

輕荷重

V 系列

Light Load Springs

ISO 10243

最大壓縮量為自由長的 40%

彈簧編號	模孔徑	螺絲徑	自由長 L ₀	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		密縮長
	D _H mm	D _d mm			mm	N	mm	N	mm	N	mm	N	
V10 x 25	10	5	25	10	6.3	63	7.5	75	8.8	88	10.0	100	13.5
V10 x 32			32	8.5	8.0	68	9.6	82	11.2	95	12.8	109	17.5
V10 x 38			38	6.8	9.5	65	11.4	78	13.3	90	15.2	103	20.8
V10 x 45			44	6.0	11.0	66	13.2	79	15.4	92	17.6	106	23.9
V10 x 50			51	5.0	12.8	64	15.3	77	17.9	89	20.4	102	28.9
V10 x 65			64	4.3	16.0	69	19.2	83	22.4	96	25.6	110	36.1
V10 x 75			76	3.2	19.0	61	22.8	73	26.6	85	30.4	97	43.2
V10 x 300			305	1.1	76.3	84	91.5	101	107	117	122	134	179
V13 x 25	12.5	6.3	25	17.9	6.3	113	7.5	134	8.8	157	10.0	179	13.2
V13 x 32			32	16.4	8.0	131	9.6	157	11.2	184	12.8	210	18.0
V13 x 38			38	13.6	9.5	129	11.4	155	13.3	181	15.2	207	21.0
V13 x 45			44	12.1	11.0	133	13.2	160	15.4	186	17.6	213	24.0
V13 x 50			51	11.4	12.8	146	15.3	174	17.9	203	20.4	233	28.7
V13 x 65			64	9.3	16.0	149	19.2	179	22.4	208	25.6	238	35.8
V13 x 75			76	7.1	19.0	135	22.8	162	26.6	189	30.4	216	42.7
V13 x 300			305	1.4	76.3	107	91.5	128	107	149	122	171	172
V16 x 25	16	8	25	23.4	6.3	147	7.5	176	8.8	205	10.0	234	12.6
V16 x 32			32	22.9	8.0	183	9.6	220	11.2	256	12.8	293	16.4
V16 x 38			38	19.3	9.5	183	11.4	220	13.3	257	15.2	293	19.7
V16 x 45			44	17.1	11.0	188	13.2	226	15.4	263	17.6	301	22.5
V16 x 50			51	15.7	12.8	201	15.3	240	17.9	280	20.4	320	26.3
V16 x 65			64	10.7	16.0	171	19.2	205	22.4	240	25.6	274	33.3
V16 x 75			76	10.0	19.0	190	22.8	228	26.6	266	30.4	304	40.2
V16 x 90			89	8.6	22.3	192	26.7	230	31.2	268	35.6	306	47.6
V16 x 100			102	7.8	25.5	199	30.6	239	35.7	278	40.8	318	55.4
V16 x 300			305	2.5	76.3	191	91.5	229	107	267	122	305	165
V19 x 25	20	10.0	25	55.8	6.3	352	7.5	419	8.8	488	10.0	558	12.1
V19 x 32			32	45.0	8.0	360	9.6	432	11.2	504	12.8	576	15.3
V19 x 38			38	33.3	9.5	316	11.4	380	13.3	443	15.2	506	18.9
V19 x 45			44	30.0	11.0	330	13.2	396	15.4	462	17.6	528	21.5
V19 x 50			51	24.5	12.8	314	15.3	375	17.9	437	20.4	500	25.0
V19 x 65			64	20.0	16.0	320	19.2	384	22.4	448	25.6	512	31.1
V19 x 75			76	16.0	19.0	304	22.8	365	26.6	426	30.4	486	37.3
V19 x 90			89	14.0	22.3	312	26.7	374	31.2	436	35.6	498	44.5
V19 x 100			102	12.0	25.5	306	30.6	367	35.7	428	40.8	490	51.1
V19 x 115			115	10.9	28.8	314	34.5	376	40.3	439	46.0	501	58.2
V19 x 125			127	9.5	31.8	302	38.1	362	44.5	422	50.8	483	64.9
V19 x 150			152	7.5	38.0	285	45.6	342	53.2	399	60.8	456	78.8
V19 x 300	305	4.0	76.3	305	91.5	366	107	427	122	488	157		
V26 x 25	25	12.5	25	100	6.3	630	7.5	750	8.8	875	10.0	1000	11.9
V26 x 32			32	80.3	8.0	642	9.6	771	11.2	899	12.8	1028	16.0
V26 x 38			38	62.0	9.5	589	11.4	707	13.3	825	15.2	942	18.3
V26 x 45			44	52.9	11.0	582	13.2	698	15.4	815	17.6	931	21.4
V26 x 50			51	44.0	12.8	562	15.3	673	17.9	785	20.4	898	24.9
V26 x 65			64	35.2	16.0	563	19.2	676	22.4	788	25.6	901	31.4

輕荷重

V 系列

Light Load Springs

ISO 10243

最大壓縮量為自由長的 40%

彈簧編號	模孔徑		自由長 L ₀	常數 R ± 10%	壓縮 25% L ₀		壓縮 30% L ₀		壓縮 35% L ₀		壓縮 40% L ₀		密縮長
	D _H mm	D _d mm			mm	N	mm	N	mm	N	mm	N	
V26 x 75	25	12.5	76	28.0	19.0	532	22.8	638	26.6	745	30.4	851	37.5
V26 x 90			89	24.0	22.3	534	26.7	641	31.2	748	35.6	854	43.5
V26 x 100			102	21.1	25.5	538	30.6	646	35.7	753	40.8	861	51.1
V26 x 115			115	18.7	28.8	538	34.5	645	40.3	753	46.0	860	58.1
V26 x 125			127	16.7	31.8	530	38.1	636	44.5	742	50.8	848	64.1
V26 x 150			152	14.0	38.0	532	45.6	638	53.2	745	60.8	851	77.1
V26 x 175			178	12.5	44.5	556	53.4	668	62.3	779	71.2	890	93.1
V26 x 200			203	10.4	50.8	528	60.9	633	71.1	739	81.2	844	103
V26 x 300			305	7.0	76.3	534	91.5	641	107	747	122	854	156
V32 x 38			32	16	38	94	9.5	893	11.4	1072	13.3	1250	15.2
V32 x 45	44	79.5			11.0	875	13.2	1049	15.4	1224	17.6	1399	21.5
V32 x 50	51	67			12.8	858	15.3	1025	17.9	1196	20.4	1367	25.5
V32 x 65	64	53			16.0	848	19.2	1018	22.4	1187	25.6	1357	31.9
V32 x 75	76	44			19.0	836	22.8	1003	26.6	1170	30.4	1338	38.6
V32 x 90	89	37.2			22.3	830	26.7	993	31.2	1159	35.6	1324	46.5
V32 x 100	102	32			25.5	816	30.6	979	35.7	1142	40.8	1306	53.2
V32 x 115	115	29			28.8	835	34.5	1001	40.3	1167	46.0	1334	60.0
V32 x 125	127	25			31.8	795	38.1	953	44.5	1111	50.8	1270	66.7
V32 x 150	152	21.5			38.0	817	45.6	980	53.2	1144	60.8	1307	78.5
V32 x 175	178	18.2			44.5	810	53.4	972	62.3	1134	71.2	1296	94.4
V32 x 200	203	15.8			50.8	803	60.9	962	71.1	1123	81.2	1283	107
V32 x 250	254	12.5			63.5	794	76.2	953	88.9	1111	102	1270	136
V32 x 300	305	10.3			76.3	786	91.5	942	107	1100	122	1257	163
V38 x 50	40	20	51	92	12.8	1178	15.3	1408	17.9	1642	20.4	1877	25.5
V38 x 65			64	73	16.0	1168	19.2	1402	22.4	1635	25.6	1869	31.4
V38 x 75			76	63	19.0	1197	22.8	1436	26.6	1676	30.4	1915	37.8
V38 x 90			89	51	22.3	1137	26.7	1362	31.2	1589	35.6	1816	44.3
V38 x 100			102	43	25.5	1097	30.6	1316	35.7	1535	40.8	1754	50.7
V38 x 115			115	39.6	28.8	1140	34.5	1366	40.3	1594	46.0	1822	58.1
V38 x 125			127	37	31.8	1177	38.1	1410	44.5	1645	50.8	1880	64.6
V38 x 150			152	28	38.0	1064	45.6	1277	53.2	1490	60.8	1702	76.6
V38 x 175			178	25.2	44.5	1121	53.4	1346	62.3	1570	71.2	1794	90.4
V38 x 200			203	22.7	50.8	1153	60.9	1382	71.1	1613	81.2	1843	102
V38 x 250			254	17.0	63.5	1080	76.2	1295	88.9	1511	102	1727	129
V38 x 300			305	14.8	76.3	1129	91.5	1354	107	1580	122	1806	156
V51 x 65			50	25	64	156	16.0	2496	19.2	2995	22.4	3494	25.6
V51 x 75	76	125			19.0	2375	22.8	2850	26.6	3325	30.4	3800	37.2
V51 x 90	89	109			22.3	2431	26.7	2910	31.2	3395	35.6	3880	43.6
V51 x 100	102	94			25.5	2397	30.6	2876	35.7	3356	40.8	3835	50.3
V51 x 115	115	81			28.8	2333	34.5	2795	40.3	3260	46.0	3726	58.1
V51 x 125	127	71			31.8	2258	38.1	2705	44.5	3156	50.8	3607	63.7
V51 x 150	152	60			38.0	2280	45.6	2736	53.2	3192	60.8	3648	76.5
V51 x 175	178	52			44.5	2314	53.4	2777	62.3	3240	71.2	3702	91.9
V51 x 200	203	44			50.8	2235	60.9	2680	71.1	3126	81.2	3573	105
V51 x 250	254	35			63.5	2223	76.2	2667	88.9	3112	102	3556	131
V51 x 300	305	28.5			76.3	2175	91.5	2608	107	3042	122	3477	155

中荷重

R 系列

Medium Load Springs

ISO 10243

最大壓縮量為自由長的 37.5%

彈簧編號	模孔徑	螺栓徑	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		密縮長
	D _H mm	D _d mm			L ₀ mm	R N/mm ± 10%	mm	N	mm	N	mm	N	
R10 x 25	10	5	25	16.0	6.3	101	7.5	120	8.4	135	9.4	150	10.2
R10 x 32			32	13.0	8.0	104	9.6	125	10.8	140	12.0	156	14.2
R10 x 38			38	11.9	9.5	113	11.4	136	12.8	153	14.3	170	16.8
R10 x 45			44	10.3	11.0	113	13.2	136	14.9	153	16.5	170	19.4
R10 x 50			51	8.9	12.8	114	15.3	136	17.2	153	19.1	170	23.4
R10 x 65			64	7.5	16.0	120	19.2	144	21.6	162	24.0	180	28.2
R10 x 75			76	5.3	19.0	101	22.8	121	25.7	136	28.5	151	34.2
R10 x 300			305	1.6	76.3	122	91.5	146	103	165	114	183	134
R13 x 25	12.5	6.3	25	30.0	6.3	189	7.5	225	8.4	253	9.4	282	11.9
R13 x 32			32	24.8	8.0	198	9.6	238	10.8	268	12.0	298	16.2
R13 x 38			38	21.4	9.5	203	11.4	244	12.8	274	14.3	306	18.7
R13 x 45			44	18.5	11.0	204	13.2	244	14.9	275	16.5	305	21.3
R13 x 50			51	15.5	12.8	198	15.3	237	17.2	267	19.1	296	25.6
R13 x 65			64	12.1	16.0	194	19.2	232	21.6	261	24.0	290	32.4
R13 x 75			76	10.2	19.0	194	22.8	233	25.7	262	28.5	291	39.0
R13 x 300			305	2.1	76.3	160	91.5	192	103	216	114.4	240	153
R16 x 25	16	8	25	49.4	6.3	311	7.5	371	8.4	417	9.4	464	10.5
R16 x 32			32	37.1	8.0	297	9.6	356	10.8	401	12.0	445	13.2
R16 x 38			38	33.9	9.5	322	11.4	386	12.8	435	14.3	485	17.2
R16 x 45			44	30.0	11.0	330	13.2	396	14.9	446	16.5	495	19.4
R16 x 50			51	26.4	12.8	338	15.3	404	17.2	454	19.1	504	24.2
R16 x 65			64	20.5	16.0	328	19.2	394	21.6	443	24.0	492	29.2
R16 x 75			76	17.8	19.0	338	22.8	406	25.7	457	28.5	507	36.3
R16 x 90			89	15.2	22.3	339	26.7	406	30.0	457	33.4	508	41.7
R16 x 100			102	13.5	25.5	344	30.6	413	34.4	465	38.3	517	48.9
R16 x 300			305	4.8	76.3	366	91.5	439	103	494	114	549	142
R19 x 25	20	10	25	98.0	6.3	617	7.5	735	8.4	827	9.4	921	10.5
R19 x 32			32	72.6	8.0	581	9.6	697	10.8	784	12.0	871	13.9
R19 x 38			38	56.0	9.5	532	11.4	638	12.8	718	14.3	801	16.6
R19 x 45			44	47.5	11.0	523	13.2	627	14.9	705	16.5	784	18.8
R19 x 50			51	41.7	12.8	534	15.3	638	17.2	718	19.1	796	23.1
R19 x 65			64	32.3	16.0	517	19.2	620	21.6	698	24.0	775	27.5
R19 x 75			76	25.1	19.0	477	22.8	572	25.7	644	28.5	715	33.8
R19 x 90			89	22.0	22.3	491	26.7	587	30.0	661	33.4	735	39.7
R19 x 100			102	19.8	25.5	505	30.6	606	34.4	682	38.3	758	47.3
R19 x 115			115	18.1	28.8	521	34.5	624	38.8	703	43.1	780	52.5
R19 x 125			127	16.6	31.8	528	38.1	632	42.9	712	47.6	790	56.9
R19 x 150			152	13.2	38.0	500	45.6	600	51.3	677	57.0	750	67.6
R19 x 300			305	6.1	76.3	465	91.5	558	103	628	114	698	143
R26 x 25	25	12.5	25	147	6.3	926	7.5	1103	8.4	1240	9.4	1382	10.2
R26 x 32			32	118	8.0	944	9.6	1133	10.8	1274	12.0	1416	13.7
R26 x 38			38	93.0	9.5	884	11.4	1060	12.8	1193	14.3	1330	15.7
R26 x 45			44	80.8	11.0	889	13.2	1067	14.9	1200	16.5	1333	18.2
R26 x 50			51	68.6	12.8	878	15.3	1050	17.2	1181	19.1	1310	21.7
R26 x 65			64	53.0	16.0	848	19.2	1018	21.6	1145	24.0	1272	26.0

