17.6	1399	21.5
		V 32 x 50	51	67.0	12.8	858	15.3	1025	17.9	1196	20.4	1367	25.5
		V 32 x 65	64	53.0	16.0	848	19.2	1018	22.4	1187	25.6	1357	31.9
		V 32 x 75	76	44.0	19.0	836	22.8	1003	26.6	1170	30.4	1338	38.6
		V 32 x 90	89	37.2	22.3	830	26.7	993	31.2	1159	35.6	1324	46.5
		V 32 x 100	102	32.0	25.5	816	30.6	979	35.7	1142	40.8	1306	53.2
		V 32 x 115	115	29.0	28.8	835	34.5	1001	40.3	1167	46.0	1334	60.0
		V 32 x 125	127	25.0	31.8	795	38.1	953	44.5	1111	50.8	1270	66.7
		V 32 x 150	152	21.5	38.0	817	45.6	980	53.2	1144	60.8	1307	78.5
		V 32 x 175	178	18.2	44.5	810	53.4	972	62.3	1134	71.2	1296	94.4
		V 32 x 200	203	15.8	50.8	803	60.9	962	71.1	1123	81.2	1283	107
		6.8 x 3.3		V 32 x 250	254	12.5	63.5	794	76.2	953	88.9	1111	102
		V 32 x 300	305	10.3	76.3	786	91.5	942	107	1100	122	1257	163

輕荷重彈簧 V 系列

Light Load
Springs

ISO 10243



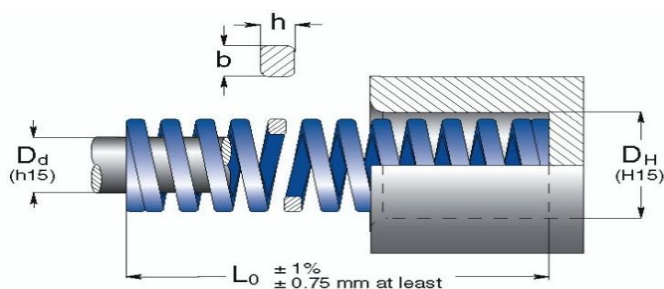
模孔徑	螺栓徑	彈 簧 編 號	自由長	常數	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 35% L ₀		壓縮 40% L ₀		密實長  (不建議 使用)
D _H mm	D _d mm		L ₀ mm	R N/mm ± 10%	mm	N	mm	N	mm	N	mm	N	
b x h													
40	20	V 38 x 50	51	92	12.8	1178	15.3	1408	17.9	1642	20.4	1877	25.5
		V 38 x 65	64	73	16.0	1168	19.2	1402	22.4	1635	25.6	1869	31.4
		V 38 x 75	76	63	19.0	1197	22.8	1436	26.6	1676	30.4	1915	37.8
		V 38 x 90	89	51	22.3	1137	26.7	1362	31.2	1589	35.6	1816	44.3
		V 38 x 100	102	43	25.5	1097	30.6	1316	35.7	1535	40.8	1754	50.7
		V 38 x 115	115	39.6	28.8	1140	34.5	1366	40.3	1594	46.0	1822	58.1
		V 38 x 125	127	37	31.8	1177	38.1	1410	44.5	1645	50.8	1880	64.6
		V 38 x 150	152	28	38.0	1064	45.6	1277	53.2	1490	60.8	1702	76.6
		V 38 x 175	178	25.2	44.5	1121	53.4	1346	62.3	1570	71.2	1794	90.4
		V 38 x 200	203	22.7	50.8	1153	60.9	1382	71.1	1613	81.2	1843	102
		V 38 x 250	254	17.0	63.5	1080	76.2	1295	88.9	1511	102	1727	129
8.1 x 4.0	V 38 x 300	305	14.8	76.3	1129	91.5	1354	107	1580	122	1806	156	
50	25	V 51 x 65	64	156	16.0	2496	19.2	2995	22.4	3494	25.6	3994	31.0
		V 51 x 75	76	125	19.0	2375	22.8	2850	26.6	3325	30.4	3800	37.2
		V 51 x 90	89	109	22.3	2431	26.7	2910	31.2	3395	35.6	3880	43.6
		V 51 x 100	102	94	25.5	2397	30.6	2876	35.7	3356	40.8	3835	50.3
		V 51 x 115	115	81	28.8	2333	34.5	2795	40.3	3260	46.0	3726	58.1
		V 51 x 125	127	71	31.8	2258	38.1	2705	44.5	3156	50.8	3607	63.7
		V 51 x 150	152	60	38.0	2280	45.6	2736	53.2	3192	60.8	3648	76.5
		V 51 x 175	178	52	44.5	2314	53.4	2777	62.3	3240	71.2	3702	91.9
		V 51 x 200	203	44	50.8	2235	60.9	2680	71.1	3126	81.2	3573	105
		V 51 x 250	254	35	63.5	2223	76.2	2667	88.9	3112	102	3556	131
		10.9 x 5.3	V 51 x 300	305	28.5	76.3	2175	91.5	2608	107	3042	122	3477

