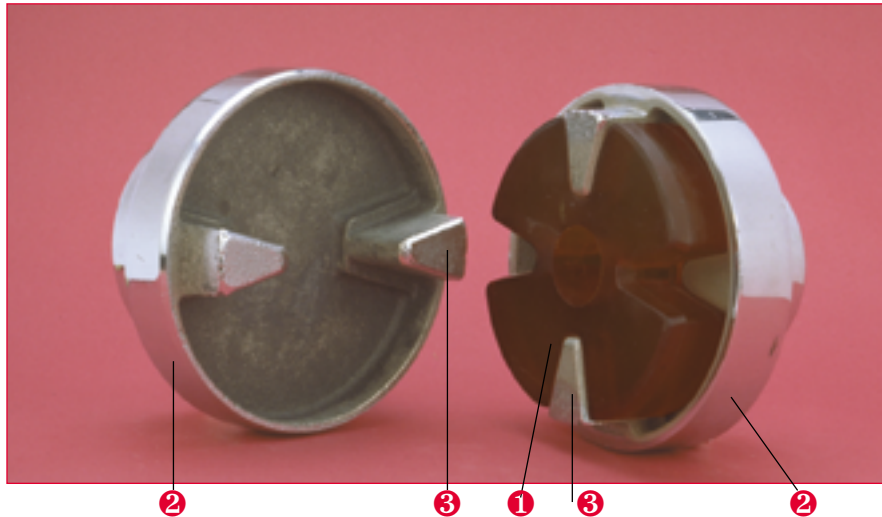




# MPP®

**\*\*** 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.

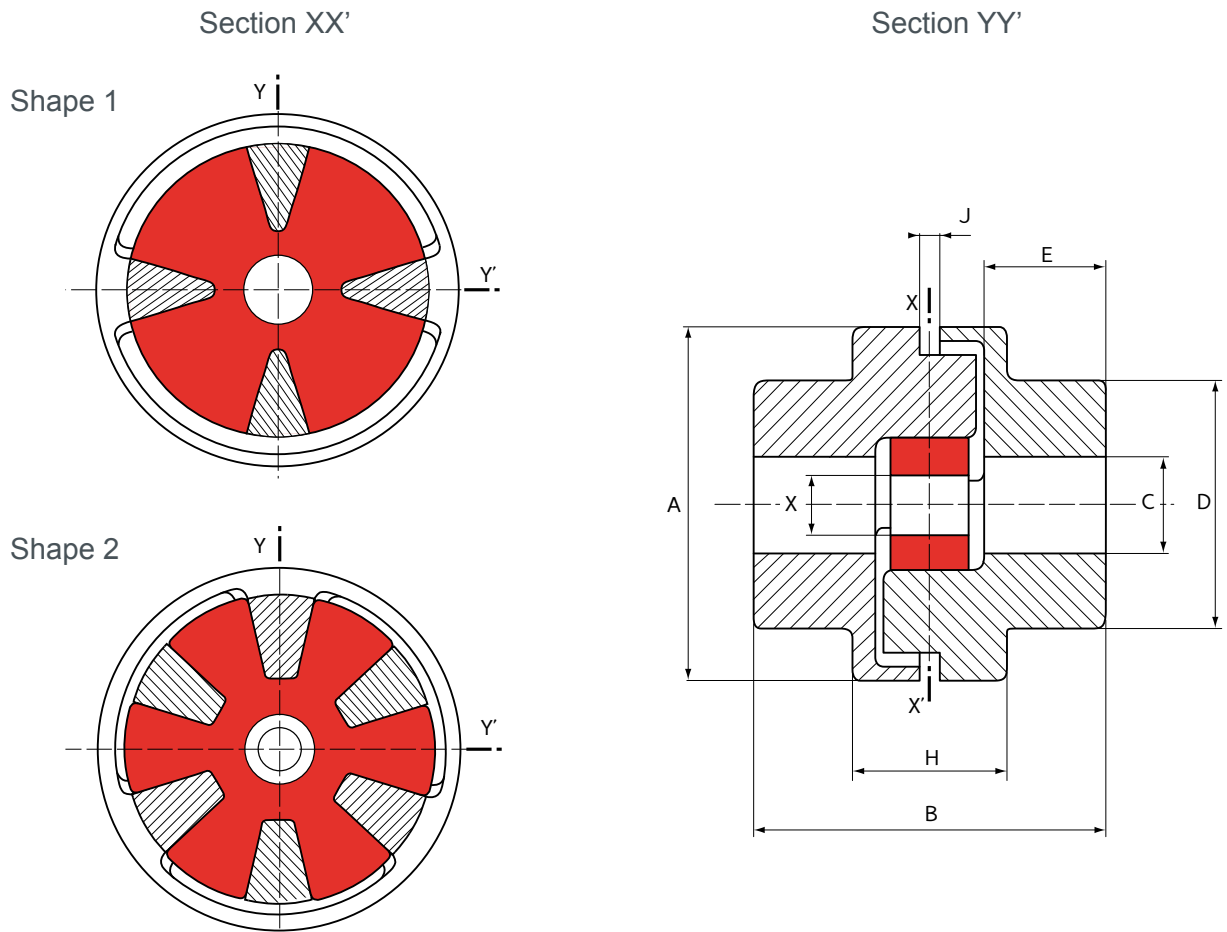
### Advantages :