中荷重

R 系列

Medium Load Springs

ISO 10243

最大壓縮量為自由長的 37.5%

彈簧編號	模孔徑	螺栓徑	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		密縮長
	D _H mm	D _d mm			L ₀ mm	R N/mm ± 10%	mm	N	mm	N	mm	N	
R26 x 75	25	12.5	76	43.2	19.0	821	22.8	985	25.7	1108	28.5	1231	32.3
R26 x 90			89	38.2	22.3	852	26.7	1020	30.0	1147	33.4	1276	38.0
R26 x 100			102	33.0	25.5	842	30.6	1010	34.4	1136	38.3	1264	43.0
R26 x 115			115	28.0	28.8	806	34.5	966	38.8	1087	43.1	1207	48.6
R26 x 125			127	25.9	31.8	824	38.1	987	42.9	1110	47.6	1233	53.7
R26 x 150			152	20.8	38.0	790	45.6	948	51.3	1067	57.0	1186	63.8
R26 x 175			178	17.8	44.5	792	53.4	951	60.1	1069	66.8	1189	76.6
R26 x 200			203	15.8	50.8	803	60.9	962	68.5	1082	76.1	1202	88.4
R26 x 300			305	10.2	76.3	778	91.5	933	103	1050	114	1167	135
R32 x 38	32	16	38	185	9.5	1758	11.4	2109	12.8	2373	14.3	2646	16.3
R32 x 45			44	158	11.0	1738	13.2	2086	14.9	2346	16.5	2607	18.9
R32 x 50			51	134	12.8	1715	15.3	2050	17.2	2306	19.1	2559	23.1
R32 x 65			64	99	16.0	1584	19.2	1901	21.6	2138	24.0	2376	28.5
R32 x 75			76	80.5	19.0	1530	22.8	1835	25.7	2065	28.5	2294	34.2
R32 x 90			89	69.1	22.3	1541	26.7	1845	30.0	2076	33.4	2308	40.4
R32 x 100			102	58.8	25.5	1499	30.6	1799	34.4	2024	38.3	2252	48.0
R32 x 115			115	51.5	28.8	1483	34.5	1777	38.8	1999	43.1	2220	54.3
R32 x 125			127	44.8	31.8	1425	38.1	1707	42.9	1920	47.6	2132	59.2
R32 x 150			152	37.8	38.0	1436	45.6	1724	51.3	1939	57.0	2155	73.0
R32 x 175			178	32.5	44.5	1446	53.4	1736	60.1	1952	66.8	2171	84.5
R32 x 200			203	28.9	50.8	1468	60.9	1760	68.5	1980	76.1	2199	96.9
R32 x 250			254	21.4	63.5	1359	76.2	1631	85.7	1835	95.3	2039	121
R32 x 300	305	18.3	76.3	1396	91.5	1674	103	1884	114	2094	147		
R38 x 50	40	20	51	181.6	12.8	2315	15.3	2778	17.2	3126	19.1	3473	21.4
R38 x 65			64	140	16.0	2240	19.2	2688	21.6	3024	24.0	3360	26.8
R38 x 75			76	108	19.0	2052	22.8	2462	25.7	2770	28.5	3078	32.7
R38 x 90			89	90.7	22.3	2018	26.7	2422	30.0	2724	33.4	3027	39.0
R38 x 100			102	81.0	25.5	2066	30.6	2479	34.4	2788	38.3	3098	44.1
R38 x 115			115	71.8	28.8	2064	34.5	2477	38.8	2787	43.1	3096	50.6
R38 x 125			127	62.7	31.8	1991	38.1	2389	42.9	2687	47.6	2986	55.9
R38 x 150			152	51.6	38.0	1961	45.6	2353	51.3	2647	57.0	2941	67.5
R38 x 175			178	44.1	44.5	1962	53.4	2355	60.1	2649	66.8	2944	77.2
R38 x 200			203	36.7	50.8	1863	60.9	2235	68.5	2514	76.1	2794	91.8
R38 x 250			254	30.1	63.5	1911	76.2	2294	85.7	2580	95.3	2867	112.7
R38 x 300			305	24.6	76.3	1876	91.5	2251	103	2532	114	2814	138
R51 x 65	50	25	64	209	16.0	3344	19.2	4013	21.6	4514	24.0	5016	28.2
R51 x 75			76	168	19.0	3192	22.8	3830	25.7	4309	28.5	4788	34.9
R51 x 90			89	140	22.3	3115	26.7	3738	30.0	4205	33.4	4673	39.2
R51 x 100			102	119	25.5	3035	30.6	3641	34.4	4097	38.3	4552	47.3
R51 x 115			115	106	28.8	3048	34.5	3657	38.8	4114	43.1	4571	52.6
R51 x 125			127	97	31.8	3080	38.1	3696	42.9	4158	47.6	4620	59.8
R51 x 150			152	80	38.0	3040	45.6	3648	51.3	4104	57.0	4560	70.8
R51 x 175			178	69.5	44.5	3093	53.4	3711	60.1	4175	66.8	4639	84.2
R51 x 200			203	59.8	50.8	3035	60.9	3642	68.5	4097	76.1	4552	96.5
R51 x 250			254	43.9	63.5	2788	76.2	3345	85.7	3763	95.3	4181	121.8
R51 x 300	305	38.6	76.3	2943	91.5	3532	103	3973	114	4415	147		

重荷重

B 系列

Heavy Load Springs

ISO 10243

最大壓縮量為自由長的 30%

彈簧編號	模孔徑		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		密縮長 mm
	D _H	D _d			mm N		mm N		mm N		mm N		
	mm	mm			mm	N	mm	N	mm	N	mm	N	
B10 x 25	10	5	25	22.1	5.0	111	6.3	139	6.9	152	7.5	166	9.2
B10 x 32			32	17.5	6.4	112	8.0	140	8.8	154	9.6	168	12.1
B10 x 38			38	17.1	7.6	130	9.5	162	10.5	179	11.4	195	13.2
B10 x 45			44	15.0	8.8	132	11.0	165	12.1	182	13.2	198	15.1
B10 x 50			51	12.8	10.2	131	12.8	164	14.0	180	15.3	196	19.5
B10 x 65			64	10.7	12.8	137	16.0	171	17.6	188	19.2	205	21.8
B10 x 75			76	7.5	15.2	114	19.0	143	20.9	157	22.8	171	27.9
B10 x 300			305	2.1	61.0	128	76.3	160	83.9	176	91.5	192	127
B13 x 25	12.5	6.3	25	42.1	5.0	211	6.3	265	6.9	289	7.5	316	9.8
B13 x 32			32	33.2	6.4	212	8.0	266	8.8	292	9.6	319	13.6
B13 x 38			38	29.3	7.6	223	9.5	278	10.5	306	11.4	334	14.6
B13 x 45			44	24.6	8.8	216	11.0	271	12.1	298	13.2	325	18.1
B13 x 50			51	19.6	10.2	200	12.8	251	14.0	275	15.3	300	22.3
B13 x 65			64	15.0	12.8	192	16.0	240	17.6	264	19.2	288	27.3
B13 x 75			76	13.2	15.2	201	19.0	251	20.9	276	22.8	301	33.1
B13 x 300			305	2.8	61.0	171	76.3	214	83.9	235	91.5	256	140
B16 x 25	16	8	25	75.7	5.0	379	6.3	477	6.9	520	7.5	568	8.4
B16 x 32			32	52.8	6.4	338	8.0	422	8.8	465	9.6	507	10.5
B16 x 38			38	48.5	7.6	369	9.5	461	10.5	507	11.4	553	13.6
B16 x 45			44	42.8	8.8	377	11.0	471	12.1	518	13.2	565	15.9
B16 x 50			51	37.1	10.2	378	12.8	475	14.0	520	15.3	568	18.9
B16 x 65			64	30.3	12.8	388	16.0	485	17.6	533	19.2	582	24.9
B16 x 75			76	25.7	15.2	391	19.0	488	20.9	537	22.8	586	29.2
B16 x 90			89	21.7	17.8	386	22.3	484	24.5	531	26.7	579	34.5
B16 x 100			102	19.3	20.4	394	25.5	492	28.1	541	30.6	591	39.1
B16 x 300			305	7.1	61.0	433	76.3	542	83.9	596	91.5	650	104
B19 x 25	20	10	25	216	5.0	1080	6.3	1361	6.9	1485	7.5	1620	8.3
B19 x 32			32	168	6.4	1075	8.0	1344	8.8	1478	9.6	1613	10.9
B19 x 38			38	129	7.6	980	9.5	1226	10.5	1348	11.4	1471	12.5
B19 x 45			44	112	8.8	986	11.0	1232	12.1	1355	13.2	1478	15.0
B19 x 50			51	94	10.2	959	12.8	1203	14.0	1318	15.3	1438	17.6
B19 x 65			64	72.1	12.8	923	16.0	1154	17.6	1269	19.2	1384	22.6
B19 x 75			76	59.7	15.2	907	19.0	1134	20.9	1248	22.8	1361	27.5
B19 x 90			89	50.5	17.8	899	22.3	1126	24.5	1236	26.7	1348	31.7
B19 x 100			102	44.2	20.4	902	25.5	1127	28.1	1240	30.6	1353	37.5
B19 x 115			115	38.4	23.0	883	28.8	1106	31.6	1214	34.5	1325	42.6
B19 x 125			127	34.1	25.4	866	31.8	1084	34.9	1191	38.1	1299	45.5
B19 x 150			152	28.2	30.4	857	38.0	1072	41.8	1179	45.6	1286	55.8
B19 x 300	305	15	61.0	915	76.3	1145	83.9	1258	91.5	1373	114		
B26 x 32	25	12.5	32	297	6.4	1901	8.0	2376	8.8	2614	9.6	2851	11.0
B26 x 38			38	219	7.6	1664	9.5	2081	10.5	2289	11.4	2497	12.6
B26 x 45			44	187	8.8	1646	11.0	2057	12.1	2263	13.2	2468	14.8
B26 x 50			51	156	10.2	1591	12.8	1997	14.0	2188	15.3	2387	17.9
B26 x 65			64	123	12.8	1574	16.0	1968	17.6	2165	19.2	2362	23.1
B26 x 75	76	99.0	15.2	1505	19.0	1881	20.9	2069	22.8	2257	26.3		

重荷重

B 系列

Heavy Load Springs

ISO 10243

最大壓縮量為自由長的 30%

彈簧編號	模孔徑		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		密縮長 mm
	D _H mm	D _d mm			mm	N	mm	N	mm	N	mm	N	
B26 x 90	25	12.5	89	84.0	17.8	1495	22.3	1873	24.5	2056	26.7	2243	30.5
B26 x 100			102	73.0	20.4	1489	25.5	1862	28.1	2048	30.6	2234	37.3
B26 x 115			115	65.0	23.0	1495	28.8	1872	31.6	2056	34.5	2243	41.9
B26 x 125			127	57.7	25.4	1466	31.8	1835	34.9	2015	38.1	2198	46.2
B26 x 150			152	47.8	30.4	1453	38.0	1816	41.8	1998	45.6	2180	55.7
B26 x 175			178	41.0	35.6	1460	44.5	1825	49.0	2007	53.4	2189	65.1
B26 x 200			203	35.8	40.6	1453	50.8	1819	55.8	1999	60.9	2180	74.5
B26 x 300			305	22.9	61.0	1397	76.3	1747	83.9	1921	91.5	2095	110
B32 x 38	32	16	38	388	7.6	2949	9.5	3686	10.5	4055	11.4	4423	12.5
B32 x 45			44	324	8.8	2851	11.0	3564	12.1	3920	13.2	4277	14.9
B32 x 50			51	272	10.2	2774	12.8	3482	14.0	3815	15.3	4162	17.8
B32 x 65			64	212	12.8	2714	16.0	3392	17.6	3731	19.2	4070	22.4
B32 x 75			76	172	15.2	2614	19.0	3268	20.9	3595	22.8	3922	26.1
B32 x 90			89	141	17.8	2510	22.3	3144	24.5	3451	26.7	3765	30.8
B32 x 100			102	122	20.4	2489	25.5	3111	28.1	3422	30.6	3733	36.8
B32 x 115			115	107	23.0	2461	28.8	3082	31.6	3384	34.5	3692	41.4
B32 x 125			127	93	25.4	2362	31.8	2957	34.9	3248	38.1	3543	44.4
B32 x 150			152	78	30.4	2371	38.0	2964	41.8	3260	45.6	3557	54.8
B32 x 175			178	67.2	35.6	2392	44.5	2990	49.0	3289	53.4	3588	63.6
B32 x 200			203	59.1	40.6	2399	50.8	3002	55.8	3299	60.9	3599	72.5
B32 x 250			254	46.4	50.8	2357	63.5	2946	69.9	3241	76.2	3536	92.8
B32 x 300			305	38.0	61.0	2318	76.3	2899	83.9	3187	91.5	3477	112
B38 x 50	40	20	51	350	10.2	3570	12.8	4480	14.0	4909	15.3	5355	17.0
B38 x 65			64	269	12.8	3443	16.0	4304	17.6	4734	19.2	5165	21.9
B38 x 75			76	219	15.2	3329	19.0	4161	20.9	4577	22.8	4993	26.7
B38 x 90			89	190	17.8	3382	22.3	4237	24.5	4650	26.7	5073	31.3
B38 x 100			102	163	20.4	3325	25.5	4157	28.1	4572	30.6	4988	37.1
B38 x 115			115	142	23.0	3266	28.8	4090	31.6	4491	34.5	4899	41.0
B38 x 125			127	128	25.4	3251	31.8	4070	34.9	4470	38.1	4877	46.5
B38 x 150			152	105	30.4	3192	38.0	3990	41.8	4389	45.6	4788	56.1
B38 x 175			178	89	35.6	3168	44.5	3961	49.0	4357	53.4	4753	67.4
B38 x 200			203	77	40.6	3126	50.8	3912	55.8	4299	60.9	4689	76.2
B38 x 250			254	61	50.8	3099	63.5	3874	69.9	4261	76.2	4648	96.2
B38 x 300			305	51	61.0	3111	76.3	3891	83.9	4278	91.5	4667	115
B51 x 65			50	25	64	413	12.8	5286	16.0	6608	17.6	7269	19.2
B51 x 75	76	339			15.2	5153	19.0	6441	20.9	7085	22.8	7729	26.5
B51 x 90	89	288			17.8	5126	22.3	6422	24.5	7049	26.7	7690	31.5
B51 x 100	102	245			20.4	4998	25.5	6248	28.1	6872	30.6	7497	37.6
B51 x 115	115	215			23.0	4945	28.8	6192	31.6	6799	34.5	7418	42.7
B51 x 125	127	192			25.4	4877	31.8	6106	34.9	6706	38.1	7315	47.5
B51 x 150	152	154			30.4	4682	38.0	5852	41.8	6437	45.6	7022	57.8
B51 x 175	178	134			35.6	4770	44.5	5963	49.0	6559	53.4	7156	68.5
B51 x 200	203	117			40.6	4750	50.8	5944	55.8	6532	60.9	7125	77.6
B51 x 250	254	89			50.8	4521	63.5	5652	69.9	6217	76.2	6782	97.9
B51 x 300	305	73			61.0	4453	76.3	5570	83.9	6123	91.5	6680	121

