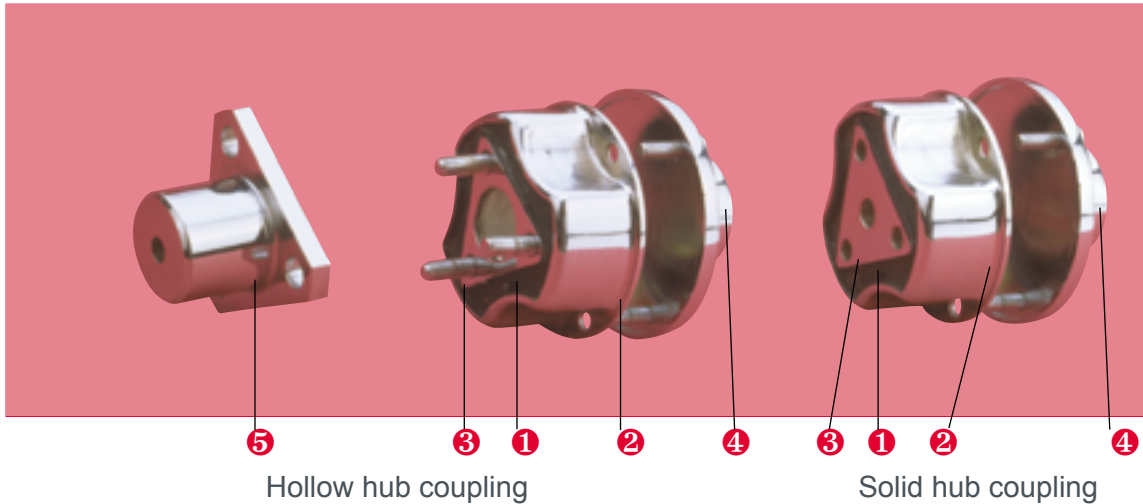




CARDAFLEX®

****** Torsional flexibility ***** Radial flexibility ****** Axial flexibility ****** Conical flexibility



DESCRIPTION

There are two variations of the CARDAFLEX coupling :
hollow hub and solid hub :

- Flexible element :
 - ① Formed of solid natural rubber.
 - ② External steel surround, bonded to the rubber.
 - ③ Triangular hub: a hollow hub bonded to the rubber and attached to the flange ⑤, or a solid hub which accommodates a grooved or keyed shaft.
- Steel flanges :
 - ④ round.
 - ⑤ triangular.

OPERATION

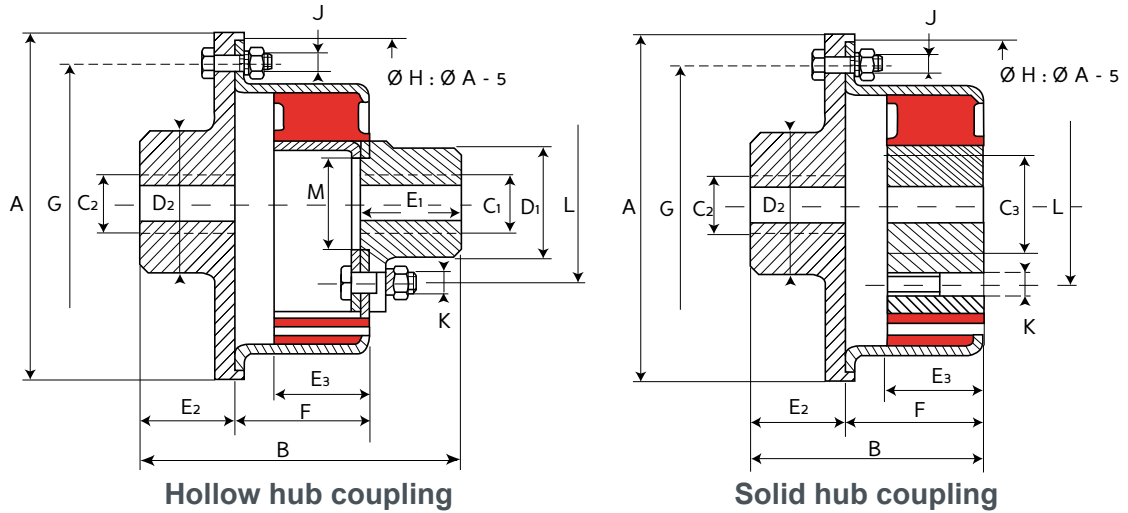
The CARDAFLEX coupling is designed with the following features :

- Safe in use.
- Fairly low conical stiffness.
- Compact shape
- Good performance at high speeds.

Advantages :

- Especially in the case of the CARDAFLEX solid hub coupling, the space occupied by the unit is much reduced.
- The outer surround of the flexible element can be centred directly onto the flywheel of one of the machines to be coupled.