中荷重彈簧

R 系列

Medium Load Springs

ISO 10243



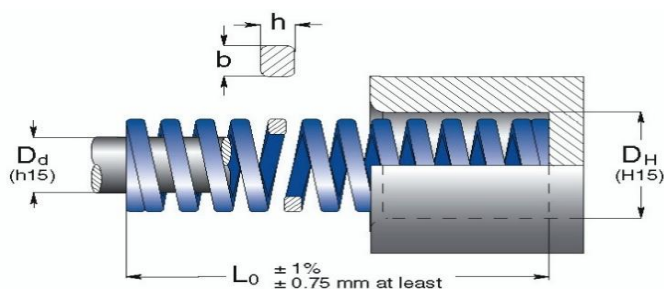
模孔徑		螺栓徑		彈 簧 編 號	自由長 L ₀ mm	常數 R N/mm ± 10%	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 33.75% L ₀		壓縮 37.5% L ₀		密實長  (不建議 使用)
D _H mm	D _d mm	mm					mm		mm		mm		mm		
b x h							N		N		N		N		
10	5	R 10 x 25		25	16.0	6.3	101	7.5	120	8.4	135	9.4	150	10.2	
		R 10 x 32		32	13.0	8.0	104	9.6	125	10.8	140	12.0	156	14.2	
		R 10 x 38		38	11.9	9.5	113	11.4	136	12.8	153	14.3	170	16.8	
		R 10 x 45		44	10.3	11.0	113	13.2	136	14.9	153	16.5	170	19.4	
		R 10 x 50		51	8.9	12.8	114	15.3	136	17.2	153	19.1	170	23.4	
		R 10 x 65		64	7.5	16.0	120	19.2	144	21.6	162	24.0	180	28.2	
		R 10 x 75		76	5.3	19.0	101	22.8	121	25.7	136	28.5	151	34.2	
1.9 x 1.3		R 10 x 300		305	1.6	76.3	122	91.5	146	103	165	114	183	134	
12.5	6.3	R 13 x 25		25	30.0	6.3	189	7.5	225	8.4	253	9.4	282	11.9	
		R 13 x 32		32	24.8	8.0	198	9.6	238	10.8	268	12.0	298	16.2	
		R 13 x 38		38	21.4	9.5	203	11.4	244	12.8	274	14.3	306	18.7	
		R 13 x 45		44	18.5	11.0	204	13.2	244	14.9	275	16.5	305	21.3	
		R 13 x 50		51	15.5	12.8	198	15.3	237	17.2	267	19.1	296	25.6	
		R 13 x 65		64	12.1	16.0	194	19.2	232	21.6	261	24.0	290	32.4	
		R 13 x 75		76	10.2	19.0	194	22.8	233	25.7	262	28.5	291	39.0	
2.5 x 1.5		R 13 x 300		305	2.1	76.3	160	91.5	192	103	216	114	240	153	
16	8	R 16 x 25		25	49.4	6.3	311	7.5	371	8.4	417	9.4	464	10.5	
		R 16 x 32		32	37.1	8.0	297	9.6	356	10.8	401	12.0	445	13.2	
		R 16 x 38		38	33.9	9.5	322	11.4	386	12.8	435	14.3	485	17.2	
		R 16 x 45		44	30.0	11.0	330	13.2	396	14.9	446	16.5	495	19.4	
		R 16 x 50		51	26.4	12.8	338	15.3	404	17.2	454	19.1	504	24.2	
		R 16 x 65		64	20.5	16.0	328	19.2	394	21.6	443	24.0	492	29.2	
		R 16 x 75		76	17.8	19.0	338	22.8	406	25.7	457	28.5	507	36.3	
		R 16 x 90		89	15.2	22.3	339	26.7	406	30.0	457	33.4	508	41.7	
		R 16 x 100		102	13.5	25.5	344	30.6	413	34.4	465	38.3	517	48.9	
3.2 x 2.0		R 16 x 300		305	4.8	76.3	366	91.5	439	103	494	114	549	142	
20	10	R 19 x 25		25	98.0	6.3	617	7.5	735	8.4	827	9.4	921	10.5	
		R 19 x 32		32	72.6	8.0	581	9.6	697	10.8	784	12.0	871	13.9	
		R 19 x 38		38	56.0	9.5	532	11.4	638	12.8	718	14.3	801	16.6	
		R 19 x 45		44	47.5	11.0	523	13.2	627	14.9	705	16.5	784	18.8	
		R 19 x 50		51	41.7	12.8	534	15.3	638	17.2	718	19.1	796	23.1	
		R 19 x 65		64	32.3	16.0	517	19.2	620	21.6	698	24.0	775	27.5	
4.1 x 2.4		R 19 x 75		76	25.1	19.0	477	22.8	572	25.7	644	28.5	715	33.8	

