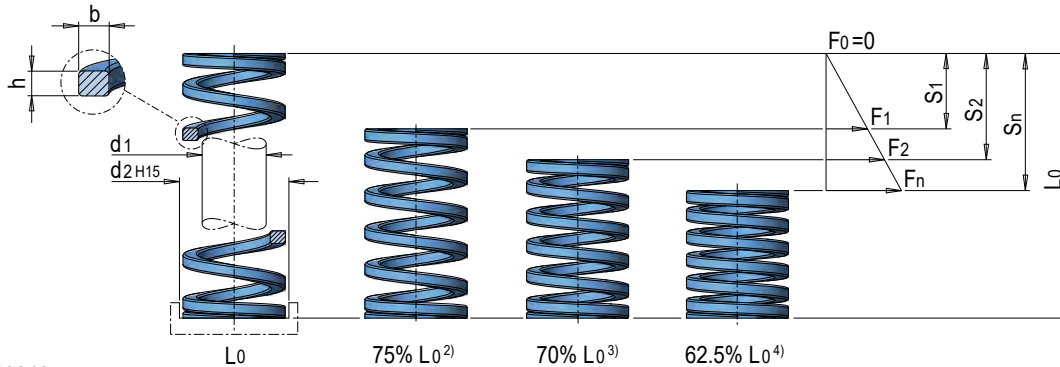


E 1543



Systemdruckfeder, mittlere Belastung, blau

System compression spring, medium load, blue



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. | | | | |
|------------------------|--------|------|--------|------|--------|------|-----|-------------------|------|----|-----|-----------------|-----|------|----|------------------|
| 16 | 101 | 6.3 | 120 | 7.5 | 150 | 9.4 | 1.9 | 1.3 | 5 | 10 | 25 | E 1543/10 x 25 | | | | |
| 13 | 104 | 8 | 125 | 9.6 | 156 | 12 | | | | | 32 | E 1543/10 x 32 | | | | |
| 11.9 | 113 | 9.5 | 136 | 11.4 | 169 | 14.2 | | | | | 38 | E 1543/10 x 38 | | | | |
| 10.3 | | 11 | | 13.2 | 170 | 16.5 | | | | | 44 | E 1543/10 x 44 | | | | |
| 8.9 | 114 | 12.8 | | 15.3 | | 19.1 | | | | | 51 | E 1543/10 x 51 | | | | |
| 7.5 | 120 | 16 | 144 | 19.2 | 180 | 24 | | | | | 64 | E 1543/10 x 64 | | | | |
| 6.2 | 118 | 19 | 141 | 22.8 | 177 | 28.5 | | | | | 76 | E 1543/10 x 76 | | | | |
| 1.6 | 122 | 76.3 | 146 | 91.5 | 182 | 114 | | | | | 305 | E 1543/10 x 305 | | | | |
| 30 | 189 | 6.3 | 225 | 7.5 | 282 | 9.4 | | | | | 2.5 | 1.5 | 6.3 | 12.5 | 25 | E 1543/12,5 x 25 |
| 24.8 | 198 | 8 | 238 | 9.6 | 298 | 12 | | | | | | | | | 32 | E 1543/12,5 x 32 |
| 21.4 | 203 | 9.5 | 244 | 11.4 | 304 | 14.2 | 38 | E 1543/12,5 x 38 | | | | | | | | |
| 18 | 198 | 11 | 238 | 13.2 | 297 | 16.5 | 44 | E 1543/12,5 x 44 | | | | | | | | |
| 15.5 | | 12.8 | 237 | 15.3 | 296 | 19.1 | 51 | E 1543/12,5 x 51 | | | | | | | | |
| 12.1 | 194 | 16 | 232 | 19.2 | 290 | 24 | 64 | E 1543/12,5 x 64 | | | | | | | | |
| 10.2 | | 19 | 233 | 22.8 | 291 | 28.5 | 76 | E 1543/12,5 x 76 | | | | | | | | |
| 8.4 | 187 | 22.3 | 224 | 26.7 | 280 | 33.3 | 89 | E 1543/12,5 x 89 | | | | | | | | |
| 2.4 | 183 | 76.3 | 220 | 91.5 | 274 | 114 | 305 | E 1543/12,5 x 305 | | | | | | | | |
| 49.4 | 311 | 6.3 | 371 | 7.5 | 464 | 9.4 | 3.2 | 2 | 8 | 16 | | | | | 25 | E 1543/16 x 25 |
| 38.5 | 308 | 8 | | 9.6 | 462 | 12 | | | | | 32 | E 1543/16 x 32 | | | | |
| 33.9 | 322 | 9.5 | 386 | 11.4 | 485 | 14.2 | | | | | 38 | E 1543/16 x 38 | | | | |
| 30 | 330 | 11 | 396 | 13.2 | 495 | 16.5 | | | | | 44 | E 1543/16 x 44 | | | | |
