



|     |     | 404 Spring Rate Open Arch (lb/in) |            |         |                     | 404HP Spring Rate Open Arch (lb/in) |            |         |                     | 404 Spring Rate Filled Arch (lb/in) |            |         |                     | 404HP Spring Rate Filled Arch (lb/in) |            |         |                     | 406 EZ-FLO® Spring Rate (lb/in)            |            |         |                     |
|-----|-----|-----------------------------------|------------|---------|---------------------|-------------------------------------|------------|---------|---------------------|-------------------------------------|------------|---------|---------------------|---------------------------------------|------------|---------|---------------------|--------------------------------------------|------------|---------|---------------------|
| ID  | F-F | Compression                       | Elongation | Lateral | Angular (in-lb/deg) | Compression                         | Elongation | Lateral | Angular (in-lb/deg) | Compression                         | Elongation | Lateral | Angular (in-lb/deg) | Compression                           | Elongation | Lateral | Angular (in-lb/deg) | Compression                                | Elongation | Lateral | Angular (in-lb/deg) |
| 2   | 6   | 860                               | 860        | 1000    | 8                   | 989                                 | 989        | 1150    | 9                   | 3440                                | 3440       | 4000    | 30                  | 3956                                  | 3956       | 4600    | 35                  | 610                                        | 650        | 620     | 6                   |
| 2.5 | 6   | 920                               | 920        | 1060    | 13                  | 1058                                | 1058       | 1219    | 14                  | 3680                                | 3680       | 4240    | 50                  | 4232                                  | 4232       | 4876    | 646                 | 630                                        | 665        | 615     | 9                   |
| 3   | 6   | 1040                              | 1040       | 1120    | 20                  | 1196                                | 1196       | 1288    | 23                  | 4160                                | 4160       | 4480    | 82                  | 4784                                  | 4784       | 5152    | 939                 | 720                                        | 750        | 710     | 15                  |
| 4   | 6   | 1100                              | 1100       | 1240    | 38                  | 1265                                | 1265       | 1426    | 44                  | 4400                                | 4400       | 4960    | 154                 | 5060                                  | 5060       | 5704    | 1590                | 765                                        | 870        | 825     | 30                  |
| 5   | 6   | 1280                              | 1280       | 1400    | 70                  | 1472                                | 1472       | 1610    | 80                  | 5120                                | 5120       | 5600    | 279                 | 5888                                  | 5888       | 6440    | 2569                | 925                                        | 980        | 950     | 53                  |
| 6   | 6   | 1360                              | 1360       | 1560    | 107                 | 1564                                | 1564       | 1794    | 123                 | 5440                                | 5440       | 6240    | 427                 | 6256                                  | 6256       | 7176    | 3603                | 1150                                       | 1265       | 1180    | 99                  |
| 8   | 6   | 1040                              | 1040       | 1700    | 145                 | 1196                                | 1196       | 1955    | 167                 | 4160                                | 4160       | 6800    | 581                 | 4784                                  | 4784       | 7820    | 4509                | 1270                                       | 1380       | 1230    | 193                 |
| 10  | 8   | 1200                              | 1200       | 2000    | 262                 | 1380                                | 1380       | 2300    | 301                 | 4800                                | 4800       | 8000    | 1047                | 5520                                  | 5520       | 9200    | 7707                | 1590                                       | 1725       | 1540    | 376                 |
| 12  | 8   | 1930                              | 1930       | 2300    | 606                 | 2220                                | 2220       | 2645    | 697                 | 7720                                | 7720       | 9200    | 2425                | 8878                                  | 8878       | 10580   | 17664               | 1910                                       | 2070       | 1850    | 650                 |
| 14  | 8   | 2200                              | 2200       | 2400    | 941                 | 2530                                | 2530       | 2760    | 1082                | 8800                                | 8800       | 9600    | 3763                | 10120                                 | 10120      | 11040   | 25964               | 1970                                       | 2050       | 1890    | 877                 |
| 16  | 8   | 2400                              | 2400       | 2800    | 1340                | 2760                                | 2760       | 3220    | 1541                | 9600                                | 9600       | 11200   | 5362                | 11040                                 | 11040      | 12880   | 36224               | 2050                                       | 2160       | 1950    | 1206                |