中荷重彈簧

R 系列

Medium Load Springs

ISO 10243

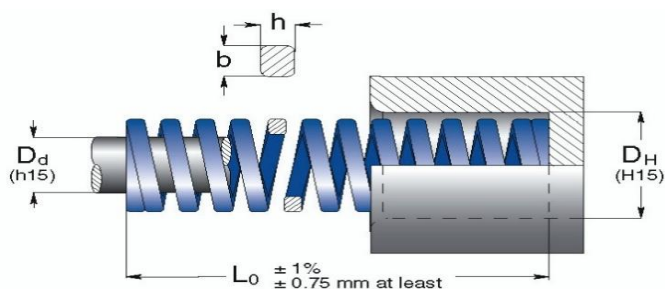


模孔徑	螺栓徑	彈 簧 編 號	自由長 L ₀ mm	常數 R N/mm ± 10%	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 33.75% L ₀		壓縮 37.5% L ₀		密實長  (不建議 使用)
					mm	N	mm	N	mm	N	mm	N	
20	10	R 19 x 90	89	22.0	22.3	491	26.7	587	30.0	661	33.4	735	39.7
		R 19 x 100	102	19.8	25.5	505	30.6	606	34.4	682	38.3	758	47.3
		R 19 x 115	115	18.1	28.8	521	34.5	624	38.8	703	43.1	780	52.5
		R 19 x 125	127	16.6	31.8	528	38.1	632	42.9	712	47.6	790	56.9
		R 19 x 150	152	13.2	38.0	500	45.6	600	51.3	677	57.0	750	67.6
4.1 x 2.4		R 19 x 300	305	6.1	76.3	465	91.5	558	103	628	114	698	143
25	12.5	R 26 x 25	25	147	6.3	926	7.5	1103	8.4	1240	9.4	1382	10.2
		R 26 x 32	32	118	8.0	944	9.6	1133	10.8	1274	12.0	1416	13.7
		R 26 x 38	38	93.0	9.5	884	11.4	1060	12.8	1193	14.3	1330	15.7
		R 26 x 45	44	80.8	11.0	889	13.2	1067	14.9	1200	16.5	1333	18.2
		R 26 x 50	51	68.6	12.8	878	15.3	1050	17.2	1181	19.1	1310	21.7
		R 26 x 65	64	53.0	16.0	848	19.2	1018	21.6	1145	24.0	1272	26.0
		R 26 x 75	76	43.2	19.0	821	22.8	985	25.7	1108	28.5	1231	32.3
		R 26 x 90	89	38.2	22.3	852	26.7	1020	30.0	1147	33.4	1276	38.0
		R 26 x 100	102	33.0	25.5	842	30.6	1010	34.4	1136	38.3	1264	43.0
		R 26 x 115	115	28.0	28.8	806	34.5	966	38.8	1087	43.1	1207	48.6
		R 26 x 125	127	25.9	31.8	824	38.1	987	42.9	1110	47.6	1233	53.7
		R 26 x 150	152	20.8	38.0	790	45.6	948	51.3	1067	57.0	1186	63.8
		R 26 x 175	178	17.8	44.5	792	53.4	951	60.1	1069	66.8	1189	76.6
		R 26 x 200	203	15.8	50.8	803	60.9	962	68.5	1082	76.1	1202	88.4
5.4 x 3.3		R 26 x 300	305	10.2	76.3	778	91.5	933	103	1050	114	1167	135
32	16	R 32 x 38	38	185	9.5	1758	11.4	2109	12.8	2373	14.3	2646	16.3
		R 32 x 45	44	158	11.0	1738	13.2	2086	14.9	2346	16.5	2607	18.9
		R 32 x 50	51	134	12.8	1715	15.3	2050	17.2	2306	19.1	2559	23.1
		R 32 x 65	64	99.0	16.0	1584	19.2	1901	21.6	2138	24.0	2376	28.5
		R 32 x 75	76	80.5	19.0	1530	22.8	1835	25.7	2065	28.5	2294	34.2
		R 32 x 90	89	69.1	22.3	1541	26.7	1845	30.0	2076	33.4	2308	40.4
		R 32 x 100	102	58.8	25.5	1499	30.6	1799	34.4	2024	38.3	2252	48.0
		R 32 x 115	115	51.5	28.8	1483	34.5	1777	38.8	1999	43.1	2220	54.3
		R 32 x 125	127	44.8	31.8	1425	38.1	1707	42.9	1920	47.6	2132	59.2
		R 32 x 150	152	37.8	38.0	1436	45.6	1724	51.3	1939	57.0	2155	73.0
		R 32 x 175	178	32.5	44.5	1446	53.4	1736	60.1	1952	66.8	2171	84.5
		R 32 x 200	203	28.9	50.8	1468	60.9	1760	68.5	1980	76.1	2199	96.9
		R 32 x 250	254	21.4	63.5	1359	76.2	1631	85.7	1835	95.3	2039	121
6.8 x 4.0		R 32 x 300	305	18.3	76.3	1396	91.5	1674	103	1884	114	2094	147

中荷重彈簧 R 系列

Medium Load Springs

ISO 10243

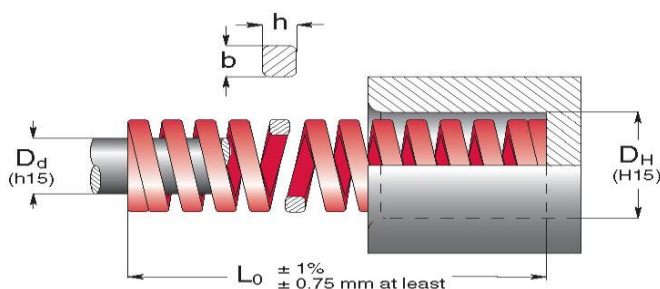


模孔徑	螺栓徑	彈 簧 編 號	自由長	常數	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 33.75% L ₀		壓縮 37.5% L ₀		密實長
D _H mm	D _d mm		L ₀ mm	R N/mm ± 10%	mm N		mm N		mm N		mm N		 (不建議 使用)
b x h													
40	20	R 38 x 50	51	182	12.8	2330	15.3	2785	17.2	3130	19.1	3476	21.4
		R 38 x 65	64	140	16.0	2240	19.2	2688	21.6	3024	24.0	3360	26.8
		R 38 x 75	76	108	19.0	2052	22.8	2462	25.7	2770	28.5	3078	32.7
		R 38 x 90	89	90.7	22.3	2023	26.7	2422	30.0	2724	33.4	3029	39.0
		R 38 x 100	102	81.0	25.5	2066	30.6	2479	34.4	2788	38.3	3102	44.1
		R 38 x 115	115	71.8	28.8	2068	34.5	2477	38.8	2787	43.1	3095	50.6
		R 38 x 125	127	62.7	31.8	1994	38.1	2389	42.9	2687	47.6	2985	55.9
		R 38 x 150	152	51.6	38.0	1961	45.6	2353	51.3	2647	57.0	2941	67.5
		R 38 x 175	178	44.1	44.5	1962	53.4	2355	60.1	2649	66.8	2946	77.2
		R 38 x 200	203	36.7	50.8	1864	60.9	2235	68.5	2514	76.1	2793	91.8
		R 38 x 250	254	30.1	63.5	1911	76.2	2294	85.7	2580	95.3	2869	113
8.2 x 4.7	R 38 x 300	305	24.6	76.3	1877	91.5	2251	103	2532	114	2814	138	
50	25	R 51 x 65	64	209	16.0	3344	19.2	4013	21.6	4514	24.0	5016	28.2
		R 51 x 75	76	168	19.0	3192	22.8	3830	25.7	4309	28.5	4788	34.9
		R 51 x 90	89	140	22.3	3122	26.7	3738	30.0	4205	33.4	4676	39.2
		R 51 x 100	102	119	25.5	3035	30.6	3641	34.4	4097	38.3	4558	47.3
		R 51 x 115	115	106	28.8	3053	34.5	3657	38.8	4114	43.1	4569	52.6
		R 51 x 125	127	97.0	31.8	3085	38.1	3696	42.9	4158	47.6	4617	59.8
		R 51 x 150	152	80.0	38.0	3040	45.6	3648	51.3	4104	57.0	4560	70.8
		R 51 x 175	178	69.5	44.5	3093	53.4	3711	60.1	4175	66.8	4643	84.2
		R 51 x 200	203	59.8	50.8	3038	60.9	3642	68.5	4097	76.1	4551	96.5
		R 51 x 250	254	43.9	63.5	2788	76.2	3345	85.7	3763	95.3	4184	122
		11.1 x 5.8	R 51 x 300	305	38.6	76.3	2945	91.5	3532	103	3973	114	4416