| 26.4 | 338 | 12.8 | 404 | 15.3 | 504 | 19.1 | | | | | 51 | E 1543/16 x 51 | | | | |
| 20.5 | 328 | 16 | 394 | 19.2 | 492 | 24 | | | | | 64 | E 1543/16 x 64 | | | | |
| 17.8 | 338 | 19 | 406 | 22.8 | 507 | 28.5 | | | | | 76 | E 1543/16 x 76 | | | | |
| 15.2 | 339 | 22.3 | | 26.7 | 508 | 33.3 | | | | | 89 | E 1543/16 x 89 | | | | |
| 13.5 | 344 | 25.5 | 413 | 30.6 | 517 | 38.2 | | | | | 102 | E 1543/16 x 102 | | | | |
| 4.3 | 328 | 76.3 | 394 | 91.5 | 490 | 114 | | | | | 305 | E 1543/16 x 305 | | | | |
| 98 | 617 | 6.3 | 735 | 7.5 | 921 | 9.4 | 4.1 | 2.4 | 10 | 20 | 25 | E 1543/20 x 25 | | | | |
| 72.6 | 581 | 8 | 697 | 9.6 | 871 | 12 | | | | | 32 | E 1543/20 x 32 | | | | |
| 56 | 532 | 9.5 | 638 | 11.4 | 795 | 14.2 | | | | | 38 | E 1543/20 x 38 | | | | |
| 47.5 | 523 | 11 | 627 | 13.2 | 784 | 16.5 | | | | | 44 | E 1543/20 x 44 | | | | |
| 41.7 | 534 | 12.8 | 638 | 15.3 | 796 | 19.1 | | | | | 51 | E 1543/20 x 51 | | | | |
| 32.3 | 517 | 16 | 620 | 19.2 | 775 | 24 | | | | | 64 | E 1543/20 x 64 | | | | |
| 25.1 | 477 | 19 | 572 | 22.8 | 715 | 28.5 | | | | | 76 | E 1543/20 x 76 | | | | |
| 22 | 491 | 22.3 | 587 | 26.7 | 732 | 33.3 | | | | | 89 | E 1543/20 x 89 | | | | |
| 19.8 | 505 | 25.5 | 606 | 30.6 | 756 | 38.2 | | | | | 102 | E 1543/20 x 102 | | | | |
| 18.1 | 521 | 28.8 | 624 | 34.5 | 780 | 43.1 | | | | | 115 | E 1543/20 x 115 | | | | |
| 16.6 | 528 | 31.8 | 632 | 38.1 | 790 | 47.6 | 127 | E 1543/20 x 127 | | | | | | | | |
| 15.1 | 526 | 34.8 | 630 | 41.7 | 787 | 52.1 | 139 | E 1543/20 x 139 | | | | | | | | |
| 13.2 | 502 | 38 | 602 | 45.6 | 752 | 57 | 152 | E 1543/20 x 152 | | | | | | | | |
| 6.1 | 465 | 76.3 | 558 | 91.5 | 695 | 114 | 305 | E 1543/20 x 305 | | | | | | | | |
| 157 | 989 | 6.3 | 1178 | 7.5 | 1476 | 9.4 | 5.4 | 3.3 | 12.5 | 25 | 25 | E 1543/25 x 25 | | | | |
| 118 | 944 | 8 | 1133 | 9.6 | 1416 | 12 | | | | | 32 | E 1543/25 x 32 | | | | |
| 93 | 884 | 9.5 | 1060 | 11.4 | 1321 | 14.2 | | | | | 38 | E 1543/25 x 38 | | | | |
| 80.8 | 889 | 11 | 1067 | 13.2 | 1333 | 16.5 | | | | | 44 | E 1543/25 x 44 | | | | |
| 68.6 | 878 | 12.8 | 1050 | 15.3 | 1310 | 19.1 | | | | | 51 | E 1543/25 x 51 | | | | |
