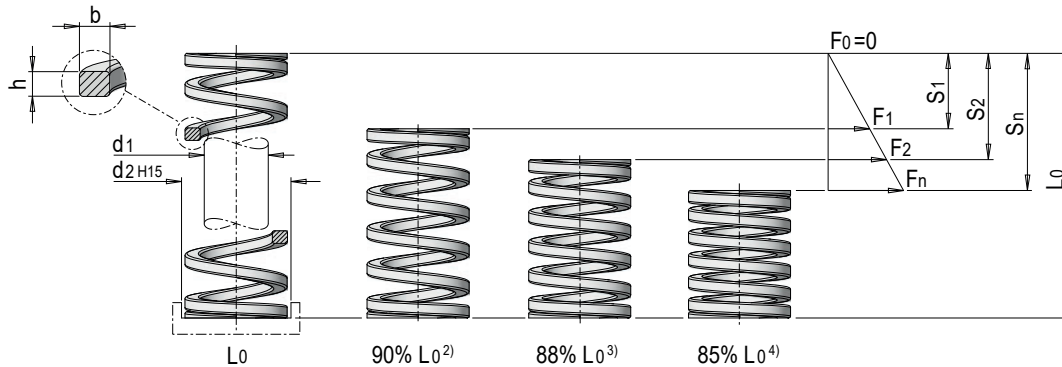


**E 1546**



**Systemdruckfeder, extrem hohe Belastung**

**System compression spring, very heavy load**



t max. = 250°C<sup>5)</sup>

c [N/mm] <sup>1)</sup>	F1 [N]	S1	F2 [N]	S2	Fn [N]	Sn	b	h	d1	d2	Lo	Nr. / No.				
167	418	2.5	501	3	635	3.8	2.0	2.8	5	10	25	E 1546/10 x 25				
130	416	3.2	494	3.8	624	4.8					32	E 1546/10 x 32				
105	399	3.8	483	4.6	599	5.7					38	E 1546/10 x 38				
86	378	4.4	456	5.3	568	6.6					44	E 1546/10 x 44				
79	403	5.1	483	6.1	608	7.7					51	E 1546/10 x 51				
62	397	6.4	476	7.7	595	9.6					64	E 1546/10 x 64				
51	388	7.6	465	9.1	581	11.4					76	E 1546/10 x 76				
288	720	2.5	864	3	1094	3.8					2.75	3.4	6.3	12.5	25	E 1546/12,5 x 25
216	691	3.2	821	3.8	1037	4.8									32	E 1546/12,5 x 32
176	669	3.8	810	4.6	1003	5.7									38	E 1546/12,5 x 38
149	656	4.4	790	5.3	983	6.6	44	E 1546/12,5 x 44								
128	653	5.1	781	6.1	986	7.7	51	E 1546/12,5 x 51								
100	640	6.4	770	7.7	960	9.6	64	E 1546/12,5 x 64								
84	638	7.6	764	9.1	958	11.4	76	E 1546/12,5 x 76								
71	632	8.9	760	10.7	951	13.4	89	E 1546/12,5 x 89								
61	622	10.2	744	12.2	933	15.3	102	E 1546/12,5 x 102								
449	1437	3.2	1706	3.8	2155	4.8	3.5	4.75	8	16					32	E 1546/16 x 32
363	1379	3.8	1670	4.6	2069	5.7					38	E 1546/16 x 38				
309	1360	4.4	1638	5.3	2039	6.6					44	E 1546/16 x 44				
256	1306	5.1	1562	6.1	1971	7.7					51	E 1546/16 x 51				
203	1299	6.4	1563	7.7	1949	9.6					64	E 1546/16 x 64				
166	1262	7.6	1511	9.1	1892	11.4					76	E 1546/16 x 76				
139	1237	8.9	1487	10.7	1863	13.4					89	E 1546/16 x 89				
114	1163	10.2	1391	12.2	1744	15.3					102	E 1546/16 x 102				
105	1208	11.5	1449	13.8	1817	17.3					115	E 1546/16 x 115				
452	1989	4.4	2396	5.3	2983	6.6					4.0	6.0	10	20	44	E 1546/20 x 44
378	1928	5.1	2306	6.1	2911	7.7	51	E 1546/20 x 51								
301	1926	6.4	2318	7.7	2890	9.6	64	E 1546/20 x 64								
247	1877	7.6	2248	9.1	2816	11.4	76	E 1546/20 x 76								
208	1851	8.9	2226	10.7	2787	13.4	89	E 1546/20 x 89								
188	1918	10.2	2294	12.2	2876	15.3	102	E 1546/20 x 102								
159	1829	11.5	2194	13.8	2751	17.3	115	E 1546/20 x 115								
1158	5095	4.4	6137	5.3	7643	6.6	5.6	7.5	12.5	25					44	E 1546/25 x 44
933	4758	5.1	5691	6.1	7184	7.7									51	E 1546/25 x 51
644	4122	6.4	4959	7.7	6182	9.6									64	E 1546/25 x 64
556	4226	7.6	5060	9.1	6338	11.4					76	E 1546/25 x 76				
462	4112	8.9	4943	10.7	6191	13.4					89	E 1546/25 x 89				
390	3978	10.2	4758	12.2	5967	15.3					102	E 1546/25 x 102				
360	4140	11.5	4968	13.8	6228	17.3					115	E 1546/25 x 115				
326		12.7	4955	15.2	6227	19.1					127	E 1546/25 x 127				
255	3876	15.2	4641	18.2	5814	22.8					152	E 1546/25 x 152				
230	4094	17.8	4922	21.4	6141	26.7					178	E 1546/25 x 178				
202	4101	20.3	4929	24.4	6161	30.5	203	E 1546/25 x 203								
1300	5720	4.4	6890	5.3	8580	6.6	7.5	9.2	16	32	44	E 1546/32 x 44				
1150	5865	5.1	7015	6.1	8855	7.7					51	E 1546/32 x 51				
1077	6892	6.4	8293	7.7	10339	9.6					64	E 1546/32 x 64				
874	6642	7.6	7953	9.1	9964	11.4					76	E 1546/32 x 76				
721	6417	8.9	7715	10.7	9661	13.4					89	E 1546/32 x 89				
620	6324	10	7564	12.2	9486	15.3					102	E 1546/32 x 102				
560	6440	11.5	7728	13.8	9688	17.3					115	E 1546/32 x 115				
496	6299	12.7	7539	15.2	9474	19.05					127	E 1546/32 x 127				
408	6202	15.2	7426	18.2	9302	22.8					152	E 1546/32 x 152				
353	6283	17.8	7554	21.4	9425	26.7					178	E 1546/32 x 178				
304	6171	20.3	7418	24.4	9272	30.45	203	E 1546/32 x 203								
243	6172	25.4	7412	30.5	9258	38.1	254	E 1546/32 x 254								
1128	7219	6.4	8686	7.7	10829	9.6	8.5	11	20	40	64	E 1546/40 x 64				
1017	7729	7.6	9255	9.1	11594	11.4					76	E 1546/40 x 76				
880	7832	8.9	9416	10.7	11792	13.4					89	E 1546/40 x 89				
762	7772	10.2	9296	12.2	11659	15.3					102	E 1546/40 x 102				
679	7809	11.5	9370	13.8	11747	17.3					115	E 1546/40 x 115				
622	7899	12.7	9454	15.2	11880	19.1					127	E 1546/40 x 127				



