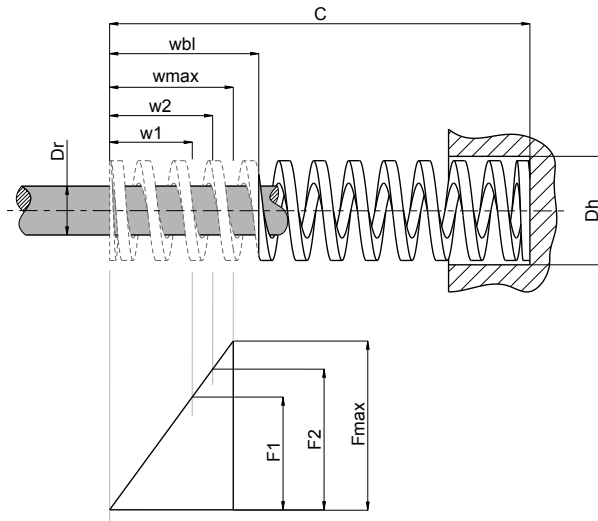


9-XXXXX-1

Leichte Belastung - ISO-Farbcode Grün / Light load - ISO color green



| Bohr Ø / Hole Diam. Dh (mm) | Bolzen Ø / Rod Diam. Dr (mm) | Länge / Free Length C (mm) | Bestellnr. / Order No. | Federrate / Rate | Federweg Langlebigkeit / Deflection for long life (25% of C) | | Federweg Ø-Haltbarkeit / Deflection for average life (30% of C) | | Max. Arbeitsfederweg / Max. operating Deflection (40% of C) | | Max. Federweg / Max. Def. wbl (solid) (mm) |
|-----------------------------------|------------------------------------|----------------------------------|---------------------------|---------------------|--|---------------------------|---|---------------------------|---|------------------------|--|
| | | | | | Kraft / Load F1 (N) | Weg / Defl. w1 (mm) | Kraft / Load F2 (N) | Weg / Defl. w2 (mm) | Kraft / Load Fmax | Weg / Defl. wmax | |
| 10 | 5 | 25 | 9-10025-1 | 11,0 | 69 | 6,3 | 83 | 7,5 | 110 | 10,0 | 14,3 |
| | | 32 | 9-10032-1 | 8,8 | 70 | 8,0 | 84 | 9,6 | 112 | 12,8 | 18,3 |
| | | 38 | 9-10038-1 | 7,4 | 70 | 9,5 | 84 | 11,4 | 112 | 15,2 | 22,0 |
| | | 44 | 9-10044-1 | 6,3 | 69 | 11,0 | 83 | 13,2 | 111 | 17,6 | 26,0 |
| | | 51 | 9-10051-1 | 5,4 | 68 | 12,8 | 82 | 15,3 | 109 | 20,4 | 29,0 |
| | | 64 | 9-10064-1 | 4,5 | 72 | 16,0 | 86 | 19,2 | 115 | 25,6 | 38,0 |
| | | 76 | 9-10076-1 | 3,7 | 71 | 19,0 | 85 | 22,8 | 113 | 30,4 | 46,0 |
| 305 | 9-10305-1 | 0,9 | 65 | 76,3 | 79 | 91,5 | 105 | 122,0 | 178,0 | | |
| 13 | 6 | 25 | 9-13025-1 | 19,1 | 119 | 6,3 | 143 | 7,5 | 191 | 10,0 | 13,6 |
| | | 32 | 9-13032-1 | 16,5 | 132 | 8,0 | 158 | 9,6 | 211 | 12,8 | 18,3 |
| | | 38 | 9-13038-1 | 13,7 | 130 | 9,5 | 156 | 11,4 | 208 | 15,2 | 22,0 |
| | | 44 | 9-13044-1 | 11,6 | 127 | 11,0 | 153 | 13,2 | 203 | 17,6 | 26,0 |
| | | 51 | 9-13051-1 | 10,2 | 130 | 12,8 | 155 | 15,3 | 207 | 20,4 | 30,0 |
| | | 64 | 9-13064-1 | 8,2 | 131 | 16,0 | 157 | 19,2 | 209 | 25,6 | 38,0 |
| | | 76 | 9-13076-1 | 6,2 | 118 | 19,0 | 142 | 22,8 | 190 | 30,4 | 44,0 |
| 89 | 9-13089-1 | 5,3 | 119 | 22,3 | 143 | 26,7 | 190 | 35,6 | 52,0 | | |
| 305 | 9-13305-1 | 1,5 | 112 | 76,3 | 135 | 91,5 | 179 | 122,0 | 175,0 | | |
| 16 | 18 | 25 | 9-16025-1 | 31,5 | 197 | 6,3 | 236 | 7,5 | 315 | 10,0 | 13,3 |
| | | 32 | 9-16032-1 | 23,5 | 188 | 8,0 | 225 | 9,6 | 300 | 12,8 | 16,4 |
| | | 38 | 9-16038-1 | 21,0 | 200 | 9,5 | 240 | 11,4 | 319 | 15,2 | 21,0 |
| | | 44 | 9-16044-1 | 17,5 | 193 | 11,0 | 231 | 13,2 | 308 | 17,6 | 26,0 |
| | | 51 | 9-16051-1 | 16,3 | 208 | 12,8 | 249 | 15,3 | 332 | 20,4 | 29,0 |