| 18  | 8   | 2667                              | 2667       | 3000    | 1885                | 3067                                | 3067       | 3450    | 2168                | 10668                               | 10668      | 12000   | 7541                | 12268                                 | 12268      | 13800   | 48177               | 2150                                       | 2375       | 2210    | 1679                |
| 20  | 8   | 2514                              | 2695       | 3200    | 2352                | 2891                                | 3099       | 3680    | 2704                | 10056                               | 10780      | 12800   | 9407                | 11564                                 | 12397      | 14720   | 59501               | 2350                                       | 2470       | 2380    | 2155                |
| 22  | 10  | 3200                              | 3430       | 3500    | 3622                | 3680                                | 3945       | 4025    | 4165                | 12800                               | 13720      | 14000   | 14487               | 14720                                 | 15778      | 16100   | 89359               | 2550                                       | 2650       | 2575    | 2798                |
| 24  | 10  | 3429                              | 3677       | 3700    | 4620                | 3943                                | 4228       | 4255    | 5313                | 13716                               | 14708      | 14800   | 18482               | 15773                                 | 16914      | 17020   | 113357              | 2750                                       | 2830       | 2790    | 3556                |
| 26  | 10  | 3300                              | 3539       | 4000    | 5219                | 3795                                | 4069       | 4600    | 6001                | 13200                               | 14154      | 16000   | 20875               | 15180                                 | 16278      | 18400   | 137573              | 2900                                       | 3025       | 2980    | 4461                |
| 28  | 10  | 3400                              | 3646       | 4200    | 6236                | 3910                                | 4193       | 4830    | 7171                | 13600                               | 14583      | 16800   | 24943               | 15640                                 | 16771      | 19320   | 149571              | 3185                                       | 3275       | 3100    | 5601                |
| 30  | 10  | 3700                              | 3968       | 4500    | 7790                | 4255                                | 4563       | 5175    | 8958                | 14800                               | 15870      | 18000   | 31161               | 17020                                 | 18251      | 20700   | 185146              | 3200                                       | 3450       | 3120    | 6774                |
| 34  | 10  | 4150                              | 4450       | 4900    | 11223               | 4773                                | 5118       | 5635    | 12906               | 16600                               | 17800      | 19600   | 44892               | 19090                                 | 20470      | 22540   | 265720              | 3600                                       | 3845       | 3625    | 9697                |
| 36  | 10  | 4350                              | 4665       | 5200    | 13188               | 5003                                | 5364       | 5980    | 15167               | 17400                               | 18658      | 20800   | 52754               | 20010                                 | 21457      | 23920   | 310077              | 4250                                       | 4500       | 4300    | 12723               |
| 40  | 10  | 4800                              | 5147       | 5700    | 17966               | 5520                                | 5919       | 6555    | 20661               | 19200                               | 20588      | 22800   | 71866               | 22080                                 | 23676      | 26220   | 419428              | 4380                                       | 4700       | 4565    | 16406               |
| 42  | 12  | 4444                              | 4765       | 5900    |                     | 5111                                | 5480       | 6785    |                     | 17776                               | 19061      | 23600   |                     | 20442                                 | 21920      | 27140   |                     | 4550                                       | 4870       | 5050    | 18742               |
| 48  | 12  | 4978                              | 5338       | 6600    |                     | 5725                                | 6139       | 7590    |                     | 19912                               | 21352      | 26400   |                     | 22899                                 | 24554      | 30360   |                     | 4870                                       | 5270       | 5930    | 26490               |
| 50  | 12  | 5333                              | 5719       | 6900    |                     | 6133                                | 6576       | 7935    |                     | 21332                               | 22874      | 27600   |                     | 24532                                 | 26305      | 31740   |                     | Contact Garlock for Engineering Evaluation |            |         |                     |
| 54  | 12  | 5689                              | 6100       | 7400    |                     | 6542                                | 7015       | 8510    |                     | 22756                               | 24401      | 29600   |                     | 26169                                 | 28061      | 34040   |                     |                                            |            |         |                     |
