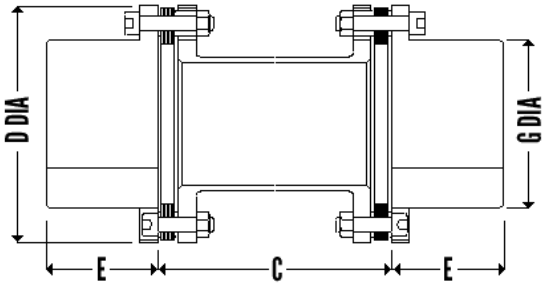
UNIQUE METAFLEX COUPLINGS

Series 52 Coupling

Series 52 are high speed as well as high torque capacity couplings. The costruction is in spacer design with central spacer member being removable without having to shift either driving or driven machine. The discs are loose (not unitized) . The couplings have comparatively low moment of Inertia & high torsional stiffness.

GENERAL ASSEMBLY DRAWING



DIMENSIONS AND STANDARD SIZES

Size	Nominal HP/100 *RPM*	Rating Torque *NM*	Peak Torque *NM*	Max Speed *RPM*	Max Bore *MM*	E, Hub Length *MM*	D Dia *MM*	G Dia *MM*	Std C *MM*
100	1.8	128	256	15000	32	32	83	46	90
125	3.7	263	526	15000	42	41	98	59	100
162	6.9	491	982	13900	48	48	111	71	140
200	13.5	962	1924	11200	55	54	138	84	140
225	19.0	1353	2706	10450	65	67	145	95	140
262	27.8	1980	3960	9200	80	76	168	114	140
312	38.6	2750	5500	7800	95	86	198	140	140
350	73.6	5243	10486	7000	105	95	221	150	140
375	98.6	7025	14050	6300	115	102	246	170	180
425	114.0	8120	16240	5800	120	108	267	178	180
450	137.0	9760	19520	5400	135	114	287	194	200
500	257.0	18310	36620	4700	155	127	327	226	225
550	341.0	24290	48580	4200	180	148	367	256	250
600	471.0	33550	67100	3800	190	153	406	276	250
700	659.0	46945	93890	3300	220	178	464	318	275
750	846.0	60265	120530	3000	220	191	503	321	275
800	1103.0	78575	157150	3000	240	210	546	349	305
100	1.8	128	256	15000	32	32	83	46	90
125	3.7	263	526	15000	42	41	98	59	100
162	6.9	491	982	13900	48	48	111	71	140
200	13.5	962	1924	11200	55	54	138	84	140
225	19.0	1353	2706	10450	65	67	145	95	140
262	27.8	1980	3960	9200	80	76	168	114	140
312	38.6	2750	5500	7800	95	86	198	140	140

Mass, Inertia, Stiffness are at max bore with standard spacer dimension C listed above. Other C dimension are available as required on request . Hub dimensions can be modified to suit special needs. Max angular misalignment 0.50 Deg /Pack. Misalignment limits are for speeds upto 3000 RPM. For higher Speeds consult us. Bolt Tightening Torques - # for Disc Pack Bolts , ## for Hub Bolts.

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Series 52 Coupling

ENGINEERING DATA

Size	Mass *KG*	Inertia MR^2 KG.M^2	Maximum Misalignment AXIAL *MM*	Maximum Misalignment RADIAL *MM*	Torsional Stiff *MNM/Rad*	Axial Spring Rate *N/MM*	Bold Torque *# NM*
100	1.5	0.0010	0.9	0.6	0.07	50	10
125	2.0	0.0020	0.9	0.8	0.07	70	24
162	4.0	0.0040	0.9	1.2	0.21	100	24
200	6.0	0.0130	0.9	1.2	0.24	190	48
225	8.0	0.0190	0.9	1.2	0.31	275	48
262	13.0	0.0430	1.1	1.2	0.50	350	48
312	20.0	0.0900	1.3	1.2	0.76	415	80
350	28.0	0.1600	1.4	1.2	1.10	500	200
375	38.0	0.2800	1.6	1.5	1.50	540	200
425	50.0	0.4200	1.7	1.5	2.35	725	400
450	60.0	0.6000	1.8	1.7	2.60	755	400
500	88.0	1.1200	2.1	1.9	4.30	920	400
550	126.0	2.1000	2.3	2.1	6.20	920	540
600	169.0	3.4000	2.6	2.1	7.60	900	700
700	258.0	6.6000	2.9	2.4	12.4	1230	900
750	325.0	9.7000	3.2	2.4	16.5	1480	1130
800	415.0	14.8000	3.5	2.6	ON REQ	ON REQ	1500

Mass and inertia, stiffness are at max bore with standard spacer. Dimension C listed above. Other C dimensions are available as required on request. Hub dimensions can be modified to suit special needs.

Max angular misalignment 0.50 deg/pack. Misalignment limits are for speeds upto 3000 rpm. For higher speeds consult us.

All Dimensions are in "mm" unless specified.
The dimensions are for standard execution and subject to change without notice.

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