| | | 64 | 9-16064-1 | 12,6 | 202 | 16,0 | 242 | 19,2 | 323 | 25,6 | 37,0 |
| | | 76 | 9-16076-1 | 10,3 | 196 | 19,0 | 236 | 22,8 | 314 | 30,4 | 44,0 |
| 89 | 9-16089-1 | 9,3 | 207 | 22,3 | 248 | 26,7 | 330 | 35,6 | 53,0 | | |
| 102 | 9-16102-1 | 8,2 | 210 | 25,5 | 252 | 30,6 | 336 | 40,8 | 61,0 | | |
| 305 | 9-16305-1 | 2,6 | 200 | 76,3 | 240 | 91,5 | 320 | 122,0 | 184,0 | | |
| 20 | 10 | 25 | 9-20025-1 | 56,0 | 350 | 6,3 | 420 | 7,5 | 560 | 10,0 | 12,6 |
| | | 32 | 9-20032-1 | 42,7 | 342 | 8,0 | 410 | 9,6 | 547 | 12,8 | 15,9 |
| | | 38 | 9-20038-1 | 33,8 | 321 | 9,5 | 385 | 11,4 | 514 | 15,2 | 18,9 |
| | | 44 | 9-20044-1 | 28,4 | 312 | 11,0 | 375 | 13,2 | 499 | 17,6 | 22,0 |
| | | 51 | 9-20051-1 | 24,9 | 317 | 12,8 | 380 | 15,3 | 507 | 20,4 | 26,0 |
| | | 64 | 9-20064-1 | 19,3 | 308 | 16,0 | 370 | 19,2 | 493 | 25,6 | 32,0 |
| | | 76 | 9-20076-1 | 16,1 | 306 | 19,0 | 367 | 22,8 | 490 | 30,4 | 39,0 |
| | | 89 | 9-20089-1 | 13,5 | 300 | 22,3 | 360 | 26,7 | 480 | 35,6 | 45,0 |
| | | 102 | 9-20102-1 | 11,9 | 304 | 25,5 | 364 | 30,6 | 486 | 40,8 | 53,0 |
| | | 114 | 9-20114-1 | 10,5 | 299 | 28,5 | 359 | 34,2 | 479 | 45,6 | 59,0 |
| | | 127 | 9-20127-1 | 9,3 | 295 | 31,8 | 354 | 38,1 | 472 | 50,8 | 66,0 |
| | | 140 | 9-20140-1 | 8,5 | 297 | 35,0 | 357 | 42,0 | 476 | 56,0 | 73,0 |
| | | 152 | 9-20152-1 | 7,9 | 299 | 38,0 | 359 | 45,6 | 479 | 60,8 | 80,0 |
| | | 305 | 9-20305-1 | 3,8 | 288 | 76,3 | 346 | 91,5 | 462 | 122,0 | 159,0 |



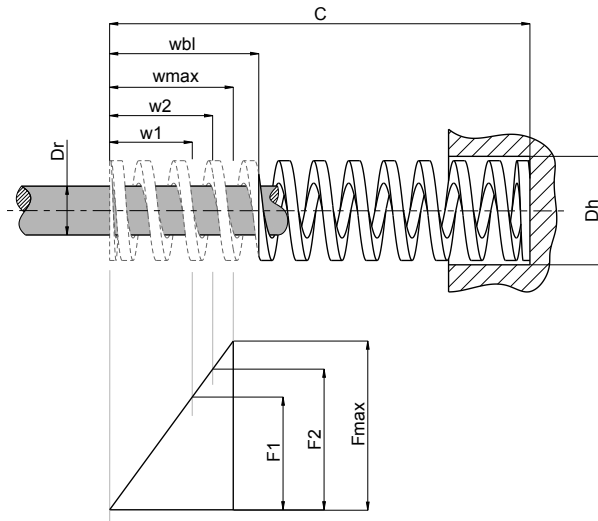


| Bohr Ø / Hole Diam. Dh (mm) | Bolzen Ø / Rod Diam. Dr (mm) | Länge / Free Length C (mm) | Bestellnr. / Order No. | Federrate / Rate | Federweg Langlebigkeit / Deflection for long life (25% of C) | | Federweg Ø-Haltbarkeit / Deflection for average life (30% of C) | | Max. Arbeitsfederweg / Max. operating Deflection (40% of C) | | Max. Federweg / Max. Def wbl (solid) (mm) | | |
|-----------------------------------|------------------------------------|----------------------------------|---------------------------|---------------------|--|---------------------------|---|---------------------------|---|------------------------|---|------|------|
| | | | | | Kraft / Load F1 (N) | Weg / Defl. w1 (mm) | Kraft / Load F2 (N) | Weg / Defl. w2 (mm) | Kraft / Load Fmax | Weg / Defl. wmax | | | |
| 25 | 12,5 | 25 | 9-25025-1 | 107,2 | 670 | 6,3 | 804 | 7,5 | 1072 | 10,0 | 12,3 | | |
| | | 32 | 9-25032-1 | 80,9 | 647 | 8,0 | 777 | 9,6 | 1036 | 12,8 | 15,6 | | |