| 53 | 848 | 16 | 1018 | 19.2 | 1272 | 24 | | | | | 64 | E 1543/25 x 64 | | | | |
| 43.2 | 821 | 19 | 985 | 22.8 | 1231 | 28.5 | | | | | 76 | E 1543/25 x 76 | | | | |
| 38.2 | 852 | 22.3 | 1020 | 26.7 | 1272 | 33.3 | | | | | 89 | E 1543/25 x 89 | | | | |
| 33 | 842 | 25.5 | 1010 | 30.6 | 1261 | 38.2 | | | | | 102 | E 1543/25 x 102 | | | | |
| 28 | 806 | 28.8 | 966 | 34.5 | 1207 | 43.1 | | | | | 115 | E 1543/25 x 115 | | | | |
| 25.9 | 824 | 31.8 | 987 | 38.1 | 1233 | 47.6 | 127 | E 1543/25 x 127 | | | | | | | | |
| 23.2 | 807 | 34.8 | 967 | 41.7 | 1209 | 52.1 | 139 | E 1543/25 x 139 | | | | | | | | |
| 20.8 | 790 | 38 | 948 | 45.6 | 1186 | 57 | 152 | E 1543/25 x 152 | | | | | | | | |
| 17.8 | 792 | 44.5 | 951 | 53.4 | 1189 | 66.8 | 178 | E 1543/25 x 178 | | | | | | | | |
| 15.8 | 803 | 50.8 | 962 | 60.9 | 1202 | 76.1 | 203 | E 1543/25 x 203 | | | | | | | | |
| 10.2 | 778 | 76.3 | 933 | 91.5 | 1163 | 114 | 305 | E 1543/25 x 305 | | | | | | | | |
| 185 | 1758 | 9.5 | 2109 | 11.4 | 2627 | 14.2 | 6.8 | 4 | 16 | 32 | 38 | E 1543/32 x 38 | | | | |
| 158 | 1738 | 11 | 2086 | 13.2 | 2607 | 16.5 | | | | | 44 | E 1543/32 x 44 | | | | |
| 134 | 1715 | 12.8 | 2050 | 15.3 | 2559 | 19.1 | | | | | 51 | E 1543/32 x 51 | | | | |
| 99 | 1584 | 16 | 1901 | 19.2 | 2376 | 24 | | | | | 64 | E 1543/32 x 64 | | | | |



| c [N/mm] ¹⁾ | F1 [N] | S1 | F2 [N] | S2 | Fn [N] | Sn | b | h | d1 | d2 | Lo | Nr. / No. | | | | |
|------------------------|--------|------|--------|------|--------|-------|------|-----------------|----|----|------|-----------------|----|----|----|----------------|
| 80.5 | 1530 | 19 | 1835 | 22.8 | 2294 | 28.5 | 6.8 | 4 | 16 | 32 | 76 | E 1543/32 x 76 | | | | |
| 69.1 | 1541 | 22.3 | 1845 | 26.7 | 2301 | 33.3 | | | | | 89 | E 1543/32 x 89 | | | | |
| 58.8 | 1499 | 25.5 | 1799 | 30.6 | 2246 | 38.2 | | | | | 102 | E 1543/32 x 102 | | | | |
| 51.5 | 1483 | 28.8 | 1777 | 34.5 | 2220 | 43.1 | | | | | 115 | E 1543/32 x 115 | | | | |
| 44.8 | 1425 | 31.8 | 1707 | 38.1 | 2132 | 47.6 | | | | | 127 | E 1543/32 x 127 | | | | |
| 42.3 | 1472 | 34.8 | 1764 | 41.7 | 2204 | 52.1 | | | | | 139 | E 1543/32 x 139 | | | | |