c [N/mm] <sup>1)</sup>	F1 [N]	S1	F2 [N]	S2	Fn [N]	Sn	b	h	d1	d2	Lo	Nr. / No.
509	7737	15.2	9264	18.2	11605	22.8	8.5	11	20	40	152	E 1546/40 x 152
429	7636	17.8	9181	21.4	11454	26.7					178	E 1546/40 x 178
1980	12672	6.4	15246	7.7	19008	9.6	11.8	13.5	25	50	64	E 1546/50 x 64
1811	13764	7.6	16480	9.1	20645	11.4					76	E 1546/50 x 76
1410	12549	8.9	15087	10.7	18894	13.4					89	E 1546/50 x 89
1215	12393	10.2	14823	12.2	18590	15.3					102	E 1546/50 x 102
1076	12374	11.5	14849	13.8	18615	17.3					115	E 1546/50 x 115
968	12294	12.7	14714	15.2	18489	19.1					127	E 1546/50 x 127

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

2) 90% Lo  $\triangleq$  S1=10% Lo: Lange Lebensdauer (> 3 Mio. Lastwechsel) / 90% Lo  $\triangleq$  S1=10% Lo: long service life (> 3 million changes of load)

3) 88% Lo  $\triangleq$  S2=12% Lo: Mittlere Lebensdauer (~1.5 Mio. Lastwechsel) / 88% Lo  $\triangleq$  S2=12% Lo: medium service life (~1.5 million changes of load)

4) 85% Lo  $\triangleq$  Sn=15% Lo: Max. zulässiger Federweg (~200.000 Lastwechsel) / 85% Lo  $\triangleq$  Sn=15% 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