| 60  | 12  | 6400                              | 6863       | 8100    |                     | 7360                                | 7892       | 9315    |                     | 25600                               | 27451      | 32400   |                     | 29440                                 | 31569      | 37260   |                     |                                            |            |         |                     |
| 66  | 12  | 6933                              | 7434       | 8800    |                     | 7973                                | 8549       | 10120   |                     | 27732                               | 29737      | 35200   |                     | 31892                                 | 34198      | 40480   |                     |                                            |            |         |                     |
| 72  | 12  | 7555                              | 8101       | 9600    |                     | 8688                                | 9316       | 11040   |                     | 30220                               | 32405      | 38400   |                     | 34753                                 | 37266      | 44160   |                     |                                            |            |         |                     |
| 84  | 12  | 9333                              | 10008      | 13200   |                     | 10733                               | 11509      | 15180   |                     | 37332                               | 40031      | 52800   |                     | 42932                                 | 46036      | 60720   |                     |                                            |            |         |                     |
| 96  | 12  | 10500                             | 11259      | 14240   |                     | 12075                               | 12948      | 16376   |                     | 42000                               | 45037      | 56960   |                     | 48300                                 | 51792      | 65504   |                     |                                            |            |         |                     |
| 108 | 12  | 11422                             | 12248      | 18800   |                     | 13135                               | 14085      | 21620   |                     | 45688                               | 48991      | 75200   |                     | 52541                                 | 56340      | 86480   |                     |                                            |            |         |                     |
| 120 | 12  | 12400                             | 13297      | 20500   |                     | 14260                               | 15291      | 23575   |                     | 49600                               | 53186      | 82000   |                     | 57040                                 | 61164      | 94300   |                     |                                            |            |         |                     |



|     |     | 404 Spring Rate Open Arch (N/mm) |            |         |                      | 404HP Spring Rate Open Arch (N/mm) |            |         |                      | 404 Spring Rate Filled Arch (N/mm) |            |         |                      | 404HP Spring Rate Filled Arch (N/mm) |            |         |                      | 406 EZ-FLO® Spring Rate (N/mm)                |            |         |                      |
|-----|-----|----------------------------------|------------|---------|----------------------|------------------------------------|------------|---------|----------------------|------------------------------------|------------|---------|----------------------|--------------------------------------|------------|---------|----------------------|-----------------------------------------------|------------|---------|----------------------|
| ID  | F-F | Compression                      | Elongation | Lateral | Angular (N<br>m/deg) | Compression                        | Elongation | Lateral | Angular (N<br>m/deg) | Compression                        | Elongation | Lateral | Angular (N<br>m/deg) | Compression                          | Elongation | Lateral | Angular (N<br>m/deg) | Compression                                   | Elongation | Lateral | Angular (N<br>m/deg) |
| 2   | 6   | 151                              | 151        | 175     | 1                    | 173                                | 173        | 201     | 1                    | 602                                | 602        | 700     | 3                    | 692                                  | 692        | 805     | 4                    | 107                                           | 114        | 109     | 1                    |
| 2.5 | 6   | 161                              | 161        | 186     | 1                    | 185                                | 185        | 213     | 2                    | 644                                | 644        | 742     | 6                    | 741                                  | 741        | 853     | 73                   | 110                                           | 116        | 108     | 1                    |
| 3   | 6   | 182                              | 182        | 196     | 2                    | 209                                | 209        | 225     | 3                    | 728                                | 728        | 784     | 9                    | 837                                  | 837        | 902     | 106                  | 126                                           | 131        | 124     | 2                    |
| 4   | 6   | 193                              | 193        | 217     | 4                    | 221                                | 221        | 250     | 5                    | 770                                | 770        | 868     | 17                   | 886                                  | 886        | 998     | 180                  | 134                                           | 152        | 144     | 3                    |