| | | 38 | 9-25038-1 | 64,8 | 616 | 9,5 | 739 | 11,4 | 985 | 15,2 | 19,0 | | |
| | | 44 | 9-25044-1 | 53,6 | 589 | 11,0 | 707 | 13,2 | 943 | 17,6 | 22,0 | | |
| | | 51 | 9-25051-1 | 46,4 | 592 | 12,8 | 710 | 15,3 | 947 | 20,4 | 26,0 | | |
| | | 64 | 9-25064-1 | 35,7 | 572 | 16,0 | 686 | 19,2 | 915 | 25,6 | 32,0 | | |
| | | 76 | 9-25076-1 | 29,4 | 559 | 19,0 | 671 | 22,8 | 894 | 30,4 | 39,0 | | |
| | | 89 | 9-25089-1 | 24,7 | 549 | 22,3 | 659 | 26,7 | 879 | 35,6 | 45,0 | | |
| | | 102 | 9-25102-1 | 21,2 | 540 | 25,5 | 648 | 30,6 | 865 | 40,8 | 52,0 | | |
| | | 114 | 9-25114-1 | 18,7 | 534 | 28,5 | 641 | 34,2 | 855 | 45,6 | 58,0 | | |
| | | 127 | 9-25127-1 | 16,8 | 534 | 31,8 | 641 | 38,1 | 854 | 50,8 | 65,0 | | |
| | | 140 | 9-25140-1 | 15,2 | 533 | 35,0 | 640 | 42,0 | 853 | 56,0 | 72,0 | | |
| | | 152 | 9-25152-1 | 14,0 | 532 | 38,0 | 639 | 45,6 | 852 | 60,8 | 79,0 | | |
| | | 178 | 9-25178-1 | 12,1 | 538 | 44,5 | 645 | 53,4 | 860 | 71,2 | 93,0 | | |
| | | 203 | 9-25203-1 | 10,5 | 533 | 50,8 | 640 | 60,9 | 853 | 81,2 | 107,0 | | |
| | | 305 | 9-25305-1 | 7,0 | 534 | 76,3 | 641 | 91,5 | 855 | 122,0 | 161,0 | | |
| | | 32 | 16 | 38 | 9-32038-1 | 101,4 | 963 | 9,5 | 1156 | 11,4 | 1541 | 15,2 | 18,1 |
| | | | | 44 | 9-32044-1 | 83,2 | 915 | 11,0 | 1098 | 13,2 | 1464 | 17,6 | 21,0 |
| | | | | 51 | 9-32051-1 | 71,3 | 909 | 12,8 | 1091 | 15,3 | 1454 | 20,4 | 25,0 |
| | | | | 64 | 9-32064-1 | 55,0 | 880 | 16,0 | 1056 | 19,2 | 1408 | 25,6 | 31,0 |
| 76 | 9-32076-1 | | | 46,1 | 875 | 19,0 | 1050 | 22,8 | 1400 | 30,4 | 38,0 | | |
| 89 | 9-32089-1 | | | 38,9 | 865 | 22,3 | 1038 | 26,7 | 1384 | 35,6 | 45,0 | | |
| 102 | 9-32102-1 | | | 33,6 | 857 | 25,5 | 1029 | 30,6 | 1372 | 40,8 | 51,0 | | |
| 114 | 9-32114-1 | | | 29,6 | 844 | 28,5 | 1012 | 34,2 | 1350 | 45,6 | 58,0 | | |
| 127 | 9-32127-1 | | | 26,3 | 834 | 31,8 | 1001 | 38,1 | 1335 | 50,8 | 64,0 | | |
| 140 | 9-32140-1 | | | 23,6 | 827 | 35,0 | 993 | 42,0 | 1324 | 56,0 | 70,0 | | |
| 152 | 9-32152-1 | | | 21,5 | 819 | 38,0 | 982 | 45,6 | 1310 | 60,8 | 77,0 | | |
| 178 | 9-32178-1 | | | 18,2 | 811 | 44,5 | 973 | 53,4 | 1297 | 71,2 | 90,0 | | |
| 203 | 9-32203-1 | | | 15,9 | 809 | 50,8 | 971 | 60,9 | 1294 | 81,2 | 103,0 | | |
| 254 | 9-32254-1 | | | 12,6 | 801 | 63,5 | 961 | 76,2 | 1281 | 101,6 | 128,0 | | |
| 305 | 9-32305-1 | | | 10,3 | 788 | 76,3 | 945 | 91,5 | 1261 | 122,0 | 153,0 | | |
| 40 | 20 | | | 51 | 9-40051-1 | 105,6 | 1346 | 12,8 | 1616 | 15,3 | 2154 | 20,4 | 25,0 |
| | | 64 | 9-40064-1 | 80,2 | 1283 | 16,0 | 1540 | 19,2 | 2053 | 25,6 | 31,0 | | |
