

## Disc coupling



### Stainless steel shrapnel coupling the correct choice

1. Stainless steel shrapnel coupling at least by a group of stainless steel shrapnel and two coupling body. Stainless steel shrapnel is fastened by a screw bolt in the coupling body is generally not loose or cause stainless steel shrapnel and coupling between the recoil.
2. Stainless steel shrapnel couplings such characteristics as bellows couplings, torque transfer coupling in similar ways. So when the relative displacement load is generated it is easy to bend, it can withstand up to 1.5 degrees deviation, generated in the servo system while the lower bearing load.
3. Stainless steel shrapnel coupling is commonly used in the servo system, stainless steel shrapnel has good torsional stiffness, but less in the bellows coupling.
4. On the other hand, stainless steel shrapnel coupling is very delicate, if misused or not used properly installed is very easy to damage. So to ensure the normal operation of bias in the coupling within the tolerance range is very necessary.
5. According to the circumferential adjustment model: preliminary selected bearing coupling dimensions namely the shaft diameter and axial bore length, shall conform to the master, slave end axle diameter not identical is common phenomenon, when the torque, speed, Lord, follower end axle diameter are not the same, according to the big shaft diameter selection of coupling model.

Optional stainless steel HUB

### Disc coupling



### Characteristi:

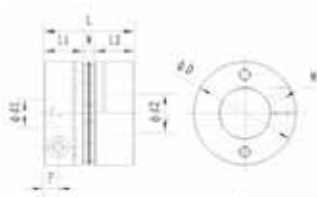
- ◆ Torsional rigidity
- ◆ Low inertia
- ◆ High temperature working state
- ◆ Zero rotary clearance

### Model:

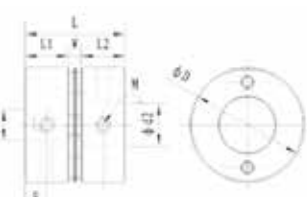
#### TYPE A



MPA-C



MPA



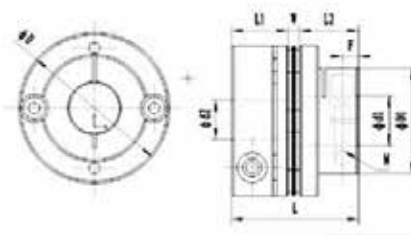
# Disc coupling

Optional stainless steel HUB

TYPE B



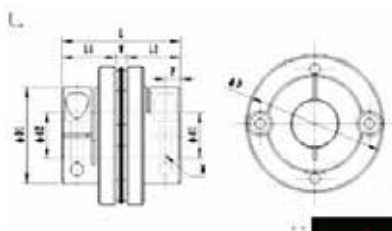
MPB-C



TYPE C



MPC-C



## Dimension: (mm)

| model  | aperture |     |     |     | D   | D1   | L    | L1/L2 | W   | F   | M  | locking torque | Axle housing style |
|--------|----------|-----|-----|-----|-----|------|------|-------|-----|-----|----|----------------|--------------------|
|        | d1       |     | d2  |     |     |      |      |       |     |     |    |                |                    |
|        | Min      | Max | Min | Max |     |      |      |       |     |     |    |                |                    |
| MP26   | 5        | 10  | 5   | 10  | 26  | -    | 25.5 | 11.5  | 2.5 | 3.6 | M3 | 0.7            | A                  |
| MP26C  | 5        | 10  | 5   | 10  | 26  | -    | 25.5 | 11.5  | 2.5 | 3.6 | M3 |                | A                  |
| MP34C  | 5        | 14  | 5   | 14  | 34  | -    | 31.3 | 14.1  | 3.1 | 4.5 | M4 | 2.5            | A                  |
|        | 5        | 9   | 5   | 14  |     | 21.6 | 31.3 | 14.1  | 3.1 | 4.5 | M4 | 2.5            | B                  |
|        | 5        | 9   | 5   | 9   |     |      | 31.3 | 14.1  | 3.1 | 3.7 | M4 | 2.5            | C                  |
| MP39C  | 8        | 16  | 8   | 16  | 39  | -    | 34.1 | 15.0  | 4.1 | 5.0 | M4 | 2.5            | A                  |
| MP44C  | 8        | 19  | 8   | 19  | 44  | -    | 34.5 | 15.0  | 4.5 | 5.0 | M4 | 2.5            | A                  |
|        | 8        | 19  | 8   | 15  |     | 29.6 | 34.5 | 15.0  | 4.5 | 5.0 | M4 |                | B                  |
|        | 8        | 15  | 8   | 15  |     |      | 34.5 | 15.0  | 4.5 | 4.5 | M4 |                | C                  |
| MP56C  | 10       | 25  | 10  | 25  | 56  | -    | 45.0 | 20.0  | 5.0 | 6.5 | M5 | 4.0            | A                  |
|        | 10       | 25  | 10  | 19  |     | 38.0 | 45.0 | 20.0  | 5.0 | 6.5 | M5 |                | B                  |
|        | 10       | 19  | 10  | 19  |     |      | 45.0 | 20.0  | 5.0 | 6.2 | M5 |                | C                  |
| MP68C  | 12       | 30  | 12  | 30  | 68  | -    | 54.0 | 24.0  | 6.0 | 7.5 | M6 | 8.0            | A                  |
|        | 12       | 30  | 12  | 24  |     | 46.0 | 54.0 | 24.0  | 6.0 | 7.5 | M6 |                | B                  |
|        | 12       | 24  | 12  | 24  |     |      | 54.0 | 24.0  | 6.0 | 7.5 | M6 |                | C                  |
| MP82C  | 16       | 38  | 16  | 38  | 82  | -    | 68.0 | 30.0  | 8.0 | 9.5 | M8 | 16.0           | A                  |
|        | 16       | 38  | 16  | 28  |     | 56.0 | 68.0 | 30.0  | 8.0 | 9.5 | M8 |                | B                  |
|        | 16       | 28  | 16  | 28  |     |      | 68.0 | 30.0  | 8.0 | 9.0 | M8 |                | C                  |
| MP94C  | 20       | 40  | 20  | 40  | 94  | -    | 68.3 | 30.0  | 8.3 | 9.0 | M8 | 16             | A                  |
| MP104C | 26       | 45  | 26  | 45  | 104 | -    | 69.8 | 30.0  | 9.8 | 9.0 | M8 | 16             | A                  |

