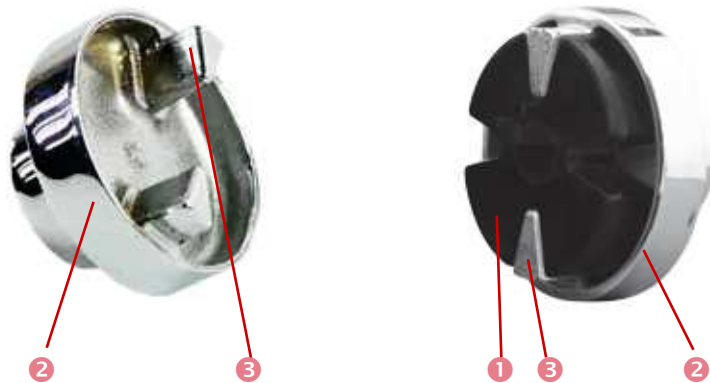


# MPP®

**\*\*** Torsional flexibility    **\*** Radial flexibility    **Push fit** Axial flexibility    **\*** Conical flexibility



## DESCRIPTION

- Flexible element **1** : polyurethane in the form of a Maltese cross.
- Flange **2** : cast iron with drive segments **3** supplied unbored (except 633054 and 633055).

## OPERATING

The MPP coupling is designed with the following features :

- push fit assembly;
- smooth, compact cylindrical shape, without protrusions;
- the flexible element operates under compression;
- safe in use;
- temperature range -30°C to + 70°C in continuous operation.