- 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

Type	Shape	Nominal torque (TCN-N.m)	Max torque (N.m)	Max speed (rpm)	Hole size C mm		A (mm)	B (mm)	D (mm)	E (mm)	Reference	H (mm)	J (mm)	X (mm)	Weight (kg)
					(min)	(max)									
MPP 3	1	30	90	9000	-	28	58	62	42	20	<b>633052</b>	32	3	10	0.6
MPP 8	1	80	240	7000	-	42	84	89	63	30	<b>633053</b>	41	5	13	1.8
MPP 20	1	200	600	4000	-	55	118	116	82	40	<b>633051</b>	51	6	20	4.5
MPP 38	2	380	1150	3000	20	60	145	160	90	60	<b>633054</b>	67	6	30	9.4
MPP 65	2	650	2000	3000	20	75	170	208	112	80	<b>633055</b>	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.

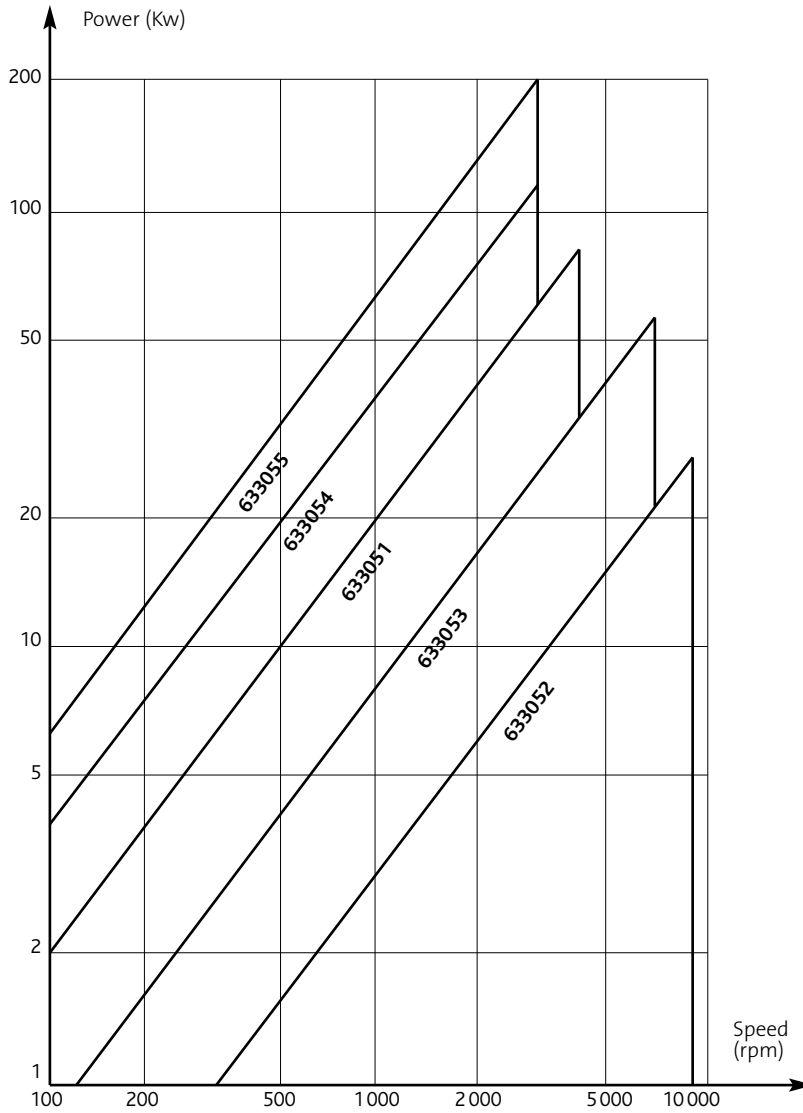
# PARTS LIST

Coupling reference	Flexible element reference	Qty	Flange reference	Qty	Coupling reference	Flexible element reference	Qty	Flange reference	Qty
<b>633051</b>	<b>633551</b>	1	321535	2	<b>633054</b>	<b>633554</b>	1	321464	2
<b>633052</b>	<b>633552</b>	1	321503	2	<b>633055</b>	<b>633555</b>	1	321465	2
<b>633053</b>	<b>633553</b>	1	321534	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