| | | 76 | 9-40076-1 | 65,7 | 1248 | 19,0 | 1497 | 22,8 | 1996 | 30,4 | 38,0 | | |
| | | 89 | 9-40089-1 | 55,7 | 1239 | 22,3 | 1487 | 26,7 | 1983 | 35,6 | 45,0 | | |
| | | 102 | 9-40102-1 | 47,8 | 1219 | 25,5 | 1463 | 30,6 | 1951 | 40,8 | 51,0 | | |
| | | 114 | 9-40114-1 | 42,2 | 1203 | 28,5 | 1443 | 34,2 | 1925 | 45,6 | 58,0 | | |
| | | 127 | 9-40127-1 | 37,8 | 1201 | 31,8 | 1441 | 38,1 | 1922 | 50,8 | 65,0 | | |
| | | 140 | 9-40140-1 | 34,0 | 1189 | 35,0 | 1427 | 42,0 | 1903 | 56,0 | 71,0 | | |
| | | 152 | 9-40152-1 | 30,8 | 1171 | 38,0 | 1406 | 45,6 | 1874 | 60,8 | 77,0 | | |
| | | 178 | 9-40178-1 | 26,3 | 1169 | 44,5 | 1403 | 53,4 | 1870 | 71,2 | 91,0 | | |
| | | 203 | 9-40203-1 | 22,6 | 1147 | 50,8 | 1376 | 60,9 | 1834 | 81,2 | 103,0 | | |
| | | 254 | 9-40254-1 | 18,0 | 1145 | 63,5 | 1375 | 76,2 | 1833 | 101,6 | 130,0 | | |
| | | 305 | 9-40305-1 | 14,7 | 1122 | 76,3 | 1346 | 91,5 | 1795 | 122,0 | 155,0 | | |
| | | 50 | 25 | 64 | 9-50064-1 | 157,4 | 2519 | 16,0 | 3023 | 19,2 | 4031 | 25,6 | 31,0 |
| 76 | 9-50076-1 | | | 126,1 | 2396 | 19,0 | 2875 | 22,8 | 3833 | 30,4 | 38,0 | | |
| 89 | 9-50089-1 | | | 105,4 | 2346 | 22,3 | 2815 | 26,7 | 3753 | 35,6 | 44,0 | | |
| 102 | 9-50102-1 | | | 89,7 | 2287 | 25,5 | 2744 | 30,6 | 3658 | 40,8 | 50,0 | | |
| 114 | 9-50114-1 | | | 78,6 | 2241 | 28,5 | 2689 | 34,2 | 3586 | 45,6 | 57,0 | | |
| 127 | 9-50127-1 | | | 70,1 | 2224 | 31,8 | 2669 | 38,1 | 3559 | 50,8 | 64,0 | | |
| 140 | 9-50140-1 | | | 63,0 | 2207 | 35,0 | 2648 | 42,0 | 3531 | 56,0 | 70,0 | | |
| 152 | 9-50152-1 | | | 57,4 | 2183 | 38,0 | 2619 | 45,6 | 3493 | 60,8 | 77,0 | | |
| 178 | 9-50178-1 | | | 48,7 | 2167 | 44,5 | 2600 | 53,4 | 3466 | 71,2 | 90,0 | | |
| 203 | 9-50203-1 | | | 41,7 | 2115 | 50,8 | 2538 | 60,9 | 3385 | 81,2 | 102,0 | | |
| 254 | 9-50254-1 | | | 32,9 | 2091 | 63,5 | 2509 | 76,2 | 3345 | 101,6 | 128,0 | | |
| 305 | 9-50305-1 | | | 27,1 | 2070 | 76,3 | 2484 | 91,5 | 3312 | 122,0 | 154,0 | | |
| 63 | 38 | | | 76 | 9-63076-1 | 192,6 | 3660 | 19,0 | 4392 | 22,8 | 5856 | 30,4 | 36,0 |
| | | | | 89 | 9-63089-1 | 157,4 | 3503 | 22,3 | 4204 | 26,7 | 5605 | 35,6 | 43,0 |
| | | 102 | 9-63102-1 | 133,5 | 3403 | 25,5 | 4084 | 30,6 | 5445 | 40,8 | 49,0 | | |
| | | 114 | 9-63114-1 | 115,6 | 3294 | 28,5 | 3953 | 34,2 | 5271 | 45,6 | 55,0 | | |
| | | 127 | 9-63127-1 | 103,0 | 3270 | 31,8 | 3923 | 38,1 | 5231 | 50,8 | 62,0 | | |
| | | 152 | 9-63152-1 | 83,4 | 3168 | 38,0 | 3801 | 45,6 | 5068 | 60,8 | 75,0 | | |
| | | 178 | 9-63178-1 | 70,1 | 3117 | 44,5 | 3741 | 53,4 | 4988 | 71,2 | 88,0 | | |