DIMENSIONS



HOLLOW HUB

Nominal torque (N.m)	Max torque (N.m)	Max speed (rpm)	Hole size C1 (mm)		Hole size C2 (mm)		A (mm)	B (mm)	D1 (mm)	D2 (mm)	E1 (mm)	E2 (mm)	Reference	E3 (mm)	F (mm)	G (mm)	J (mm)	K (mm)	L (mm)	M (mm)	Weight (kg)
			min	max	min	max															
50	100	6500	7	19	7	28	105	100	34	45	33	30	622310	28	40	86	6	8	52	30	1.6
80	160	6000	9	20	9	30	120	125	32	50	44	40	622311	35	45	100	6	8	52	30	2.3
120	240	5500	9	25	9	36	130	140	40	55	49	45	622312	35	50	108	8	10	64	36	2.8
160	320	5500	9	32	9	42	155	155	49	60	55	50	622315	43	55	130	10	12	76	42	4.5
520	1040	4500	11	42	11	56	205	203	67	80	71	65	622320	57	73	175	12	16	100	56	10.7

1 N.m ≈ 0.1 mkg

Please see current price list for availability of items.

SOLID HUB

Nominal torque (N.m)	Max torque (N.m)	Max speed (rpm)	Hole size C2 (mm)		Hole size C3 (mm)		A (mm)	B (mm)	D2 (mm)	E2 (mm)	E3 (mm)	Reference	F (mm)	G (mm)	J (mm)	K (mm)	L (mm)	Weight (kg)
			min	max	min	max												
30	60	7000	7	24	10	21	85	60	40	28	26	622401	32	68	6	7	42	0.4
50	100	6500	7	28	16	28	105	70	45	30	28	622402	40	86	6	8	52	0.7
80	160	6000	9	30	17	28	120	85	50	40	35	622403	45	100	6	8	52	1
120	240	5500	9	36	18	36	130	95	55	45	35	622404	50	108	8	10	64	1.2
160	320	5500	9	42	22	42	155	105	60	50	43	622405	55	130	10	12	76	2.3
520	1040	4500	11	56	30	56	205	138	80	65	57	622406	73	175	12	16	100	5

1 N.m ≈ 0.1 mkg

Please see current price list for availability of items.

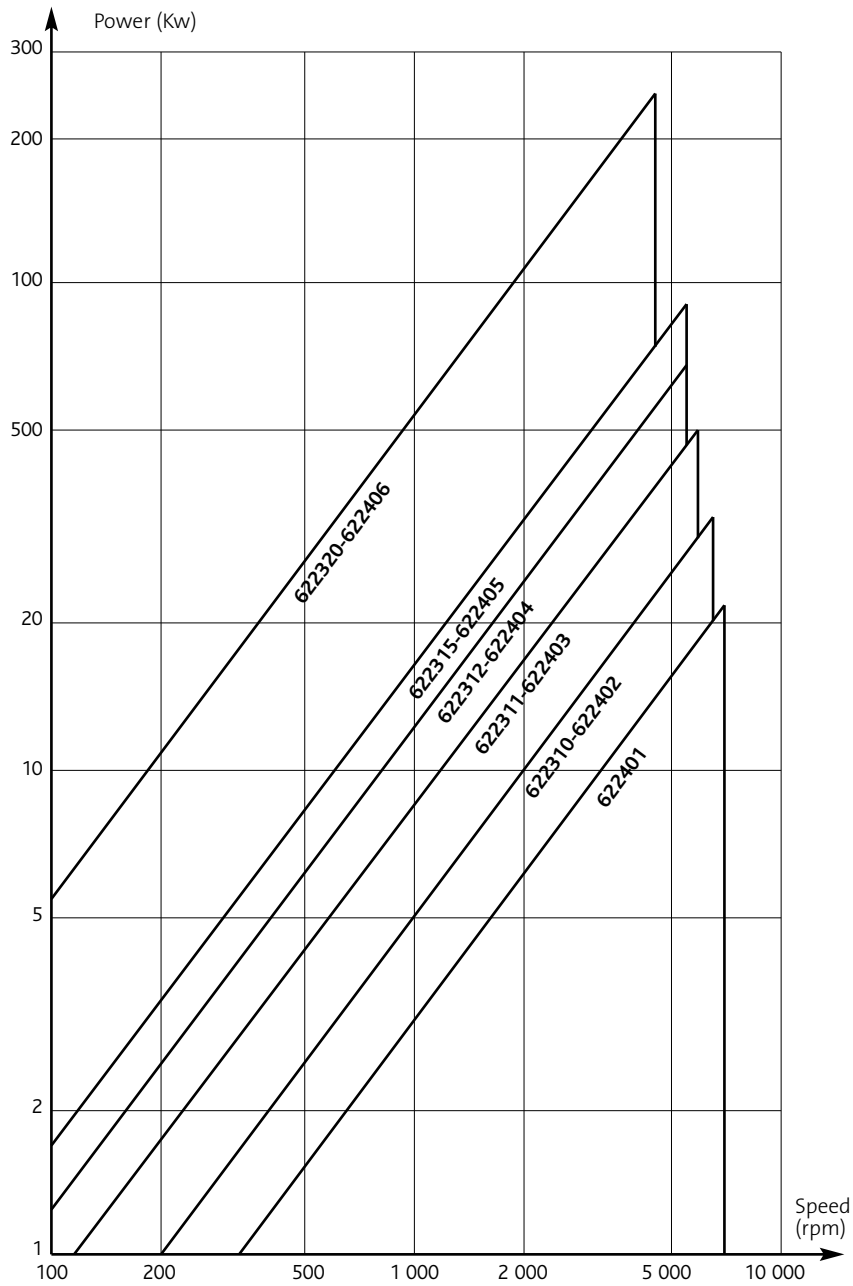
The maximum torque is considered to be an infrequent start-up torque and is not periodic.