極重荷重

G 系列

Extra-Heavy Load Springs

ISO 10243

最大壓縮量為自由長的 25%

彈簧編號	模孔徑		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		密縮長 mm
	D _H	D _d											
	mm	mm			mm	N	mm	N	mm	N	mm	N	
G10 x 25	10	5	25	36.8	4.3	158	5.0	184	5.6	207	6.3	232	7.7
G10 x 32			32	27.9	5.4	151	6.4	179	7.2	201	8.0	223	10.6
G10 x 38			38	23.7	6.5	154	7.6	180	8.6	203	9.5	225	12.6
G10 x 45			44	19.2	7.5	144	8.8	169	9.9	190	11.0	211	13.8
G10 x 50			51	16.5	8.7	144	10.2	168	11.5	189	12.8	211	16.2
G10 x 65			64	13.2	10.9	144	12.8	169	14.4	190	16.0	211	20.4
G10 x 75			76	10.9	12.9	141	15.2	166	17.1	186	19.0	207	25.2
G10 x 300			305	2.6	51.9	135	61.0	159	68.6	178	76.3	198	111
G13 x 25	12.5	6.3	25	58.5	4.3	252	5.0	293	5.6	329	6.3	369	8.1
G13 x 32			32	43.9	5.4	237	6.4	281	7.2	316	8.0	351	9.9
G13 x 38			38	36.0	6.5	234	7.6	274	8.6	308	9.5	342	12.9
G13 x 45			44	30.3	7.5	227	8.8	267	9.9	300	11.0	333	14.1
G13 x 50			51	26.2	8.7	228	10.2	267	11.5	301	12.8	335	17.4
G13 x 65			64	21.2	10.9	231	12.8	271	14.4	305	16.0	339	21.0
G13 x 75			76	17.1	12.9	221	15.2	260	17.1	292	19.0	325	26.4
G13 x 300			305	4.3	51.9	223	61.0	262	68.6	295	76.3	328	111
G16 x 25	16	8	25	118	4.3	507	5.0	590	5.6	664	6.3	743	8.5
G16 x 32			32	89	5.4	481	6.4	570	7.2	641	8.0	712	11.0
G16 x 38			38	72.1	6.5	469	7.6	548	8.6	616	9.5	685	13.2
G16 x 45			44	60.9	7.5	457	8.8	536	9.9	603	11.0	670	14.7
G16 x 50			51	52.3	8.7	455	10.2	533	11.5	600	12.8	669	17.7
G16 x 65			64	41.2	10.9	449	12.8	527	14.4	593	16.0	659	21.9
G16 x 75			76	34.1	12.9	440	15.2	518	17.1	583	19.0	648	27.8
G16 x 90			89	29.5	15.1	445	17.8	525	20.0	591	22.3	658	31.2
G16 x 100			102	25.6	17.3	443	20.4	522	23.0	588	25.5	653	37.9
G16 x 300			305	8.4	51.9	436	61.0	512	68.6	576	76.3	641	113
G19 x 25	20	10	25	293	4.3	1260	5.0	1465	5.6	1648	6.3	1846	6.9
G19 x 32			32	224	5.4	1210	6.4	1434	7.2	1613	8.0	1792	9.4
G19 x 38			38	177	6.5	1151	7.6	1345	8.6	1513	9.5	1682	12.0
G19 x 45			44	149	7.5	1118	8.8	1311	9.9	1475	11.0	1639	13.5
G19 x 50			51	128	8.7	1114	10.2	1306	11.5	1469	12.8	1638	16.2
G19 x 65			64	99	10.9	1079	12.8	1267	14.4	1426	16.0	1584	21.2
G19 x 75			76	81.7	12.9	1054	15.2	1242	17.1	1397	19.0	1552	24.7
G19 x 90			89	69.5	15.1	1049	17.8	1237	20.0	1392	22.3	1550	28.8
G19 x 100			102	60.6	17.3	1048	20.4	1236	23.0	1391	25.5	1545	34.8
G19 x 115			115	53.0	19.6	1039	23.0	1219	25.9	1371	28.8	1526	39.0
G19 x 125			127	47.5	21.6	1026	25.4	1207	28.6	1357	31.8	1511	43.0
G19 x 150			152	39.0	25.8	1006	30.4	1186	34.2	1334	38.0	1482	50.4
G19 x 300	305	21.2	51.9	1100	61.0	1293	68.6	1455	76.3	1618	104		
G26 x 32	25	12.5	32	374	5.4	2020	6.4	2394	7.2	2693	8.0	2992	10.7
G26 x 38			38	346	6.5	1950	7.6	2630	8.6	2580	9.5	3287	12.0
G26 x 45			44	244	7.5	1830	8.8	2147	9.9	2416	11.0	2684	14.4
G26 x 50			51	207.5	8.7	1810	10.2	2117	11.5	2392	12.8	2662	17.4
G26 x 65			64	161	10.9	1755	12.8	2061	14.4	2318	16.0	2576	21.4
G26 x 75	76	130.8	12.9	1690	15.2	1988	17.1	2237	19.0	2485	26.9		

極重荷重

G 系列

Extra-Heavy Load Springs

ISO 10243

最大壓縮量為自由長的 25%

彈簧編號	模孔徑		自由長	常數	壓縮 17% L ₀		壓縮 20% L ₀		壓縮 22.5% L ₀		壓縮 25% L ₀		密縮長
	D _H	D _d			L ₀	R	mm N		mm N		mm N		
	mm	mm	mm	N/mm ± 10%									mm
G26 x 90	25	12.5	89	110.5	15.1	1676	17.8	1967	20.0	2220	22.3	2475	30.9
G26 x 100			102	96.3	17.3	1666	20.4	1965	23.0	2210	25.5	2456	36.7
G26 x 115			115	85.7	19.6	1680	23.0	1971	25.9	2217	28.8	2468	40.3
G26 x 125			127	76.3	21.6	1648	25.4	1938	28.6	2180	31.8	2426	45.1
G26 x 150			152	63.5	25.8	1638	30.4	1930	34.2	2172	38.0	2413	53.5
G26 x 175			178	53.9	30.3	1633	35.6	1919	40.1	2159	44.5	2399	63.9
G26 x 200			203	47.0	34.5	1622	40.6	1908	45.7	2147	50.8	2388	70.2
G26 x 300			305	30.9	51.9	1604	61.0	1885	68.6	2121	76.3	2358	110
G32 x 38	32	16	38	528.2	6.5	3120	7.6	4014	8.6	4128	9.5	5018	11.4
G32 x 45			44	424.4	7.5	2925	8.8	3735	9.9	4202	11.0	4668	13.7
G32 x 50			51	353.0	8.7	2784	10.2	3601	11.5	3680	12.8	4096	15.6
G32 x 65			64	269.2	10.9	2934	12.8	3446	14.4	3876	16.0	4307	20.0
G32 x 75			76	218.5	12.9	2835	15.2	3321	17.1	3736	19.0	4152	24.4
G32 x 90			89	180.3	15.1	2728	17.8	3209	20.0	3611	22.3	4021	29.7
G32 x 100			102	155	17.3	2682	20.4	3162	23.0	3557	25.5	3953	35.1
G32 x 115			115	140	19.6	2744	23.0	3220	25.9	3623	28.8	4032	39.0
G32 x 125			127	124	21.6	2678	25.4	3150	28.6	3543	31.8	3943	42.8
G32 x 150			152	102	25.8	2632	30.4	3101	34.2	3488	38.0	3876	52.4
G32 x 175			178	88.2	30.3	2672	35.6	3140	40.1	3532	44.5	3925	60.9
G32 x 200			203	76.0	34.5	2622	40.6	3086	45.7	3471	50.8	3861	69.2
G32 x 250			254	60.8	43.2	2627	50.8	3089	57.2	3475	63.5	3861	88.1
G32 x 300			305	49.0	51.9	2543	61.0	2989	68.6	3363	76.3	3739	104
G38 x 50	40	20	51	628	8.7	5464	10.2	6406	11.5	7206	12.8	8038	15.0
G38 x 65			64	487	10.9	5308	12.8	6234	14.4	7013	16.0	7792	19.5
G38 x 75			76	379	12.9	4889	15.2	5761	17.1	6481	19.0	7201	23.3
G38 x 90			89	321	15.1	4847	17.8	5714	20.0	6428	22.3	7142	26.7
G38 x 100			102	281	17.3	4861	20.4	5732	23.0	6449	25.5	7166	33.8
G38 x 115			115	245	19.6	4802	23.0	5635	25.9	6339	28.8	7056	36.2
G38 x 125			127	221	21.6	4774	25.4	5613	28.6	6315	31.8	7028	40.7
G38 x 150			152	168	25.8	4334	30.4	5107	34.2	5746	38.0	6384	49.6
G38 x 175			178	146	30.3	4424	35.6	5198	40.1	5847	44.5	6497	59.9
G38 x 200			203	132	34.5	4554	40.6	5359	45.7	6029	50.8	6706	67.1
G38 x 250			254	107	43.2	4622	50.8	5436	57.2	6115	63.5	6795	86.3
G38 x 300			305	87.8	51.9	4557	61.0	5356	68.6	6025	76.3	6699	104
G51 x 65			50	25	64	709	10.9	7728	12.8	9075	14.4	10210	16.0
G51 x 75	76	572			12.9	7379	15.2	8694	17.1	9781	19.0	10868	24.2
G51 x 90	89	475			15.1	7173	17.8	8455	20.0	9512	22.3	10593	28.0
G51 x 100	102	405			17.3	7007	20.4	8262	23.0	9295	25.5	10328	33.5
G51 x 115	115	352			19.6	6899	23.0	8096	25.9	9108	28.8	10138	38.6
G51 x 125	127	316			21.6	6826	25.4	8026	28.6	9030	31.8	10049	41.4
G51 x 150	152	239			25.8	6166	30.4	7266	34.2	8174	38.0	9082	50.2
G51 x 175	178	215			30.3	6515	35.6	7654	40.1	8611	44.5	9568	61.1
G51 x 200	203	187			34.5	6452	40.6	7592	45.7	8541	50.8	9500	67.7
G51 x 250	254	153			43.2	6610	50.8	7772	57.2	8744	63.5	9716	87.0
G51 x 300	305	127			51.9	6591	61.0	7747	68.6	8715	76.3	9690	104