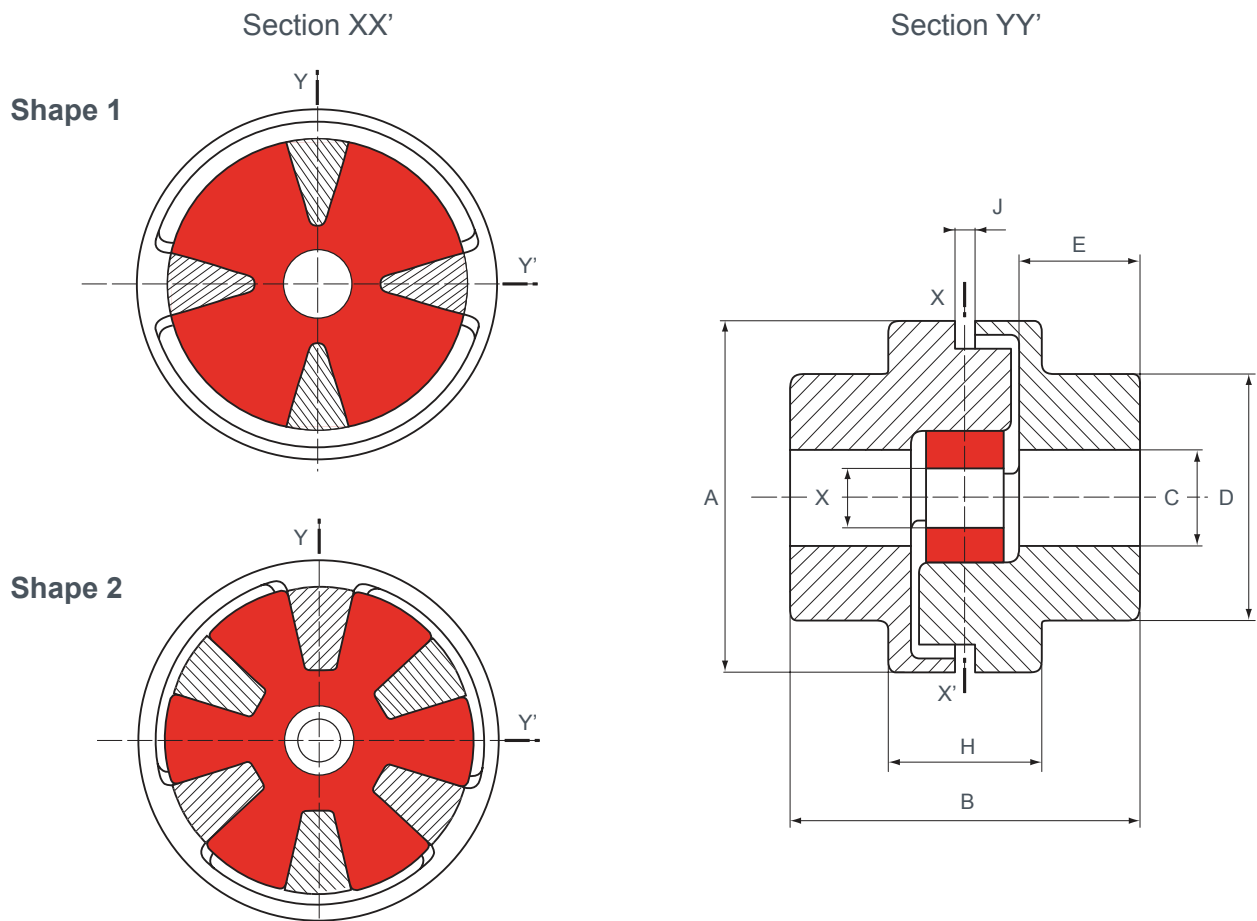
### Advantages

- Reduced size.
- Easy to use.

### Recommendation

- It is recommended that the coupling should not be subjected to axial tension which might cause the flexible element to slip off the drive segments on the flanges.

# DIMENSIONS



## Flanges supplied unbored

| Ref.   | Type    | Fig. | Couple nominal TCN (N.m) | Couple maxi (N.m) | Vitesse maxi (tr/mn) | Alésage C (mm) |      | A (mm) | B (mm) | D (mm) | E (mm) | H (mm) | J (mm) | X (mm) | Poids (kg) |
|--------|---------|------|--------------------------|-------------------|----------------------|----------------|------|--------|--------|--------|--------|--------|--------|--------|------------|
|        |         |      |                          |                   |                      | mini           | maxi |        |        |        |        |        |        |        |            |
| 633052 | MPP® 3  | 1    | 30                       | 90                | 9 000                | -              | 28   | 58     | 62     | 42     | 20     | 32     | 3      | 10     | 0,6        |
| 633053 | MPP® 8  | 1    | 80                       | 240               | 7 000                | -              | 42   | 84     | 89     | 63     | 30     | 41     | 5      | 13     | 1,8        |
| 633051 | MPP® 20 | 1    | 200                      | 600               | 4 000                | -              | 55   | 118    | 116    | 82     | 40     | 51     | 6      | 20     | 4,5        |
| 633054 | MPP® 38 | 2    | 380                      | 1 150             | 3 000                | 20             | 60   | 145    | 160    | 90     | 60     | 67     | 6      | 30     | 9,4        |
| 633055 | MPP® 65 | 2    | 650                      | 2 000             | 3 000                | 20             | 75   | 170    | 208    | 112    | 80     | 82     | 6      | 32     | 18         |

1 N.m ≈ 0,1 mkg

Please see current price list for availability of items.

The maximum torque is considered to be an infrequent start-up torque and not periodic.