| | | 203 | 9-63203-1 | 60,2 | 3057 | 50,8 | 3669 | 60,9 | 4892 | 81,2 | 100,0 | | |
| | | 254 | 9-63254-1 | 46,8 | 2969 | 63,5 | 3563 | 76,2 | 4751 | 101,6 | 125,0 | | |
| | | 305 | 9-63305-1 | 38,5 | 2938 | 76,3 | 3525 | 91,5 | 4701 | 122,0 | 150,0 | | |



9-XXXX-11

Leichte Belastung - ISO-Farbcode Grün / Light load - ISO color green



| Bohr Ø / Hole Diam. Dh (in) | Bolzen Ø / Rod Diam. Dr (in) | Länge / Free Length C (in) | Bestellnr. / Order No. | Federrate / Pounds@ 1/10 inch defl. | Federweg Langlebigkeit / Deflection for long life (25% of C) | | Federweg Ø-Haltbarkeit / Deflection for average life (30% of C) | | Max. Arbeitsfederweg / Max. operating Deflection (40% of C) | | Max. Federweg / Max. Def. wbl (Solid) (in) |
|-----------------------------------|------------------------------------|----------------------------------|---------------------------|--|--|---------------------------|---|---------------------------|---|-----------------------------|--|
| | | | | | Kraft / Load F1 (lbs) | Weg / Defl. w1 (in) | Kraft / Load F2 (lbs) | Weg / Defl. w2 (in) | Kraft / Load Fmax (lbs) | Weg / Defl. wmax (in) | |
| 3/8 | 3/16 | 1 | 9-0604-11 | 6,3 | 16 | 0,25 | 19 | 0,30 | 25 | 0,40 | 0,56 |
| | | 1 1/4 | 9-0605-11 | 5,0 | 16 | 0,31 | 19 | 0,38 | 25 | 0,50 | 0,72 |
| | | 1 1/2 | 9-0606-11 | 4,2 | 16 | 0,37 | 19 | 0,45 | 25 | 0,60 | 0,88 |
| | | 1 3/4 | 9-0607-11 | 3,6 | 16 | 0,43 | 19 | 0,52 | 25 | 0,69 | 1,03 |
| | | 2 | 9-0608-11 | 3,1 | 15 | 0,50 | 18 | 0,60 | 25 | 0,80 | 1,16 |
| | | 2 1/2 | 9-0610-11 | 2,6 | 16 | 0,63 | 19 | 0,76 | 26 | 1,01 | 1,50 |
| | | 3 | 9-0612-11 | 2,1 | 16 | 0,75 | 19 | 0,90 | 25 | 1,20 | 1,81 |
| | | 12 | 9-0648-11 | 0,5 | 15 | 3,00 | 18 | 3,60 | 24 | 4,80 | 7,02 |
| 1/2 | 9/32 | 1 | 9-0804-11 | 10,9 | 27 | 0,25 | 32 | 0,30 | 43 | 0,40 | 0,54 |
| | | 1 1/4 | 9-0805-11 | 9,4 | 30 | 0,31 | 36 | 0,38 | 47 | 0,50 | 0,72 |
| | | 1 1/2 | 9-0806-11 | 7,8 | 29 | 0,37 | 35 | 0,45 | 47 | 0,60 | 0,87 |
| | | 1 3/4 | 9-0807-11 | 6,6 | 29 | 0,43 | 34 | 0,52 | 46 | 0,69 | 1,03 |
| | | 2 | 9-0808-11 | 5,8 | 29 | 0,50 | 35 | 0,60 | 47 | 0,80 | 1,19 |
| | | 2 1/2 | 9-0810-11 | 4,7 | 29 | 0,63 | 35 | 0,76 | 47 | 1,01 | 1,50 |
| | | 3 | 9-0812-11 | 3,6 | 27 | 0,75 | 32 | 0,90 | 43 | 1,20 | 1,73 |
| | | 3 1/2 | 9-0814-11 | 3,1 | 27 | 0,88 | 32 | 1,05 | 43 | 1,40 | 2,03 |
| 12 | 9-0848-11 | 0,8 | 25 | 3,00 | 30 | 3,60 | 40 | 4,80 | 6,88 | | |
| 5/8 | 11/32 | 1 | 9-1004-11 | 18,0 | 44 | 0,25 | 53 | 0,30 | 71 | 0,40 | 0,53 |