輕少荷重

TF 系列

Lightest Load Springs

JIS B 5012

最大壓縮量為自由長的 58%

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 40 % L ₀	壓 縮 45 % L ₀	壓 縮 50 % L ₀	密 縮 長	
	D _o	D _i	L ₀	R					
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%					
TF20 x 25	20	11	25	2.56	10.0		11.2	12.5	14.5
TF20 x 30			30	2.13	12.0		13.5	15.0	17.4
TF20 x 35			35	1.83	14.0		15.7	17.5	20.3
TF20 x 40			40	1.60	16.0		18.0	20.0	23.2
TF20 x 45			45	1.42	18.0		20.2	22.5	26.1
TF20 x 50			50	1.28	20.0	26	22.5	25.0	29.0
TF20 x 60			60	1.07	24.0	(255)	27.0	30.0	34.8
TF20 x 70			70	0.91	28.0		31.5	35.0	40.6
TF20 x 80			80	0.80	32.0		36.0	40.0	46.4
TF20 x 90			90	0.71	36.0		40.5	45.0	52.2
TF20 x 100			100	0.64	40.0		45.0	50.0	58.0
TF20 x 125			125	0.51	50.0		56.2	62.5	72.5
TF20 x 150			150	0.43	60.0		67.5	75.0	87.0
TF25 x 30	25	13.5	30	3.33	12.0		13.5	15.0	17.4
TF25 x 40			40	2.50	16.0		18.0	20.0	23.2
TF25 x 50			50	2.00	20.0		22.5	25.0	29.0
TF25 x 60			60	1.67	24.0	40	27.0	30.0	34.8
TF25 x 70			70	1.43	28.0	(392)	31.5	35.0	40.6
TF25 x 80			80	1.25	32.0		36.0	40.0	46.4
TF25 x 90			90	1.11	36.0		40.5	45.0	52.2
TF25 x 100			100	1.00	40.0		45.0	50.0	58.0
TF25 x 125			125	0.80	50.0		56.2	62.5	72.5
TF25 x 150			150	0.67	60.0		67.5	75.0	87.0
TF30 x 30	30	16	30	4.80	12.0		13.5	15.0	17.4
TF30 x 40			40	3.60	16.0		18.0	20.0	23.2
TF30 x 50			50	2.88	20.0		22.5	25.0	29.0
TF30 x 60			60	2.40	24.0		27.0	30.0	34.8
TF30 x 70			70	2.05	28.0	58	31.5	35.0	40.6
TF30 x 80			80	1.80	32.0	(569)	36.0	40.0	46.4
TF30 x 90			90	1.60	36.0		40.5	45.0	52.2
TF30 x 100			100	1.44	40.0		45.0	50.0	58.0
TF30 x 125			125	1.15	50.0		56.2	62.5	72.5
TF30 x 150			150	0.96	60.0		67.5	75.0	87.0
TF30 x 175			175	0.82	70.0		78.7	87.5	101.5
TFR35 x 40	35	21	40	4.90	16.0		18.0	20.0	23.2
TFR35 x 50			50	3.92	20.0		22.5	25.0	29.0
TFR35 x 60			60	3.26	24.0		27.0	30.0	34.8
TFR35 x 70			70	2.80	28.0		31.5	35.0	40.6
TFR35 x 80			80	2.45	32.0	78	36.0	40.0	46.4
TFR35 x 90			90	2.17	36.0	(769)	40.5	45.0	52.2
TFR35 x 100			100	1.96	40.0		45.0	50.0	58.0
TFR35 x 125			125	1.57	50.0		56.2	62.5	72.5
TFR35 x 150			150	1.30	60.0		67.5	75.0	87.0
TFR35 x 175			175	1.12	70.0		78.7	87.5	101.5
TFR35 x 200	200	0.98	80.0		90.0	100.0	116.0		

輕少荷重

TF 系列

Lightest Load Springs

JIS B 5012

最大壓縮量為自由長的 58%

彈簧編號	外徑	內徑	自由長	常數	壓縮 40 % L ₀	壓縮 45 % L ₀	壓縮 50 % L ₀	壓縮長			
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm Kgf (N)	mm Kgf (N)	mm Kgf (N)	mm			
				± 10%							
TFR40 x 50	40	26	50	3.20	20.0		22.5	25.0	29.0		
TFR40 x 60			60	2.60	24.0		27.0	30.0	34.8		
TFR40 x 70			70	2.35	28.0		31.5	35.0	40.6		
TFR40 x 80			80	2.05	32.0		36.0	40.0	46.4		
TFR40 x 90			90	1.80	36.0	52	40.5	58.5	45.0	65	52.2
TFR40 x 100			100	1.50	40.0	(510)	45.0	(574)	50.0	(637)	58.0
TFR40 x 125			125	1.15	50.0		56.25		62.5		72.5
TFR40 x 150			150	0.90	60.0		67.5		75.0		87.0
TFR40 x 175			175	0.75	70.0		78.75		87.5		101.5
TFR40 x 200			200	0.60	80.0		90.0		100.0		116.0
TFR40 x 250			250	0.40	100.0		112.5		125.0		145.0
TFR50 x 60			50	31	60	4.50	24.0		27.0	30.0	34.8
TFR50 x 70	70	3.60			28.0		31.5	35.0	40.6		
TFR50 x 80	80	3.00			32.0		36.0	40.0	46.4		
TFR50 x 90	90	2.65			36.0		40.5	45.0	52.2		
TFR50 x 100	100	2.40			40.0	99	45.0	111	50.0	123.3	58.0
TFR50 x 125	125	1.90			50.0	(970.2)	56.25	(1092)	62.5	(1212)	72.5
TFR50 x 150	150	1.55			60.0		67.5		75.0		87.0
TFR50 x 175	175	1.30			70.0		78.75		87.5		101.5
TFR50 x 200	200	1.10			80.0		90.0		100.0		116.0
TFR50 x 250	250	0.90			100.0		112.5		125.0		145.0
TFR50 x 300	300	0.75			120.0		135.0		150.0		174.0
TF50 x 150	50	27.5			150	2.66	60.0		67.5	75.0	87.0
TF50 x 175			175	2.28	70.0	160	78.75	180	87.5	200	101.5
TF50 x 200			200	2.00	80.0	(1569)	90.0	(1765)	100.0	(1961)	116.0
TF50 x 250			250	1.60	100.0		112.5		125.0		145.0
TF50 x 300			300	1.33	120.0		135.0		150.0		174.0
TFR60 x 90	60	36	90	4.20	36.0		40.5	45.0	52.2		
TFR60 x 100			100	3.10	40.0		45.0	50.0	58.0		
TFR60 x 125			125	2.35	50.0	148.8	56.3	167.4	62.5	186	72.5
TFR60 x 150			150	2.10	60.0	(1459)	67.5	(1641)	75.0	(1823)	87.0
TFR60 x 175			175	1.90	70.0		78.75		87.5		101.5
TFR60 x 200			200	1.60	80.0		90.0		100.0		116.0
TFR60 x 250			250	1.30	100.0		112.5		125.0		145.0
TFR60 x 300			300	1.00	120.0		135.0		150.0		174.0
TF60 x 150	60	33	150	3.84	60.0		67.5	75.0	87.0		
TF60 x 175			175	3.29	70.0	230	78.75	259	87.5	288	101.5
TF60 x 200			200	2.88	80.0	(2260)	90.0	(2540)	100.0	(2820)	116.0
TF60 x 250			250	2.30	100.0		112.5		125.0		145.0
TF60 x 300			300	1.92	120.0		135.0		150.0		174.0

輕荷重

TL 系列

Light Load Springs

JIS B 5012

最大壓縮量為自由長的 48%

彈簧編號	外徑	內徑	自由長	常數	壓縮 32 % L ₀	壓縮 36 % L ₀	壓縮 40 % L ₀	密縮長	
	D _o	D _i	L ₀	R					
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%					
TL20 x 25	20	10	25	5.40	8.0	9.0	10.0	12.0	
TL20 x 30			30	4.50	9.6	10.8	12.0	14.4	
TL20 x 35			35	3.86	11.2	12.6	14.0	16.8	
TL20 x 40			40	3.38	12.8	14.4	16.0	19.2	
TL20 x 45			45	3.00	14.4	16.2	18.0	21.6	
TL20 x 50			50	2.70	16.0	18.0	20.0	24.0	
TL20 x 60			60	2.25	19.2	21.6	24.0	28.8	
TL20 x 70			70	1.93	22.4	25.2	28.0	33.6	
TL20 x 80			80	1.69	25.6	28.8	32.0	38.4	
TL20 x 90			90	1.50	28.8	32.4	36.0	43.2	
TL20 x 100			100	1.35	32.0	36.0	40.0	48.0	
TL20 x 125			125	1.08	40.0	45.0	50.0	60.0	
TL25 x 30	25	12.5	30	7.00	9.6	10.8	12.0	14.4	
TL25 x 35			35	6.00	11.2	12.6	14.0	16.8	
TL25 x 40			40	5.25	12.8	14.4	16.0	19.2	
TL25 x 45			45	4.67	14.4	16.2	18.0	21.6	
TL25 x 50			50	4.20	16.0	18.0	20.0	24.0	
TL25 x 60			60	3.50	19.2	21.6	24.0	28.8	
TL25 x 70			70	3.00	22.4	25.2	28.0	33.6	
TL25 x 80			80	2.63	25.6	28.8	32.0	38.4	
TL25 x 90			90	2.33	28.8	32.4	36.0	43.2	
TL25 x 100			100	2.10	32.0	36.0	40.0	48.0	
TL25 x 125			125	1.68	40.0	45.0	50.0	60.0	
TL25 x 150			150	1.40	48.0	54.0	60.0	72.0	
TLR30 x 25	30	16	25	12.11	8.0	9.0	10.0	12.0	
TLR30 x 30			30	10.08	9.6	10.8	12.0	14.4	
TLR30 x 35			35	8.65	11.2	12.6	14.0	16.8	
TLR30 x 40			40	7.56	12.8	14.4	16.0	19.2	
TLR30 x 45			45	6.73	14.4	16.2	18.0	21.6	
TLR30 x 50			50	6.05	16.0	18.0	20.0	24.0	
TLR30 x 55			55	5.50	17.6	19.8	22.0	26.4	
TLR30 x 60			60	5.04	19.2	21.6	24.0	28.8	
TLR30 x 65			65	4.65	20.8	23.4	26.0	31.2	
TLR30 x 70			70	4.32	22.4	25.2	28.0	33.6	
TLR30 x 75			75	4.03	24.0	27.0	30.0	36.0	
TLR30 x 80			80	3.78	25.6	28.8	32.0	38.4	
TLR30 x 90			90	3.36	28.8	32.4	36.0	43.2	
TLR30 x 100			100	3.02	32.0	36.0	40.0	48.0	
TLR30 x 125			125	2.42	40.0	45.0	50.0	60.0	
TLR30 x 150	150	2.01	48.0	54.0	60.0	72.0			
TLR35 x 40	35	20.5	40	9.15	12.8	14.4	16.0	19.2	
TLR35 x 45			45	8.42	14.4	16.2	18.0	21.6	
TLR35 x 50			50	7.85	16.0	18.0	20.0	24.0	
TLR35 x 60			60	6.70	19.2	21.6	24.0	28.8	
TLR35 x 70			70	5.45	22.4	25.2	28.0	33.6	
TLR35 x 80			80	4.90	25.6	28.8	32.0	38.4	

輕荷重

TL 系列

Light Load Springs

JIS B 5012

最大壓縮量為自由長的 48%

彈簧編號	外徑	內徑	自由長	常數	壓縮 32 % L ₀		壓縮 36 % L ₀		壓縮 40 % L ₀		密縮長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TLR35 x 90	35	20.5	90	4.20	28.8		32.4		36.0		43.2
TLR35 x 100			100	3.75	32.0		36.0		40.0		48.0
TLR35 x 125			125	3.00	40.0	114.6	45.0	128.9	50.0	143.2	60.0
TLR35 x 150			150	2.40	48.0	(1123)	54.0	(1263)	60.0	(1403)	72.0
TLR35 x 175			175	2.20	56.0		63.0		70.0		84.0
TLR35 x 200			200	1.80	64.0		72.0		80.0		96.0
TLR40 x 50	40	25.5	50	7.75	16.0		18.0		20.0		24.0
TLR40 x 60			60	6.20	19.2		21.6		24.0		28.8
TLR40 x 70			70	5.00	22.4		25.2		28.0		33.6
TLR40 x 80			80	4.35	25.6		28.8		32.0		38.4
TLR40 x 90			90	3.85	28.8	111.5	32.4	125.5	36.0	139.4	43.2
TLR40 x 100			100	3.50	32.0	(1093)	36.0	(1230)	40.0	(1366)	48.0
TLR40 x 125			125	2.80	40.0		45.0		50.0		60.0
TLR40 x 150			150	2.25	48.0		54.0		60.0		72.0
TLR40 x 175			175	1.95	56.0		63.0		70.0		84.0
TLR40 x 200			200	1.65	64.0		72.0		80.0		96.0
TLR40 x 250			250	1.50	80.0		90.0		100.0		120.0
TLR50 x 50			50	30.5	50	11.90	16.0		18.0		20.0
TLR50 x 60	60	10.60			19.2		21.6		24.0		28.8
TLR50 x 70	70	9.00			22.4		25.2		28.0		33.6
TLR50 x 80	80	7.65			25.6		28.8		32.0		38.4
TLR50 x 90	90	6.75			28.8	200.8	32.4	225.9	36.0	251	43.2
TLR50 x 100	100	5.85			32.0	(1968)	36.0	(2214)	40.0	(2460)	48.0
TLR50 x 125	125	4.90			40.0		45.0		50.0		60.0
TLR50 x 150	150	3.55			48.0		54.0		60.0		72.0
TLR50 x 175	175	3.00			56.0		63.0		70.0		84.0
TLR50 x 200	200	2.65			64.0		72.0		80.0		96.0
TLR50 x 250	250	2.40			80.0		90.0		100.0		120.0
TLR50 x 300	300	2.20			96.0		108.0		120.0		144.0
TL50 x 60	50	25	60	14.08	19.2		21.6		24.0		28.8
TL50 x 70			70	12.07	22.4		25.2		28.0		33.6
TL50 x 80			80	10.56	25.6		28.8		32.0		38.4
TL50 x 90			90	9.38	28.8		32.4		36.0		43.2
TL50 x 100			100	8.45	32.0	270	36.0	304	40.0	338	48.0
TL50 x 125			125	6.76	40.0	(2650)	45.0	(2980)	50.0	(3310)	60.0
TL50 x 150			150	5.63	48.0		54.0		60.0		72.0
TL50 x 175			175	4.82	56.0		63.0		70.0		84.0
TL50 x 200			200	4.22	64.0		72.0		80.0		96.0
TL50 x 250			250	3.38	80.0		90.0		100.0		120.0
TL50 x 300			300	2.81	96.0		108.0		120.0		144.0
TLR60 x 60	60	35.5	60	16.80	19.2		21.6		24.0		28.8
TLR60 x 70			70	14.40	22.4	310.1	25.2	384.8	28.0	387.6	33.6
TLR60 x 80			80	12.10	25.6	(3039)	28.8	(3771)	32.0	(3799)	38.4
TLR60 x 90			90	10.65	28.8		32.4		36.0		43.2