| 5   | 6   | 224                              | 224        | 245     | 8                    | 258                                | 258        | 282     | 9                    | 896                                | 896        | 980     | 32                   | 1030                                 | 1030       | 1127    | 290                  | 162                                           | 172        | 166     | 6                    |
| 6   | 6   | 238                              | 238        | 273     | 12                   | 274                                | 274        | 314     | 14                   | 952                                | 952        | 1092    | 48                   | 1095                                 | 1095       | 1256    | 407                  | 201                                           | 221        | 207     | 11                   |
| 8   | 6   | 182                              | 182        | 298     | 16                   | 209                                | 209        | 342     | 19                   | 728                                | 728        | 1190    | 66                   | 837                                  | 837        | 1369    | 509                  | 222                                           | 242        | 215     | 22                   |
| 10  | 8   | 210                              | 210        | 350     | 30                   | 242                                | 242        | 403     | 34                   | 840                                | 840        | 1400    | 118                  | 966                                  | 966        | 1610    | 871                  | 278                                           | 302        | 270     | 43                   |
| 12  | 8   | 338                              | 338        | 403     | 69                   | 388                                | 388        | 463     | 79                   | 1351                               | 1351       | 1610    | 274                  | 1554                                 | 1554       | 1852    | 1996                 | 334                                           | 362        | 324     | 73                   |
| 14  | 8   | 385                              | 385        | 420     | 106                  | 443                                | 443        | 483     | 122                  | 1540                               | 1540       | 1680    | 425                  | 1771                                 | 1771       | 1932    | 2934                 | 345                                           | 359        | 331     | 99                   |
| 16  | 8   | 420                              | 420        | 490     | 151                  | 483                                | 483        | 564     | 174                  | 1680                               | 1680       | 1960    | 606                  | 1932                                 | 1932       | 2254    | 4093                 | 359                                           | 378        | 341     | 136                  |
| 18  | 8   | 467                              | 467        | 525     | 213                  | 537                                | 537        | 604     | 245                  | 1867                               | 1867       | 2100    | 852                  | 2147                                 | 2147       | 2415    | 5444                 | 376                                           | 416        | 387     | 190                  |
| 20  | 8   | 440                              | 472        | 560     | 266                  | 506                                | 542        | 644     | 306                  | 1760                               | 1887       | 2240    | 1063                 | 2024                                 | 2169       | 2576    | 6724                 | 411                                           | 432        | 417     | 244                  |
| 22  | 10  | 560                              | 600        | 613     | 409                  | 644                                | 690        | 704     | 471                  | 2240                               | 2401       | 2450    | 1637                 | 2576                                 | 2761       | 2818    | 10098                | 446                                           | 464        | 451     | 316                  |
| 24  | 10  | 600                              | 643        | 648     | 522                  | 690                                | 740        | 745     | 600                  | 2400                               | 2574       | 2590    | 2088                 | 2760                                 | 2960       | 2979    | 12809                | 481                                           | 495        | 488     | 402                  |
| 26  | 10  | 578                              | 619        | 700     | 590                  | 664                                | 712        | 805     | 678                  | 2310                               | 2477       | 2800    | 2359                 | 2657                                 | 2849       | 3220    | 15546                | 508                                           | 529        | 522     | 504                  |
| 28  | 10  | 595                              | 638        | 735     | 705                  | 684                                | 734        | 845     | 810                  | 2380                               | 2552       | 2940    | 2819                 | 2737                                 | 2935       | 3381    | 16902                | 557                                           | 573        | 543     | 633                  |
| 30  | 10  | 648                              | 694        | 788     | 880                  | 745                                | 798        | 906     | 1012                 | 2590                               | 2777       | 3150    | 3521                 | 2979                                 | 3194       | 3623    | 20921                | 560                                           | 604        | 546     | 765                  |
