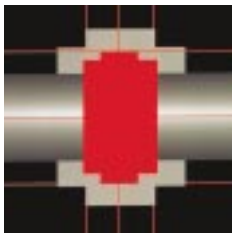
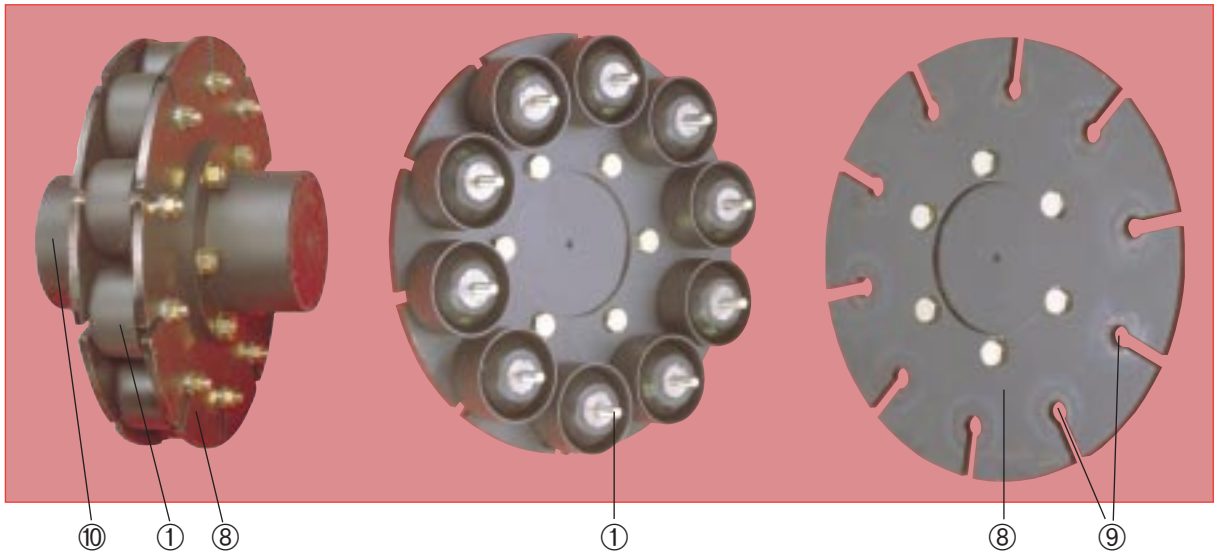
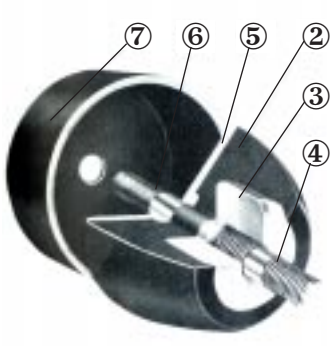


RADIAFLEX
RTP

* Torsional flexibility	* Radial flexibility	See Data Sheet Axial flexibility	Conical flexibility



DESCRIPTION



- Flexible element made up of a variable number of FLEXIBLE STUDS ① depending on the torque to be transmitted :
  ② Solid natural rubber blocks in the form of a truncated cone.
  ③ Internal armature bonded to the rubber.
  ④ Threaded stud.
  ⑤ External armature bonded to the rubber.
  ⑥ Studding welded to armature.
  ⑦ Cylindrical metal cover.
- Steel disks :
  ⑧ Two identical disks, bolted to the flanges ⑩ and with slits ⑨ to house the studs ①.
- Flanges : ⑩ die-cast steel.

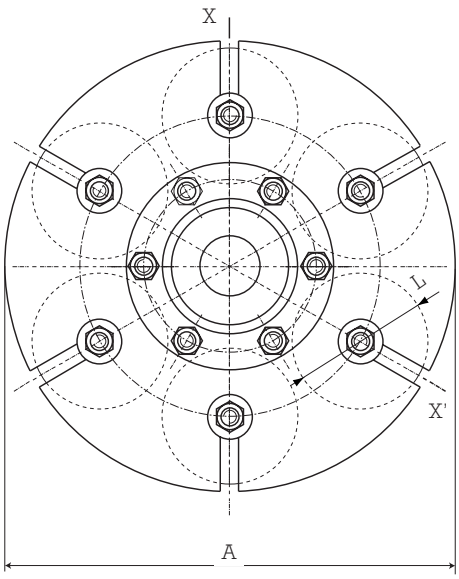
OPERATION

The RADIAFLEX RTP coupling is designed with the following features :