輕荷重

TL 系列

Light Load Springs

JIS B 5012

最大壓縮量為自由長的 48%

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 32 % L ₀	壓 縮 36 % L ₀	壓 縮 40 % L ₀	密 縮 長			
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm ± 10%	mm	Kgf (N)	mm	Kgf (N)	mm		
TLR60 x 100	60	35.5	100	9.80	32.0	310.1 (3039)	36.0	384.8 (3771)	40.0	387.6 (3799)	48.0
TLR60 x 125			125	8.50	40.0		45.0		50.0		60.0
TLR60 x 150			150	6.80	48.0		54.0		60.0		72.0
TLR60 x 175			175	6.00	56.0		63.0		70.0		84.0
TLR60 x 200			200	5.20	64.0		72.0		80.0		96.0
TLR60 x 250			250	3.90	80.0		90.0		100.0		120.0
TLR60 x 300			300	3.10	96.0		108.0		120.0		144.0
TL60 x 90	60	30	90	13.50	28.8	389 (3810)	32.4	437 (4290)	36.0	486 (4770)	43.2
TL60 x 100			100	12.15	32.0		36.0		40.0		48.0
TL60 x 125			125	9.72	40.0		45.0		50.0		60.0
TL60 x 150			150	8.10	48.0		54.0		60.0		72.0
TL60 x 175			175	6.94	56.0		63.0		70.0		84.0
TL60 x 200			200	6.07	64.0		72.0		80.0		96.0
TL60 x 250			250	4.86	80.0		90.0		100.0		120.0
TL60 x 300			300	4.05	96.0		108.0		120.0		144.0

中荷重

TM 系列

Medium Load Springs

JIS B 5012

最大壓縮量為自由長的 38%

彈簧編號	外徑	內徑	自由長	常數	壓縮 25.6 % L ₀		壓縮 28.8 % L ₀		壓縮 32 % L ₀		密縮長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TM10 x 20	10	5	20	3.13	5.1		5.8		6.4		7.6
TM10 x 25			25	2.50	6.4		7.2		8.0		9.5
TM10 x 30			30	2.08	7.7		8.6		9.6		11.4
TM10 x 35			35	1.78	9.0	16	10.1	18	11.2	20	13.3
TM10 x 40			40	1.56	10.2	(157)	11.5	(176)	12.8	(196)	15.2
TM10 x 45			45	1.38	11.5		13.0		14.4		17.1
TM10 x 50			50	1.25	12.8		14.4		16.0		19.0
TM10 x 55			55	1.13	14.1		15.8		17.6		20.9
TM10 x 60			60	1.04	15.4		17.3		19.2		22.8
TM12 x 20			12	6	20	4.53	5.1		5.8		6.4
TM12 x 25	25	3.62			6.4		7.2		8.0		9.5
TM12 x 30	30	3.02			7.7		8.6		9.6		11.4
TM12 x 35	35	2.58			9.0	23	10.1	26	11.2	29	13.3
TM12 x 40	40	2.27			10.2	(226)	11.5	(255)	12.8	(284)	15.2
TM12 x 45	45	2.01			11.5		13.0		14.4		17.1
TM12 x 50	50	1.81			12.8		14.4		16.0		19.0
TM12 x 55	55	1.64			14.1		15.8		17.6		20.9
TM12 x 60	60	1.51			15.4		17.3		19.2		22.8
TM14 x 25	14	7			25	4.87	6.4		7.2		8.0
TM14 x 30			30	4.06	7.7		8.6		9.6		11.4
TM14 x 35			35	3.48	9.0		10.1		11.2		13.3
TM14 x 40			40	3.04	10.2	31	11.5	35	12.8	39	15.2
TM14 x 45			45	2.70	11.5	(304)	13.0	(343)	14.4	(383)	17.1
TM14 x 50			50	2.43	12.8		14.4		16.0		19.0
TM14 x 55			55	2.21	14.1		15.8		17.6		20.9
TM14 x 60			60	2.03	15.4		17.3		19.2		22.8
TM14 x 65			65	1.87	16.6		18.7		20.8		24.7
TM14 x 70			70	1.74	17.9		20.2		22.4		26.6
TM16 x 25	16	8	25	6.39	6.4		7.2		8.0		9.5
TM16 x 30			30	5.32	7.7		8.6		9.6		11.4
TM16 x 35			35	4.55	9.0		10.1		11.2		13.3
TM16 x 40			40	3.98	10.2		11.5		12.8		15.2
TM16 x 45			45	3.54	11.5	41	13.0	46	14.4	51	17.1
TM16 x 50			50	3.18	12.8	(402)	14.4	(451)	16.0	(500)	19.0
TM16 x 55			55	2.89	14.1		15.8		17.6		20.9
TM16 x 60			60	2.65	15.4		17.3		19.2		22.8
TM16 x 65			65	2.45	16.6		18.7		20.8		24.7
TM16 x 70			70	2.27	17.9		20.2		22.4		26.6
TM16 x 75			75	2.11	19.2		21.6		24.0		28.5
TM16 x 80			80	1.99	20.5		23.0		25.6		30.4
TM18 x 25			18	9	25	8.12	6.4		7.2		8.0
TM18 x 30	30	6.77			7.7	52	8.6	58	9.6	65	11.4
TM18 x 35	35	5.80			9.0	(510)	10.1	(569)	11.2	(637)	13.3
TM18 x 40	40	5.07			10.2		11.5		12.8		15.2
TM18 x 45	45	4.51			11.5		13.0		14.4		17.1

中荷重

TM 系列

Medium Load Springs

JIS B 5012

最大壓縮量為自由長的 38%

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 25.6 % L ₀		壓 縮 28.8 % L ₀		壓 縮 32 % L ₀		密 縮 長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm ± 10%	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	
TM18 x 50	18	9	50	4.06	12.8		14.4		16.0		19.0
TM18 x 60			60	3.38	15.4		17.3		19.2		22.8
TM18 x 65			65	3.12	16.6	52	18.7	58	20.8	65	24.7
TM18 x 70			70	2.90	17.9	(510)	20.2	(569)	22.4	(637)	26.6
TM18 x 75			75	2.70	19.2		21.6		24.0		28.5
TM18 x 80			80	2.53	20.5		23.0		25.6		30.4
TM18 x 90			90	2.25	23.0		25.9		28.8		34.2
TM20 x 25	20	10	25	10.00	6.4		7.2		8.0		9.5
TM20 x 30			30	8.33	7.7		8.6		9.6		11.4
TM20 x 35			35	7.14	9.0		10.1		11.2		13.3
TM20 x 40			40	6.25	10.2		11.5		12.8		15.2
TM20 x 45			45	5.55	11.5		13.0		14.4		17.1
TM20 x 50			50	5.00	12.8	64	14.4	72	16.0	80	19.0
TM20 x 55			55	4.54	14.1	(628)	15.8	(706)	17.6	(785)	20.9
TM20 x 60			60	4.16	15.4		17.3		19.2		22.8
TM20 x 65			65	3.84	16.6		18.7		20.8		24.7
TM20 x 70			70	3.57	17.9		20.2		22.4		26.6
TM20 x 75			75	3.33	19.2		21.6		24.0		28.5
TM20 x 80			80	3.12	20.5		23.0		25.6		30.4
TM20 x 90			90	2.77	23.0		25.9		28.8		34.2
TM20 x 100	100	2.50	25.6		28.8		32.0		38.0		
TM22 x 25	22	11	25	12.13	6.4		7.2		8.0		9.5
TM22 x 30			30	10.10	7.7		8.6		9.6		11.4
TM22 x 35			35	8.65	9.0		10.1		11.2		13.3
TM22 x 40			40	7.57	10.2		11.5		12.8		15.2
TM22 x 45			45	6.74	11.5		13.0		14.4		17.1
TM22 x 50			50	6.06	12.8		14.4		16.0		19.0
TM22 x 55			55	5.50	14.1	78	15.8	87	17.6	97	20.9
TM22 x 60			60	5.05	15.4	(765)	17.3	(853)	19.2	(951)	22.8
TM22 x 65			65	4.66	16.6		18.7		20.8		24.7
TM22 x 70			70	4.33	17.9		20.2		22.4		26.6
TM22 x 75			75	4.04	19.2		21.6		24.0		28.5
TM22 x 80			80	3.78	20.5		23.0		25.6		30.4
TM22 x 90			90	3.36	23.0		25.9		28.8		34.2
TM22 x 100			100	3.03	25.6		28.8		32.0		38.0
TM22 x 125			125	2.42	32.0		36.0		40.0		47.5
TM25 x 25	25	12.5	25	15.63	6.4		7.2		8.0		9.5
TM25 x 30			30	13.02	7.7		8.6		9.6		11.4
TM25 x 35			35	11.20	9.0		10.1		11.2		13.3
TM25 x 40			40	9.76	10.2		11.5		12.8		15.2
TM25 x 45			45	8.68	11.5	100	13.0	112	14.4	125	17.1
TM25 x 50			50	7.81	12.8	(981)	14.4	(1098)	16.0	(1226)	19.0
TM25 x 55			55	7.10	14.1		15.8		17.6		20.9
TM25 x 60			60	6.51	15.4		17.3		19.2		22.8
TM25 x 65			65	6.00	16.6		18.7		20.8		24.7
TM25 x 70			70	5.58	17.9		20.2		22.4		26.6

中荷重

TM 系列

Medium Load Springs

JIS B 5012

最大壓縮量為自由長的 38%

彈簧編號	外徑	內徑	自由長	常數	壓縮 25.6 % L ₀		壓縮 28.8 % L ₀		壓縮 32 % L ₀		密縮長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TM25 x 80	25	12.5	80	4.88	20.5		23.0		25.6		30.4
TM25 x 90			90	4.34	23.0	100	25.9	112	28.8	125	34.2
TM25 x 100			100	3.90	25.6	(981)	28.8	(1098)	32.0	(1226)	38.0
TM25 x 125			125	3.12	32.0		36.0		40.0		47.5
TM27 x 25	27	13.5	25	18.25	6.4		7.2		8.0		9.5
TM27 x 30			30	15.20	7.7		8.6		9.6		11.4
TM27 x 35			35	13.04	9.0		10.1		11.2		13.3
TM27 x 40			40	11.40	10.2		11.5		12.8		15.2
TM27 x 45			45	10.14	11.5		13.0		14.4		17.1
TM27 x 50			50	9.12	12.8		14.4		16.0		19.0
TM27 x 55			55	8.30	14.1	117	15.8	131	17.6	146	20.9
TM27 x 60			60	7.60	15.4	(1147)	17.3	(1285)	19.2	(1432)	22.8
TM27 x 65			65	7.00	16.6		18.7		20.8		24.7
TM27 x 70			70	6.51	17.9		20.2		22.4		26.6
TM27 x 75			75	6.08	19.2		21.6		24.0		28.5
TM27 x 80			80	5.70	20.5		23.0		25.6		30.4
TM27 x 90			90	5.06	23.0		25.9		28.8		34.2
TM27 x 100			100	4.56	25.6		28.8		32.0		38.0
TM27 x 125	125	3.65	32.0		36.0		40.0		47.5		
TM27 x 150	150	3.04	38.4		43.2		48.0		57.0		
TM30 x 25	30	15	25	22.25	6.4		7.2		8.0		9.5
TM30 x 30			30	18.75	7.7		8.6		9.6		11.4
TM30 x 35			35	16.10	9.0		10.1		11.2		13.3
TM30 x 40			40	14.06	10.2		11.5		12.8		15.2
TM30 x 45			45	12.50	11.5		13.0		14.4		17.1
TM30 x 50			50	11.25	12.8		14.4		16.0		19.0
TM30 x 55			55	10.23	14.1		15.8		17.6		20.9
TM30 x 60			60	9.37	15.4	144	17.3	161	19.2	180	22.8
TM30 x 65			65	8.65	16.6	(1412)	18.7	(1579)	20.8	(1765)	24.7
TM30 x 70			70	8.03	17.9		20.2		22.4		26.6
TM30 x 75			75	7.50	19.2		21.6		24.0		28.5
TM30 x 80			80	7.03	20.5		23.0		25.6		30.4
TM30 x 90			90	6.25	23.0		25.9		28.8		34.2
TM30 x 100			100	5.62	25.6		28.8		32.0		38.0
TM30 x 125	125	4.50	32.0		36.0		40.0		47.5		
TM30 x 150	150	3.75	38.4		43.2		48.0		57.0		
TM30 x 175	175	3.21	44.8		50.4		56.0		66.5		
TM35 x 40	35	17.5	40	19.14	10.2		11.5		12.8		15.2
TM35 x 45			45	17.01	11.5		13.0		14.4		17.1
TM35 x 50			50	15.31	12.8		14.4		16.0		19.0
TM35 x 55			55	13.92	14.1	195	15.8	220	17.6	245	20.9
TM35 x 60			60	12.76	15.4	(1912)	17.3	(2160)	19.2	(2400)	22.8
TM35 x 65			65	11.77	16.6		18.7		20.8		24.7
TM35 x 70			70	10.93	17.9		20.2		22.4		26.6
TM35 x 75			75	10.20	19.2		21.6		24.0		28.5
TM35 x 80	80	9.57	20.5		23.0		25.6		30.4		

