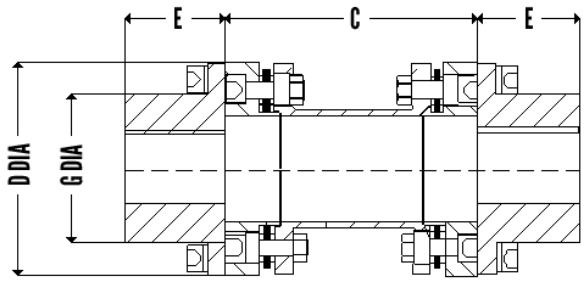
UNIQUE METAFLEX COUPLINGS

Series 80X Coupling

Series 80 X is with captured center member. This feature prevents the spacer subassembly to fly away in unlikely event of failure of discs or bolts.

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*
65	0.45	32	64	25000	28	28	66	42	100
80	0.90	64	128	25000	38	30	75	54	100
100	1.80	128	256	25000	42	32	87	60	100
125	2.60	185	370	20000	48	41	102	70	100
150	4.00	285	570	20000	48	45	105	69	100
162	7.00	500	1000	18000	55	48	115	80	140
180	9.00	640	1280	18000	65	55	130	90	140
200	12.00	855	1710	16000	70	54	143	100	140
220	15.00	1070	2140	16000	80	62	152	112	140
225	18.00	1282	2564	14600	75	67	150	110	140
250	25.00	1780	3560	12300	90	76	173	130	140
262	33.00	2350	4700	12300	90	76	173	130	140
300	56.00	3990	7980	11000	110	86	203	157	180
312	56.00	3990	7980	11000	110	86	203	157	180
350	70.00	4990	9980	10500	115	95	227	162	180
375	100.00	7125	14250	10000	130	102	252	187	200
425	140.00	9975	19950	8000	130	108	273	191	200
450	170.00	12110	24220	7000	145	114	293	211	250
500	270.00	19230	38460	6000	175	127	333	251	250
550	400.00	28500	57000	5360	190	148	373	270	300
600	500.00	35625	71250	4850	210	153	412	AS	300
700	800.00	57000	114000	4250	240	178	470	DO	325
750	1100.00	78375	228000	3920	270	191	510	DO	325
800	1600.00	114000	302000	3600	300	210	553	DO	350

Head Office: Mercantile Buildings, 10/1D, Lal Bazar Street,
3rd Floor, Kolkata – 700001, INDIA.
Phone : +91 33 22200366 / 2248 0231 / 0433
sales@uniquecouplings.com | www.uniquecouplings.com

UNIQUE METAFLEX COUPLINGS

Series 80X Coupling

ENGINEERING DATA

Size	Mass	Inertia	Maximum Misalignment		Torsional Stiffness	Axial Spring Rate	Bolt Torque	
			Axial	Radial				
	KG	*KG.M^2*	*MM*	*RPM*	*MNM/Rad*	*MM*	*# NM*	*## MM*
65	1.5	0.001	1	0.6	0.017	25	6	6
80	2.1	0.002	1.2	0.6	0.031	30	10	6
100	3.0	0.003	2	0.6	0.044	50	24	10
125	4.7	0.007	2	0.8	0.080	60	24	24
150	4.8	0.006	1.3	0.8	0.130	150	24	24
162	6.6	0.011	1.3	1.2	0.210	100	24	24
180	9.2	0.020	1.5	1.2	0.270	130	48	48
200	11.0	0.030	1.8	1.2	0.370	165	48	48
220	13.5	0.043	2.0	1.2	0.470	130	48	48
225	14.5	0.044	1.4	1.2	0.600	275	48	48
250	20.0	0.082	2.2	1.2	0.800	195	48	48
262	20.0	0.082	1.5	1.2	1.100	350	48	48
300	34.0	0.190	3.0	1.2	1.400	370	200	80
312	30.0	0.170	1.9	1.2	1.500	415	80	80
350	42.0	0.300	2.0	1.2	2.800	500	200	200
375	55.0	0.470	2.3	1.5	3.700	540	200	200
425	75.0	0.770	2.5	1.5	5.800	725	400	400
450	97	1.15	2.8	1.7	6.60	755	400	400
500	122	1.95	3.0	1.9	11.00	920	400	400
550	155	3	3.2	2.1	16.90	920	540	540
600	205	4.9	3.7	2.1	19.00	900	700	700
700	314	9.8	4.1	2.4	39	1230	1400	1400
750	395	14.2	4.6	2.4	ON REQ	1480	1800	1400
800	580	26	5.0	2.6	ON REQ	ON REQ	2400	1400

These couplings have captured centre member this feature prevents spacer sub assembly from flying off even in unlikely event of disc as well as bolt failure. 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. Bolt tightening torques - # for disc pack bolts, ## for hub bolts.

Head Office: Mercantile Buildings, 10/1D, Lal Bazar Street,
3rd Floor, Kolkata – 700001, INDIA.
Phone : +91 33 22200366 / 2248 0231 / 0433
sales@uniquecouplings.com | www.uniquecouplings.com