PARTS LIST

Coupling reference	Flexible element reference	Qty	Round flange reference	Qty	Triangular flange reference	Nbre	Coupling reference	Flexible element reference	Qty	Round flange reference	Qty
622310	622210	1	321631	1	321636	1	622401	622108	1	321621	1
622311	622211	1	321641	1	321646	1	622402	622110	1	321631	1
622312	622212	1	321651	1	321656	1	622403	622111	1	321641	1
622315	622215	1	321661	1	321666	1	622404	622112	1	321651	1
622320	622220	1	321671	1	321676	1	622405	622115	1	321661	1
622325	622225	1	321681	1	321686	1	622406	622120	1	321671	1
							622407	622125	1	321681	1

OPERATING LIMITS

POWER RANGE



OPERATING CHARACTERISTICS

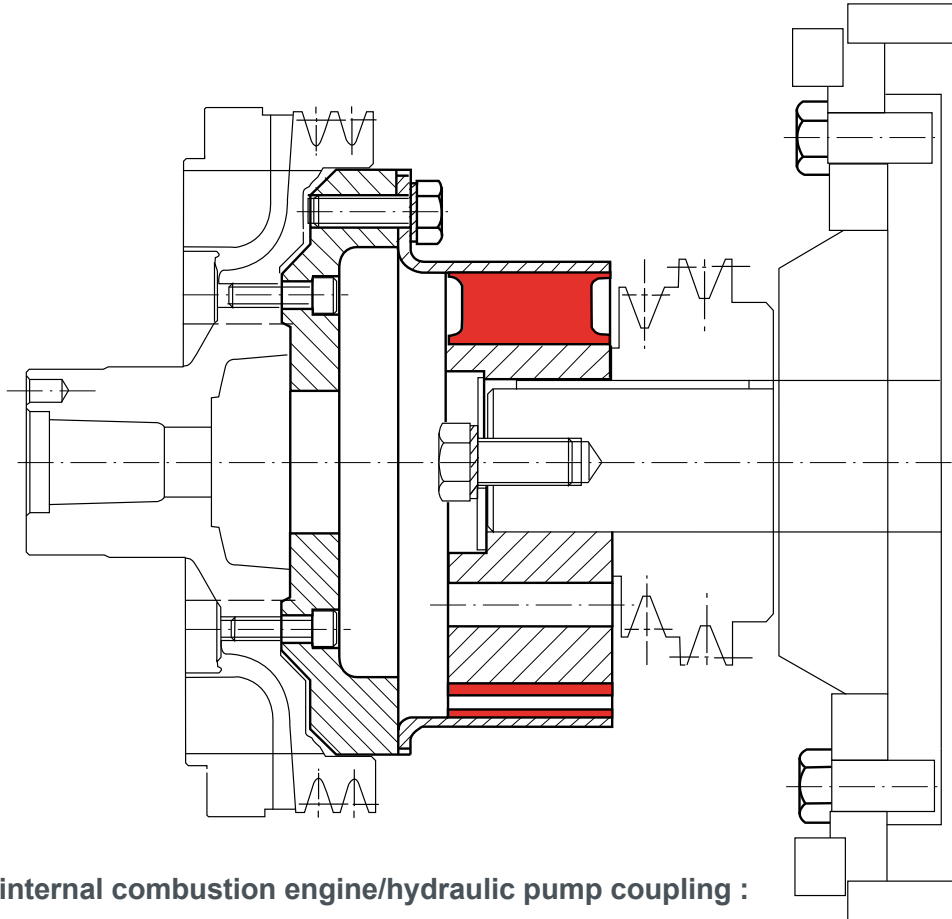
Nominal torque (N.m)	Vibrat. coupling (N.m)	Torsion under NT (degrees)	STIFFNESS			
			AXIAL (daN/mm)	RADIAL (daN/mm)	TORSIONAL (m.KN/rad.)	CONICAL (m.KN/rad.)
30	15	6	30	100	0.286	0.114
50	25	7	16	65	0.400	0.114
80	40	5	30	90	0.860	0.23
120	60	8	25	80	0.860	0.23
160	80	5	32	90	1.72	0.46
520	260	7	40	150	4	1.14

1 N.m ≈ 0.1 mkg

ASSEMBLY

Method :

- Mount the round flange onto the shaft of one machine.
- Mount :
 - The triangular flange onto the other shaft (hollow hub coupling).
 - The flexible element onto the other shaft (solid hub coupling).
- Attach the flexible element to the round flange.



**Example : internal combustion engine/hydraulic pump coupling :
mounted on keyed shaft and on pulley.**