重荷重彈簧 B 系列

Heavy Load
Springs

ISO 10243

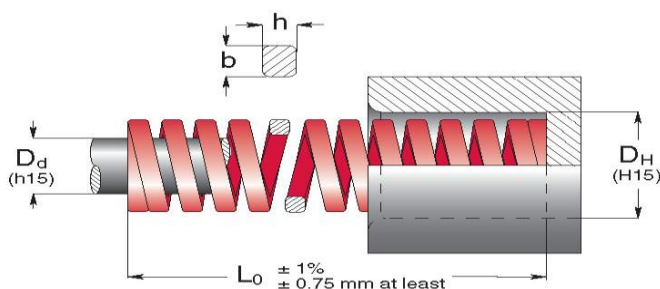


模孔徑		螺栓徑	彈 簧 編 號	自由長	常數 R N/mm ± 10%	壓縮 20% L ₀		壓縮 25 % L ₀		壓縮 27.5 % L ₀		壓縮 30 % L ₀		密實長  (不建議 使用)
D _H mm	D _d mm	L ₀ mm		mm		N	mm	N	mm	N	mm	N		
b x h														
10	5	B 10 x 25	25	22.1	5.0	111	6.3	139	6.9	152	7.5	166	9.2	
		B 10 x 32	32	17.5	6.4	112	8.0	140	8.8	154	9.6	168	12.1	
		B 10 x 38	38	17.1	7.6	130	9.5	162	10.5	179	11.4	195	13.2	
		B 10 x 45	44	15.0	8.8	132	11.0	165	12.1	182	13.2	198	15.1	
		B 10 x 50	51	12.8	10.2	131	12.8	164	14.0	180	15.3	196	19.5	
		B 10 x 65	64	10.7	12.8	137	16.0	171	17.6	188	19.2	205	21.8	
		B 10 x 75	76	7.5	15.2	114	19.0	143	20.9	157	22.8	171	27.9	
1.9 x 1.5		B 10 x 300	305	2.1	61.0	128	76.3	160	83.9	176	91.5	192	127	
12.5	6.3	B 13 x 25	25	42.1	5.0	211	6.3	265	6.9	289	7.5	316	9.8	
		B 13 x 32	32	33.2	6.4	212	8.0	266	8.8	292	9.6	319	13.6	
		B 13 x 38	38	29.3	7.6	223	9.5	278	10.5	306	11.4	334	14.6	
		B 13 x 45	44	24.6	8.8	216	11.0	271	12.1	298	13.2	325	18.1	
		B 13 x 50	51	19.6	10.2	200	12.8	251	14.0	275	15.3	300	22.3	
		B 13 x 65	64	15.0	12.8	192	16.0	240	17.6	264	19.2	288	27.3	
		B 13 x 75	76	13.2	15.2	201	19.0	251	20.9	276	22.8	301	33.1	
2.4 x 1.9		B 13 x 300	305	2.8	61.0	171	76.3	214	83.9	235	91.5	256	140	
16	8	B 16 x 25	25	75.7	5.0	379	6.3	477	6.9	520	7.5	568	8.4	
		B 16 x 32	32	52.8	6.4	338	8.0	422	8.8	465	9.6	507	10.5	
		B 16 x 38	38	48.5	7.6	369	9.5	461	10.5	507	11.4	553	13.6	
		B 16 x 45	44	42.8	8.8	377	11.0	471	12.1	518	13.2	565	15.9	
		B 16 x 50	51	37.1	10.2	378	12.8	475	14.0	520	15.3	568	18.9	
		B 16 x 65	64	30.3	12.8	388	16.0	485	17.6	533	19.2	582	24.9	
		B 16 x 75	76	25.7	15.2	391	19.0	488	20.9	537	22.8	586	29.2	
		B 16 x 90	89	21.7	17.8	386	22.3	484	24.5	531	26.7	579	34.5	
		B 16 x 100	102	19.3	20.4	394	25.5	492	28.1	541	30.6	591	39.1	
3.1 x 2.5		B 16 x 300	305	7.1	61.0	433	76.3	542	83.9	596	91.5	650	104	
20	10	B 19 x 25	25	216	5.0	1080	6.3	1361	6.9	1485	7.5	1620	8.3	
		B 19 x 32	32	168	6.4	1075	8.0	1344	8.8	1478	9.6	1613	10.9	
		B 19 x 38	38	129	7.6	980	9.5	1226	10.5	1348	11.4	1471	12.5	
		B 19 x 45	44	112	8.8	986	11.0	1232	12.1	1355	13.2	1478	15.0	
		B 19 x 50	51	94.0	10.2	959	12.8	1203	14.0	1318	15.3	1438	17.6	
		B 19 x 65	64	72.1	12.8	923	16.0	1154	17.6	1269	19.2	1384	22.6	
4.0 x 3.3		B 19 x 75	76	59.7	15.2	907	19.0	1134	20.9	1248	22.8	1361	27.5	