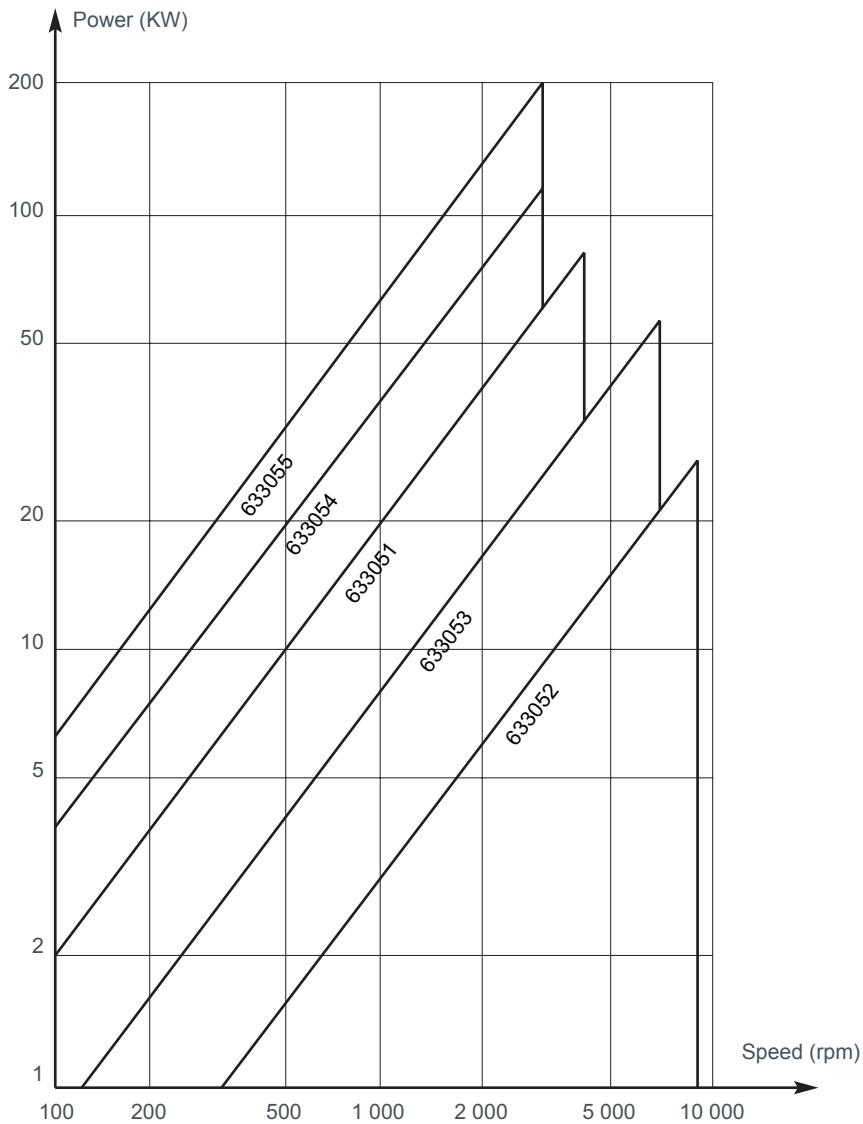
# PARTS LIST

| Coupling Reference | Flexible element |     | Flange    |     |
|--------------------|------------------|-----|-----------|-----|
|                    | Reference        | Qty | Reference | Qty |
| 633051             | 633551           | 1   | 321535    | 2   |
| 633052             | 633552           | 1   | 321503    | 2   |
| 633053             | 633553           | 1   | 321534    | 2   |

| Coupling Reference | Flexible element |     | Flange    |     |
|--------------------|------------------|-----|-----------|-----|
|                    | Reference        | Qty | Reference | Qty |
| 633054             | 633554           | 1   | 321464    | 2   |
| 633055             | 633555           | 1   | 321465    | 2   |