| 37.8 | 1436 | 38 | 1724 | 45.6 | 2155 | 57 | | | | | 152 | E 1543/32 x 152 | | | | |
| 32.5 | 1446 | 44.5 | 1736 | 53.4 | 2168 | 66.7 | | | | | 178 | E 1543/32 x 178 | | | | |
| 28.9 | 1468 | 50.8 | 1760 | 60.9 | 2199 | 76.1 | | | | | 203 | E 1543/32 x 203 | | | | |
| 22.2 | 1410 | 63.5 | 1692 | 76.2 | 2113 | 95.2 | | | | | 254 | E 1543/32 x 254 | | | | |
| 18.3 | 1396 | 76.3 | 1674 | 91.5 | 2086 | 114 | | | | | 305 | E 1543/32 x 305 | | | | |
| 182 | 2330 | 12.8 | 2785 | 15.3 | 3476 | 19.1 | | | | | 8.2 | 4.7 | 20 | 40 | 51 | E 1543/40 x 51 |
| 140 | 2240 | 16 | 2688 | 19.2 | 3360 | 24 | | | | | | | | | 64 | E 1543/40 x 64 |
| 108 | 2052 | 19 | 2462 | 22.8 | 3078 | 28.5 | | | | | | | | | 76 | E 1543/40 x 76 |
| 90.7 | 2023 | 22.3 | 2422 | 26.7 | 3020 | 33.3 | 89 | E 1543/40 x 89 | | | | | | | | |
| 81 | 2066 | 25.5 | 2479 | 30.6 | 3094 | 38.2 | 102 | E 1543/40 x 102 | | | | | | | | |
| 71.8 | 2068 | 28.8 | 2477 | 34.5 | 3095 | 43.1 | 115 | E 1543/40 x 115 | | | | | | | | |
| 62.7 | 1994 | 31.8 | 2389 | 38.1 | 2985 | 47.6 | 127 | E 1543/40 x 127 | | | | | | | | |
| 57.5 | 2001 | 34.8 | 2398 | 41.7 | 2996 | 52.1 | 139 | E 1543/40 x 139 | | | | | | | | |
| 51.6 | 1961 | 38 | 2353 | 45.6 | 2941 | 57 | 152 | E 1543/40 x 152 | | | | | | | | |
| 44.1 | 1962 | 44.5 | 2355 | 53.4 | | 66.7 | 178 | E 1543/40 x 178 | | | | | | | | |
| 36.7 | 1864 | 50.8 | 2235 | 60.9 | 2793 | 76.1 | 203 | E 1543/40 x 203 | | | | | | | | |
| 30.1 | 1911 | 63.5 | 2294 | 76.2 | 2866 | 95.2 | 254 | E 1543/40 x 254 | | | | | | | | |
| 24.6 | 1877 | 76.3 | 2251 | 91.5 | 2804 | 114 | 305 | E 1543/40 x 305 | | | | | | | | |
| 209 | 3344 | 16 | 4013 | 19.2 | 5016 | 24 | 11.1 | 5.8 | 25 | 50 | | | | | 64 | E 1543/50 x 64 |
| 168 | 3192 | 19 | 3830 | 22.8 | 4788 | 28.5 | | | | | 76 | E 1543/50 x 76 | | | | |
| 140 | 3122 | 22.3 | 3738 | 26.7 | 4662 | 33.3 | | | | | 89 | E 1543/50 x 89 | | | | |
| 119 | 3035 | 25.5 | 3641 | 30.6 | 4546 | 38.2 | | | | | 102 | E 1543/50 x 102 | | | | |
| 106 | 3053 | 28.8 | 3657 | 34.5 | 4569 | 43.1 | | | | | 115 | E 1543/50 x 115 | | | | |
| 97 | 3085 | 31.8 | 3696 | 38.1 | 4617 | 47.6 | | | | | 127 | E 1543/50 x 127 | | | | |