重荷重彈簧 B 系列

Heavy Load
Springs

ISO 10243

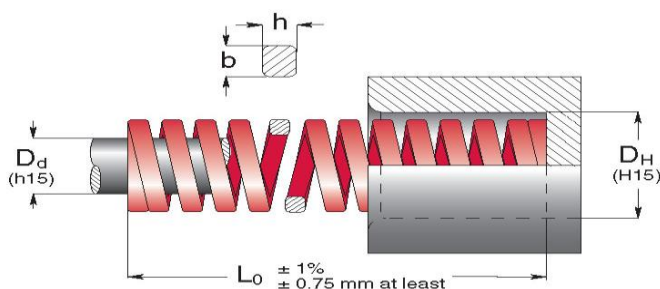


模孔徑 D _H mm	螺栓徑 D _d mm	彈 簧 編 號	自由長 L ₀ mm	常數 R N/mm ± 10%	壓縮 20% L ₀		壓縮 25 % L ₀		壓縮 27.5 % L ₀		壓縮 30 % L ₀		密實長  (不建議 使用)
					mm	N	mm	N	mm	N	mm	N	
b x h					mm	N	mm	N	mm	N	mm	N	
20	10	B 19 x 90	89	50.5	17.8	899	22.3	1126	24.5	1236	26.7	1348	31.7
		B 19 x 100	102	44.2	20.4	902	25.5	1127	28.1	1240	30.6	1353	37.5
		B 19 x 115	115	38.4	23.0	883	28.8	1106	31.6	1214	34.5	1325	42.6
		B 19 x 125	127	34.1	25.4	866	31.8	1084	34.9	1191	38.1	1299	45.5
		B 19 x 150	152	28.2	30.4	857	38.0	1072	41.8	1179	45.6	1286	55.8
4.0 x 3.3		B 19 x 300	305	15.0	61.0	915	76.3	1145	83.9	1258	91.5	1373	114
25	12.5	B 26 x 32	32	297	6.4	1901	8.0	2376	8.8	2614	9.6	2851	11.0
		B 26 x 38	38	219	7.6	1664	9.5	2081	10.5	2289	11.4	2497	12.6
		B 26 x 45	44	187	8.8	1646	11.0	2057	12.1	2263	13.2	2468	14.8
		B 26 x 50	51	156	10.2	1591	12.8	1997	14.0	2188	15.3	2387	17.9
		B 26 x 65	64	123	12.8	1574	16.0	1968	17.6	2165	19.2	2362	23.1
		B 26 x 75	76	99.0	15.2	1505	19.0	1881	20.9	2069	22.8	2257	26.3
		B 26 x 90	89	84.0	17.8	1495	22.3	1873	24.5	2056	26.7	2243	30.5
		B 26 x 100	102	73.0	20.4	1489	25.5	1862	28.1	2048	30.6	2234	37.3
		B 26 x 115	115	65.0	23.0	1495	28.8	1872	31.6	2056	34.5	2243	41.9
		B 26 x 125	127	57.7	25.4	1466	31.8	1835	34.9	2015	38.1	2198	46.2
		B 26 x 150	152	47.8	30.4	1453	38.0	1816	41.8	1998	45.6	2180	55.7
		B 26 x 175	178	41.0	35.6	1460	44.5	1825	49.0	2007	53.4	2189	65.1
		B 26 x 200	203	35.8	40.6	1453	50.8	1819	55.8	1999	60.9	2180	74.5
5.5 x 4.2		B 26 x 300	305	22.9	61.0	1397	76.3	1747	83.9	1921	91.5	2095	110
32	16	B 32 x 38	38	388	7.6	2949	9.5	3686	10.5	4055	11.4	4423	12.5
		B 32 x 45	44	324	8.8	2851	11.0	3564	12.1	3920	13.2	4277	14.9
		B 32 x 50	51	272	10.2	2774	12.8	3482	14.0	3815	15.3	4162	17.8
		B 32 x 65	64	212	12.8	2714	16.0	3392	17.6	3731	19.2	4070	22.4
		B 32 x 75	76	172	15.2	2614	19.0	3268	20.9	3595	22.8	3922	26.1
		B 32 x 90	89	141	17.8	2510	22.3	3144	24.5	3451	26.7	3765	30.8
		B 32 x 100	102	122	20.4	2489	25.5	3111	28.1	3422	30.6	3733	36.8
		B 32 x 115	115	107	23.0	2461	28.8	3082	31.6	3384	34.5	3692	41.4
		B 32 x 125	127	93.0	25.4	2362	31.8	2957	34.9	3248	38.1	3543	44.4
		B 32 x 150	152	78.0	30.4	2371	38.0	2964	41.8	3260	45.6	3557	54.8
		B 32 x 175	178	67.2	35.6	2392	44.5	2990	49.0	3289	53.4	3588	63.6
		B 32 x 200	203	59.1	40.6	2399	50.8	3002	55.8	3299	60.9	3599	72.5
		B 32 x 250	254	46.4	50.8	2357	63.5	2946	69.9	3241	76.2	3536	92.8
7.1 x 5.4		B 32 x 300	305	38.0	61.0	2318	76.3	2899	83.9	3187	91.5	3477	112