# OPERATING LIMITS

## POWER RANGE

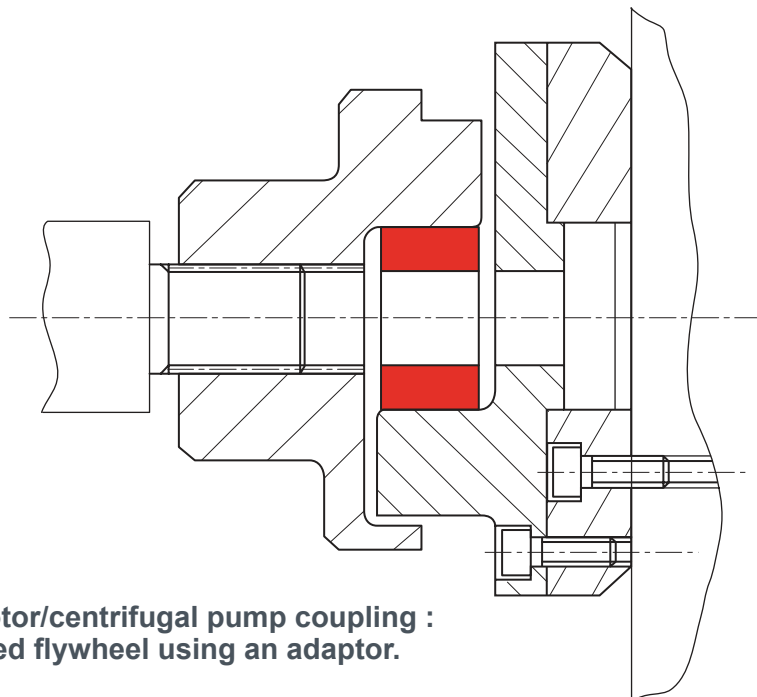


## OPERATING CHARACTERISTICS

| Nominal torque (N.m) | Vibratory torque (N.m) | Torsion under NT (degrees) | Radial misalignment* (mm) | Conical misalignment* (degrees) | Axial misalignment (mm) |
|----------------------|------------------------|----------------------------|---------------------------|---------------------------------|-------------------------|
| 30                   | 15                     | 10°                        | 0,2                       | 1°                              | 1,5                     |
| 80                   | 40                     | 10°                        | 0,4                       | 1°                              | 2,5                     |
| 200                  | 100                    | 10°                        | 0,9                       | 1°                              | 3                       |
| 380                  | 380                    | 10°                        | 1                         | 1°                              | 3                       |
| 650                  | 650                    | 10°                        | 1                         | 1°                              | 4                       |

\* given for a speed of 3,000 rpm.

# ASSEMBLY



**Example: electric motor/centrifugal pump coupling :  
mounted on motorised flywheel using an adaptor.**

## SELECTION GUIDE

PAULSTRA MPP® / STANDARD, 50 HZ ASYNCHRONOUS THREE PHASES MOTORS

This table uses a safety coefficient of 1.3 corresponding to normal operating conditions of commonly used driven machines.