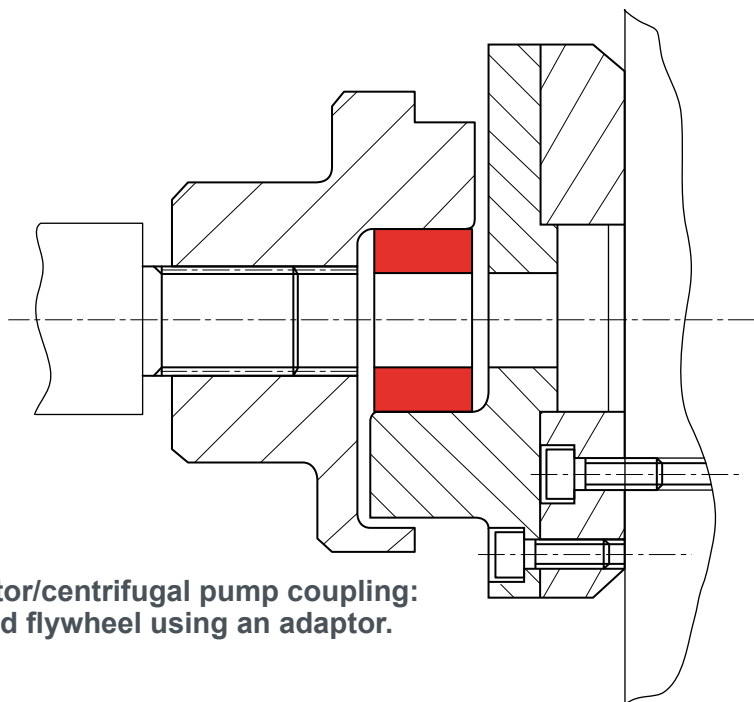
\* given for a speed of 3,000 rpm.



**HUTCHINSON®**  
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# 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 n ≈ 3000 rpm		Type of coupling	Power 4 poles n ≈ 1500 rpm		Type of coupling	Power 6 poles n ≈ 1000 rpm		Type of coupling	Power 8 poles n ≈ 750 rpm		Type of coupling	Shaft dimensions D x E	
	Kw	CV		Kw	CV		Kw	CV		Kw	CV		≈ 3000 tr/mn	≈ 1500 tr/mn
56	0.09 0.12	0.12 0.16	MPP 3 MPP 3	0.06 0.09	0.08 0.12	MPP 3 MPP 3	0.06 0.09	0.08 0.12	MPP 3 MPP 3					9 x 20
63	0.18 0.25	0.25 0.34	MPP 3 MPP 3	0.12 0.18	0.16 0.25	MPP 3 MPP 3	0.12 0.18	0.16 0.25	MPP 3 MPP 3					11 x 23
71	0.37 0.55 0.55	0.5 0.75 0.75	MPP 3 MPP 3 MPP 3	0.25 0.37 0.37	0.34 0.5 0.5	MPP 3 MPP 3 MPP 3								14 x 30
80	0.75 1.1	1 1.5	MPP 3 MPP 3	0.55 0.75	0.75 1	MPP 3 MPP 3	0.37 0.55	0.5 0.75	MPP 3 MPP 3					19 x 40
90 S 90 L	1.5 2.2	2 3	MPP 3 MPP 3	1.1 1.5	1.5 2	MPP 3 MPP 3	0.75 1.1	1 1.5	MPP 3 MPP 3					24 x 50
100 L	3	4	MPP 3 MPP 3	2.2 3	3 4	MPP 3 MPP 3	1.5	2	MPP 3	0.75 1.1	1 1.5	MPP 3 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 7.5	7.5 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 5.5	5.5 7.5	MPP 8 MPP 8	3	4	MPP 8		38 x 80
160 M 160 L	11.0 15.0 18.5	15 20 25	MPP 8 MPP 8 MPP 8	11 15	15 20	MPP 20 MPP 20	7.5 11	10 15	MPP 20 MPP 20	4 5.5 7.5	5.5 7.5 10	MPP 8 MPP 20 MPP 20		42 x 110
180 M 180 L	22	30	MPP 20	18.5 22	25 30	MPP 20 MPP 20	15	20	MPP 20	11	15	MPP 20		48 x 110
200 L	30 37	40 50	MPP 20 MPP 20	30	40	MPP 38	18.5 22	25 30	MPP 38 MPP 38	15	20	MPP 38		55 x 110
225 S 225 M	45	61	MPP 38	37 45	50 61	MPP 38 MPP 38	30	40	MPP 38	18.5 22	25 30	MPP 38 MPP 38	55 x 110	60 x 140
250 M	55	75	MPP 38	55	75	MPP 65	37	50	MPP 65	30	40	MPP 65	60 x 140	65 x 140
280 S	75	100	MPP 65	75	100	MPP 65	45	61	MPP 65	37	50	MPP 65	65 x 140	75 x 140