

# Coupling Selection Guide

- 1) Consult factory for applications in shaded areas.
- 2) Torque ratings may vary by coupling series.
- 3) Use the 1.0 service factor column if a service factor was used in the HP/100 RPM calculation.

**Consult Altra Couplings Engineering**

**Not Recommended for these Applications**

| Typical Application Conditions     |   |   |   |   |  |  |
|------------------------------------|---|---|---|---|--|--|
| SMOOTH MOTOR OR TURBINE DRIVEN<br> | STEADY MOTOR OR TURBINE DRIVEN<br>                  | MODERATE MOTOR OR TURBINE DRIVEN<br>                      | MEDIUM MOTOR OR TURBINE DRIVEN<br>                        | HEAVY-HIGH TQ. MOTOR OR ENGINE DRIVEN<br>                             | EXTRA HEAVY ENGINE DRIVEN<br>          | EXTREMELY HEAVY ENGINE DRIVEN<br>                      |
| SOFT START WITH STEADY LOAD        | AVERAGE STARTING LOADS AND SLIGHT TORQUE VARIATIONS | ABOVE AVERAGE STARTING LOADS AND MODERATE LOAD VARIATIONS | HIGH STARTING TORQUES AND MEDIUM TO HEAVY LOAD VARIATIONS | MILD SHOCK LOADING ENGINES. DRIVING SMOOTH LOADS. EXTREME RELIABILITY | HEAVY SHOCK LOADING OR LIGHT REVERSING | EXTREME SHOCK LOADING. FREQUENT WIDE TORQUE VARIATIONS |