中荷重

TM 系列

Medium Load Springs

JIS B 5012

最大壓縮量為自由長的 38%

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 25.6 % L ₀		壓 縮 28.8 % L ₀		壓 縮 32 % L ₀		密 縮 長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TM35 x 100	35	17.5	100	7.65	25.6		28.8		32.0		38.0
TM35 x 125			125	6.12	32.0	195	36.0	220	40.0	245	47.5
TM35 x 150			150	5.10	38.4	(1912)	43.2	(2160)	48.0	(2400)	57.0
TM35 x 175			175	4.37	44.8		50.4		56.0		66.5
TM35 x 200			200	3.82	51.2		57.6		64.0		76.0
TM40 x 50	40	20	50	20.00	12.8		14.4		16.0		19.0
TM40 x 60			60	16.60	15.4		17.3		19.2		22.8
TM40 x 70			70	14.28	17.9		20.2		22.4		26.6
TM40 x 80			80	12.50	20.5		23.0		25.6		30.4
TM40 x 90			90	11.11	23.0	256	25.9	288	28.8	320	34.2
TM40 x 100			100	10.00	25.6	(2510)	28.8	(2820)	32.0	(3140)	38.0
TM40 x 125			125	8.00	32.0		36.0		40.0		47.5
TM40 x 150			150	6.66	38.4		43.2		48.0		57.0
TM40 x 175			175	5.71	44.8		50.4		56.0		66.5
TM40 x 200			200	5.00	51.2		57.6		64.0		76.0
TM40 x 250	250	4.00	64.0		72.0		80.0		95.0		
TM50 x 60	50	25	60	26.04	15.4		17.3		19.2		22.8
TM50 x 70			70	22.32	17.9		20.2		22.4		26.6
TM50 x 80			80	19.53	20.5		23.0		25.6		30.4
TM50 x 90			90	17.36	23.0		25.9		28.8		34.2
TM50 x 100			100	15.62	25.6	400	28.8	450	32.0	500	38.0
TM50 x 125			125	12.50	32.0	(3920)	36.0	(4410)	40.0	(4900)	47.5
TM50 x 150			150	10.41	38.4		43.2		48.0		57.0
TM50 x 175			175	8.92	44.8		50.4		56.0		66.5
TM50 x 200			200	7.81	51.2		57.6		64.0		76.0
TM50 x 250			250	6.25	64.0		72.0		80.0		95.0
TM50 x 300	300	5.20	76.8		86.4		96.0		114.0		
TM60 x 70	60	30	70	32.10	17.9		20.2		22.4		26.6
TM60 x 80			80	28.12	20.5		23.0		25.6		30.4
TM60 x 90			90	25.00	23.0		25.9		28.8		34.2
TM60 x 100			100	22.50	25.6	575	28.8	648	32.0	720	38.0
TM60 x 125			125	18.00	32.0	(5640)	36.0	(6350)	40.0	(7060)	47.5
TM60 x 150			150	15.00	38.4		43.2		48.0		57.0
TM60 x 175			175	12.85	44.8		50.4		56.0		66.5
TM60 x 200			200	11.25	51.2		57.6		64.0		76.0
TM60 x 250			250	9.00	64.0		72.0		80.0		95.0
TM60 x 300			300	7.50	76.8		86.4		96.0		114.0

重荷重

TH 系列

Heavy Load Springs

JIS B 5012

最大壓縮量為自由長的 28%

彈簧編號	外徑	內徑	自由長	常數	壓縮 19.2 % L ₀		壓縮 21.6 % L ₀		壓縮 24 % L ₀		密縮長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TH10 x 20	10	5	20	6.25	3.8	24 (235)	4.3	27 (265)	4.8	30 (294)	5.6
TH10 x 25			25	5.00	4.8		5.4		6.0		7.0
TH10 x 30			30	4.16	5.8		6.5		7.2		8.4
TH10 x 35			35	3.57	6.7		7.5		8.4		9.8
TH10 x 40			40	3.15	7.7		8.6		9.6		11.2
TH10 x 45			45	2.77	8.6		9.7		10.8		12.6
TH10 x 50			50	2.50	9.6		10.8		12.0		14.0
TH10 x 55			55	2.27	10.6		11.8		13.2		15.4
TH10 x 60			60	2.08	11.5		13.0		14.4		16.8
TH12 x 20	12	6	20	8.90	3.8	34 (333)	4.3	38 (373)	4.8	43 (422)	5.6
TH12 x 25			25	7.10	4.8		5.4		6.0		7.0
TH12 x 30			30	5.97	5.8		6.5		7.2		8.4
TH12 x 35			35	5.11	6.7		7.5		8.4		9.8
TH12 x 40			40	4.47	7.7		8.6		9.6		11.2
TH12 x 45			45	3.98	8.6		9.7		10.8		12.6
TH12 x 50			50	3.58	9.6		10.8		12.0		14.0
TH12 x 55			55	3.25	10.6		11.8		13.2		15.4
TH12 x 60			60	2.98	11.5		13.0		14.4		16.8
TH14 x 25	14	7	25	9.83	4.8	47 (461)	5.4	53 (520)	6.0	59 (579)	7.0
TH14 x 30			30	8.19	5.8		6.5		7.2		8.4
TH14 x 35			35	7.02	6.7		7.5		8.4		9.8
TH14 x 40			40	6.14	7.7		8.6		9.6		11.2
TH14 x 45			45	5.46	8.6		9.7		10.8		12.6
TH14 x 50			50	4.91	9.6		10.8		12.0		14.0
TH14 x 55			55	4.46	10.6		11.8		13.2		15.4
TH14 x 60			60	4.09	11.5		13.0		14.4		16.8
TH14 x 65			65	3.78	12.5		14.0		15.6		18.2
TH14 x 70	70	3.51	13.4	15.1	16.8	19.6					
TH16 x 25	16	8	25	12.83	4.8	62 (608)	5.4	69 (677)	6.0	77 (755)	7.0
TH16 x 30			30	10.69	5.8		6.5		7.2		8.4
TH16 x 35			35	9.16	6.7		7.5		8.4		9.8
TH16 x 40			40	8.02	7.7		8.6		9.6		11.2
TH16 x 45			45	7.12	8.6		9.7		10.8		12.6
TH16 x 50			50	6.41	9.6		10.8		12.0		14.0
TH16 x 55			55	5.83	10.6		11.8		13.2		15.4
TH16 x 60			60	5.34	11.5		13.0		14.4		16.8
TH16 x 65			65	4.93	12.5		14.0		15.6		18.2
TH16 x 70			70	4.58	13.4		15.1		16.8		19.6
TH16 x 75			75	4.28	14.4		16.2		18.0		21.0
TH16 x 80			80	4.01	15.4		17.3		19.2		22.4
TH18 x 25	18	9	25	16.16	4.8	78 (765)	5.4	87 (853)	6.0	97 (951)	7.0
TH18 x 30			30	13.47	5.8		6.5		7.2		8.4
TH18 x 35			35	11.54	6.7		7.5		8.4		9.8
TH18 x 40			40	10.10	7.7		8.6		9.6		11.2
TH18 x 45			45	8.98	8.6		9.7		10.8		12.6

重荷重

TH 系列

Heavy Load Springs

JIS B 5012

最大壓縮量為自由長的 28%

彈簧編號	外徑	內徑	自由長	常數	壓縮 19.2 % L ₀	壓縮 21.6 % L ₀	壓縮 24 % L ₀	密縮長	
	D _o	D _i	L ₀	R					
	mm	mm	mm	Kgf / mm	mm Kgf (N)	mm Kgf (N)	mm Kgf (N)	mm	
				± 10%					
TH18 x 50	18	9	50	8.08	9.6	10.8	12.0	14.0	
TH18 x 55			55	7.34	10.6	11.8	13.2	15.4	
TH18 x 60			60	6.73	11.5	13.0	14.4	16.8	
TH18 x 65			65	6.21	12.5	14.0	15.6	18.2	
TH18 x 70			70	5.77	13.4	78 (765)	87 (853)	97 (951)	19.6
TH18 x 75			75	5.39	14.4	16.2	18.0	21.0	
TH18 x 80			80	5.05	15.4	17.3	19.2	22.4	
TH18 x 90			90	4.50	17.3	19.4	21.6	25.2	
TH20 x 25	20	10	25	20.00	4.8	5.4	6.0	7.0	
TH20 x 30			30	16.66	5.8	6.5	7.2	8.4	
TH20 x 35			35	14.28	6.7	7.5	8.4	9.8	
TH20 x 40			40	12.50	7.7	8.6	9.6	11.2	
TH20 x 45			45	11.11	8.6	9.7	10.8	12.6	
TH20 x 50			50	10.00	9.6	10.8	12.0	14.0	
TH20 x 55			55	9.09	10.6	96 (941)	108 (1059)	120 (1177)	15.4
TH20 x 60			60	8.33	11.5	13.0	14.4	16.8	
TH20 x 65			65	7.69	12.5	14.0	15.6	18.2	
TH20 x 70			70	7.14	13.4	15.1	16.8	19.6	
TH20 x 75			75	6.67	14.4	16.2	18.0	21.0	
TH20 x 80			80	6.25	15.4	17.3	19.2	22.4	
TH20 x 90	90	5.55	17.3	19.4	21.6	25.2			
TH20 x 100	100	5.00	19.2	21.6	24.0	28.0			
TH22 x 25	22	11	25	24.16	4.8	5.4	6.0	7.0	
TH22 x 30			30	20.13	5.8	6.5	7.2	8.4	
TH22 x 35			35	17.30	6.7	7.5	8.4	9.8	
TH22 x 40			40	15.10	7.7	8.6	9.6	11.2	
TH22 x 45			45	13.40	8.6	9.7	10.8	12.6	
TH22 x 50			50	12.08	9.6	10.8	12.0	14.0	
TH22 x 55			55	10.94	10.6	116 (1138)	130 (1275)	145 (1422)	15.4
TH22 x 60			60	10.06	11.5	13.0	14.4	16.8	
TH22 x 65			65	9.28	12.5	14.0	15.6	18.2	
TH22 x 70			70	8.63	13.4	15.1	16.8	19.6	
TH22 x 75			75	8.04	14.4	16.2	18.0	21.0	
TH22 x 80			80	7.55	15.4	17.3	19.2	22.4	
TH22 x 90			90	6.71	17.3	19.4	21.6	25.2	
TH22 x 100			100	6.04	19.2	21.6	24.0	28.0	
TH22 x 125	125	4.83	24.0	27.0	30.0	35.0			
TH25 x 25	25	12.5	25	31.20	4.8	5.4	6.0	7.0	
TH25 x 30			30	25.97	5.8	6.5	7.2	8.4	
TH25 x 35			35	22.38	6.7	7.5	8.4	9.8	
TH25 x 40			40	19.47	7.7	8.6	9.6	11.2	
TH25 x 45			45	17.40	8.6	150 (1471)	169 (1657)	187 (1834)	12.6
TH25 x 50			50	15.58	9.6	10.8	12.0	14.0	
TH25 x 55			55	14.20	10.6	11.8	13.2	15.4	
TH25 x 60			60	12.98	11.5	13.0	14.4	16.8	
TH25 x 65	65	12.00	12.5	14.0	15.6	18.2			

重荷重

TH 系列

Heavy Load Springs

JIS B 5012

最大壓縮量為自由長的 28%

彈簧編號	外徑	內徑	自由長	常數	壓縮 19.2 % L ₀		壓縮 21.6 % L ₀		壓縮 24 % L ₀		密縮長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TH25 x 70	25	12.5	70	11.13	13.4	15.1	16.8	19.6			
TH25 x 75			75	10.40	14.4	16.2	18.0	21.0			
TH25 x 80			80	9.73	15.4	17.3	19.2	22.4			
TH25 x 90			90	8.65	17.3	19.4	21.6	25.2			
TH25 x 100			100	7.79	19.2	21.6	24.0	28.0			
TH25 x 125			125	6.23	24.0	27.0	30.0	35.0			
TH27 x 25	27	13.5	25	36.40	4.8	5.4	6.0	7.0			
TH27 x 30			30	30.41	5.8	6.5	7.2	8.4			
TH27 x 35			35	26.20	6.7	7.5	8.4	9.8			
TH27 x 40			40	22.81	7.7	8.6	9.6	11.2			
TH27 x 45			45	20.30	8.6	9.7	10.8	12.6			
TH27 x 50			50	18.25	9.6	10.8	12.0	14.0			
TH27 x 55			55	16.50	10.6	11.8	13.2	15.4			
TH27 x 60			60	15.20	11.5	13.0	14.4	16.8			
TH27 x 65			65	14.00	12.5	14.0	15.6	18.2			
TH27 x 70			70	13.03	13.4	15.1	16.8	19.6			
TH27 x 75			75	12.10	14.4	16.2	18.0	21.0			
TH27 x 80			80	11.40	15.4	17.3	19.2	22.4			
TH27 x 90			90	10.13	17.3	19.4	21.6	25.2			
TH27 x 100			100	9.12	19.2	21.6	24.0	28.0			
TH27 x 125			125	7.30	24.0	27.0	30.0	35.0			
TH27 x 150	150	6.08	28.8	32.4	36.0	42.0					
TH30 x 25	30	15	25	45.00	4.8	5.4	6.0	7.0			
TH30 x 30			30	37.50	5.8	6.5	7.2	8.4			
TH30 x 35			35	32.26	6.7	7.5	8.4	9.8			
TH30 x 40			40	28.12	7.7	8.6	9.6	11.2			
TH30 x 45			45	25.00	8.6	9.7	10.8	12.6			
TH30 x 50			50	22.50	9.6	10.8	12.0	14.0			
TH30 x 55			55	20.40	10.6	11.8	13.2	15.4			
TH30 x 60			60	18.75	11.5	13.0	14.4	16.8			
TH30 x 65			65	17.30	12.5	14.0	15.6	18.2			
TH30 x 70			70	16.07	13.4	15.1	16.8	19.6			
TH30 x 75			75	15.00	14.4	16.2	18.0	21.0			
TH30 x 80			80	14.06	15.4	17.3	19.2	22.4			
TH30 x 90			90	12.50	17.3	19.4	21.6	25.2			
TH30 x 100			100	11.25	19.2	21.6	24.0	28.0			
TH30 x 125			125	9.00	24.0	27.0	30.0	35.0			
TH30 x 150			150	7.50	28.8	32.4	36.0	42.0			
TH30 x 175			175	6.42	33.6	37.8	42.0	49.0			
TH35 x 40	35	17.5	40	38.22	7.7	8.6	9.6	11.2			
TH35 x 45			45	33.98	8.6	9.7	10.8	12.6			
TH35 x 50			50	30.58	9.6	10.8	12.0	14.0			
TH35 x 55			55	27.80	10.6	11.8	13.2	15.4			
TH35 x 60			60	25.48	11.5	13.0	14.4	16.8			
TH35 x 65			65	23.53	12.5	14.0	15.6	18.2			
TH35 x 70	70	21.84	13.4	15.1	16.8	19.6					

