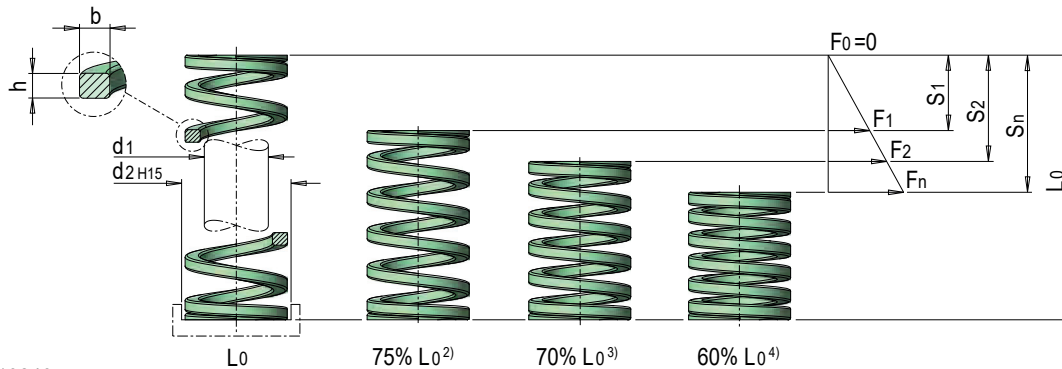


E 1542



Systemdruckfeder, geringe Belastung, grün

System compression spring, light load, green



DIN ISO 10243

t max. = 250°C⁵⁾

c [N/mm] ¹⁾	F1 [N]	S1	F2 [N]	S2	Fn [N]	Sn	b	h	d1	d2	Lo	Nr. / No.				
11	69	6.3	83	7.5	110	10	1.7	1.1	5	10	25	E 1542/10 x 25				
8.5	68	8	82	9.6	109	12.8					32	E 1542/10 x 32				
6.8	65	9.5	78	11.4	103	15.2					38	E 1542/10 x 38				
6	66	11	79	13.2	106	17.6					44	E 1542/10 x 44				
5	64	12.8	77	15.3	102	20.4					51	E 1542/10 x 51				
4.1	66	16	79	19.2	105	25.6					64	E 1542/10 x 64				
3.6	68	19	82	22.8	109	30.4					76	E 1542/10 x 76				
0.9	69	76.3		91.5	110	122					305	E 1542/10 x 305				
21	132	6.3	158	7.5	210	10					2.4	1.4	6.3	12.5	25	E 1542/12,5 x 25
16.4	131	8	157	9.6		12.8									32	E 1542/12,5 x 32
13.6	129	9.5	155	11.4	207	15.2	38	E 1542/12,5 x 38								
12.1	133	11	160	13.2	213	17.6	44	E 1542/12,5 x 44								
10.3	132	12.8	158	15.3	210	20.4	51	E 1542/12,5 x 51								
7.6	122	16	146	19.2	195	25.6	64	E 1542/12,5 x 64								
6.3	120	19	144	22.8	192	30.4	76	E 1542/12,5 x 76								
5.4		22.3		26.7		35.6	89	E 1542/12,5 x 89								
1.6	122	76.3	146	91.5	195	122	305	E 1542/12,5 x 305								
29	183	6.3	218	7.5	290	10	3.2	1.5	8	16					25	E 1542/16 x 25
22.9		8	220	9.6	293	12.8					32	E 1542/16 x 32				
19.3		9.5		11.4		15.2					38	E 1542/16 x 38				
17.1	188	11	226	13.2	301	17.6					44	E 1542/16 x 44				
14	179	12.8	214	15.3	286	20.4					51	E 1542/16 x 51				
10.7	171	16	205	19.2	274	25.6					64	E 1542/16 x 64				
9		19		22.8		30.4					76	E 1542/16 x 76				
7.3	163	22.3	195	26.7	260	35.6					89	E 1542/16 x 89				
6.8	173	25.5	208	30.6	277	40.8					102	E 1542/16 x 102				
2.3	176	76.3	211	91.5	281	122					305	E 1542/16 x 305				
55.8	352	6.3	419	7.5	558	10	4	2.1	10	20	25	E 1542/20 x 25				
45	360	8	432	9.6	576	12.8					32	E 1542/20 x 32				