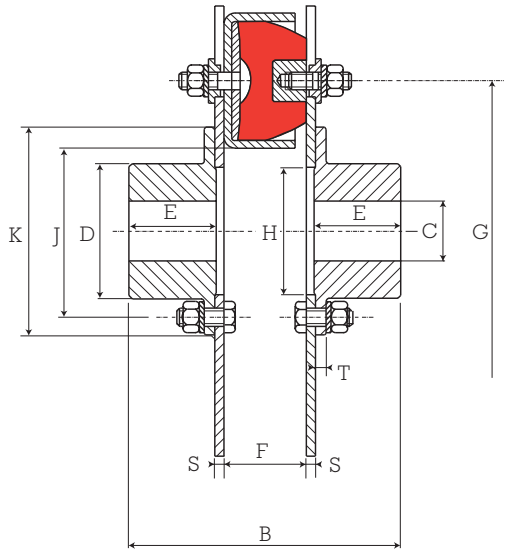
- The studs can be removed radially without moving the coupled machines.
- At low and average torque: the rubber operates under compression.
- At high torque: there is progressive thrust of the rubber against the metal cover ③.
- Safe in use.
- It can absorb the effects of tension or compression axially (for example: push and pull of a helical screw).

DIMENSIONS

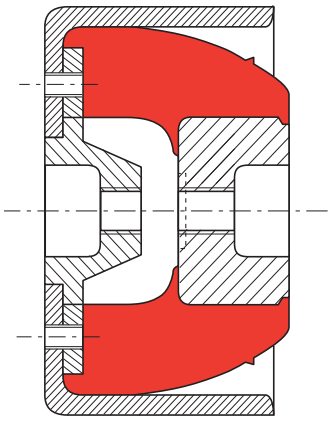
View from F



XX' Section



Alternative mount:



Réf. 526401Δ60

The alternative mount 526401**Δ60** is softened. It's radial stiffness is equal to $^{2}/_{3}$ of the standard mounting ref. 522131Δ60.

Warning: A coupling equipedwith the alternative mounts 526401 can only transmit 80% of the torque of the standard version.

Nominal torque N.m	Max torque N.m	Max speed rpm	Hole size C mm		A mm	B mm	D mm	E mm	Type	Reference	F mm	G mm	H mm	J mm	K mm	L mm	S mm	T mm	Wght kg
			min	max															
470	1000	3000	18	60	270	181	86	60	RTP 2.3	**612203**	55	180	85	115	138	90	6	7	13
630	1250	3000	18	60	270	181	86	60	RTP 2.4	**612204**	55	180	85	115	138	90	6	7	15
1100	2200	3000	18	60	300	185	86	60	RTP 2.6	**612206**	55	200	85	115	138	90	8	7	28
1800	3600	2500	23	80	364	235	115	85	RTP 2.8	**612208**	55	264	115	145	168	90	8	9.5	45
2500	5000	1500	28	100	420	299	145	102	RTP 4.6	**612406**	80	280	145	180	210	130	10	12.5	77
2800	5600	2500	28	100	424	274	145	102	RTP 2.10	**612210**	55	324	145	180	210	90	10	12.5	72
4100	8200	2000	28	120	475	345	177	136	RTP 2.12	**612212**	55	380	178	213	247	90	12	16	103
4500	9000	1500	28	120	510	370	177	136	RTP 4.8	**612408**	80	370	178	213	247	130	12	16	127
6900	13500	1500	28	120	600	382	177	136	RTP 4.10	**612410**	80	460	178	213	247	130	18	16	178
9700	20000		32	150	680	424	210	155	RTP 4.12	**612412**	80	540	178	260	290	130	20	18	253
17500	35000		32	150	860	424	210	155	RTP 4.16	**612416**	80	720	178	260	290	130	20	18	330
17500	35000		32	155	826	687	220	250	RTP 6.6	**612606**	147	580	200			246	30		590
34000	68000		32	220	1096	827	320	320	RTP 6.8	**612608**	147	850	320			246	30		1140
60000	120000		32	200	1246	827	275	320	RTP 6.12	**612612**	147	1000	250			246	30		1200
72000	140000		32	360	1446	827	540	320	RTP 6.12	**612613**	147	1200	500			246	30		2200
104000	200000		35	360	1546	887	540	350	RTP 6.16	**612616**	147	1300	500			246	30		2500

1 Nm ≠ 0.1 mkg

See current price list for availability of items.