| Type/Size            | Torque Rating       |                        |                       |  | O.D. (in) | Service Factor |       |      |      |      |      | # of Bolts |     |   |
|----------------------|---------------------|------------------------|-----------------------|--|-----------|----------------|-------|------|------|------|------|------------|-----|---|
|                      | HP / 100 RPM        | Max Continuous (lb-in) | Peak Overload (lb-in) | Rated HP/100 RPM at Service Factor Shown |           |                |       |      |      |      |      |            |     |   |
|                      |                     |                        |                       | 1.0                                      |           | 1.5            | 2.0   | 2.5  | 3.0  | 3.25 | 4.0  |            |     |   |
| Form-Flex® A-Series  | 05                  | 0.48                   | 300                   | 600                                      | 2.65      | 0.48           | 0.32  | 0.24 | 0.19 |      |      |            | 4   |   |
|                      | 10                  | 1.27                   | 800                   | 1,600                                    | 3.19      | 1.27           | 0.85  | 0.63 | 0.51 |      |      |            |     |   |
|                      | 15                  | 2.50                   | 1,575                 | 3,150                                    | 3.65      | 2.50           | 1.67  | 1.25 | 1.00 |      |      |            |     |   |
|                      | 20                  | 3.49                   | 2,200                 | 4,400                                    | 4.08      | 3.49           | 2.33  | 1.75 | 1.40 |      |      |            |     |   |
|                      | 25                  | 6.03                   | 3,800                 | 7,600                                    | 4.95      | 6.03           | 4.02  | 3.01 | 2.41 |      |      |            |     |   |
|                      | 30                  | 11.00                  | 6,930                 | 13,860                                   | 5.63      | 11.00          | 7.33  | 5.50 | 4.40 |      |      |            |     |   |
| Form-Flex® G-Series  | 35                  | 18.00                  | 11,340                | 22,680                                   | 6.63      | 17.99          | 12.00 | 9.00 | 7.20 |      |      |            | 6   |   |
|                      | 311                 | 17.5                   | 11,000                | 22,000                                   | 5.88      | 17.45          | 11.64 | 8.73 | 6.98 | 5.8  | 5.4  |            |     |   |
|                      | 321                 | 32.5                   | 20,500                | 41,000                                   | 6.38      | 32.53          | 21.68 | 16.3 | 13.0 | 10.8 | 10   |            |     |   |
|                      | 332                 | 50.8                   | 32,000                | 64,000                                   | 7.20      | 50.8           | 33.8  | 25   | 20   | 17   | 16   |            |     |   |
|                      | 346                 | 73.0                   | 46,000                | 92,000                                   | 8.20      | 73.0           | 48.7  | 36   | 29   | 24   | 22   |            |     |   |
|                      | 380                 | 127                    | 80,000                | 160,000                                  | 9.36      | 127            | 85    | 63   | 51   | 42   | 39   |            |     |   |
|                      | Form-Flex® G-Series | 340                    | 63.5                  | 40,000                                   | 80,000    | 8.38           | 63.5  | 42.3 | 32   | 25   | 21   | 20         | 16  | 8 |
|                      |                     | 412                    | 190                   | 120,000                                  | 240,000   | 11.00          | 190   | 127  | 95   | 76   | 63   | 59         | 48  |   |
|                      |                     | 419                    | 301                   | 190,000                                  | 380,000   | 12.50          | 301   | 201  | 151  | 121  | 100  | 93         | 75  |   |
|                      |                     | 424                    | 476                   | 300,000                                  | 600,000   | 15.00          | 476   | 317  | 238  | 190  | 159  | 146        | 119 |   |
|                      |                     | 444                    | 690                   | 435,000                                  | 870,000   | 16.38          | 690   | 460  | 345  | 276  | 230  | 212        | 173 |   |
|                      |                     | 456                    | 889                   | 560,000                                  | 1,120,000 | 18.00          | 889   | 592  | 444  | 355  | 296  | 273        | 222 |   |
|                      |                     | 483                    | 1317                  | 830,000                                  | 1,660,000 | 19.44          | 1317  | 878  | 658  | 527  | 439  | 405        | 329 |   |
|                      |                     | 511                    | 1745                  | 1,100,000                                | 2,200,000 | 22.00          | 1745  | 1164 | 873  | 698  | 582  | 537        | 436 |   |
| 520                  |                     | 3173                   | 2,000,000             | 4,000,000                                | 24.88     | 3173           | 2116  | 1587 | 1269 | 1058 | 976  | 793        |     |   |
| 525                  |                     | 3967                   | 2,500,000             | 5,000,000                                | 26.75     | 3967           | 2644  | 1983 | 1587 | 1322 | 1221 | 992        |     |   |
| 530                  |                     | 4760                   | 3,000,000             | 6,000,000                                | 28.00     | 4760           | 3173  | 2380 | 1904 | 1587 | 1465 | 1190       |     |   |
| 540                  |                     | 6347                   | 4,000,000             | 8,000,000                                | 33.50     | 6347           | 4231  | 3173 | 2539 | 2116 | 1953 | 1587       |     |   |
| Torsiflex-i TFI      |                     | 17                     | 2.4                   | 1,504                                    | 2,632     | 2.87           | 2.39  | 1.59 | 1.19 | 0.95 | 0.80 | 0.73       |     | 6 |