| Motor type     | Power 2 poles<br>n ≈ 3000 rpm |                | Type of coupling        | Power 4 poles<br>n ≈ 1500 rpm |              | Type of coupling | Power 6 poles<br>n ≈ 1000 rpm |              | Type of coupling | Power 8 poles<br>n ≈ 750 rpm |                  | Type of coupling          | Shaft dimensions<br>D x E |                |
|----------------|-------------------------------|----------------|-------------------------|-------------------------------|--------------|------------------|-------------------------------|--------------|------------------|------------------------------|------------------|---------------------------|---------------------------|----------------|
|                | Kw                            | CV             |                         | Kw                            | CV           |                  | Kw                            | CV           |                  | Kw                           | CV               |                           | ≈ 3 000<br>rpm            | ≈ 1 500<br>rpm |
|                |                               |                |                         |                               |              |                  |                               |              |                  |                              |                  |                           |                           |                |
| 56             | 0,09<br>0,12                  | 0,12<br>0,16   | MPP 3<br>MPP 3          | 0,06<br>0,09                  | 0,08<br>0,12 | MPP 3<br>MPP 3   | 0,06<br>0,09                  | 0,08<br>0,12 | MPP 3<br>MPP 3   |                              |                  |                           | 9 x 20                    |                |
| 63             | 0,18<br>0,25                  | 0,25<br>0,34   | MPP 3<br>MPP 3          | 0,12<br>0,18                  | 0,16<br>0,25 | MPP 3<br>MPP 3   | 0,12<br>0,18                  | 0,16<br>0,25 | MPP 3<br>MPP 3   |                              |                  |                           | 11 x 23                   |                |
| 71             | 0,37<br>0,55                  | 0,5<br>0,75    | MPP 3<br>MPP 3          | 0,25<br>0,37                  | 0,34<br>0,5  | MPP 3<br>MPP 3   |                               |              |                  |                              |                  |                           | 14 x 30                   |                |
| 80             | 0,75<br>1,1                   | 1<br>1,5       | MPP 3<br>MPP 3          | 0,55<br>0,75                  | 0,75<br>1    | MPP 3<br>MPP 3   | 0,37<br>0,55                  | 0,5<br>0,75  | MPP 3<br>MPP 3   |                              |                  |                           | 19 x 40                   |                |
| 90 S<br>90 L   | 1,5<br>2,2                    | 2<br>3         | MPP 3<br>MPP 3          | 1,1<br>1,5                    | 1,5<br>2     | MPP 3<br>MPP 3   | 0,75<br>1,1                   | 1<br>1,5     | MPP 3<br>MPP 3   |                              |                  |                           | 24 x 50                   |                |
| 100 L          | 3                             | 4              | MPP 3                   | 2,2<br>3                      | 3<br>4       | MPP 3<br>MPP 3   | 1,5                           | 2            | MPP 3            | 0,75<br>1,1                  | 1<br>1,5         | MPP 3<br>MPP 3            | 28 x 60                   |                |
| 112 M          | 4                             | 5,5            | MPP 3                   | 4                             | 5,5          | MPP 3            | 2,2                           | 3            | MPP 3            | 1,5                          | 2                | MPP 3                     | 28 x 60                   |                |
| 132 S          | 5,5<br>7,5                    | 7,5<br>10      | MPP 8                   | 5,5                           | 7,5          | MPP 8            | 3                             | 4            | MPP 8            | 2,2                          | 3                | MPP 8                     | 38 x 80                   |                |
| 132 M          |                               |                |                         | 7,5                           | 10           | MPP 8            | 4,0<br>5,5                    | 5,5<br>7,5   | MPP 8<br>MPP 8   | 3                            | 4                | MPP 8                     | 38 x 80                   |                |
| 160 M<br>160 L | 11,0<br>15,0<br>18,5          | 15<br>20<br>25 | MPP 8<br>MPP 8<br>MPP 8 | 11<br>15                      | 15<br>20     | MPP 20<br>MPP 20 | 7,5<br>11                     | 10<br>15     | MPP 20<br>MPP 20 | 4<br>5,5<br>7,5              | 5,5<br>7,5<br>10 | MPP 8<br>MPP 20<br>MPP 20 | 42 x 110                  |                |
| 180 M<br>180 L | 22                            | 30             | MPP 20                  | 18,5<br>22                    | 25<br>30     | MPP 20<br>MPP 20 | 15                            | 20           | MPP 20           | 11                           | 15               | MPP 20                    | 48 x 110                  |                |
| 200 L          | 30<br>37                      | 40<br>50       | MPP 20<br>MPP 20        | 30                            | 40           | MPP 38           | 18,5<br>22                    | 25<br>30     | MPP 38<br>MPP 38 | 15                           | 20               | MPP 38                    | 55 x 110                  |                |
| 225 S<br>225 M | 45                            | 61             | MPP 38                  | 37<br>45                      | 50<br>61     | MPP 38<br>MPP 38 | 30                            | 40           | MPP 38           | 18,5<br>22                   | 25<br>30         | MPP 38<br>MPP 38          | 55x110                    | 60x140         |
| 250 M          | 55                            | 75             | MPP 38                  | 55                            | 75           | MPP 65           | 37                            | 50           | MPP 65           | 30                           | 40               | MPP 65                    | 60x140                    | 65x140         |
| 280 S          | 75                            | 100            | MPP 38                  | 75                            | 100          | MPP 65           | 45                            | 61           | MPP 65           | 37                           | 50               | MPP 65                    | 65x140                    | 75x140         |