## Example

|       |                  |            |          |          |
|-------|------------------|------------|----------|----------|
| MPA   | 44               | C          | 12       | 16       |
| model | Outside diameter | Fixed mode | Aperture | Aperture |

Optional stainless steel HUB

## Disc coupling

### Specification:

| model    | Rated torque<br>(N.m) | Max torque<br>(N.m) | Allowable speed<br>(min ) | Torsional stiffness<br>( N.m/rad) | Moment of inertia<br>(10 kgm <sup>2</sup> ) | axial<br>( mm ) | lateral<br>( mm ) | Angular<br>( ° ) | Axle housing style | net weight<br>( g ) |
|----------|-----------------------|---------------------|---------------------------|-----------------------------------|---------------------------------------------|-----------------|-------------------|------------------|--------------------|---------------------|
| MP26     | 1.0                   | 2.0                 | 10000                     | 2400                              | 2.7                                         | ±0.15           | 0.02              | 1                | A                  | 18                  |
| MP26C    | 1.5                   | 3.0                 | 10000                     | 2400                              | 2.7                                         | ±0.15           | 0.02              | 1                | A                  | 25                  |
| MP34/34C | 4.0                   | 8.0                 | 10000                     | 5600                              | 8.7                                         | ±0.20           | 0.02              | 1                | A                  | 49                  |
|          |                       |                     |                           |                                   | 7.3                                         |                 |                   |                  | B                  | 41                  |
|          |                       |                     |                           |                                   | 5.9                                         |                 |                   |                  | C                  | 33                  |
| MP39C    | 6.0                   | 12.0                | 10000                     | 9600                              | 18                                          | ±0.25           | 0.02              | 1                | A                  | 84                  |
| MP44C    | 10.0                  | 20.0                | 10000                     | 12000                             | 35                                          | ±0.30           | 0.02              | 1                | A                  | 105                 |
|          |                       |                     |                           |                                   | 24                                          |                 |                   |                  | B                  | 90                  |
|          |                       |                     |                           |                                   | 17                                          |                 |                   |                  | C                  | 76                  |
| MP56C    | 25.0                  | 50.0                | 10000                     | 30000                             | 136                                         | ±0.40           | 0.02              | 1                | A                  | 214                 |
|          |                       |                     |                           |                                   | 102                                         |                 |                   |                  | B                  | 185                 |
|          |                       |                     |                           |                                   | 81                                          |                 |                   |                  | C                  | 156                 |
| MP68C    | 60.0                  | 120.0               | 10000                     | 60000                             | 283                                         | ±0.45           | 0.02              | 1                | A                  | 396                 |
|          |                       |                     |                           |                                   | 206                                         |                 |                   |                  | B                  | 337                 |
|          |                       |                     |                           |                                   | 147                                         |                 |                   |                  | C                  | 279                 |
| MP82C    | 100.0                 | 200.0               | 10000                     | 72000                             | 715                                         | ±0.55           | 0.02              | 1                | A                  | 727                 |
|          |                       |                     |                           |                                   | 579                                         |                 |                   |                  | B                  | 625                 |
|          |                       |                     |                           |                                   | 386                                         |                 |                   |                  | C                  | 513                 |
| MP94C    | 180.0                 | 360.0               | 10000                     | 82000                             | 1950                                        | ±0.65           | 0.02              | 1                | A                  | 959                 |
| MP104C   | 230.0                 | 460.0               | 10000                     | 120000                            | 4230                                        | ±0.74           | 0.02              | 1                | A                  | 1181                |

