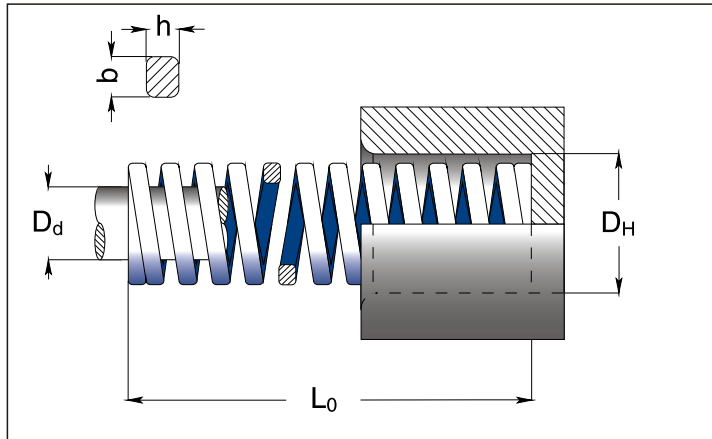


Die spring

Medium load springs

Series **B**

ISO 10243



| D _H | D _d | L ₀ | Catalogue No. | Rate | 25% | | 30% | | 37,5% | | D | |
|----------------|----------------|----------------|-------------------|--------|-----------|-----|-----------|-----|------------|-----|---------|------|
| | | | | | 3.000.000 | | 1.500.000 | | Max. Defl. | | Approx. | |
| b x h | | | | N / mm | mm | N | mm | N | mm | N | mm | N |
| mm | mm | mm | | | | | | | | | | |
| 10 | 5 | 25 | B 10 - 025 | 16.0 | 6.3 | 101 | 7.5 | 120 | 9.4 | 150 | 10.2 | 163 |
| | | 32 | B 10 - 032 | 13.0 | 8.0 | 104 | 9.6 | 125 | 12.0 | 156 | 14.2 | 185 |
| | | 38 | B 10 - 038 | 11.9 | 9.5 | 113 | 11.4 | 136 | 14.3 | 170 | 16.8 | 200 |
| | | 44 | B 10 - 044 | 10.3 | 11.0 | 113 | 13.2 | 136 | 16.5 | 170 | 19.4 | 200 |
| | | 51 | B 10 - 051 | 8.9 | 12.8 | 114 | 15.3 | 136 | 19.1 | 170 | 23.4 | 208 |
| | | 64 | B 10 - 064 | 7.5 | 16.0 | 120 | 19.2 | 144 | 24.0 | 180 | 28.2 | 212 |
| | | 76 | B 10 - 076 | 5.3 | 19.0 | 101 | 22.8 | 121 | 28.5 | 151 | 34.2 | 181 |
| | | 305 | B 10 - 305 | 1.6 | 76.3 | 122 | 91.5 | 146 | 114.4 | 183 | 133.8 | 214 |
| 1.9 x 1.3 | | | | | | | | | | | | |
| 12.5 | 6.3 | 25 | B 13 - 025 | 30.0 | 6.3 | 189 | 7.5 | 225 | 9.4 | 282 | 11.9 | 357 |
| | | 32 | B 13 - 032 | 24.8 | 8.0 | 198 | 9.6 | 238 | 12.0 | 298 | 16.2 | 402 |
| | | 38 | B 13 - 038 | 21.4 | 9.5 | 203 | 11.4 | 244 | 14.3 | 306 | 18.7 | 400 |
| | | 44 | B 13 - 044 | 18.5 | 11.0 | 204 | 13.2 | 244 | 16.5 | 305 | 21.3 | 394 |
| | | 51 | B 13 - 051 | 15.5 | 12.8 | 198 | 15.3 | 237 | 19.1 | 296 | 25.6 | 397 |
| | | 64 | B 13 - 064 | 12.1 | 16.0 | 194 | 19.2 | 232 | 24.0 | 290 | 32.4 | 392 |
| | | 76 | B 13 - 076 | 10.2 | 19.0 | 194 | 22.8 | 233 | 28.5 | 291 | 39.0 | 398 |
| | | 89 | B 13 - 089 | 8.4 | 22.3 | 187 | 26.7 | 224 | 33.4 | 281 | 45.9 | 386 |
| | | 102 | B 13 - 102 | 6.3 | 25.5 | 161 | 30.6 | 193 | 38.3 | 241 | 52.3 | 329 |
| | | 305 | B 13 - 305 | 2.1 | 76.3 | 160 | 91.5 | 192 | 114.4 | 240 | 152.5 | 320 |
| 2.5 x 1.5 | | | | | | | | | | | | |
| 16 | 8 | 25 | B 16 - 025 | 49.4 | 6.3 | 311 | 7.5 | 371 | 9.4 | 464 | 10.5 | 519 |