36	342	9.5	410	11.4	547	15.2					38	E 1542/20 x 38				
30	330	11	396	13.2	528	17.6					44	E 1542/20 x 44				
24.5	314	12.8	375	15.3	500	20.4					51	E 1542/20 x 51				
19.2	307	16	369	19.2	492	25.6					64	E 1542/20 x 64				
16	304	19	365	22.8	486	30.4					76	E 1542/20 x 76				
14	312	22.3	374	26.7	498	35.6					89	E 1542/20 x 89				
12	306	25.5	367	30.6	490	40.8					102	E 1542/20 x 102				
10.9	314	28.8	376	34.5	501	46					115	E 1542/20 x 115				
9.5	302	31.8	362	38.1	483	50.8	127	E 1542/20 x 127								
8.4	294	35	353	42	470	56	139	E 1542/20 x 139								
7.5	285	38	342	45.6	456	60.8	152	E 1542/20 x 152								
4	305	76.3	366	91.5	488	122	305	E 1542/20 x 305								
105	662	6.3	788	7.5	1050	10	5.4	2.7	12.5	25	25	E 1542/25 x 25				
80.3	642	8	771	9.6	1028	12.8					32	E 1542/25 x 32				
62	589	9.5	707	11.4	942	15.2					38	E 1542/25 x 38				
52.9	582	11	698	13.2	931	17.6					44	E 1542/25 x 44				
44	563	12.8	673	15.3	898	20.4					51	E 1542/25 x 51				
35.2		16	676	19.2	901	25.6					64	E 1542/25 x 64				
28	532	19	638	22.8	851	30.4					76	E 1542/25 x 76				
24	535	22.3	641	26.7	854	35.6					89	E 1542/25 x 89				
21.1	538	25.5	646	30.6	861	40.8					102	E 1542/25 x 102				
18.7	539	28.8	645	34.5	860	46					115	E 1542/25 x 115				
16.7	531	31.8	636	38.1	848	50.8	127	E 1542/25 x 127								
15.3	536	35	643	42	857	56	139	E 1542/25 x 139								
14	532	38	638	45.6	851	60.8	152	E 1542/25 x 152								
12.5	556	44.5	668	53.4	890	71.2	178	E 1542/25 x 178								
10.4	528	50.8	633	60.9	844	81.2	203	E 1542/25 x 203								
7	534	76.3	641	91.5	854	122	305	E 1542/25 x 305								
98	931	9.5	1117	11.4	1490	15.2	6.8	3.3	16	32	38	E 1542/32 x 38				
79.5	875	11	1049	13.2	1399	17.6					44	E 1542/32 x 44				
67	858	12.8	1025	15.3	1367	20.4					51	E 1542/32 x 51				
53	848	16	1018	19.2	1357	25.6					64	E 1542/32 x 64				



