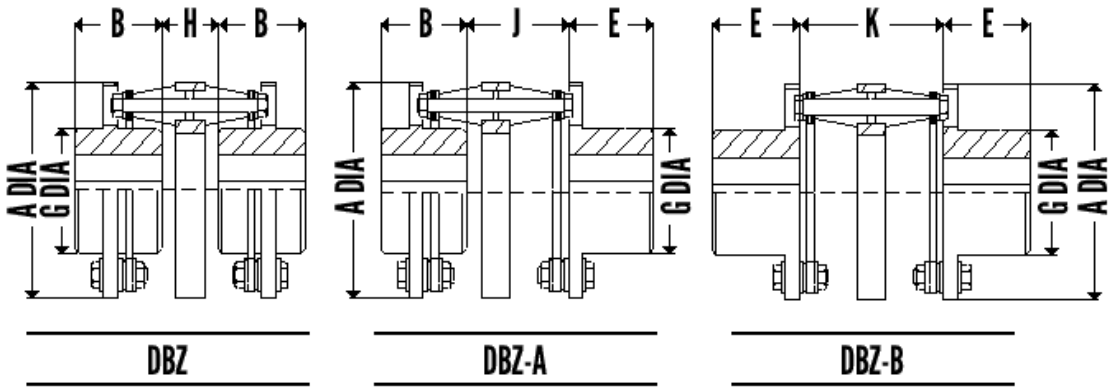
UNIQUE METAFLEX COUPLINGS

DBZ, A & B Coupling

Metaflex Couplings Type DBZ-DBZ-A and DBZ-B are designed for light and medium duty service at slow as well as high speeds. Their main use is for electric motor /turbine and gearbox driven equipments which are relatively free from shock loads or reversing torques. These couplings accommodate misalignment in all directions as well as end float. Type DBZ has a very compact construction with small gap between shaft ends. Type DBZ-A has one hub extended to accommodate a lock nut on one shaft or higher DBSE. Type DBZ-B has both hubs extended for lock nuts on both shafts or for greater DBSE.

GENERAL ASSEMBLY DRAWING



DIMENSIONS AND STANDARD SIZES

Size	Rating HP/100 RPM	Max Bore MM	Max Speed RPM	A Dia MM	B MM	E MM	G MM	H MM	J MM	K MM
50	0.25	18	9000	51	22	22	25	8	13	25
62	0.42	20	8200	62	28	28	30	10	44	30
75	0.6	25	7800	68	29	29	37	10	27	45
101	1.2	29	7100	83	35	35	43	18	35	52
126	2.4	35	6500	98	38	41	52	24	43	62
163	3.5	50	6000	117	43	48	70	24	43	62
201	5.3	55	5500	138	49	54	83	24	49	75
226	11.0	65	5200	156	60	67	96	30	64	97
263	15.0	75	4800	181	70	76	113	33	71	110
301	22.3	90	4500	208	79	87	129	38	81	124
351	44.9	100	4100	241	94	103	148	45	97	149
401	57	112	3900	279	106	118	168	49	110	170
451	75	125	3600	321	121	133	187	54	119	184

Multiply MR^2 Inertia figures by 4 to obtain GD^2 valuues. Weight & Inertia are at maximum bore. Permissible Angular misalignment is 1.0 degree at 1500 rpm and 0.5 degree at 3000 rpm per disc pack. Standard construction has hubs class 2 IS 2004 & Disc Packs Stainless Steel. Alternative materials can be furnished on request.For plated bolts reduce tightening torque by 20 %. Couplings can be supplied with different dimensions H, J, K (DBSE) on request.

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ENGINEERING DATA

Size	Weight	Inertia MR^2	Torsional Stiffness	End Float +-	Max Parallel Misalignment	Bolt Tightening Torque
	KG	*KG.M^2*	*MNM/Rad*	*MM*	*MM*	*# NM*
50	0.3	0.0001	0.003	0.60	0.17	2.7
62	0.7	0.0002	0.005	0.70	0.20	4
75	0.9	0.0005	0.007	0.80	0.20	4
101	1.5	0.0014	0.016	0.96	0.23	11
126	2.5	0.0032	0.075	1.16	0.27	18
163	3.9	0.0067	0.100	1.45	0.27	18
201	6.8	0.0170	0.170	1.70	0.33	34
226	10.0	0.0310	0.320	1.95	0.40	58
263	15.5	0.0674	0.500	2.25	0.47	85
301	23.5	0.1210	0.800	2.60	0.56	130
351	38.5	0.3020	1.500	3.00	0.66	240
401	59.0	0.5520	2.000	3.50	0.76	270
451	82.0	1.0220	2.500	3.90	0.83	350

Multiply MR^2 Inertia figures by 4 to obtain GD^2 valuues. Weight & Inertia are at maximum bore. Permissible Angular misalignment is 1.0 degree at 1500 rpm and 0.5 degree at 3000 rpm per disc pack. Standard construction has hubs class 2 IS 2004 & Disc Packs Stainless Steel. Alternative materials can be furnished on request.For plated bolts reduce tightening torque by 20 %. Couplings can be supplied with different dimensions H, J, K (DBSE) on request.

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

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