| | | 32 | B 16 - 032 | 37.1 | 8.0 | 297 | 9.6 | 356 | 12.0 | 445 | 13.2 | 490 |
| | | 38 | B 16 - 038 | 33.9 | 9.5 | 322 | 11.4 | 386 | 14.3 | 485 | 17.2 | 583 |
| | | 44 | B 16 - 044 | 30.0 | 11.0 | 330 | 13.2 | 396 | 16.5 | 495 | 19.4 | 582 |
| | | 51 | B 16 - 051 | 26.4 | 12.8 | 338 | 15.3 | 404 | 19.1 | 504 | 24.2 | 639 |
| | | 64 | B 16 - 064 | 20.5 | 16.0 | 328 | 19.2 | 394 | 24.0 | 492 | 29.2 | 599 |
| | | 76 | B 16 - 076 | 17.8 | 19.0 | 338 | 22.8 | 406 | 28.5 | 507 | 36.3 | 646 |
| | | 89 | B 16 - 089 | 15.2 | 22.3 | 339 | 26.7 | 406 | 33.4 | 508 | 41.7 | 634 |
| | | 102 | B 16 - 102 | 13.5 | 25.5 | 344 | 30.6 | 413 | 38.3 | 517 | 48.9 | 660 |
| | | 115 | B 16 - 115 | 11.8 | 28.8 | 340 | 34.5 | 407 | 43.1 | 509 | 53.1 | 627 |
| | | 305 | B 16 - 305 | 4.8 | 76.3 | 366 | 91.5 | 439 | 114.4 | 549 | 141.6 | 680 |
| 3.2 x 2.0 | | | | | | | | | | | | |
| 20 | 10 | 25 | B 20 - 025 | 98.0 | 6.3 | 617 | 7.5 | 735 | 9.4 | 921 | 10.5 | 1029 |
| | | 32 | B 20 - 032 | 72.6 | 8.0 | 581 | 9.6 | 697 | 12.0 | 871 | 13.9 | 1009 |
| | | 38 | B 20 - 038 | 56.0 | 9.5 | 532 | 11.4 | 638 | 14.3 | 801 | 16.6 | 930 |
| | | 44 | B 20 - 044 | 47.5 | 11.0 | 523 | 13.2 | 627 | 16.5 | 784 | 18.8 | 893 |
| | | 51 | B 20 - 051 | 41.7 | 12.8 | 534 | 15.3 | 638 | 19.1 | 796 | 23.1 | 963 |
| | | 64 | B 20 - 064 | 32.3 | 16.0 | 517 | 19.2 | 620 | 24.0 | 775 | 27.5 | 888 |
| | | 76 | B 20 - 076 | 25.1 | 19.0 | 477 | 22.8 | 572 | 28.5 | 715 | 33.8 | 848 |
| | | 89 | B 20 - 089 | 22.0 | 22.3 | 491 | 26.7 | 587 | 33.4 | 735 | 39.7 | 873 |
| | | 102 | B 20 - 102 | 19.8 | 25.5 | 505 | 30.6 | 606 | 38.3 | 758 | 47.3 | 937 |
| | | 115 | B 20 - 115 | 18.1 | 28.8 | 521 | 34.5 | 624 | 43.1 | 780 | 52.5 | 950 |
| | | 127 | B 20 - 127 | 16.6 | 31.8 | 528 | 38.1 | 632 | 47.6 | 790 | 56.9 | 945 |
| | | 139 | B 20 - 139 | 15.1 | 35.0 | 529 | 42.0 | 634 | 52.5 | 793 | 62.1 | 938 |
| | | 152 | B 20 - 152 | 13.2 | 38.0 | 500 | 45.6 | 600 | 57.0 | 750 | 67.6 | 889 |
| | | 305 | B 20 - 305 | 6.1 | 76.3 | 465 | 91.5 | 558 | 114.4 | 698 | 143.4 | 875 |
| | | 4.1 x 2.4 | | | | | | | | | | |

Note: 1 N = 0,102 Kg (force)

| D _H | D _d | L ₀ | Catalogue No. | Rate | 25% | | 30% | | 37,5% | | D | | | |