| | | 1 1/4 | 9-1005-11 | 13,4 | 42 | 0,31 | 51 | 0,38 | 68 | 0,50 | 0,65 |
| | | 1 1/2 | 9-1006-11 | 12,0 | 45 | 0,37 | 54 | 0,45 | 72 | 0,60 | 0,83 |
| | | 1 3/4 | 9-1007-11 | 10,0 | 43 | 0,43 | 52 | 0,52 | 69 | 0,69 | 0,97 |
| | | 2 | 9-1008-11 | 9,3 | 47 | 0,50 | 56 | 0,60 | 75 | 0,80 | 1,16 |
| | | 2 1/2 | 9-1010-11 | 7,2 | 45 | 0,63 | 54 | 0,76 | 73 | 1,01 | 1,44 |
| | | 3 | 9-1012-11 | 5,9 | 44 | 0,75 | 53 | 0,90 | 71 | 1,20 | 1,74 |
| | | 3 1/2 | 9-1014-11 | 5,3 | 46 | 0,88 | 56 | 1,05 | 74 | 1,40 | 2,10 |
| 4 | 9-1016-11 | 4,7 | 47 | 1,00 | 57 | 1,20 | 75 | 1,61 | 2,42 | | |
| 12 | 9-1048-11 | 1,5 | 45 | 3,00 | 54 | 3,60 | 72 | 4,80 | 7,26 | | |
| 3/4 | 3/8 | 1 | 9-1204-11 | 32,0 | 79 | 0,25 | 94 | 0,30 | 126 | 0,40 | 0,49 |
| | | 1 1/4 | 9-1205-11 | 24,4 | 77 | 0,31 | 92 | 0,38 | 123 | 0,50 | 0,63 |
| | | 1 1/2 | 9-1206-11 | 19,3 | 72 | 0,37 | 87 | 0,45 | 115 | 0,60 | 0,74 |
| | | 1 3/4 | 9-1207-11 | 16,2 | 70 | 0,43 | 84 | 0,52 | 112 | 0,69 | 0,87 |
| | | 2 | 9-1208-11 | 14,2 | 71 | 0,50 | 86 | 0,60 | 114 | 0,80 | 1,02 |
| | | 2 1/2 | 9-1210-11 | 11,0 | 69 | 0,63 | 83 | 0,76 | 111 | 1,01 | 1,27 |
| | | 3 | 9-1212-11 | 9,2 | 69 | 0,75 | 83 | 0,90 | 110 | 1,20 | 1,55 |
| | | 3 1/2 | 9-1214-11 | 7,7 | 67 | 0,88 | 81 | 1,05 | 108 | 1,40 | 1,79 |
| | | 4 | 9-1216-11 | 6,8 | 68 | 1,00 | 82 | 1,20 | 109 | 1,61 | 2,07 |
| | | 4 1/2 | 9-1218-11 | 6,0 | 67 | 1,12 | 81 | 1,35 | 108 | 1,80 | 2,34 |
| | | 5 | 9-1220-11 | 5,3 | 66 | 1,25 | 80 | 1,50 | 106 | 2,00 | 2,58 |
| | | 5 1/2 | 9-1222-11 | 4,9 | 67 | 1,38 | 80 | 1,65 | 107 | 2,20 | 2,86 |
| 6 | 9-1224-11 | 4,5 | 67 | 1,50 | 81 | 1,80 | 108 | 2,39 | 3,17 | | |
| 12 | 9-1248-11 | 2,2 | 65 | 3,00 | 78 | 3,60 | 104 | 4,80 | 6,24 | | |





| Bohr Ø / Hole Diam. Dh (in) | Bolzen Ø / Rod Diam. Dr (In) | Länge / Free Length C (in) | Bestellnr. / Order No. | Federrate / Pounds@ 1/10 inch defl. | Federweg Langlebigkeit / Deflection for long life (25% of C) | | Federweg Ø-Haltbarkeit / Deflection for average life (30% of C) | | Max. Arbeitsfederweg / Max. operating Deflection (40% of C) | | Max. Federweg / Max. Def wbl (Solid) (in) |
|-----------------------------------|------------------------------------|----------------------------------|---------------------------|--|--|---------------------------|---|---------------------------|---|-----------------------------|---|
| | | | | | Kraft / Load F1 (lbs) | Weg / Defl. w1 (in) | Kraft / Load F2 (lbs) | Weg / Defl. w2 (in) | Kraft / Load Fmax (lbs) | Weg / Defl. wmax (in) | |