重荷重

TH 系列

Heavy Load Springs

JIS B 5012

最大壓縮量為自由長的 28%

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 19.2 % L ₀	壓 縮 21.6 % L ₀	壓 縮 24 % L ₀	密 縮 長	
	D _o	D _i	L ₀	R					
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%					
TH35 x 75	35	17.5	75	20.39	14.4	16.2	18.0	21.0	
TH35 x 80			80	19.11	15.4	17.3	19.2	22.4	
TH35 x 90			90	16.99	17.3	19.4	21.6	25.2	
TH35 x 100			100	15.29	19.2	21.6	24.0	28.0	
TH35 x 125			125	12.23	24.0	27.0	30.0	35.0	
TH35 x 150			150	10.19	28.8	32.4	36.0	42.0	
TH35 x 175			175	8.73	33.6	37.8	42.0	49.0	
TH35 x 200			200	7.64	38.4	43.2	48.0	56.0	
TH40 x 50	40	20	50	40.00	9.6	10.8	12.0	14.0	
TH40 x 60			60	33.33	11.5	13.0	14.4	16.8	
TH40 x 70			70	28.57	13.4	15.1	16.8	19.6	
TH40 x 80			80	25.00	15.4	17.3	19.2	22.4	
TH40 x 90			90	22.22	17.3	19.4	21.6	25.2	
TH40 x 100			100	20.00	19.2	21.6	24.0	28.0	
TH40 x 125			125	16.00	24.0	27.0	30.0	35.0	
TH40 x 150			150	13.33	28.8	32.4	36.0	42.0	
TH40 x 175			175	11.42	33.6	37.8	42.0	49.0	
TH40 x 200			200	10.00	38.4	43.2	48.0	56.0	
TH40 x 250	250	8.00	48.0	54.0	60.0	70.0			
TH50 x 60	50	25	60	52.08	11.5	13.0	14.4	16.8	
TH50 x 70			70	44.64	13.4	15.1	16.8	19.6	
TH50 x 80			80	39.06	15.4	17.3	19.2	22.4	
TH50 x 90			90	34.72	17.3	19.4	21.6	25.2	
TH50 x 100			100	31.25	19.2	21.6	24.0	28.0	
TH50 x 125			125	25.00	24.0	27.0	30.0	35.0	
TH50 x 150			150	20.83	28.8	32.4	36.0	42.0	
TH50 x 175			175	17.85	33.6	37.8	42.0	49.0	
TH50 x 200			200	15.62	38.4	43.2	48.0	56.0	
TH50 x 250			250	12.50	48.0	54.0	60.0	70.0	
TH50 x 300	300	10.41	57.6	64.8	72.0	84.0			
TH60 x 70	60	30	70	64.28	13.4	15.1	16.8	19.6	
TH60 x 80			80	56.25	15.4	17.3	19.2	22.4	
TH60 x 90			90	50.00	17.3	19.4	21.6	25.2	
TH60 x 100			100	45.00	19.2	21.6	24.0	28.0	
TH60 x 125			125	36.00	24.0	27.0	30.0	35.0	
TH60 x 150			150	30.00	28.8	32.4	36.0	42.0	
TH60 x 175			175	25.71	33.6	37.8	42.0	49.0	
TH60 x 200			200	22.50	38.4	43.2	48.0	56.0	
TH60 x 250			250	18.00	48.0	54.0	60.0	70.0	
TH60 x 300			300	15.00	57.6	64.8	72.0	84.0	

極重荷重**TB 系列****Super Load Springs****JIS B 5012****最大壓縮量為自由長的 24%**

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 16 % L ₀		壓 縮 18 % L ₀		壓 縮 20 % L ₀		密 縮 長
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%							
TB10 x 20	10	5	20	11.25	3.2	36 (353)	3.6	41 (402)	4.0	45 (441)	4.8
TB10 x 25			25	9.00	4.0		4.5		5.0		6.0
TB10 x 30			30	7.50	4.8		5.4		6.0		7.2
TB10 x 35			35	6.43	5.6		6.3		7.0		8.4
TB10 x 40			40	5.63	6.4		7.2		8.0		9.6
TB10 x 45			45	5.00	7.2		8.1		9.0		10.8
TB10 x 50			50	4.50	8.0		9.0		10.0		12.0
TB10 x 55			55	4.09	8.8		9.9		11.0		13.2
TB10 x 60			60	3.75	9.6		10.8		12.0		14.4
TB12 x 20			12	6	20		14.50		3.2		46 (451)
TB12 x 25	25	11.60			4.0	4.5	5.0	6.0			
TB12 x 30	30	9.67			4.8	5.4	6.0	7.2			
TB12 x 35	35	8.29			5.6	6.3	7.0	8.4			
TB12 x 40	40	7.25			6.4	7.2	8.0	9.6			
TB12 x 45	45	6.44			7.2	8.1	9.0	10.8			
TB12 x 50	50	5.80			8.0	9.0	10.0	12.0			
TB12 x 55	55	5.27			8.8	9.9	11.0	13.2			
TB12 x 60	60	4.83			9.6	10.8	12.0	14.4			
TB14 x 25	14	7			25	15.00	4.0	60 (588)	4.5	68 (667)	
TB14 x 30			30	12.50	4.8	5.4	6.0		7.2		
TB14 x 35			35	10.72	5.6	6.3	7.0		8.4		
TB14 x 40			40	9.38	6.4	7.2	8.0		9.6		
TB14 x 45			45	8.34	7.2	8.1	9.0		10.8		
TB14 x 50			50	7.50	8.0	9.0	10.0		12.0		
TB14 x 55			55	6.82	8.8	9.9	11.0		13.2		
TB14 x 60			60	6.25	9.6	10.8	12.0		14.4		
TB14 x 65			65	5.77	10.4	11.7	13.0		15.6		
TB14 x 70			70	5.36	11.2	12.6	14.0		16.8		
TB16 x 25	16	8	25	20.00	4.0	80 (785)	4.5	90 (883)	5.0	100 (981)	6.0
TB16 x 30			30	16.67	4.8		5.4		6.0		7.2
TB16 x 35			35	14.29	5.6		6.3		7.0		8.4
TB16 x 40			40	12.50	6.4		7.2		8.0		9.6
TB16 x 45			45	11.11	7.2		8.1		9.0		10.8
TB16 x 50			50	10.00	8.0		9.0		10.0		12.0
TB16 x 55			55	9.09	8.8		9.9		11.0		13.2
TB16 x 60			60	8.34	9.6		10.8		12.0		14.4
TB16 x 65			65	7.69	10.4		11.7		13.0		15.6
TB16 x 70			70	7.14	11.2		12.6		14.0		16.8
TB16 x 75			75	6.67	12.0		13.5		15.0		18.0
TB16 x 80			80	6.25	12.8		14.4		16.0		19.2
TB18 x 25			18	9	25		25.00		4.0		100 (981)
TB18 x 30	30	20.84			4.8	5.4	6.0	7.2			
TB18 x 35	35	17.86			5.6	6.3	7.0	8.4			
TB18 x 40	40	15.63			6.4	7.2	8.0	9.6			
TB18 x 45	45	13.89			7.2	8.1	9.0	10.8			

極重荷重**TB 系列****Super Load Springs****JIS B 5012****最大壓縮量為自由長的 24%**

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 16 % L ₀	壓 縮 18 % L ₀	壓 縮 20 % L ₀	密 縮 長	
	D _o	D _i	L ₀	R					
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%					
TB18 x 50	18	9	50	12.50	8.0	9.0	10.0	12.0	
TB18 x 55			55	11.37	8.8	9.9	11.0	13.2	
TB18 x 60			60	10.42	9.6	10.8	12.0	14.4	
TB18 x 65			65	9.62	10.4	11.7	13.0	15.6	
TB18 x 70			70	8.93	11.2	12.6	14.0	16.8	
TB18 x 75			75	8.34	12.0	13.5	15.0	18.0	
TB18 x 80			80	7.82	12.8	14.4	16.0	19.2	
TB18 x 90			90	6.95	14.4	16.2	18.0	21.6	
TB20 x 25	20	10	25	32.00	4.0	4.5	5.0	6.0	
TB20 x 30			30	26.67	4.8	5.4	6.0	7.2	
TB20 x 35			35	22.86	5.6	6.3	7.0	8.4	
TB20 x 40			40	20.00	6.4	7.2	8.0	9.6	
TB20 x 45			45	17.78	7.2	8.1	9.0	10.8	
TB20 x 50			50	16.00	8.0	9.0	10.0	12.0	
TB20 x 55			55	14.55	8.8	9.9	11.0	13.2	
TB20 x 60			60	13.33	9.6	10.8	12.0	14.4	
TB20 x 65			65	12.31	10.4	11.7	13.0	15.6	
TB20 x 70			70	11.43	11.2	12.6	14.0	16.8	
TB20 x 75			75	10.67	12.0	13.5	15.0	18.0	
TB20 x 80			80	10.00	12.8	14.4	16.0	19.2	
TB20 x 90			90	8.89	14.4	16.2	18.0	21.6	
TB20 x 100	100	8.00	16.0	18.0	20.0	24.0			
TB20 x 125	125	6.40	20.0	22.5	25.0	30.0			
TB22 x 25	22	11	25	39.00	4.0	4.5	5.0	6.0	
TB22 x 30			30	32.50	4.8	5.4	6.0	7.2	
TB22 x 35			35	27.86	5.6	6.3	7.0	8.4	
TB22 x 40			40	24.38	6.4	7.2	8.0	9.6	
TB22 x 45			45	21.67	7.2	8.1	9.0	10.8	
TB22 x 50			50	19.50	8.0	9.0	10.0	12.0	
TB22 x 55			55	17.73	8.8	9.9	11.0	13.2	
TB22 x 60			60	16.25	9.6	10.8	12.0	14.4	
TB22 x 65			65	15.00	10.4	11.7	13.0	15.6	
TB22 x 70			70	13.93	11.2	12.6	14.0	16.8	
TB22 x 75			75	13.00	12.0	13.5	15.0	18.0	
TB22 x 80			80	12.19	12.8	14.4	16.0	19.2	
TB22 x 90			90	10.83	14.4	16.2	18.0	21.6	
TB22 x 100	100	9.75	16.0	18.0	20.0	24.0			
TB22 x 125	125	7.80	20.0	22.5	25.0	30.0			
TB25 x 25	25	12.5	25	49.00	4.0	4.5	5.0	6.0	
TB25 x 30			30	40.80	4.8	5.4	6.0	7.2	
TB25 x 35			35	35.00	5.6	6.3	7.0	8.4	
TB25 x 40			40	30.60	6.4	7.2	8.0	9.6	
TB25 x 45			45	27.20	7.2	8.1	9.0	10.8	
TB25 x 50			50	24.50	8.0	9.0	10.0	12.0	
TB25 x 55			55	22.30	8.8	9.9	11.0	13.2	
TB25 x 60			60	20.40	9.6	10.8	12.0	14.4	

極重荷重**TB 系列****Super Load Springs****JIS B 5012****最大壓縮量為自由長的 24%**

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 16 % L ₀	壓 縮 18 % L ₀	壓 縮 20 % L ₀	密 縮 長	
	D _o	D _i	L ₀	R					
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm
				± 10%					
TB25 x 65	25	12.5	65	18.80	10.4	11.7	13.0	15.6	
TB25 x 70			70	17.50	11.2	12.6	14.0	16.8	
TB25 x 75			75	16.30	12.0	13.5	15.0	18.0	
TB25 x 80			80	15.30	12.8	14.4	16.0	19.2	
TB25 x 90			90	13.60	14.4	16.2	18.0	21.6	
TB25 x 100			100	12.30	16.0	18.0	20.0	24.0	
TB25 x 125			125	9.80	20.0	22.5	25.0	30.0	
					196 (1922)	221 (2170)	245 (2400)		
TB27 x 25	27	13.5	25	58.00	4.0	4.5	5.0	6.0	
TB27 x 30			30	48.33	4.8	5.4	6.0	7.2	
TB27 x 35			35	41.43	5.6	6.3	7.0	8.4	
TB27 x 40			40	36.25	6.4	7.2	8.0	9.6	
TB27 x 45			45	32.22	7.2	8.1	9.0	10.8	
TB27 x 50			50	29.00	8.0	9.0	10.0	12.0	
TB27 x 55			55	26.36	8.8	9.9	11.0	13.2	
TB27 x 60			60	24.17	9.6	10.8	12.0	14.4	
TB27 x 65			65	22.31	10.4	11.7	13.0	15.6	
TB27 x 70			70	20.71	11.2	12.6	14.0	16.8	
TB27 x 75			75	19.33	12.0	13.5	15.0	18.0	
TB27 x 80			80	18.13	12.8	14.4	16.0	19.2	
TB27 x 90			90	16.11	14.4	16.2	18.0	21.6	
TB27 x 100			100	14.50	16.0	18.0	20.0	24.0	
TB27 x 125			125	11.60	20.0	22.5	25.0	30.0	
TB27 x 150	150	9.67	24.0	27.0	30.0	36.0			
					232 (2280)	261 (2560)	290 (2840)		
TB30 x 25	30	15	25	72.00	4.0	4.5	5.0	6.0	
TB30 x 30			30	60.00	4.8	5.4	6.0	7.2	
TB30 x 35			35	51.43	5.6	6.3	7.0	8.4	
TB30 x 40			40	45.00	6.4	7.2	8.0	9.6	
TB30 x 45			45	40.00	7.2	8.1	9.0	10.8	
TB30 x 50			50	36.00	8.0	9.0	10.0	12.0	
TB30 x 55			55	32.72	8.8	9.9	11.0	13.2	
TB30 x 60			60	30.00	9.6	10.8	12.0	14.4	
TB30 x 65			65	27.69	10.4	11.7	13.0	15.6	
TB30 x 70			70	25.71	11.2	12.6	14.0	16.8	
TB30 x 75			75	24.00	12.0	13.5	15.0	18.0	
TB30 x 80			80	22.50	12.8	14.4	16.0	19.2	
TB30 x 90			90	20.00	14.4	16.2	18.0	21.6	
TB30 x 100			100	18.00	16.0	18.0	20.0	24.0	
TB30 x 125			125	14.40	20.0	22.5	25.0	30.0	
TB30 x 150			150	12.00	24.0	27.0	30.0	36.0	
TB30 x 175			175	10.28	28.0	31.5	35.0	42.0	
					288 (2820)	324 (3180)	360 (3530)		
TB35 x 40	35	17.5	40	61.25	6.4	7.2	8.0	9.6	
TB35 x 45			45	54.44	7.2	8.1	9.0	10.8	
TB35 x 50			50	49.00	8.0	9.0	10.0	12.0	
TB35 x 55			55	44.54	8.8	9.9	11.0	13.2	
TB35 x 60			60	40.83	9.6	10.8	12.0	14.4	
TB35 x 65			65	37.69	10.4	11.7	13.0	15.6	
					392 (3840)	441 (4320)	490 (4810)		