|----------------|----------------|----------------|---------------|-------|------------|------|-----------|------|------------|------|---------|------|-------|------|
| | | | | | 3.000.000 | | 1.500.000 | | Max. Defl. | | Approx. | | | |
| b x h | | mm | N / mm | mm | N | mm | N | mm | N | mm | N | | | |
| mm | mm | | | | | | | | | | | | | |
| 25 | 12.5 | 25 | B 25 - 025 | 147 | 6,3 | 926 | 7,5 | 1103 | 9,4 | 1382 | 10,2 | 1499 | | |
| | | 32 | B 25 - 032 | 118 | 8,0 | 944 | 9,6 | 1133 | 12,0 | 1416 | 13,7 | 1617 | | |
| | | 38 | B 25 - 038 | 93,0 | 9,5 | 884 | 11,4 | 1060 | 14,3 | 1330 | 15,7 | 1460 | | |
| | | 44 | B 25 - 044 | 80,8 | 11,0 | 889 | 13,2 | 1067 | 16,5 | 1333 | 18,2 | 1471 | | |
| | | 51 | B 25 - 051 | 68,6 | 12,8 | 878 | 15,3 | 1050 | 19,1 | 1310 | 21,7 | 1489 | | |
| | | 64 | B 25 - 064 | 53,0 | 16,0 | 848 | 19,2 | 1018 | 24,0 | 1272 | 26,0 | 1378 | | |
| | | 76 | B 25 - 076 | 43,2 | 19,0 | 821 | 22,8 | 985 | 28,5 | 1231 | 32,3 | 1395 | | |
| | | 89 | B 25 - 089 | 38,2 | 22,3 | 852 | 26,7 | 1020 | 33,4 | 1276 | 38,0 | 1452 | | |
| | | 102 | B 25 - 102 | 33,0 | 25,5 | 842 | 30,6 | 1010 | 38,3 | 1264 | 43,0 | 1419 | | |
| | | 115 | B 25 - 115 | 28,0 | 28,8 | 806 | 34,5 | 966 | 43,1 | 1207 | 48,6 | 1361 | | |
| | | 127 | B 25 - 127 | 25,9 | 31,8 | 824 | 38,1 | 987 | 47,6 | 1233 | 53,7 | 1391 | | |
| | | 139 | B 25 - 139 | 23,2 | 35,0 | 812 | 42,0 | 974 | 52,5 | 1218 | 59,4 | 1378 | | |
| | | 152 | B 25 - 152 | 20,8 | 38,0 | 790 | 45,6 | 948 | 57,0 | 1186 | 63,8 | 1327 | | |
| | | 178 | B 25 - 178 | 17,8 | 44,5 | 792 | 53,4 | 951 | 66,8 | 1189 | 76,6 | 1363 | | |
| 5.4 x 3.3 | | 203 | B 25 - 203 | 15,8 | 50,8 | 803 | 60,9 | 962 | 76,1 | 1202 | 88,4 | 1397 | | |
| | | 305 | B 25 - 305 | 10,2 | 76,3 | 778 | 91,5 | 933 | 114,4 | 1167 | 135,1 | 1378 | | |
| 32 | 16 | 38 | B 32 - 038 | 185 | 9,5 | 1758 | 11,4 | 2109 | 14,3 | 2646 | 16,3 | 3016 | | |
| | | 44 | B 32 - 044 | 158 | 11,0 | 1738 | 13,2 | 2086 | 16,5 | 2607 | 18,9 | 2986 | | |
| | | 51 | B 32 - 051 | 134 | 12,8 | 1715 | 15,3 | 2050 | 19,1 | 2559 | 23,1 | 3095 | | |
| | | 64 | B 32 - 064 | 99,0 | 16,0 | 1584 | 19,2 | 1901 | 24,0 | 2376 | 28,5 | 2822 | | |
| | | 76 | B 32 - 076 | 80,5 | 19,0 | 1530 | 22,8 | 1835 | 28,5 | 2294 | 34,2 | 2753 | | |
