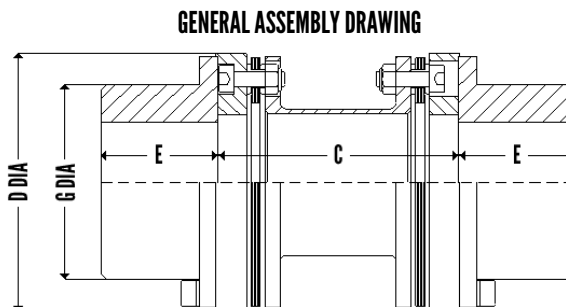




**UNIQUE METAFLEX COUPLINGS**  
**Series 80 Coupling**

This is the basic standard design. The central spacer is drop down type. Whole spacer assembly is spigotted on the end hubs to ensure concentricity and excellent dynamic balance. For a given OD the hubs have comparatively large bore capacity resulting in selection of coupling which is compact and has high Power/Weight ratio. Spacer Assembly/disc packs can be replaced without having to shift either driving or driven equipment.



**DIMENSIONS AND STANDARD SIZES**

| Size | Nominal<br>HP/100<br>RPM | Rating<br>Torque<br>NM | Peak<br>Torque<br>NM | Max<br>Speed<br>RPM | Max<br>Bore<br>MM | E, Hub<br>Length<br>MM | D<br>Dia<br>MM | G<br>Dia<br>MM | Std<br>C<br>MM |
|------|--------------------------|------------------------|----------------------|---------------------|-------------------|------------------------|----------------|----------------|----------------|
| 65   | 0.45                     | 32                     | 64                   | 25000               | 28                | 28                     | 66             | 42             | 100            |
| 80   | 0.90                     | 64                     | 128                  | 25000               | 38                | 30                     | 75             | 54             | 100            |
| 100  | 1.80                     | 128                    | 256                  | 25000               | 42                | 32                     | 87             | 60             | 100            |
| 125  | 2.60                     | 185                    | 370                  | 20000               | 48                | 41                     | 102            | 70             | 100            |
| 150  | 4.00                     | 285                    | 570                  | 20000               | 48                | 45                     | 105            | 69             | 100            |
| 162  | 7.00                     | 500                    | 1000                 | 18000               | 55                | 48                     | 115            | 80             | 140            |
| 180  | 9.00                     | 640                    | 1280                 | 18000               | 65                | 55                     | 130            | 90             | 140            |
| 200  | 12.00                    | 855                    | 1710                 | 16000               | 70                | 54                     | 143            | 100            | 140            |
| 220  | 15.00                    | 1070                   | 2140                 | 16000               | 80                | 62                     | 152            | 112            | 140            |
| 225  | 18.00                    | 1282                   | 2564                 | 14600               | 75                | 67                     | 150            | 110            | 140            |
| 250  | 25.00                    | 1780                   | 3560                 | 12300               | 90                | 76                     | 173            | 130            | 140            |
| 262  | 33.00                    | 2350                   | 4700                 | 12300               | 90                | 76                     | 173            | 130            | 140            |
| 300  | 56.00                    | 3990                   | 7980                 | 11000               | 110               | 86                     | 203            | 157            | 180            |
| 312  | 56.00                    | 3990                   | 7980                 | 11000               | 110               | 86                     | 203            | 157            | 180            |
| 350  | 70.00                    | 4990                   | 9980                 | 10500               | 115               | 95                     | 227            | 162            | 180            |
| 375  | 100.00                   | 7125                   | 14250                | 10000               | 130               | 102                    | 252            | 187            | 200            |
| 425  | 140.00                   | 9975                   | 19950                | 8000                | 130               | 108                    | 273            | 191            | 200            |
| 450  | 170.00                   | 12110                  | 24220                | 7000                | 145               | 114                    | 293            | 211            | 250            |
| 500  | 270.00                   | 19230                  | 38460                | 6000                | 175               | 127                    | 333            | 251            | 250            |
| 550  | 400.00                   | 28500                  | 57000                | 5360                | 190               | 148                    | 373            | 270            | 300            |
| 600  | 500.00                   | 35625                  | 71250                | 4850                | 210               | 153                    | 412            | As reqd        | 300            |
| 700  | 800.00                   | 57000                  | 114000               | 4250                | 240               | 178                    | 470            | DO             | 325            |
| 750  | 1100                     | 78375                  | 228000               | 3920                | 270               | 191                    | 510            | DO             | 325            |
| 800  | 1600                     | 114000                 | 302000               | 3600                | 300               | 210                    | 553            | DO             | 350            |

Mass, Inertia, Stiffness are at max bore with standard spacer dimension C listed above. Other C dimension are available as required on request . Hub dimensions can be modified to suit special needs. Max angular misalignment 0.50 Deg /Pack. Misalignment limits are for speeds upto 3000 RPM. For higher Speeds consult us. Bolt Tightening Torques - # for Disc Pack Bolts , ## for Hub Bolts.