| 87 | 3028 | 34.8 | 3628 | 41.7 | 4533 | 52.5 | | | | | 139 | E 1543/50 x 139 | | | | |
| 80 | 3040 | 38 | 3648 | 45.6 | 4560 | 57 | | | | | 152 | E 1543/50 x 152 | | | | |
| 69.5 | 3093 | 44.5 | 3711 | 53.4 | 4636 | 66.8 | | | | | 178 | E 1543/50 x 178 | | | | |
| 59.8 | 3038 | 50.8 | 3642 | 60.9 | 4551 | 76.1 | | | | | 203 | E 1543/50 x 203 | | | | |
| 50.9 | 2917 | 57.3 | 3497 | 68.7 | 4367 | 85.9 | | | | | 229 | E 1543/50 x 229 | | | | |
| 46 | 2921 | 63.5 | 3345 | 76.2 | 4379 | 95.3 | | | | | 254 | E 1543/50 x 254 | | | | |
| 38.6 | 2945 | 76.3 | 3532 | 91.5 | 4400 | 114.4 | | | | | 305 | E 1543/50 x 305 | | | | |
| 320 | 6080 | 19 | 7296 | 22.8 | 9120 | 28.5 | | | | | 11.5 | 9.1 | 38 | 63 | 76 | E 1543/63 x 76 |
| 260 | 5798 | 22.3 | 6942 | 26.7 | 8658 | 33.3 | 89 | E 1543/63 x 89 | | | | | | | | |
| 221 | 5636 | 25.5 | 6763 | 30.6 | 8442 | 38.2 | 102 | E 1543/63 x 102 | | | | | | | | |
| 187 | 5386 | 28.8 | 6452 | 34.5 | 8060 | 43.1 | 115 | E 1543/63 x 115 | | | | | | | | |
| 168 | 5342 | 31.8 | 6401 | 38.1 | 7997 | 47.6 | 127 | E 1543/63 x 127 | | | | | | | | |
| 136 | 5168 | 38 | 6202 | 45.6 | 7752 | 57 | 152 | E 1543/63 x 152 | | | | | | | | |
| 114 | 5073 | 44.5 | 6088 | 53.4 | 7604 | 66.7 | 178 | E 1543/63 x 178 | | | | | | | | |
| 100 | 5080 | 50.8 | 6090 | 60.9 | 7610 | 76.1 | 203 | E 1543/63 x 203 | | | | | | | | |
| 89.2 | 5111 | 57.3 | 6128 | 68.7 | 7653 | 85.8 | 229 | E 1543/63 x 229 | | | | | | | | |
| 78.4 | 4978 | 63.5 | 5974 | 76.2 | 7464 | 95.2 | 254 | E 1543/63 x 254 | | | | | | | | |
| 64.7 | 4937 | 76.3 | 5920 | 91.5 | 7376 | 114 | 305 | E 1543/63 x 305 | | | | | | | | |

- 1) c: Federrate (Kraftzunahme pro mm Federweg) / c: spring rate (load increase per mm spring travel)
- 2) 75% Lo \pm S1=25% Lo: Lange Lebensdauer (>3 Mio. Lastwechsel) / 75% Lo \pm S1=25% Lo: long service life (>3 million changes of load)
- 3) 70% Lo \pm S2=30% Lo: Mittlere Lebensdauer (~1.5 Mio. Lastwechsel) / 70% Lo \pm S2=30% Lo: medium service life (~1.5 million changes of load)
- 4) 62.5% Lo \pm Sn=37.5% Lo: Max. zulässiger Federweg (~200.000 Lastwechsel) / 62.5% Lo \pm Sn=37.5% 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