重荷重彈簧 B 系列

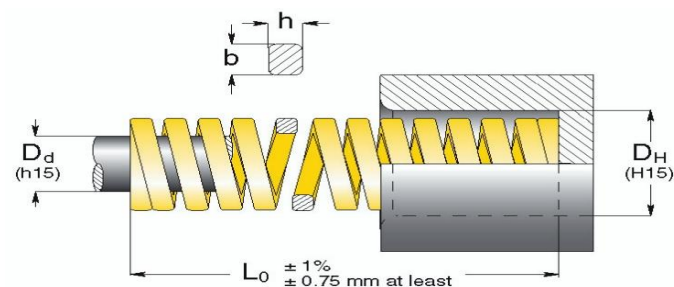
Heavy Load
Springs

ISO 10243



模孔徑	螺栓徑	彈 簧 編 號	自由長 L ₀ mm	常數 R N/mm ± 10%	壓縮 20% L ₀		壓縮 25 % L ₀		壓縮 27.5 % L ₀		壓縮 30 % L ₀		密實長  (不建議 使用)
					mm	N	mm	N	mm	N	mm	N	
40	20	B 38 x 50	51	350	10.2	3570	12.8	4480	14.0	4909	15.3	5355	17.0
		B 38 x 65	64	269	12.8	3443	16.0	4304	17.6	4734	19.2	5165	21.9
		B 38 x 75	76	219	15.2	3329	19.0	4161	20.9	4577	22.8	4993	26.7
		B 38 x 90	89	190	17.8	3382	22.3	4237	24.5	4650	26.7	5073	31.3
		B 38 x 100	102	163	20.4	3325	25.5	4157	28.1	4572	30.6	4988	37.1
		B 38 x 115	115	142	23.0	3266	28.8	4090	31.6	4491	34.5	4899	41.0
		B 38 x 125	127	128	25.4	3251	31.8	4070	34.9	4470	38.1	4877	46.5
		B 38 x 150	152	105	30.4	3192	38.0	3990	41.8	4389	45.6	4788	56.1
		B 38 x 175	178	89	35.6	3168	44.5	3961	49.0	4357	53.4	4753	67.4
		B 38 x 200	203	77	40.6	3126	50.8	3912	55.8	4299	60.9	4689	76.2
		B 38 x 250	254	61	50.8	3099	63.5	3874	69.9	4261	76.2	4648	96.2
8.4 x 6.2		B 38 x 300	305	51	61.0	3111	76.3	3891	83.9	4278	91.5	4667	115
50	25	B 51 x 65	64	413	12.8	5286	16.0	6608	17.6	7269	19.2	7930	22.4
		B 51 x 75	76	339	15.2	5153	19.0	6441	20.9	7085	22.8	7729	26.5
		B 51 x 90	89	288	17.8	5126	22.3	6422	24.5	7049	26.7	7690	31.5
		B 51 x 100	102	245	20.4	4998	25.5	6248	28.1	6872	30.6	7497	37.6
		B 51 x 115	115	215	23.0	4945	28.8	6192	31.6	6799	34.5	7418	42.7
		B 51 x 125	127	192	25.4	4877	31.8	6106	34.9	6706	38.1	7315	47.5
		B 51 x 150	152	154	30.4	4682	38.0	5852	41.8	6437	45.6	7022	57.8
		B 51 x 175	178	134	35.6	4770	44.5	5963	49.0	6559	53.4	7156	68.5
		B 51 x 200	203	117	40.6	4750	50.8	5944	55.8	6532	60.9	7125	77.6
		B 51 x 250	254	89	50.8	4521	63.5	5652	69.9	6217	76.2	6782	97.9
		11.1 x 7.6		B 51 x 300	305	73	61.0	4453	76.3	5570	83.9	6123	91.5