| 1 | 1/2 | 1 | 9-1604-11 | 61,2 | 151 | 0,25 | 181 | 0,30 | 241 | 0,40 | 0,48 |
| | | 1 1/4 | 9-1605-11 | 46,2 | 146 | 0,31 | 175 | 0,38 | 233 | 0,50 | 0,62 |
| | | 1 1/2 | 9-1606-11 | 37,0 | 138 | 0,37 | 166 | 0,45 | 221 | 0,60 | 0,75 |
| | | 1 3/4 | 9-1607-11 | 30,6 | 133 | 0,43 | 159 | 0,52 | 212 | 0,69 | 0,87 |
| | | 2 | 9-1608-11 | 26,5 | 133 | 0,50 | 160 | 0,60 | 213 | 0,80 | 1,01 |
| | | 2 1/2 | 9-1610-11 | 20,4 | 129 | 0,63 | 154 | 0,76 | 206 | 1,01 | 1,26 |
| | | 3 | 9-1612-11 | 16,8 | 126 | 0,75 | 151 | 0,90 | 201 | 1,20 | 1,53 |
| | | 3 1/2 | 9-1614-11 | 14,1 | 124 | 0,88 | 148 | 1,05 | 198 | 1,40 | 1,78 |
| | | 4 | 9-1616-11 | 12,1 | 121 | 1,00 | 146 | 1,20 | 194 | 1,61 | 2,03 |
| | | 4 1/2 | 9-1618-11 | 10,7 | 120 | 1,12 | 144 | 1,35 | 192 | 1,80 | 2,28 |
| | | 5 | 9-1620-11 | 9,6 | 120 | 1,25 | 144 | 1,50 | 192 | 2,00 | 2,55 |
| | | 5 1/2 | 9-1622-11 | 8,7 | 120 | 1,38 | 144 | 1,65 | 192 | 2,20 | 2,83 |
| 6 | 9-1624-11 | 8,0 | 120 | 1,50 | 144 | 1,80 | 191 | 2,39 | 3,11 | | |
| 7 | 9-1628-11 | 6,9 | 121 | 1,75 | 145 | 2,10 | 193 | 2,80 | 3,65 | | |
| 8 | 9-1632-11 | 6,0 | 120 | 2,00 | 144 | 2,40 | 192 | 3,20 | 4,20 | | |
| 12 | 9-1648-11 | 4,0 | 120 | 3,00 | 144 | 3,60 | 192 | 4,80 | 6,34 | | |
| 1 1/4 | 5/8 | 1 1/2 | 9-2006-11 | 57,9 | 217 | 0,37 | 260 | 0,45 | 346 | 0,60 | 0,71 |
| | | 1 3/4 | 9-2007-11 | 47,5 | 206 | 0,43 | 247 | 0,52 | 329 | 0,69 | 0,84 |
| | | 2 | 9-2008-11 | 40,7 | 204 | 0,50 | 245 | 0,60 | 327 | 0,80 | 0,96 |
| | | 2 1/2 | 9-2010-11 | 31,4 | 198 | 0,63 | 237 | 0,76 | 316 | 1,01 | 1,22 |
| | | 3 | 9-2012-11 | 26,3 | 197 | 0,75 | 236 | 0,90 | 315 | 1,20 | 1,50 |
| | | 3 1/2 | 9-2014-11 | 22,2 | 194 | 0,88 | 233 | 1,05 | 311 | 1,40 | 1,76 |
| | | 4 | 9-2016-11 | 19,2 | 193 | 1,00 | 231 | 1,20 | 308 | 1,61 | 2,02 |
| | | 4 1/2 | 9-2018-11 | 16,9 | 190 | 1,12 | 228 | 1,35 | 303 | 1,80 | 2,28 |
| | | 5 | 9-2020-11 | 15,0 | 188 | 1,25 | 225 | 1,50 | 300 | 2,00 | 2,53 |
| | | 5 1/2 | 9-2022-11 | 13,5 | 186 | 1,38 | 223 | 1,65 | 298 | 2,20 | 2,77 |
| | | 6 | 9-2024-11 | 12,3 | 184 | 1,50 | 221 | 1,80 | 294 | 2,39 | 3,03 |
| | | 7 | 9-2028-11 | 10,4 | 182 | 1,75 | 219 | 2,10 | 292 | 2,80 | 3,53 |
| 8 | 9-2032-11 | 9,1 | 182 | 2,00 | 218 | 2,40 | 291 | 3,20 | 4,04 | | |
| 10 | 9-2040-11 | 7,2 | 180 | 2,50 | 216 | 3,00 | 288 | 4,00 | 5,03 | | |
| 12 | 9-2048-11 | 5,9 | 177 | 3,00 | 213 | 3,60 | 283 | 4,80 | 6,03 | | |
| 2 | 9-2408-11 | 60,3 | 303 | 0,50 | 363 | 0,60 | 484 | 0,80 | 0,97 | | |
| 2 1/2 | 9-2410-11 | 45,8 | 289 | 0,63 | 346 | 0,76 | 462 | 1,01 | 1,22 | | |