| | | 89 | B 32 - 089 | 69,1 | 22,3 | 1541 | 26,7 | 1845 | 33,4 | 2308 | 40,4 | 2792 | | |
| | | 102 | B 32 - 102 | 58,8 | 25,5 | 1499 | 30,6 | 1799 | 38,3 | 2252 | 48,0 | 2822 | | |
| | | 115 | B 32 - 115 | 51,5 | 28,8 | 1483 | 34,5 | 1777 | 43,1 | 2220 | 54,3 | 2796 | | |
| | | 127 | B 32 - 127 | 44,8 | 31,8 | 1425 | 38,1 | 1707 | 47,6 | 2132 | 59,2 | 2652 | | |
| | | 139 | B 32 - 139 | 42,3 | 35,0 | 1481 | 42,0 | 1777 | 52,5 | 2221 | 65,3 | 2762 | | |
| | | 152 | B 32 - 152 | 37,8 | 38,0 | 1436 | 45,6 | 1724 | 57,0 | 2155 | 73,0 | 2759 | | |
| | | 178 | B 32 - 178 | 32,5 | 44,5 | 1446 | 53,4 | 1736 | 66,8 | 2171 | 84,5 | 2746 | | |
| | | 203 | B 32 - 203 | 28,9 | 50,8 | 1468 | 60,9 | 1760 | 76,1 | 2199 | 96,9 | 2800 | | |
| | | 6.8 x 4.0 | | 254 | B 32 - 254 | 21,4 | 63,5 | 1359 | 76,2 | 1631 | 95,3 | 2039 | 120,9 | 2587 |
| | | 305 | B 32 - 305 | 18,3 | 76,3 | 1396 | 91,5 | 1674 | 114,4 | 2094 | 146,9 | 2688 | | |
| 40 | 20 | 51 | B 40 - 051 | 181,6 | 12,8 | 2324 | 15,3 | 2778 | 19,1 | 3469 | 21,4 | 3886 | | |
| | | 64 | B 40 - 064 | 140,0 | 16,0 | 2240 | 19,2 | 2688 | 24,0 | 3360 | 26,8 | 3752 | | |
| | | 76 | B 40 - 076 | 108,0 | 19,0 | 2052 | 22,8 | 2462 | 28,5 | 3078 | 32,7 | 3532 | | |
| | | 89 | B 40 - 089 | 90,7 | 22,3 | 2023 | 26,7 | 2422 | 33,4 | 3029 | 39,0 | 3537 | | |
| | | 102 | B 40 - 102 | 81,0 | 25,5 | 2066 | 30,6 | 2479 | 38,3 | 3102 | 44,1 | 3572 | | |
| | | 115 | B 40 - 115 | 71,8 | 28,8 | 2068 | 34,5 | 2477 | 43,1 | 3095 | 50,6 | 3633 | | |
| | | 127 | B 40 - 127 | 62,7 | 31,8 | 1994 | 38,1 | 2389 | 47,6 | 2985 | 55,9 | 3505 | | |
| | | 139 | B 40 - 139 | 57,5 | 35,0 | 2013 | 42,0 | 2415 | 52,5 | 3019 | 61,8 | 3554 | | |
| | | 152 | B 40 - 152 | 51,6 | 38,0 | 1961 | 45,6 | 2353 | 57,0 | 2941 | 67,5 | 3483 | | |
| | | 178 | B 40 - 178 | 44,1 | 44,5 | 1962 | 53,4 | 2355 | 66,8 | 2946 | 77,2 | 3405 | | |
| | | 203 | B 40 - 203 | 36,7 | 50,8 | 1864 | 60,9 | 2235 | 76,1 | 2793 | 91,8 | 3369 | | |
| | | 254 | B 40 - 254 | 30,1 | 63,5 | 1911 | 76,2 | 2294 | 95,3 | 2869 | 112,7 | 3392 | | |
| | | 8.2 x 4.7 | | 305 | B 40 - 305 | 24,6 | 76,3 | 1877 | 91,5 | 2251 | 114,4 | 2814 | 138,1 | 3397 |