超荷重彈簧 G 系列

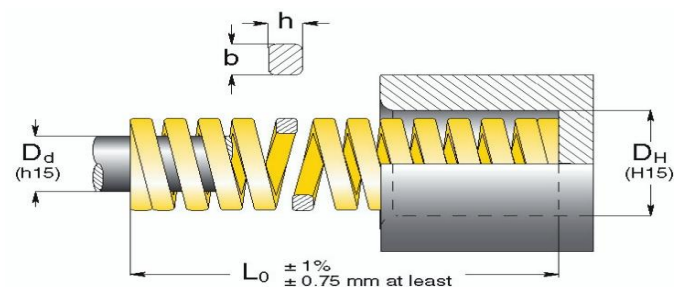


Extra - heavy
Load Springs

ISO 10243

模孔徑		螺栓徑	彈 簧 編 號	自由長	常數 R N/mm ± 10%	壓縮 17 % L ₀		壓縮 20 % L ₀		壓縮 22.5 % L ₀		壓縮 25 % L ₀		密實長  (不建議 使用)
D _H mm	D _d mm	L ₀ mm		mm		N	mm	N	mm	N	mm	N		
b x h														
10	5	G 10 x 25	25	36.8	4.3	158	5.0	184	5.6	207	6.3	232	7.7	
		G 10 x 32	32	27.9	5.4	151	6.4	179	7.2	201	8.0	223	10.6	
		G 10 x 38	38	23.7	6.5	154	7.6	180	8.6	203	9.5	225	12.6	
		G 10 x 45	44	19.2	7.5	144	8.8	169	9.9	190	11.0	211	13.8	
		G 10 x 50	51	16.5	8.7	144	10.2	168	11.5	189	12.8	211	16.2	
		G 10 x 65	64	13.2	10.9	144	12.8	169	14.4	190	16.0	211	20.4	
		G 10 x 75	76	10.9	12.9	141	15.2	166	17.1	186	19.0	207	25.2	
1.9 x 1.6		G 10 x 300	305	2.6	51.9	135	61.0	159	68.6	178	76.3	198	111	
12.5	6.3	G 13 x 25	25	58.5	4.3	252	5.0	293	5.6	329	6.3	369	8.1	
		G 13 x 32	32	43.9	5.4	237	6.4	281	7.2	316	8.0	351	9.9	
		G 13 x 38	38	36.0	6.5	234	7.6	274	8.6	308	9.5	342	12.9	
		G 13 x 45	44	30.3	7.5	227	8.8	267	9.9	300	11.0	333	14.1	
		G 13 x 50	51	26.2	8.7	228	10.2	267	11.5	301	12.8	335	17.4	
		G 13 x 65	64	21.2	10.9	231	12.8	271	14.4	305	16.0	339	21.0	
		G 13 x 75	76	17.1	12.9	221	15.2	260	17.1	292	19.0	325	26.4	
2.6 x 2.0		G 13 x 300	305	4.3	51.9	223	61.0	262	68.6	295	76.3	328	111	
16	8	G 16 x 25	25	118	4.3	507	5.0	590	5.6	664	6.3	743	8.5	
		G 16 x 32	32	89.0	5.4	481	6.4	570	7.2	641	8.0	712	11.0	
		G 16 x 38	38	72.1	6.5	469	7.6	548	8.6	616	9.5	685	13.2	
		G 16 x 45	44	60.9	7.5	457	8.8	536	9.9	603	11.0	670	14.7	
		G 16 x 50	51	52.3	8.7	455	10.2	533	11.5	600	12.8	669	17.7	
		G 16 x 65	64	41.2	10.9	449	12.8	527	14.4	593	16.0	659	21.9	
		G 16 x 75	76	34.1	12.9	440	15.2	518	17.1	583	19.0	648	27.8	
		G 16 x 90	89	29.5	15.1	445	17.8	525	20.0	591	22.3	658	31.2	
		G 16 x 100	102	25.6	17.3	443	20.4	522	23.0	588	25.5	653	37.9	
3.2 x 2.9		G 16 x 300	305	8.4	51.9	436	61.0	512	68.6	576	76.3	641	113	
20	10	G 19 x 25	25	293	4.3	1260	5.0	1465	5.6	1648	6.3	1846	6.9	
		G 19 x 32	32	224	5.4	1210	6.4	1434	7.2	1613	8.0	1792	9.4	
		G 19 x 38	38	177	6.5	1151	7.6	1345	8.6	1513	9.5	1682	12.0	
		G 19 x 45	44	149	7.5	1118	8.8	1311	9.9	1475	11.0	1639	13.5	
		G 19 x 50	51	128	8.7	1114	10.2	1306	11.5	1469	12.8	1638	16.2	
		G 19 x 65	64	99.0	10.9	1079	12.8	1267	14.4	1426	16.0	1584	21.2	
4.1 x 3.8		G 19 x 75	76	81.7	12.9	1054	15.2	1242	17.1	1397	19.0	1552	24.7	