極重荷重**TB 系列****Super Load Springs****JIS B 5012****最大壓縮量為自由長的 24%**

彈 簧 編 號	外 徑	內 徑	自 由 長	常 數	壓 縮 16 % L ₀	壓 縮 18 % L ₀	壓 縮 20 % L ₀	密 縮 長			
	D _o	D _i	L ₀	R							
	mm	mm	mm	Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm		
				± 10%							
TB35 x 70	35	17.5	70	35.00	11.2		12.6		14.0	16.8	
TB35 x 75			75	32.67	12.0		13.5		15.0	18.0	
TB35 x 80			80	30.62	12.8		14.4		16.0	19.2	
TB35 x 90			90	27.22	14.4	392	16.2	441	18.0	490	21.6
TB35 x 100			100	24.50	16.0	(3840)	18.0	(4320)	20.0	(4810)	24.0
TB35 x 125			125	19.60	20.0		22.5		25.0		30.0
TB35 x 150			150	16.33	24.0		27.0		30.0		36.0
TB35 x 175			175	14.00	28.0		31.5		35.0		42.0
TB35 x 200			200	12.25	32.0		36.0		40.0		48.0
TB40 x 50			40	20	50	64.00	8.0		9.0		10.0
TB40 x 60	60	53.33			9.6		10.8		12.0	14.4	
TB40 x 70	70	45.71			11.2		12.6		14.0	16.8	
TB40 x 80	80	40.00			12.8		14.4		16.0	19.2	
TB40 x 90	90	35.55			14.4	512	16.2	576	18.0	640	21.6
TB40 x 100	100	32.00			16.0	(5020)	18.0	(5650)	20.0	(6280)	24.0
TB40 x 125	125	25.60			20.0		22.5		25.0		30.0
TB40 x 150	150	21.33			24.0		27.0		30.0		36.0
TB40 x 175	175	18.28			28.0		31.5		35.0		42.0
TB40 x 200	200	16.00			32.0		36.0		40.0		48.0
TB40 x 250	250	12.80	40.0		45.0		50.0		60.0		
TB50 x 60	50	25	60	83.33	9.6		10.8		12.0	14.4	
TB50 x 70			70	71.42	11.2		12.6		14.0	16.8	
TB50 x 80			80	62.50	12.8		14.4		16.0	19.2	
TB50 x 90			90	55.55	14.4		16.2		18.0	21.6	
TB50 x 100			100	50.00	16.0	800	18.0	900	20.0	1000	24.0
TB50 x 125			125	40.00	20.0	(7850)	22.5	(8830)	25.0	(9810)	30.0
TB50 x 150			150	33.33	24.0		27.0		30.0		36.0
TB50 x 175			175	28.57	28.0		31.5		35.0		42.0
TB50 x 200			200	25.00	32.0		36.0		40.0		48.0
TB50 x 250			250	20.00	40.0		45.0		50.0		60.0
TB50 x 300	300	16.66	48.0		54.0		60.0		72.0		
TB60 x 90	60	30	90	80.00	14.4		16.2		18.0	21.6	
TB60 x 100			100	72.00	16.0		18.0		20.0	24.0	
TB60 x 125			125	57.60	20.0	1152	22.5	1296	25.0	1440	30.0
TB60 x 150			150	48.00	24.0	(11300)	27.0	(12710)	30.0	(14120)	36.0
TB60 x 175			175	41.14	28.0		31.5		35.0		42.0
TB60 x 200			200	36.00	32.0		36.0		40.0		48.0
TB60 x 250			250	28.80	40.0		45.0		50.0		60.0
TB60 x 300			300	24.00	48.0		54.0		60.0		72.0

圓線彈簧

L 系列

Round Wire Coil Spring

JIS B 5012

最大壓縮量為自由長的 32%

彈 簧 編 號	外徑	內徑	自由長	常數	壓縮 16 % L ₀		壓縮 24 % L ₀		壓縮 32 % L ₀		
	D ₀	D _i	L ₀	R	mm	N	mm	N	mm	N	
	mm	mm	mm	N/mm							
L3 x 10	3	2	10	2.94	4.4	1.6	2.4	6.62	3.2	8.8	
L3 x 15			15	1.96							3.6
L3 x 20			20	0.98							4.8
L3 x 25			25	0.98							6.0
L4 x 10	4	2.6	10	4.90	7.8	1.6	4.8	11.6	6.4	15.7	
L4 x 15			15	2.94							3.6
L4 x 20			20	2.94							4.8
L4 x 25			25	1.96							6.0
L4 x 30			30	1.96							7.2
L6 x 15	6	4	15	7.85	17.7	2.4	6.0	26.5	8.0	35.5	
L6 x 20			20	5.88							4.8
L6 x 25			25	4.90							6.0
L6 x 30			30	3.92							7.2
L6 x 35			35	2.94							8.4
L8 x 15	8	5.4	15	12.75	31.4	2.4	6.0	47.1	9.6	62.8	
L8 x 20			20	9.81							4.8
L8 x 25			25	7.85							6.0
L8 x 30			30	6.86							7.2
L8 x 35			35	5.88							8.4
L8 x 40			40	4.90							9.6
L10 x 25	10	6.5	25	12.75	49.0	4.0	9.6	73.6	12.8	98	
L10 x 30			30	9.81							7.2
L10 x 35			35	8.83							8.4
L10 x 40			40	7.85							9.6
L10 x 45			45	6.86							10.8
L10 x 50			50	5.88							12.0
L12 x 25	12	8	25	17.65	70.6	4.0	10.8	106.9	14.4	141.2	
L12 x 30			30	14.71							7.2
L12 x 35			35	12.75							8.4
L12 x 40			40	10.79							9.6
L12 x 45			45	9.81							10.8
L12 x 50			50	8.83							12.0
L12 x 55			55	7.85							13.2
L12 x 60			60	7.85							14.4
L14 x 25	14	9.3	25	24.52	96.1	4.0	12.0	144.2	16.0	192.2	
L14 x 30			30	19.61							7.2
L14 x 35			35	17.65							8.4
L14 x 40			40	14.71							9.6
L14 x 45			45	13.73							10.8
L14 x 50			50	11.77							12.0
L14 x 55			55	10.79							13.2
L14 x 60			60	9.81							14.4
L14 x 65			65	8.83							15.6
L14 x 70			70	8.83							16.8

圓線彈簧

L 系列

Round Wire Coil Spring

JIS B 5012

最大壓縮量為自由長的 32%

彈簧編號	外徑	內徑	自由長	常數	壓縮 16 % L ₀		壓縮 24 % L ₀		壓縮 32 % L ₀				
	D ₀ mm	D _i mm	L ₀ mm	R N/mm ±10%	mm	N	mm	N	mm	N			
L16 x 25	16	10.7	25	31.38	125.5	4.0	6.0	188.3	8.0	251.1			
L16 x 30			30	26.48							4.8	7.2	9.6
L16 x 35			35	22.56							5.6	8.4	11.2
L16 x 40			40	19.61							6.4	9.6	12.8
L16 x 45			45	17.65							7.2	10.8	14.4
L16 x 50			50	15.69							8.0	12.0	16.0
L16 x 55			55	14.71							8.8	13.2	17.6
L16 x 60			60	12.75							9.6	14.4	19.2
L16 x 65			65	11.77							10.4	15.6	20.8
L16 x 70			70	10.79							11.2	16.8	22.4
L16 x 75			75	10.79							12.0	18.0	24.0
L16 x 80			80	9.81							12.8	19.2	25.6
L18 x 25	18	12	25	40.21	158.9	4.0	6.0	238.3	8.0	317.7			
L18 x 30			30	33.34							4.8	7.2	9.6
L18 x 35			35	28.44							5.6	8.4	11.2
L18 x 40			40	24.52							6.4	9.6	12.8
L18 x 45			45	22.56							7.2	10.8	14.4
L18 x 50			50	19.61							8.0	12.0	16.0
L18 x 55			55	17.65							8.8	13.2	17.6
L18 x 60			60	16.67							9.6	14.4	19.2
L18 x 65			65	15.69							10.4	15.6	20.8
L18 x 70			70	14.71							11.2	16.8	22.4
L18 x 75			75	13.73							12.0	18.0	24.0
L18 x 80			80	12.75							12.8	19.2	25.6
L18 x 90	90	10.79	14.4	21.6	28.8								
L20 x 25	20	13.5	25	49.03	196.1	4.0	6.0	294.2	8.0	392.3			
L20 x 30			30	41.19							4.8	7.2	9.6
L20 x 35			35	35.30							5.6	8.4	11.2
L20 x 40			40	30.40							6.4	9.6	12.8
L20 x 45			45	27.46							7.2	10.8	14.4
L20 x 50			50	24.52							8.0	12.0	16.0
L20 x 55			55	22.56							8.8	13.2	17.6
L20 x 60			60	20.59							9.6	14.4	19.2
L20 x 65			65	18.63							10.4	15.6	20.8
L20 x 70			70	17.65							11.2	16.8	22.4
L20 x 75			75	16.67							12.0	18.0	24.0
L20 x 80			80	15.69							12.8	19.2	25.6
L20 x 90	90	13.73	14.4	21.6	28.8								
L20 x 100	100	12.75	16.0	24.0	32.0								
L22 x 25	22	14.7	25	59.82	237.3	4.0	6.0	356	8.0	474.6			
L22 x 30			30	49.03							4.8	7.2	9.6
L22 x 35			35	42.17							5.6	8.4	11.2
L22 x 40			40	37.27							6.4	9.6	12.8
L22 x 45			45	33.34							7.2	10.8	14.4
L22 x 50			50	29.42							8.0	12.0	16.0
L22 x 55			55	27.46							8.8	13.2	17.6
L22 x 60			60	24.52							9.6	14.4	19.2

圓線彈簧

L 系列

Round Wire Coil Spring

JIS B 5012

最大壓縮量為自由長的 32%

彈 簧 編 號	外徑	內徑	自由長	常數	壓縮 16 % L ₀		壓縮 24 % L ₀		壓縮 32 % L ₀	
	D ₀	D _i	L ₀	R						
	mm	mm	mm	N/mm ±10%	mm	N	mm	N	mm	N
L22 x 65	22	14.7	65	22.56	10.4	237.3	15.6	356.0	20.8	474.6
L22 x 70			70	21.57	11.2		16.8		22.4	
L22 x 75			75	19.61	12.0		18.0		24.0	
L22 x 80			80	18.63	12.8		19.2		25.6	
L22 x 90			90	16.67	14.4		21.6		28.8	
L22 x 100			100	14.71	16.0		24.0		32.0	
L25 x 25	25	17	25	76.49	4.0	307	6.0	459.9	8.0	613.9
L25 x 30			30	63.74	4.8		7.2		9.6	
L25 x 35			35	54.92	5.6		8.4		11.2	
L25 x 40			40	48.05	6.4		9.6		12.8	
L25 x 45			45	42.17	7.2		10.8		14.4	
L25 x 50			50	38.25	8.0		12.0		16.0	
L25 x 55			55	35.30	8.8		13.2		17.6	
L25 x 60			60	32.36	9.6		14.4		19.2	
L25 x 65			65	29.42	10.4		15.6		20.8	
L25 x 70			70	27.46	11.2		16.8		22.4	
L25 x 75			75	25.50	12.0		18.0		24.0	
L25 x 80			80	23.54	12.8		19.2		25.6	
L25 x 90			90	21.57	14.4		21.6		28.8	
L25 x 100	100	19.61	16.0	24.0	32.0					
L30 x 50	30	20	50	51.94	8.0	414	12.0	621	16.0	828
L30 x 60			60	44.10	9.6		14.4		19.2	
L30 x 70			70	37.24	11.2		16.8		22.4	
L30 x 80			80	32.34	12.8		19.2		25.6	
L30 x 90			90	28.42	14.4		21.6		28.8	
L30 x 100			100	25.48	16.0		24.0		32.0	
L30 x 125			125	20.58	20.0		30.0		40.0	