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

OPERATING CHARACTERISTICS

Nominal torque N.m	Vibrat. coupling N.m	Torsion under NT degrees	STIFFNESS				
			Axiale compr. daN/mm	Axial compres. daN/mm	Axial tension daN/mm	Radial daN/mm	Torsional m. KN/radian
470	235	3° 10'	375	300	105	8.6	10.3
630	315	3° 10'	500	400	140	11.4	20.6
1100	550	2° 50'	750	600	210	21.2	86
1800	900	2° 10'	1000	800	280	49.3	114
2500	1250	2° 15'	1500	1200	330	65.5	86
2800	1400	1° 50'	1250	1000	350	92.6	229
4100	2050	1° 30'	1500	1200	420	160	573
4500	2250	1° 40'	2000	1600	440	152	460
6900	3450	1° 25'	2500	2000	550	292	1030
9700	4850	1° 10'	3000	2400	660	482	
17500	8750	0° 50	4000	3200	880	1140	
17500	8750	2° 10'	3000	1800	550	458	
34000	17000	1° 30'	4000	2400	730	1320	
60000	30000	1° 15'	6000	3600	1100	2700	
72000	36000	1°	6000	3600	1100	3900	
104000	52000	0° 50'	8000	4800	1460	6100	

1 Nm ≠ 0.1 mkg

PARTS LIST

Flexible studs, disk and flanges

Coupling reference	Flexible stud reference	Qty	Flange reference	Qty	Disk reference	Qty
612203	522090 Δ 60	3	321138	2	351103	2
612204	522090 Δ 60	4	321136	2	351110	2
612206	522090 Δ 60	6	321138	2	351122	2
612208	522090 Δ 60	8	321147	2	351133	2
612210	522090 Δ 60	10	321154	2	351142	2
612212	522090 Δ 60	12	321167	2	351152	2
612406	522131 Δ 60	6	321154	2	351125	2
612408	522131 Δ 60	8	321167	2	351134	2
612410	522131 Δ 60	10	321167	2	351143	2
612412	522131 Δ 60	12	321191	2	351157	2
612416	522131 Δ 60	16	321191	2	351170	2
612606	522240 Δ 45 and 60	6	321189	2	351124	2
612608	522240 Δ 45 and 60	8	321193	2	351135	2
612612	522240 Δ 45 and 60	12	321182	2	351155	2
612613	522240 Δ 45 and 60	12	321195	2	351156	2
612616	522240 Δ 45 and 60	16	321197	2	351169	2

Fixing for flanges and discs. Locating sleeves :

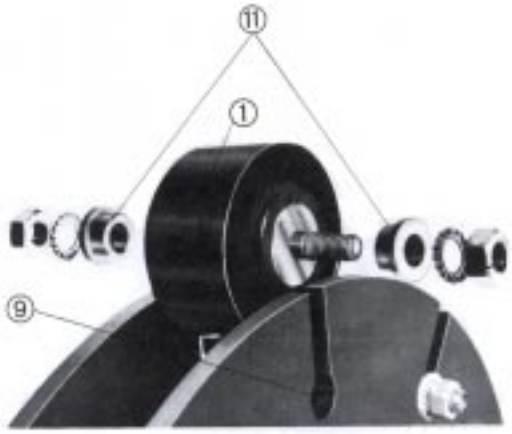
Coupling part number	Flange fixing reference	Qty	Locating sleeve reference	Qty	Elastic element reference	Qty
612203	337216	1	**337211**	1	337217	1
612204	337206	1	**337207**	1	337208	1
612206	337209	1	**337210**	3	**337211**	2
612208	337206	2	**337210**	4	337208	2
612210	337565	1	**337227**	1	337208 - 337228	2 - 1
612212	337229	1	**337230**	1	337208	3
612406	337675	1	**337226**	1	**337215**	1
612408	337229	1	**337231**	1	**337232**	2
612410	337233	1	**337234**	1	**337215 - 337232**	1 - 1
612412	337676	1	**337237**	3	**337232**	3
612416	337676	1	**337237**	4	**337232**	4
612606	Please consult our Technical Service		351282	12	Please consult our Technical Service	
612608			351282	16		
612612			351282	24		
612613			351282	24		
612616			351282	32		

References writtenin bold are kept in stock.

ASSEMBLY

Method :

- Mount each of the flanges onto the ends of the corresponding shafts.
- Use the specially machined recess to centre the disks onto the flanges and screw together.
- Attach the external armature of the studs to the appropriate disk.
- Attach the internal armature of the studs to the other disk.



Note :

The slits ⑨ are designed to take the loose locating sleeves ⑪ to enable the individual flexible studs ① to be mounted and removed radially.

Torque to be applied to the stud fixing bolts :

- Stud RTP2 : 522090 Ø 12 → 7.5 N.m.
- Stud RTP4 : 522131 Ø 16 → 18.5 N.m.
- Stud RTP6 : 522240 Ø 24 → 64.0 N.m.