超荷重彈簧 G 系列

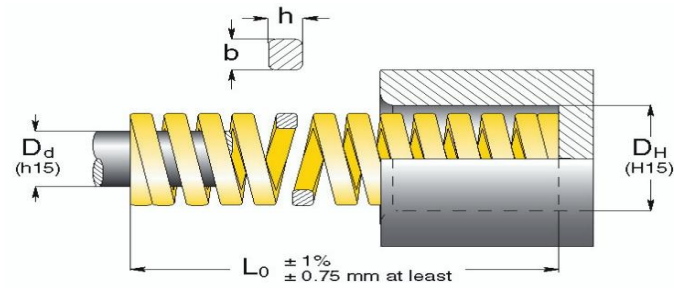


Extra - heavy
Load Springs

ISO 10243

模孔徑	螺栓徑	彈 簧 編 號	自由長 L ₀ mm	常數 R N/mm ± 10%	壓 縮 17 % L ₀		壓 縮 20 % L ₀		壓 縮 22.5 % L ₀		壓 縮 25 % L ₀		密實長  (不建議 使用)
					mm	N	mm	N	mm	N	mm	N	
20	10.0	G 19 x 90	89	69.5	15.1	1049	17.8	1237	20.0	1392	22.3	1550	28.8
		G 19 x 100	102	60.6	17.3	1048	20.4	1236	23.0	1391	25.5	1545	34.8
		G 19 x 115	115	53.0	19.6	1039	23.0	1219	25.9	1371	28.8	1526	39.0
		G 19 x 125	127	47.5	21.6	1026	25.4	1207	28.6	1357	31.8	1511	43.0
		G 19 x 150	152	39.0	25.8	1006	30.4	1186	34.2	1334	38.0	1482	50.4
4.1 x 3.8		G 19 x 300	305	21.2	51.9	1100	61.0	1293	68.6	1455	76.3	1618	103
25	12.5	G 26 x 32	32	374	5.4	2020	6.4	2394	7.2	2693	8.0	2992	10.7
		G 26 x 38	38	300	6.5	1950	7.6	2280	8.6	2580	9.5	2850	12.0
		G 26 x 45	44	244	7.5	1830	8.8	2147	9.9	2416	11.0	2684	14.4
		G 26 x 50	51	208	8.7	1810	10.2	2122	11.5	2392	12.8	2662	17.4
		G 26 x 65	64	161	10.9	1755	12.8	2061	14.4	2318	16.0	2576	21.4
		G 26 x 75	76	131	12.9	1690	15.2	1991	17.1	2240	19.0	2489	26.9
		G 26 x 90	89	111	15.1	1676	17.8	1976	20.0	2220	22.3	2475	30.9
		G 26 x 100	102	96.3	17.3	1666	20.4	1965	23.0	2210	25.5	2456	36.7
		G 26 x 115	115	85.7	19.6	1680	23.0	1971	25.9	2217	28.8	2468	40.3
		G 26 x 125	127	76.3	21.6	1648	25.4	1938	28.6	2180	31.8	2426	45.1
		G 26 x 150	152	63.5	25.8	1638	30.4	1930	34.2	2172	38.0	2413	53.5
		G 26 x 175	178	53.9	30.3	1633	35.6	1919	40.1	2159	44.5	2399	63.9
		G 26 x 200	203	47.0	34.5	1622	40.6	1908	45.7	2147	50.8	2388	70.2
5.4 x 4.6		G 26 x 300	305	30.9	51.9	1604	61.0	1885	68.6	2121	76.3	2358	110
32	16	G 32 x 38	38	480	6.5	3120	7.6	3648	8.6	4128	9.5	4560	11.4
		G 32 x 45	44	390	7.5	2925	8.8	3432	9.9	3861	11.0	4290	13.7
		G 32 x 50	51	320	8.7	2784	10.2	3264	11.5	3680	12.8	4096	15.6
		G 32 x 65	64	269	10.9	2934	12.8	3446	14.4	3876	16.0	4307	20.0
		G 32 x 75	76	219	12.9	2825	15.2	3329	17.1	3745	19.0	4161	24.4
		G 32 x 90	89	180	15.1	2723	17.8	3209	20.0	3611	22.3	4021	29.7
		G 32 x 100	102	155	17.3	2682	20.4	3162	23.0	3557	25.5	3953	35.1
		G 32 x 115	115	140	19.6	2744	23.0	3220	25.9	3623	28.8	4032	39.0
		G 32 x 125	127	124	21.6	2678	25.4	3150	28.6	3543	31.8	3943	42.8
		G 32 x 150	152	102	25.8	2632	30.4	3101	34.2	3488	38.0	3876	52.4
		G 32 x 175	178	88.2	30.3	2672	35.6	3140	40.1	3532	44.5	3925	60.9
		G 32 x 200	203	76.0	34.5	2622	40.6	3086	45.7	3471	50.8	3861	69.2
		G 32 x 250	254	60.8	43.2	2627	50.8	3089	57.2	3475	63.5	3861	88.1
7.3 x 5.9		G 32 x 300	305	49.0	51.9	2543	61.0	2989	68.6	3363	76.3	3739	104

超荷重彈簧 G 系列



Extra - heavy
Load Springs

ISO 10243

模孔徑		螺栓徑	彈 簧 編 號	自由長	常數 R N/mm ± 10%	壓 縮 17 % L ₀		壓 縮 20 % L ₀		壓 縮 22.5 % L ₀		壓 縮 25 % L ₀		密實長  (不建議 使用)
D _H mm	D _d mm	L ₀ mm		mm		N	mm	N	mm	N	mm	N		
b x h														
40	20	G 38 x 50	51	628	8.7	5464	10.2	6406	11.5	7206	12.8	8038	15.0	
		G 38 x 65	64	487	10.9	5308	12.8	6234	14.4	7013	16.0	7792	19.5	
		G 38 x 75	76	379	12.9	4889	15.2	5761	17.1	6481	19.0	7201	23.3	
		G 38 x 90	89	321	15.1	4847	17.8	5714	20.0	6428	22.3	7158	26.7	
		G 38 x 100	102	281	17.3	4861	20.4	5732	23.0	6449	25.5	7166	33.8	
		G 38 x 115	115	245	19.6	4802	23.0	5635	25.9	6339	28.8	7056	36.2	
		G 38 x 125	127	221	21.6	4774	25.4	5613	28.6	6315	31.8	7028	40.7	
		G 38 x 150	152	168	25.8	4334	30.4	5107	34.2	5746	38.0	6384	49.6	
		G 38 x 175	178	146	30.3	4424	35.6	5198	40.1	5847	44.5	6497	59.9	
		G 38 x 200	203	132	34.5	4554	40.6	5359	45.7	6029	50.8	6706	67.1	
8.4 x 7.5		G 38 x 250	254	107	43.2	4622	50.8	5436	57.2	6115	63.5	6795	86.3	
		G 38 x 300	305	87.8	51.9	4557	61.0	5356	68.6	6025	76.3	6699	104	
50	25	G 51 x 65	64	709	10.9	7728	12.8	9075	14.4	10210	16.0	11344	19.3	
		G 51 x 75	76	572	12.9	7379	15.2	8694	17.1	9781	19.0	10868	24.2	
		G 51 x 90	89	475	15.1	7173	17.8	8455	20.0	9512	22.3	10593	28.0	
		G 51 x 100	102	405	17.3	7007	20.4	8262	23.0	9295	25.5	10328	33.5	
		G 51 x 115	115	352	19.6	6899	23.0	8096	25.9	9108	28.8	10138	38.6	
		G 51 x 125	127	316	21.6	6826	25.4	8026	28.6	9030	31.8	10049	41.4	
		G 51 x 150	152	239	25.8	6166	30.4	7266	34.2	8174	38.0	9082	50.2	
		G 51 x 175	178	215	30.3	6515	35.6	7654	40.1	8611	44.5	9568	61.1	
		G 51 x 200	203	187	34.5	6452	40.6	7592	45.7	8541	50.8	9500	67.7	
		G 51 x 250	254	153	43.2	6610	50.8	7772	57.2	8744	63.5	9716	87.0	
11.5 x 9.0		G 51 x 300	305	127	51.9	6591	61.0	7747	68.6	8715	76.3	9690	104	