| 34  | 10  | 726                              | 779        | 858     | 1268                 | 835                                | 896        | 986     | 1458                 | 2905                               | 3115       | 3430    | 5073                 | 3341                                 | 3582       | 3945    | 30026                | 630                                           | 673        | 634     | 1096                 |
| 36  | 10  | 761                              | 816        | 910     | 1490                 | 875                                | 939        | 1047    | 1714                 | 3045                               | 3265       | 3640    | 5961                 | 3502                                 | 3755       | 4186    | 35039                | 744                                           | 788        | 753     | 1438                 |
| 40  | 10  | 840                              | 901        | 998     | 2030                 | 966                                | 1036       | 1147    | 2335                 | 3360                               | 3603       | 3990    | 8121                 | 3864                                 | 4143       | 4589    | 47395                | 767                                           | 823        | 799     | 1854                 |
| 42  | 12  | 778                              | 834        | 1033    |                      | 894                                | 959        | 1187    |                      | 3111                               | 3336       | 4130    |                      | 3577                                 | 3836       | 4750    |                      | 796                                           | 852        | 884     | 2118                 |
| 48  | 12  | 871                              | 934        | 1155    |                      | 1002                               | 1074       | 1328    |                      | 3485                               | 3737       | 4620    |                      | 4007                                 | 4297       | 5313    |                      | 852                                           | 922        | 1038    | 2993                 |
| 50  | 12  | 933                              | 1001       | 1208    |                      | 1073                               | 1151       | 1389    |                      | 3733                               | 4003       | 4830    |                      | 4293                                 | 4603       | 5555    |                      | Contact Garlock for Engineering<br>Evaluation |            |         |                      |
| 54  | 12  | 996                              | 1068       | 1295    |                      | 1145                               | 1228       | 1489    |                      | 3982                               | 4270       | 5180    |                      | 4580                                 | 4911       | 5957    |                      |                                               |            |         |                      |
| 60  | 12  | 1120                             | 1201       | 1418    |                      | 1288                               | 1381       | 1630    |                      | 4480                               | 4804       | 5670    |                      | 5152                                 | 5524       | 6521    |                      |                                               |            |         |                      |
| 66  | 12  | 1213                             | 1301       | 1540    |                      | 1395                               | 1496       | 1771    |                      | 4853                               | 5204       | 6160    |                      | 5581                                 | 5985       | 7084    |                      |                                               |            |         |                      |
| 72  | 12  | 1322                             | 1418       | 1680    |                      | 1520                               | 1630       | 1932    |                      | 5289                               | 5671       | 6720    |                      | 6082                                 | 6521       | 7728    |                      |                                               |            |         |                      |
| 84  | 12  | 1633                             | 1751       | 2310    |                      | 1878                               | 2014       | 2657    |                      | 6533                               | 7005       | 9240    |                      | 7513                                 | 8056       | 10626   |                      |                                               |            |         |                      |
| 96  | 12  | 1838                             | 1970       | 2492    |                      | 2113                               | 2266       | 2866    |                      | 7350                               | 7881       | 9968    |                      | 8453                                 | 9064       | 11463   |                      |                                               |            |         |                      |
| 108 | 12  | 1999                             | 2143       | 3290    |                      | 2299                               | 2465       | 3784    |                      | 7995                               | 8573       | 13160   |                      | 9195                                 | 9859       | 15134   |                      |                                               |            |         |                      |
| 120 | 12  | 2170                             | 2327       | 3588    |                      | 2496                               | 2676       | 4126    |                      | 8680                               | 9308       | 14350   |                      | 9982                                 | 10704      | 16503   |                      |                                               |            |         |                      |