### Model:

TYPE A



DMPA-C

TYPE B



DMPA

TYPE B



DMPB-C

TYPE C

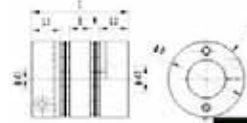
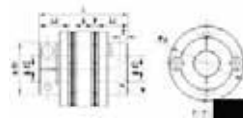
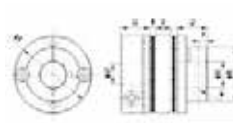
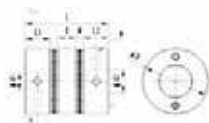
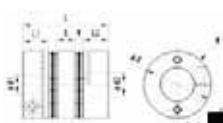


DMPC-C

TYPE D



DMPD-C



## Disc coupling

Optional stainless steel HUB

Dimension: (mm)

| model   | aperture |     |     |     | D   | D1   | L     | L1/L2 | E    | W   | F   | M  | locking torque | Axle housing style |
|---------|----------|-----|-----|-----|-----|------|-------|-------|------|-----|-----|----|----------------|--------------------|
|         | d1       |     | d2  |     |     |      |       |       |      |     |     |    |                |                    |
|         | Min      | Max | Min | Max |     |      |       |       |      |     |     |    |                |                    |
| DMP26   | 5        | 10  | 5   | 10  | 26  | -    | 35.0  | 11.5  | 7.0  | 2.5 |     | M3 | 0.7            | A                  |
| DMP26C  | 5        | 10  | 5   | 10  | 26  | -    | 35.0  | 11.5  | 7.0  | 2.5 |     | M3 | 1.5            | A                  |
| DMP34C  | 5        | 14  | 5   | 14  | 34  | -    | 45    | 14.9  | 9.4  | 3.3 | 4.5 | M4 | 2.5            | A                  |
|         | 5        | 9   | 5   | 14  |     | 21.6 |       |       |      |     |     |    |                | B                  |
|         | 5        | 9   | 5   | 9   |     |      | -     | C     |      |     |     |    |                |                    |
|         | 5        | 14  | 5   | 14  |     | -    | 33.5  | 11.6  | 4.1  | 3.1 |     |    |                | D                  |
| DMP39C  | 8        | 16  | 8   | 16  | 39  | -    | 49    | 15    | 10.8 | 4.1 | 4.5 | M4 | 2.5            | A                  |
|         | 8        | 16  | 8   | 16  |     | -    | 39    | 13.6  | 2.7  | 4.6 |     |    |                | D                  |
| DMP44C  | 8        | 19  | 8   | 19  | 44  | -    | 50    | 15    | 11   | 4.5 | 4.5 | M4 | 2.5            | A                  |
|         | 8        | 19  | 8   | 15  |     | 29.6 |       |       |      |     |     |    |                | B                  |
|         | 8        | 15  | 8   | 15  |     |      | -     | 40    | 13.6 | 5   |     |    |                | 3.9                |
|         | 8        | 19  | 8   | 19  |     | -    | 40    | 13.6  | 5    | 3.9 |     |    |                | D                  |
| DMP56C  | 10       | 25  | 10  | 25  | 56  | -    | 63    | 20    | 13   | 5   | 6.5 | M5 | 4.0            | A                  |
|         | 10       | 25  | 10  | 19  |     | 38   |       |       |      |     |     |    |                | B                  |
|         | 10       | 19  | 10  | 19  |     |      | -     | 52    | 19   | 6.1 |     |    |                | 4.1                |
|         | 10       | 25  | 10  | 25  |     | -    | 52    | 19    | 6.1  | 4.1 |     |    |                | D                  |
| DMP68C  | 12       | 30  | 12  | 30  | 68  | -    | 74    | 24    | 14   | 6   | 7.8 | M6 | 8.0            | A                  |
|         | 12       | 30  | 12  | 24  |     | 46   |       |       |      |     |     |    |                | B                  |
|         | 12       | 24  | 12  | 24  |     |      | -     | 68.8  | 24   | 8.8 |     |    |                | 6                  |
|         | 12       | 30  | 12  | 30  |     | -    | 68.8  | 24    | 8.8  | 6   |     |    |                | D                  |
| DMP82C  | 16       | 38  | 16  | 38  | 82  | -    | 98    | 30    | 22   | 8   | 9.5 | M8 | 16             | A                  |
|         | 16       | 38  | 16  | 28  |     | 56   |       |       |      |     |     |    |                | B                  |
|         | 16       | 28  | 16  | 28  |     |      | -     | 82.5  | 30   | 9.5 |     |    |                | 6.5                |
|         | 16       | 38  | 16  | 38  |     | -    | 82.5  | 30    | 9.5  | 6.5 |     |    |                | D                  |
| DMP94C  | 20       | 40  | 20  | 40  | 94  | -    | 98.6  | 30    | 22   | 8.3 | 9.5 | M8 | 16             | A                  |
| DMP104C | 26       | 45  | 26  | 45  | 104 | -    | 101.6 | 30    | 22   | 9.8 | 9.5 | M8 | 16             | A                  |

