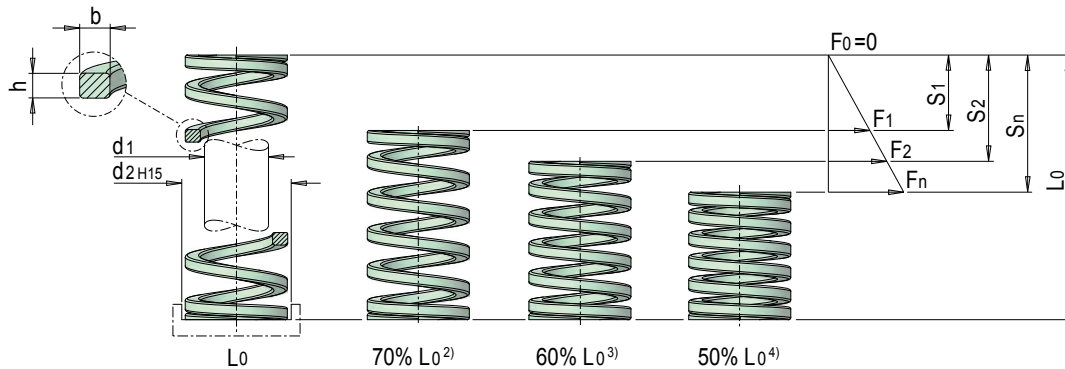


E 1541



Systemdruckfeder, sehr geringe Belastung

System compression spring, very light load



t max. = 250°C⁵⁾

c [N/mm] ¹⁾	F1 [N]	S1	F2 [N]	S2	Fn [N]	Sn	b	h	d1	d2	Lo	Nr. / No.				
8.5	64	7.5	85	10	106	12.5	1.65	1	5	10	25	E 1541/10 x 25				
6.5	62	9.6	83	12.8	104	16					32	E 1541/10 x 32				
5.5	63	11.4	84	15.2	105	19					38	E 1541/10 x 38				
4.8		13.2		17.6	106	22					44	E 1541/10 x 44				
4.2	64	15.3	86	20.4	107	25.5					51	E 1541/10 x 51				
3.3	63	19.2	84	25.6	106	32					64	E 1541/10 x 64				
2.7	62	22.8	82	30.4	103	38					76	E 1541/10 x 76				
0.7	59	91.5	79	122	99	152.5					305	E 1541/10 x 305				
16	120	7.5	160	10	200	12.5					2.3	1.3	6.3	12.5	25	E 1541/12,5 x 25
12.2	117	9.6	156	12.8	195	16									32	E 1541/12,5 x 32
10.3		11.4	157	15.2	196	19	38	E 1541/12,5 x 38								
8.7	115	13.2	153	17.6	191	22	44	E 1541/12,5 x 44								
7.5		15.3		20.4		25.5	51	E 1541/12,5 x 51								
5.8	111	19.2	148	25.6	186	32	64	E 1541/12,5 x 64								
4.7	107	22.8	143	30.4	179	38	76	E 1541/12,5 x 76								
4.1	109	26.7	146	35.6	182	44.5	89	E 1541/12,5 x 89								
3.6	110	30.6	147	40.8	184	51	102	E 1541/12,5 x 102								
1.3	114	91.5	153	122	191	152.5	305	E 1541/12,5 x 305								
20.2	152	7.5	202	10	253	12.5	3.05	1.5	8	16	25	E 1541/16 x 25				
16	154	9.6	205	12.8	256	16					32	E 1541/16 x 32				
12.3	140	11.4	187	15.2	234	19					38	E 1541/16 x 38				
10.6		13.2		17.6	233	22					44	E 1541/16 x 44				
8.9	136	15.3	182	20.4	227	25.5					51	E 1541/16 x 51				
7	134	19.2	179	25.6	224	32					64	E 1541/16 x 64				
5.8	132	22.8	176	30.4	220	38					76	E 1541/16 x 76				
4.8	128	26.7	171	35.6	214	44.5					89	E 1541/16 x 89				
4.1	125	30.6	167	40.8	209	51					102	E 1541/16 x 102				
3.9	135	34.5	179	46	224	57.5					115	E 1541/16 x 115				
1.5	137	91.5	183	122	229	152.5	305	E 1541/16 x 305								
29.4	221	7.5	294	10	368	12.5	3.9	1.7	10	20	25	E 1541/20 x 25				
22.6	217	9.6	289	12.8	362	16					32	E 1541/20 x 32				
18.6	212	11.4	283	15.2	353	19					38	E 1541/20 x 38				
15.7	207	13.2	276	17.6	345	22					44	E 1541/20 x 44				
13.7	210	15.3	279	20.4	349	25.5					51	E 1541/20 x 51				
11.3	217	19.2	289	25.6	362	32					64	E 1541/20 x 64				
9.8	223	22.8	298	30.4	372	38					76	E 1541/20 x 76				
8.3	222	26.7	295	35.6	369	44.5					89	E 1541/20 x 89				
7.4	226	30.6	302	40.8	377	51					102	E 1541/20 x 102				
6.4	221	34.5	294	46	368	57.5					115	E 1541/20 x 115				
5.9	225	38.1	300	50.8	375	63.5	127	E 1541/20 x 127								
5.4		41.7		55.6		69.5	139	E 1541/20 x 139								
4.9	223	45.6	298	60.8	372	76	152	E 1541/20 x 152								
2.5	229	91.5	305	122	381	152.5	305	E 1541/20 x 305								
53.9	404	7.5	539	10	674	12.5	5.4	2.2	12.5	25	25	E 1541/25 x 25				
42.2	405	9.6	540	12.8	675	16					32	E 1541/25 x 32				
35.8	408	11.4	544	15.2	680	19					38	E 1541/25 x 38				
31.4	414	13.2	553	17.6	691	22					44	E 1541/25 x 44				
27	413	15.3	551	20.4	689	25.5					51	E 1541/25 x 51				
21.6	415	19.2	553	25.6	691	32					64	E 1541/25 x 64				
18.1	413	22.8	550	30.4	688	38					76	E 1541/25 x 76				
15.2	406	26.7	541	35.6	676	44.5					89	E 1541/25 x 89				
13.2	404	30.6	539	40.8	673	51					102	E 1541/25 x 102				
11.8	407	34.5	543	46	679	57.5					115	E 1541/25 x 115				
10.6	404	38.1	538	50.8	673	63.5	127	E 1541/25 x 127								
9.6	400	41.7	534	55.6	667	69.5	139	E 1541/25 x 139								
8.8	401	45.6	535	60.8	669	76	152	E 1541/25 x 152								
7.6	406	53.4	541	71.2	676	89	178	E 1541/25 x 178								
6.7	408	60.9	544	81.2	680	101.5	203	E 1541/25 x 203								
4.4	403	91.5	537	122	671	152.5	305	E 1541/25 x 305								
43.1	491	11.4	655	15.2	819	19	6.5	2.6	16	32	38	E 1541/32 x 38				
37.3	492	13.2	656	17.6	821	22					44	E 1541/32 x 44				