| 3 | 9-2412-11 | 37,5 | 281 | 0,75 | 337 | 0,90 | 449 | 1,20 | 1,49 | | |
| 3 1/2 | 9-2414-11 | 31,8 | 279 | 0,88 | 334 | 1,05 | 446 | 1,40 | 1,76 | | |
| 4 | 9-2416-11 | 27,3 | 274 | 1,00 | 329 | 1,20 | 439 | 1,61 | 2,01 | | |
| 4 1/2 | 9-2418-11 | 24,1 | 270 | 1,12 | 324 | 1,35 | 433 | 1,80 | 2,28 | | |
| 5 | 9-2420-11 | 21,6 | 270 | 1,25 | 324 | 1,50 | 432 | 2,00 | 2,55 | | |
| 5 1/2 | 9-2422-11 | 19,4 | 267 | 1,38 | 321 | 1,65 | 428 | 2,20 | 2,80 | | |
| 6 | 9-2424-11 | 17,6 | 263 | 1,50 | 316 | 1,80 | 421 | 2,39 | 3,05 | | |
| 7 | 9-2428-11 | 15,0 | 263 | 1,75 | 315 | 2,10 | 420 | 2,80 | 3,57 | | |
| 8 | 9-2432-11 | 12,9 | 258 | 2,00 | 309 | 2,40 | 412 | 3,20 | 4,07 | | |
| 10 | 9-2440-11 | 10,3 | 258 | 2,50 | 309 | 3,00 | 412 | 4,00 | 5,11 | | |
| 12 | 9-2448-11 | 8,4 | 252 | 3,00 | 303 | 3,60 | 403 | 4,80 | 6,10 | | |
| 2 1/2 | 9-3210-11 | 89,9 | 566 | 0,63 | 680 | 0,76 | 906 | 1,01 | 1,22 | | |
| 3 | 9-3212-11 | 72,0 | 539 | 0,75 | 646 | 0,90 | 862 | 1,20 | 1,48 | | |
| 3 1/2 | 9-3214-11 | 60,2 | 527 | 0,88 | 633 | 1,05 | 844 | 1,40 | 1,74 | | |
| 4 | 9-3216-11 | 51,2 | 514 | 1,00 | 617 | 1,20 | 822 | 1,61 | 1,98 | | |
| 4 1/2 | 9-3218-11 | 44,9 | 504 | 1,12 | 605 | 1,35 | 806 | 1,80 | 2,24 | | |
| 5 | 9-3220-11 | 40,0 | 500 | 1,25 | 600 | 1,50 | 800 | 2,00 | 2,50 | | |
| 5 1/2 | 9-3222-11 | 36,0 | 496 | 1,38 | 595 | 1,65 | 794 | 2,20 | 2,76 | | |
| 6 | 9-3224-11 | 32,8 | 491 | 1,50 | 589 | 1,80 | 785 | 2,39 | 3,02 | | |
| 7 | 9-3228-11 | 27,8 | 487 | 1,75 | 584 | 2,10 | 779 | 2,80 | 3,54 | | |
| 8 | 9-3232-11 | 23,8 | 476 | 2,00 | 571 | 2,40 | 761 | 3,20 | 4,00 | | |
| 10 | 9-3240-11 | 18,8 | 470 | 2,50 | 564 | 3,00 | 752 | 4,00 | 5,04 | | |
| 12 | 9-3248-11 | 15,5 | 465 | 3,00 | 558 | 3,60 | 744 | 4,80 | 6,05 | | |
| 3 | 9-4012-11 | 110,0 | 823 | 0,75 | 987 | 0,90 | 1317 | 1,20 | 1,43 | | |
| 3 1/2 | 9-4014-11 | 89,9 | 788 | 0,88 | 945 | 1,05 | 1260 | 1,40 | 1,68 | | |
| 4 | 9-4016-11 | 76,2 | 765 | 1,00 | 918 | 1,20 | 1224 | 1,61 | 1,93 | | |
| 4 1/2 | 9-4018-11 | 66,0 | 741 | 1,12 | 889 | 1,35 | 1185 | 1,80 | 2,18 | | |
| 5 | 9-4020-11 | 58,8 | 735 | 1,25 | 882 | 1,50 | 1176 | 2,00 | 2,45 | | |
| 6 | 9-4024-11 | 47,6 | 712 | 1,50 | 855 | 1,80 | 1139 | 2,39 | 2,95 | | |
| 7 | 9-4028-11 | 40,0 | 701 | 1,75 | 841 | 2,10 | 1121 | 2,80 | 3,45 | | |
| 8 | 9-4032-11 | 34,4 | 687 | 2,00 | 825 | 2,40 | 1100 | 3,20 | 3,96 | | |
| 10 | 9-4040-11 | 26,7 | 668 | 2,50 | 801 | 3,00 | 1068 | 4,00 | 4,92 | | |
| 12 | 9-4048-11 | 22,0 | 660 | 3,00 | 793 | 3,60 | 1057 | 4,80 | 5,92 | | |