Example

|       |                  |            |          |          |
|-------|------------------|------------|----------|----------|
| DMPA  | 56               | C          | 19       | 24       |
| model | Outside diameter | Fixed mode | Aperture | Aperture |

## Disc coupling

Optional stainless steel HUB

### Specification :

| model     | Rated torque (N.m) | Max torque (N.m) | Allowable speed (min <sup>-1</sup> ) | Torsional stiffness (N.m/rad) | Moment of inertia (10 <sup>-6</sup> kgm <sup>2</sup> ) | Axial (mm) | lateral (mm) | Angular (°) | Axle housing style | net weight (g) |
|-----------|--------------------|------------------|--------------------------------------|-------------------------------|--------------------------------------------------------|------------|--------------|-------------|--------------------|----------------|
| DMP26     | 1.0                | 2.0              | 10000                                | 1200                          | 3.2                                                    | ±0.33      | 0.15         | 1           | A                  | 35             |
| DMP26C    | 1.5                | 3.0              | 10000                                | 1200                          | 3.2                                                    | ±0.33      | 0.15         | 1           | A                  | 35             |
| DMP34/34C | 4                  | 8                | 10000                                | 2800                          | 12                                                     | ±0.40      | 0.18         | 1           | A                  | 69             |
|           |                    |                  |                                      |                               | 9.3                                                    |            |              |             | B                  | 61             |
|           |                    |                  |                                      |                               | 6.1                                                    |            |              |             | C                  | 53             |
|           |                    |                  |                                      |                               | 12                                                     |            |              |             | D                  | 61             |
| DMP39C    | 6                  | 12               | 10000                                | 4800                          | 24                                                     | ±0.50      | 0.24         | 1           | A                  | 123            |
|           |                    |                  |                                      |                               | 24                                                     |            |              |             | D                  | 105            |
| DMP44C    | 10                 | 20               | 10000                                | 6000                          | 48                                                     | ±0.60      | 0.24         | 1           | A                  | 151            |
|           |                    |                  |                                      |                               | 37                                                     |            |              |             | B                  | 136            |
|           |                    |                  |                                      |                               | 29                                                     |            |              |             | C                  | 122            |
|           |                    |                  |                                      |                               | 48                                                     |            |              |             | D                  | 136            |
| DMP56C    | 25                 | 50               | 10000                                | 15000                         | 166                                                    | ±0.80      | 0.28         | 1           | A                  | 304            |
|           |                    |                  |                                      |                               | 129                                                    |            |              |             | B                  | 275            |
|           |                    |                  |                                      |                               | 95                                                     |            |              |             | C                  | 246            |
|           |                    |                  |                                      |                               | 166                                                    |            |              |             | D                  | 275            |
| DMP68C    | 60                 | 120              | 10000                                | 30000                         | 459                                                    | ±0.90      | 0.34         | 1           | A                  | 556            |
|           |                    |                  |                                      |                               | 317                                                    |            |              |             | B                  | 498            |
|           |                    |                  |                                      |                               | 273                                                    |            |              |             | C                  | 440            |
|           |                    |                  |                                      |                               | 459                                                    |            |              |             | D                  | 498            |
| DMP82C    | 100                | 200              | 10000                                | 36000                         | 852                                                    | ±1.10      | 0.52         | 1           | A                  | 1051           |
|           |                    |                  |                                      |                               | 686                                                    |            |              |             | B                  | 880            |
|           |                    |                  |                                      |                               | 592                                                    |            |              |             | C                  | 732            |
|           |                    |                  |                                      |                               | 852                                                    |            |              |             | D                  | 880            |
| DMP94C    | 180                | 360              | 10000                                | 8200                          | 2300                                                   | ±1.30      | 0.52         | 1           | A                  | 1373           |
| DMP104C   | 230                | 260              | 10000                                | 60000                         | 5650                                                   | ±1.48      | 0.55         | 1           | A                  | 1707           |