|                      |                     | 27                     | 3.8                   | 2,390                                    | 4,183     | 3.35           | 3.79  | 2.53 | 1.90 | 1.52 | 1.26 | 1.17       |     |   |
|                      | 38                  | 5.3                    | 3,363                 | 5,885                                    | 4.21      | 5.34           | 3.56  | 2.67 | 2.13 | 1.78 | 1.64 |            |     |   |
|                      | 140                 | 19.7                   | 12,391                | 21,684                                   | 5.00      | 19.66          | 13.1  | 9.83 | 7.86 | 6.6  | 6.0  |            |     |   |
|                      | 260                 | 36.5                   | 23,031                | 40,304                                   | 6.06      | 36.54          | 24    | 18.3 | 14.6 | 12   | 11   |            |     |   |
|                      | 400                 | 56.2                   | 35,404                | 61,957                                   | 6.93      | 56.2           | 37    | 28   | 22   | 19   | 17   |            |     |   |
|                      | Torsiflex-i TFI     | 750                    | 105                   | 66,383                                   | 116,170   | 7.99           | 105   | 70   | 53   | 42   | 35   | 32         |     | 8 |
|                      |                     | 1310                   | 184                   | 115,948                                  | 202,909   | 9.49           | 184   | 123  | 92   | 74   | 61   | 57         |     |   |
|                      |                     | 1900                   | 267                   | 168,169                                  | 294,296   | 10.98          | 267   | 178  | 133  | 107  | 89   | 82         |     |   |
|                      |                     | 2500                   | 351                   | 221,275                                  | 387,231   | 11.65          | 351   | 234  | 176  | 140  | 117  | 108        |     |   |
|                      |                     | 3300                   | 463                   | 292,083                                  | 511,145   | 12.84          | 463   | 309  | 232  | 185  | 154  | 143        |     |   |
|                      |                     | 6000                   | 843                   | 531,060                                  | 929,355   | 15.55          | 843   | 562  | 421  | 337  | 281  | 259        |     |   |
| 8500                 |                     | 1194                   | 752,335               | 1,316,586                                | 17.44     | 1194           | 796   | 597  | 477  | 398  | 367  |            |     |   |
| 12000                |                     | 1685                   | 1,062,120             | 1,858,710                                | 19.45     | 1685           | 1123  | 843  | 674  | 562  | 519  |            |     |   |
| Form-Flex® (HSH/FSH) | 22                  | 15.1                   | 9,500                 | 14,250                                   | 6.00      | 15.07          | 10.05 | 7.54 | 6.03 | 5.02 | 4.64 | 3.8        | 8   |   |
|                      | 26                  | 25.4                   | 16,000                | 24,000                                   | 6.87      | 25.39          | 16.9  | 12.7 | 10.2 | 8.5  | 7.8  | 6          |     |   |
|                      | 31                  | 38.1                   | 24,000                | 36,000                                   | 8.12      | 38.08          | 25    | 19.0 | 15.2 | 13   | 12   | 10         |     |   |
|                      | 35                  | 69.8                   | 44,000                | 66,000                                   | 9.12      | 69.8           | 47    | 35   | 28   | 23   | 21   | 17         |     |   |
|                      | 37                  | 95.2                   | 60,000                | 90,000                                   | 10.06     | 95.2           | 63    | 48   | 38   | 32   | 29   | 24         |     |   |
|                      | 42                  | 116                    | 73,000                | 109,500                                  | 11.00     | 116            | 77    | 58   | 46   | 39   | 36   | 29         |     |   |
|                      | 45                  | 157                    | 99,000                | 148,500                                  | 11.44     | 157            | 105   | 79   | 63   | 52   | 48   | 39         |     |   |
|                      | 50                  | 203                    | 128,000               | 192,000                                  | 13.00     | 203            | 135   | 102  | 81   | 68   | 62   | 51         |     |   |
|                      | 55                  | 300                    | 189,000               | 283,500                                  | 15.00     | 300            | 200   | 150  | 120  | 100  | 92   | 75         |     |   |
|                      | 60                  | 414                    | 261,000               | 391,500                                  | 16.00     | 414            | 276   | 207  | 166  | 138  | 127  | 104        |     |   |
|                      | 70                  | 658                    | 415,000               | 622,500                                  | 18.50     | 658            | 439   | 329  | 263  | 219  | 203  | 165        |     |   |
|                      | 75                  | 846                    | 533,000               | 799,500                                  | 20.00     | 846            | 564   | 423  | 338  | 282  | 260  | 211        |     |   |
|                      | 80                  | 1087                   | 685,000               | 1,027,500                                | 22.00     | 1087           | 725   | 543  | 435  | 362  | 334  | 272        |     |   |
|                      | 85                  | 1315                   | 829,000               | 1,243,500                                | 23.75     | 1315           | 877   | 658  | 526  | 438  | 405  | 329        |     |   |
|                      | 92                  | 1650                   | 1,040,000             | 1,560,000                                | 25.75     | 1650           | 1100  | 825  | 660  | 550  | 508  | 413        |     |   |
|                      | 92HT                | 2221                   | 1,400,000             | 2,100,000                                | 25.75     | 2221           | 1481  | 1111 | 889  | 740  | 683  | 555        |     |   |