c [N/mm] ¹⁾	F1 [N]	S1	F2 [N]	S2	Fn [N]	Sn	b	h	d1	d2	Lo	Nr. / No.				
44	836	19	1003	22.8	1338	30.4	6.8	3.3	16	32	76	E 1542/32 x 76				
37.2	830	22.3	993	26.7	1324	35.6					89	E 1542/32 x 89				
32	816	25.5	979	30.6	1306	40.8					102	E 1542/32 x 102				
29	835	28.8	1001	34.5	1334	46					115	E 1542/32 x 115				
25	795	31.8	953	38.1	1270	50.8					127	E 1542/32 x 127				
23	805	35	966	42	1288	56					139	E 1542/32 x 139				
21.5	817	38	980	45.6	1307	60.8					152	E 1542/32 x 152				
18.2	810	44.5	972	53.4	1296	71.2					178	E 1542/32 x 178				
15.8	803	50.8	962	60.9	1283	81.2					203	E 1542/32 x 203				
12.5	794	63.5	953	76.2	1270	101.6					254	E 1542/32 x 254				
10.3	786	76.3	942	91.5	1257	122					305	E 1542/32 x 305				
92	1178	12.8	1408	15.3	1877	20.4					8.1	4	20	40	51	E 1542/40 x 51
73	1168	16	1402	19.2	1869	25.6									64	E 1542/40 x 64
63	1197	19	1436	22.8	1915	30.4									76	E 1542/40 x 76
51	1137	22.3	1362	26.7	1816	35.6									89	E 1542/40 x 89
45	1148	25.5	1377	30.6	1836	40.8	102	E 1542/40 x 102								
39.6	1140	28.8	1366	34.5	1822	46	115	E 1542/40 x 115								
36	1145	31.8	1372	38.1	1829	50.8	127	E 1542/40 x 127								
32	1120	35	1344	42	1792	56	139	E 1542/40 x 139								
28	1064	38	1277	45.6	1702	60.8	152	E 1542/40 x 152								
25.2	1121	44.5	1346	53.4	1794	71.2	178	E 1542/40 x 178								
21.8	1107	50.8	1328	60.9	1770	81.2	203	E 1542/40 x 203								
17	1080	63.5	1295	76.2	1727	101.6	254	E 1542/40 x 254								
14.8	1129	76.3	1354	91.5	1806	122	305	E 1542/40 x 305								
156	2496	16	2995	19.2	3994	25.6	10.9	5.3	25	50					64	E 1542/50 x 64
125	2375	19	2850	22.8	3800	30.4									76	E 1542/50 x 76
109	2431	22.3	2910	26.7	3880	35.6					89	E 1542/50 x 89				
94	2397	25.5	2876	30.6	3835	40.8					102	E 1542/50 x 102				
81	2333	28.8	2795	34.5	3726	46					115	E 1542/50 x 115				
71	2258	31.8	2705	38.1	3607	50.8					127	E 1542/50 x 127				
66.5	2328	35	2793	42	3724	56					139	E 1542/50 x 139				
60	2280	38	2736	45.6	3648	60.8					152	E 1542/50 x 152				
52	2314	44.5	2777	53.4	3702	71.2					178	E 1542/50 x 178				
44	2235	50.8	2680	60.9	3573	81.2					203	E 1542/50 x 203				
35	2223	63.5	2667	76.2	3556	101.6					254	E 1542/50 x 254				
28.5	2175	76.3	2608	91.5	3477	122					305	E 1542/50 x 305				
189	3591	19	4309	22.8	5746	30.4					11	7.8	38	63	76	E 1542/63 x 76
158	3523	22.3	4219	26.7	5625	35.6									89	E 1542/63 x 89
131	3341	25.5	4009	30.6	5345	40.8									102	E 1542/63 x 102
116		28.8	4002	34.5	5336	46	115	E 1542/63 x 115								
103	3275	31.8	3924	38.1	5232	50.8	127	E 1542/63 x 127								
84.3	3203	38	3844	45.6	5125	60.8	152	E 1542/63 x 152								
71.5	3182	44.5	3818	53.4	5091	71.2	178	E 1542/63 x 178								
61.7	3134	50.8	3725	60.9	5010	81.2	203	E 1542/63 x 203								
47	2985	63.5	3581	76.2	4775	101.6	254	E 1542/63 x 254								
38.2	2915	76.3	3495	91.5	4660	122	305	E 1542/63 x 305								

1) c: Federrate (Kraftzunahme pro mm Federweg) / c: spring rate (load increase per mm spring travel)

2) 75% Lo \triangleq S1=25% Lo: Lange Lebensdauer (> 3 Mio. Lastwechsel) / 75% Lo \triangleq S1=25% Lo: long service life (> 3 million changes of load)

3) 70% Lo \triangleq S2=30% Lo: Mittlere Lebensdauer (~1.5 Mio. Lastwechsel) / 70% Lo \triangleq S2=30% Lo: medium service life (~1.5 million changes of load)

4) 60% Lo \triangleq Sn=40% Lo: Max. zulässiger Federweg (~200.000 Lastwechsel) / 60% Lo \triangleq Sn=40% Lo: maximum travel (~200.000 changes of load)

5) t max. = 250°C: Ab 120°C: 1%-2% Spannungsverlust pro 40°C / t max. = 250°C: from 120°C: loss of spring load is 1%-2% per 40°C



1 N = 0.1 daN = 0.102 kg