Design features:

GDA couplings comprise of two externally toothed solid steel hubs coupled by means of a solid steel, internally toothed sleeve, sealed at each end by a single lip seal, retained by a circlip.

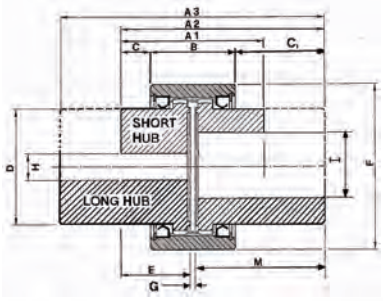
The sleeve is machined from R 80-90 kg/mm2 grade steel, whereas the hubs are machined from carbon steel with high frequency hardened teeth.

Both sleeve hubs are machined all over and can therefore be used for high speed applications, as the parts are in perfect dynamic balance.

The hub teeth are both crowned and barelled and accurately machined to ensure that clearances between the meshing teeth are kept to a minimum, without limiting the flexibility required to accommodate radial, angular and axial shaft misalignment.

GDA couplings require continuous lubrication by grease, which can be applied through the special grease plugs housed in the sleeve.

The rubber lip seals, retained by circlips, ensure a positive seal to the sleeve chamber.



Dimensions table

Type	A1	A2	A3	B	C	D	E	F	G	H	l min	l max	M	Weight kg
GDA 70	85	104.0	123	48	18.5	42	41.0	70	3	–	11	28	60	1.500
GDA 85	100	131.5	163	62	19.0	55	48.5	85	3	–	16	38	80	3.000
GDA 100	115	139.0	163	64	25.5	64	56.0	100	3	–	20	45	80	5.000
GDA 120	125	164.0	203	72	26.5	80	61.0	120	3	22	24	55	100	8.000
GDA 140	140	191.5	243	80	30.0	95	68.5	140	3	22	24	60	120	11.00
GDA 175	153	218.0	283	94	29.5	125	75.0	175	3	28	30	85	140	20.00
GDA 191	170	256.5	343	98	38.0	145	83.5	191	3	38	40	100	170	30.00
GDA 243	217	320.0	423	120	48.5	180	107.0	243	3	48	50	125	210	59.00
GDA 296	273	388.0	503	150	61.5	230	135.0	296	3	65	70	165	250	105.00
GDA 354	323	463.0	603	170	76.5	280	160.0	354	3	65	70	200	300	140.00

The GDA couplings are supplied either without bore or bored only as specified in the above table.

Performance table

Type	Torque Nm	P n P = kW n = rpm	Permissable kW power rating (rpm) 100	250	500	750	1000	1500	3000	rpm max.	PD2 kgm2	Max misalignment a°	Radial mm
GDA 70	210	0.021	2.10	5.25	10.5	15.75	21.0	31.5	63.0	6000	0.003	± 1°	±0.1
GDA 85	320	0.033	3.30	8.25	16.5	24.75	33.0	49.5	99.0	5500	0.008	± 1°	±0.1
GDA 100	800	0.082	8.20	20.50	41.0	61.50	82.0	123.0	246.0	5000	0.017	± 1°	±0.1
GDA 120	1800	0.184	18.40	46.00	92.0	138.00	184.0	276.0	552.0	4500	0.037	± 1°	±0.2
GDA 140	2870	0.294	29.40	73.50	147.0	220.50	294.0	441.0	882.0	4000	0.076	± 1°	±0.2
GDA 175	5100	0.515	51.50	128.75	257.5	386.25	515.0	772.5	1545.0	3000	0.213	± 1°	±0.2
GDA 191	8600	0.883	88.30	220.75	441.5	662.25	883.0	1324.5	2649.0	2800	0.305	± 1°	±0.2
GDA 243	18500	1.898	189.80	474.50	949.0	1423.50	1898.0	2847.0	–	2500	1.012	± 1°	±0.2
GDA 296	36000	3.702	370.20	925.50	1851.0	2776.50	3702.0	5553.0	–	2000	2.941	± 1°	±0.2
GDA 354	55000	5.652	565.20	1413.00	2826.0	4239.00	5652.0	8478.0	–	1500	7.181	± 1°	±0.2

Example of order reference:

GDA . . . S PB = short hub pilot bore
GDA . . . L PB = long hub pilot bore
GDA . . . SLEEVE = sleeve
1 complete coupling = 1 sleeve + 2 hubs

Both standard length and extended hubs are available in all coupling sizes, thus offering three alternative coupling combinations: