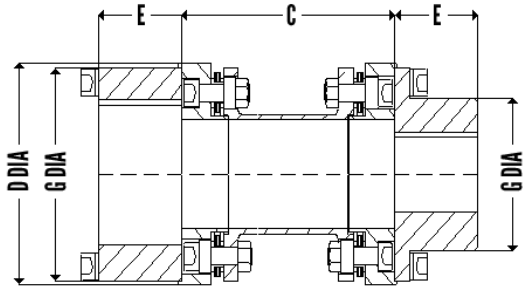
UNIQUE METAFLEX COUPLINGS

Series 80X-SPL Coupling

Series 80 XSPL 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 D1 *MM*	Max Bore D2 *MM*	D Dia *MM*	G Dia *MM*	F Dia *MM*	E, Hub Length *MM*	STD C *MM*
65	0.45	32	64	25000	28	42	66	42	63	28	100
80	0.90	64	128	25000	38	48	75	54	72	30	100
100	1.80	128	256	25000	42	55	87	60	83	32	100
125	2.60	185	370	20000	48	65	102	70	98	41	100
150	4.00	285	570	20000	48	70	105	69	102	45	100
162	7.00	500	1000	18000	55	75	115	80	111	48	140
180	9.00	640	1280	18000	65	90	130	90	125	55	140
200	12.00	855	1710	16000	70	95	143	100	138	54	140
220	15.00	1070	2140	16000	80	102	152	112	148	62	140
225	18.00	1282	2564	14600	75	100	150	110	145	67	140
250	25.00	1780	3560	12300	90	115	173	130	168	76	140
262	33.00	2350	4700	12300	90	115	173	130	168	76	140
300	56.00	3990	7980	11000	110	140	203	157	198	86	180
312	56.00	3990	7980	11000	110	140	203	157	198	86	180
350	70.00	4990	9980	10500	115	155	227	162	221	95	180
375	100.00	7125	14250	10000	130	170	252	187	246	102	200
425	140.00	9975	19950	8000	130	185	273	191	273	108	200
450	170.00	12110	24220	7000	145	200	293	211	293	114	250
500	270.00	19230	38460	6000	175	230	333	251	333	127	250

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 80XSPL 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	1.6	0.001	1.0	0.6	0.017	25	6	6
80	2.3	0.002	1.2	0.6	0.031	30	10	6
100	3.2	0.003	2.0	0.6	0.044	50	24	10
125	5.0	0.008	2.0	0.8	0.080	60	24	24
150	5.3	0.008	1.3	0.8	0.130	150	24	24
162	7.2	0.013	1.3	1.2	0.210	100	24	24
180	9.7	0.025	1.5	1.2	0.270	130	48	48
200	12.2	0.037	1.8	1.2	0.370	165	48	48
220	15.1	0.052	2.0	1.2	0.470	130	48	48
225	15.7	0.051	1.4	1.2	0.600	275	48	48
250	21.5	0.099	2.2	1.2	0.800	195	48	48
262	21.5	0.099	1.5	1.2	1.100	350	48	48
300	36.0	0.222	3.0	1.2	1.400	370	200	80
312	32.2	0.203	1.9	1.2	1.500	415	80	80
350	46.0	0.370	2.0	1.2	2.800	500	200	200
375	61.0	0.580	2.3	1.5	3.700	540	200	200
425	85.0	0.990	2.5	1.5	5.800	725	400	400
450	106.0	1.420	2.8	1.7	6.600	755	400	400
500	137.0	2.470	3.0	1.9	11.000	920	400	400

These Couplings have captured Centre Member . This feature prevents spacer subassembly from flying off even in unlikely event of Disc as well as bolt failure. 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 .

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