c [N/mm] ¹⁾	F1 [N]	S1	F2 [N]	S2	Fn [N]	Sn	b	h	d1	d2	Lo	Nr. / No.				
32.4	496	15.3	661	20.4	826	25.5	6.5	2.6	16	32	51	E 1541/32 x 51				
25.5	490	19.2	653	25.6	816	32					64	E 1541/32 x 64				
21.6	492	22.8	657	30.4	821	38					76	E 1541/32 x 76				
18.1	483	26.7	644	35.6	805	44.5					89	E 1541/32 x 89				
15.7	480	30.6	641	40.8	801	51					102	E 1541/32 x 102				
14.2	490	34.5	653	46	817	57.5					115	E 1541/32 x 115				
12.7	484	38.1	645	50.8	806	63.5					127	E 1541/32 x 127				
11.6		41.7		55.6		69.5					139	E 1541/32 x 139				
10.6	483	45.6	644	60.8		76					152	E 1541/32 x 152				
9	481	53.4	641	71.2	801	89					178	E 1541/32 x 178				
7.8	475	60.9	633	81.2	792	101.5					203	E 1541/32 x 203				
6.4	488	76.2	650	101.6	813	127					254	E 1541/32 x 254				
5.3	485	91.5	647	122	808	152.5					305	E 1541/32 x 305				
48.1	736	15.3	981	20.4	1227	25.5					8	3.4	20	40	51	E 1541/40 x 51
39.2	753	19.2	1004	25.6	1254	32									64	E 1541/40 x 64
33.3	759	22.8	1012	30.4	1265	38									76	E 1541/40 x 76
28.4	758	26.7	1011	35.6	1264	44.5									89	E 1541/40 x 89
24.5	750	30.6	1000	40.8	1250	51	102	E 1541/40 x 102								
22.1	762	34.5	1017	46	1271	57.5	115	E 1541/40 x 115								
19.6	747	38.1	996	50.8	1245	63.5	127	E 1541/40 x 127								
17.7	738	41.7	984	55.6	1230	69.5	139	E 1541/40 x 139								
16.2	739	45.6	985	60.8	1231	76	152	E 1541/40 x 152								
13.7	732	53.4	975	71.2	1219	89	178	E 1541/40 x 178								
12.3	749	60.9	999	81.2	1248	101.5	203	E 1541/40 x 203								
9.8	747	76.2	996	101.6	1245	127	254	E 1541/40 x 254								
8.3	759	91.5	1013	122	1266	152.5	305	E 1541/40 x 305								
86.3	1657	19.2	2209	25.6	2762	32	10.5	4.1	25	50					64	E 1541/50 x 64
70.6	1610	22.8	2146	30.4	2683	38									76	E 1541/50 x 76
59.8	1597	26.7	2129	35.6	2661	44.5									89	E 1541/50 x 89
52	1591	30.6	2122	40.8	2652	51									102	E 1541/50 x 102
46.1	1590	34.5	2121	46	2651	57.5					115	E 1541/50 x 115				
42.2	1608	38.1	2144	50.8	2680	63.5					127	E 1541/50 x 127				
38.2	1593	41.7	2124	55.6	2655	69.5					139	E 1541/50 x 139				
34.3	1564	45.6	2085	60.8	2607	76					152	E 1541/50 x 152				
29.4	1570	53.4	2093	71.2	2617	89					178	E 1541/50 x 178				
25.5	1553	60.9	2071	81.2	2588	101.5					203	E 1541/50 x 203				
20.6	1570	76.2	2093	101.6	2616	127					254	E 1541/50 x 254				
17.2	1574	91.5	2098	122	2623	152.5					305	E 1541/50 x 305				

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

2) 70% Lo $\hat{=}$ S1=30% Lo: Lange Lebensdauer (> 3 Mio. Lastwechsel) / 70% Lo $\hat{=}$ S1=30% Lo: long service life (> 3 million changes of load)

3) 60% Lo $\hat{=}$ S2=40% Lo: Mittlere Lebensdauer (~1.5 Mio. Lastwechsel) / 60% Lo $\hat{=}$ S2=40% Lo: medium service life (~1.5 million changes of load)

4) 50% Lo $\hat{=}$ Sn=50% Lo: Max. zulässiger Federweg (~200.000 Lastwechsel) / 50% Lo $\hat{=}$ Sn=50% 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