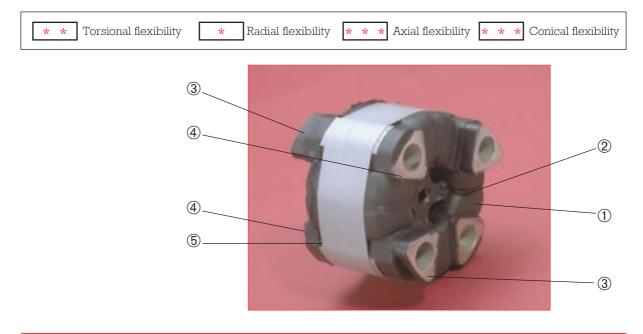


TETRAFLEX Torque from 160 to 250 N.m.



DESCRIPTION

- Flexible element comprising :

 Natural rubber in the form of a cross.
 A flexing element where errors are borded to
 - ② A floating aluminium star, whose arms are bonded to the rubber.
- Mountings :
 - ③ 2 aluminium bosses, bonded to the rubber, which will beattached to one of the machines.
 - \circledast 2 aluminium bosses, bonded to the rubber, which will be attached to the other machine.
 - ^⑤ Band for precompressing the rubber before assembly.
 - 2 retaining bars are supplied although not shown in the photo.

OPERATION

The TETRAFLEX coupling is designed with the following features :

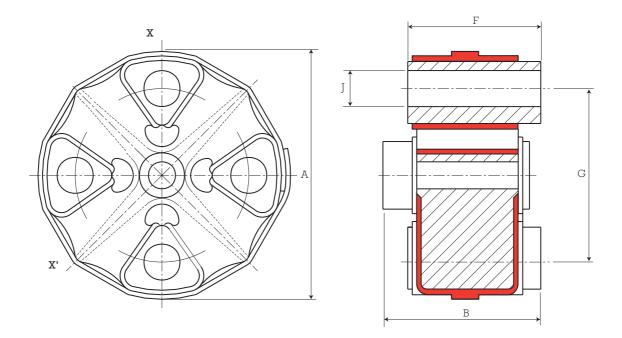
- Binary symmetry which allows considerable conical misalignment to the order of 8°.
- Precompression of the rubber when assembled which limits operation under tension.

Advantages :

- The floating star allows :
- Increased torque capacity without reducing the axial flexibility, hence reduced size for a given torque.
- Rotation at higher speeds as the star ensures that the arms are anchored centrifugally.
- The possibility of using a floating shaft (at moderate speed) as the increased radial rigidity provides self-centering for the coupling.



DIMENSIONS



Nominal torque N.m	Max torque N.m	Max speed rpm	A mm	B mm	Reference	G mm	J mm	F mm
160	400	6000 (1)	110	70	630400	77	16	59
250	600	6000 (1)	110	90	630408	77	16	79

(1) for supported driving and driven shafts (1500 rpm with floating shaft).

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

OPERATING CHARACTERISTICS

	Vibrat.	Torsion	STIFFNESS							
torque N.m	N.m	under NT degrees	AXIAL daN/mm	RADIAL daN/mm	TORSIONAL m.KN/rad.	CONICAL m.KN/rad.				
160	80	8	10	40	1.14	0.143				
250	125	8	20	80	1.72	0.344				

ASSEMBLY

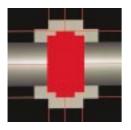
Method :

- Attach the coupling to the flanges (not supplied), eg using bolts.
- Install the centrifugal retaining bars supplied with the coupling.
- Cut the band.

Compression is ensured by the mountings.

- Replace the band before disassembling.
- Mounting on floating shaft : the maximum conical misalignment allowed at 1500 rpm is : 10° for ref. 630400,
 - 6° for ref. 630408.

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TETRAFLEX Torque from 1000 to 8000 N.m.

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



DESCRIPTION

- Flexible element comprising :
 - ① Natural rubber in the form of a cross.

② A floating aluminium or steel star, whose arms are bonded to the rubber.

• Mountings :

2 aluminium bosses, bonded to the rubber which will be attached to one of the machines.

2 bosses bonded to the rubber which will be attached to the other machine.

OPERATION

The TETRAFLEX coupling is designed with the following features :

- Binary symmetry which allows considerable conical misalignment.
- The rubber is precompressed from manufacture which limits operation under tension.

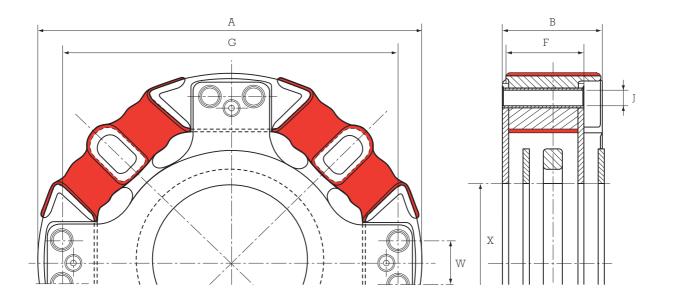
Advantages :

The floating star allows :

- Increased torque capacity without reducing the axial flexibility, hence reduced size for a given torque.
- Rotation at higher speeds as the star ensures that the arms are anchored centrifugally.
- A good torque/speed ratio.



DIMENSIONS



Nominal torque N.m	Max Torque N.m	Max speed rpm	A mm	B mm	Reference	G mm	J mm	F mm	W mm	X mm
2000	3000	3500	350	90	630802	253	14.2	90	58	-
2500	3700	3000	400	85	630419	352	16	62	55	190
4000	6000	3000	408	108	630470	358	17	86	48	170
6000	9000	3000	420	130	630420	350	18	88	50	185

l Nm ≠ 0.1 mkg.

The maximum torque is considered to be a dynamic infrequent torque and of short duration.

OPERATING CHARACTERISTICS

Nominal	Vribatory	Torsion	STIFFNESS					
torque N.m	coupling N.m	under NT degrees	AXIAL daN/mm	RADIAL daN/mm	TORSIONAL m.KN/rad.			
2000	1000	7	10	44	17			
2500	1250	8	13	40	18			
4000	2000	8	21	72	29			
6000	3000	9	26	86	38			

l Nm≠0.1 mkg

ASSEMBLY

Can be mounted on units that are badly misaligned. These couplings must not be mounted on floating shafts.