**UNIQUE METAFLEX COUPLINGS**  
**Series 80 Coupling**

**ENGINEERING DATA**

| Size | Mass<br>KG | Inertia<br>MR <sup>2</sup><br>KG.M <sup>2</sup> | Maximum<br>Misalignment |              | Torsional<br>Stiff<br>MNM/Rad | Axial<br>Spring<br>Rate<br>N/MM | Bolt Tight Torque |       |
|------|------------|---|-------------------------|--------------|-------------------------------|---------------------------------|-------------------|-------|
|      |            |   | AXIAL<br>MM             | RADIAL<br>MM |                               |                                 | # NM              | ## MM |
| 65   | 1.5        | 0.001   | 1                       | 0.6          | 0.01                          | 25                              | 6                 | 6     |
| 80   | 2.1        | 0.002   | 1.2                     | 0.6          | 0.02                          | 30                              | 10                | 6     |
| 100  | 3.0        | 0.003   | 2                       | 0.6          | 0.06                          | 50                              | 24                | 10    |
| 125  | 4.7        | 0.007   | 2                       | 0.8          | 0.06                          | 60                              | 24                | 24    |
| 150  | 4.8        | 0.006   | 1.3                     | 0.8          | 0.06                          | 150                             | 24                | 24    |
| 162  | 6.6        | 0.011   | 1.3                     | 1.2          | 0.18                          | 100                             | 24                | 24    |
| 180  | 9.2        | 0.020   | 1.5                     | 1.2          | 0.20                          | 130                             | 48                | 48    |
| 200  | 11.0       | 0.030   | 1.8                     | 1.2          | 0.20                          | 165                             | 48                | 48    |
| 220  | 13.5       | 0.043   | 2.0                     | 1.2          | 0.26                          | 130                             | 48                | 48    |
| 225  | 14.5       | 0.044   | 1.4                     | 1.2          | 0.26                          | 275                             | 48                | 48    |
| 250  | 20.0       | 0.082   | 2.2                     | 1.2          | 0.38                          | 195                             | 48                | 48    |
| 262  | 20.0       | 0.082   | 1.5                     | 1.2          | 0.44                          | 350                             | 48                | 48    |
| 300  | 34.0       | 0.19  | 3.0                     | 1.2          | 0.64                          | 370                             | 200               | 80    |
| 312  | 30.0       | 0.17  | 1.9                     | 1.2          | 0.64                          | 415                             | 80                | 80    |
| 350  | 42.0       | 0.30  | 2.0                     | 1.2          | 1.07                          | 500                             | 200               | 200   |
| 375  | 55.0       | 0.47  | 2.3                     | 1.5          | 1.38                          | 540                             | 200               | 200   |
| 425  | 75.0       | 0.77  | 2.5                     | 1.5          | 2.14                          | 725                             | 400               | 400   |
| 450  | 97.0       | 1.15  | 2.8                     | 1.7          | 2.36                          | 755                             | 400               | 400   |
| 500  | 122.0      | 1.95  | 3.0                     | 1.9          | 3.92                          | 920                             | 400               | 400   |
| 550  | 155.0      | 3.00  | 3.2                     | 2.1          | 5.64                          | 920                             | 540               | 540   |
| 600  | 205.0      | 4.90  | 3.7                     | 2.1          | 6.93                          | 900                             | 700               | 700   |
| 700  | 314.0      | 9.80  | 4.1                     | 2.4          | 11.3                          | 1230                            | 1400              | 1400  |
| 750  | 395.0      | 14.20   | 4.6                     | 2.4          | 15                            | 1480                            | 1800              | 1400  |
| 800  | 580.0      | 26.00   | 5.0                     | 2.6          | ON REQ                        | ON REQ                          | 2400              | 1400  |

Mass, Inertia, Stiffness are at max bore with standard spacer dimension C listed above. Other C dimension are available as required on request . Hub dimensions can be modified to suit special needs. Max angular misalignment 0.50 Deg /Pack. Misalignment limits are for speeds upto 3000 RPM. For higher Speeds consult us. Bolt Tightening Torques - # for Disc Pack Bolts , ## for Hub Bolts.

*All Dimensions are in "mm" unless specified.  
The dimensions are for standard execution and subject to change without notice.*