| | | 50 | 25 | 64 | B 50 - 064 | 209 | 16,0 | 3344 | 19,2 | 4013 | 24,0 | 5016 | 28,2 | 5894 |
| 76 | B 50 - 076 | | | 168 | 19,0 | 3192 | 22,8 | 3830 | 28,5 | 4788 | 34,9 | 5863 | | |
| 89 | B 50 - 089 | | | 140 | 22,3 | 3122 | 26,7 | 3738 | 33,4 | 4676 | 39,2 | 5488 | | |
| 102 | B 50 - 102 | | | 119 | 25,5 | 3035 | 30,6 | 3641 | 38,3 | 4558 | 47,3 | 5629 | | |
| 115 | B 50 - 115 | | | 106 | 28,8 | 3053 | 34,5 | 3657 | 43,1 | 4569 | 52,6 | 5576 | | |
| 127 | B 50 - 127 | | | 97,0 | 31,8 | 3085 | 38,1 | 3696 | 47,6 | 4617 | 59,8 | 5801 | | |
| 139 | B 50 - 139 | | | 87,0 | 35,0 | 3045 | 42,0 | 3654 | 52,5 | 4568 | 65,1 | 5664 | | |
| 152 | B 50 - 152 | | | 80,0 | 38,0 | 3040 | 45,6 | 3648 | 57,0 | 4560 | 70,8 | 5664 | | |
| 178 | B 50 - 178 | | | 69,5 | 44,5 | 3093 | 53,4 | 3711 | 66,8 | 4643 | 84,2 | 5852 | | |
| 203 | B 50 - 203 | | | 59,8 | 50,8 | 3038 | 60,9 | 3642 | 76,1 | 4551 | 96,5 | 5771 | | |
| 229 | B 50 - 229 | | | 50,9 | 57,3 | 2917 | 68,7 | 3497 | 85,9 | 4372 | 108,5 | 5523 | | |
| 254 | B 50 - 254 | | | 43,9 | 63,5 | 2788 | 76,2 | 3345 | 95,3 | 4184 | 121,8 | 5347 | | |
| 11.1 x 5.8 | | | | 305 | B 50 - 305 | 38,6 | 76,3 | 2945 | 91,5 | 3532 | 114,4 | 4416 | 146,8 | 5666 |
| 63 | 38 | | | 76 | B 63 - 076 | 312 | 19,0 | 5928 | 22,8 | 7114 | 28,5 | 8892 | 30,7 | 9578 |
| | | 89 | B 63 - 089 | 260 | 22,3 | 5798 | 26,7 | 6942 | 33,4 | 8684 | 36,5 | 9490 | | |
| | | 102 | B 63 - 102 | 221 | 25,5 | 5636 | 30,6 | 6763 | 38,3 | 8464 | 43,6 | 9636 | | |
| | | 115 | B 63 - 115 | 187 | 28,8 | 5386 | 34,5 | 6452 | 43,1 | 8060 | 48,9 | 9144 | | |
| | | 127 | B 63 - 127 | 168 | 31,8 | 5342 | 38,1 | 6401 | 47,6 | 7997 | 54,2 | 9106 | | |
| | | 152 | B 63 - 152 | 136 | 38,0 | 5168 | 45,6 | 6202 | 57,0 | 7752 | 65,7 | 8935 | | |
| | | 178 | B 63 - 178 | 114 | 44,5 | 5073 | 53,4 | 6088 | 66,8 | 7615 | 76,5 | 8721 | | |
| | | 203 | B 63 - 203 | 100 | 50,8 | 5080 | 60,9 | 6090 | 76,1 | 7610 | 88,0 | 8800 | | |
| | | 229 | B 63 - 229 | 89,2 | 57,3 | 5111 | 68,7 | 6128 | 85,9 | 7662 | 103,9 | 9268 | | |
| | | 254 | B 63 - 254 | 78,4 | 63,5 | 4978 | 76,2 | 5974 | 95,3 | 7472 | 112,4 | 8812 | | |
| | | 11.5 x 9.1 | | 305 | B 63 - 305 | 64,7 | 76,3 | 4937 | 91,5 | 5920 | 114,4 | 7402 | 133,8 | 8657 |

