



GR COUPLINGS

GR couplings are the three piece assembly of 2 no. Aluminium Alloy Cast Iron or Steel hubs and one Special Grade Polyurethane Spider. These three pieces are co-axially assembled to complete the GR coupling. After assembly these couplings becomes sufficient flexible, positive motion and power transmitting fail safe coupling elements. Due to polyurethane spider, both the metallic hubs are separated from each other to avoid there physical contact. This helps to avoid the electrical and frequency isolation of both the connected driver and driven elements.

Applications:

Pumps, Cooling Towers, Conveyers, Rolling Mills, Hyd. Power Packs
Crane, Hoist, Gear Box & Motors, Textile Machine, Special Purpose Machine And many more

Benefits:

Flexible, No maintenance, No Lubrication, Failsafe, Uniform & Positive motion and power transmission, Electrical and frequency isolation, Available in Unbored, pilot bore and finish bore and key-ways.

B.V. Transmission Industries

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HUB DETAILS:

GR hubs are available in Aluminium, Cast Iron and Steel Material.
GR sizes from 19 to 28 are made from Aluminium Alloy & Steel material.
GR sizes from 38 to 90 are made from Cast Iron & Steel Material.

GR hubs are manufactured with high precision machining.
The jaws are machined with concave shape and entry chamfer for easy assembly.
The concave shape in jaws of hub and the convex shape on the polyurethane spider allows for better angular, parallel and axial misalignment.

These hubs are available in un-bored, pilot bored, finish bore & key-ways, and with different styles of clamping arrangements as per customer requirements.



SPIDER DETAILS:

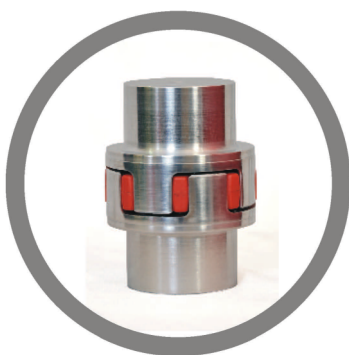
GR spiders are manufactured from high grade polyurethane.
GR are available in three different hardness as 64 Shore A, 92 Shore A, and 98 Shore A. This different hardness's are made available to suit different applications.
The details are as below.



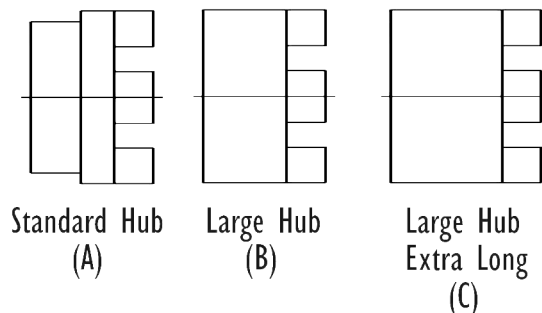
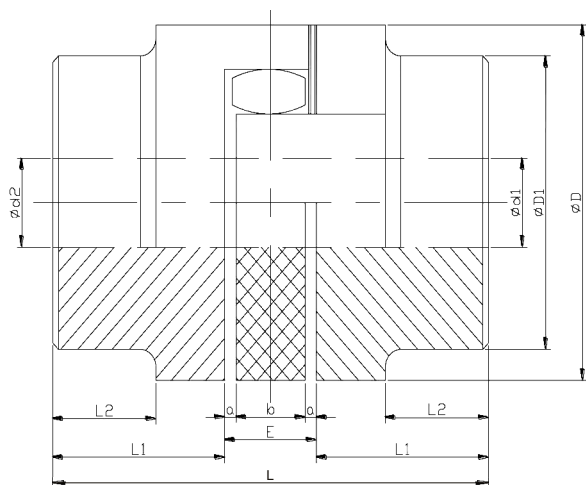
Spider Type	Colour	Material	Temperature Range ° C		Available sizes	Application
			Normal working	Maximum		
64 Shore A	Green	Polyurethane	from -50 to + 80	from -60 to + 120	GR 19 to 90	More Vibration
92 Shore A	Yellow	Polyurethane	from -40 to + 90	from -50 to + 120	GR 19 to 90	Medium torque,
98 Shore A	Red	Polyurethane	from -30 to + 90	from -40 to + 120	GR 19 to 90	More torque,

Applications:

- Pumps
- Cooling Towers
- Conveyers
- Rolling Mills
- Hyd. Power Packs
- Cranes, Hoist
- Gear Box & Motors
- Textile Machines
- Special Purpose Machines
- And many more.



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Dimentional details

Size PUFlex GR	Bore Sizes mm			Overall Dimentions										
	Minimum		Maximum	Outer	Hub	Spider	Total Length	Total Length	Hub	Hub	Hub	Space Bet*	Spider	Isolation
	Std. Hub	Large Hub		Dia.	Dia.	I.D.	Std. / Large Hub	Extra Long Hub	Length	Length	Length	Hubs	Width	Gap
	d1	d2	d2	D	D1	d3	L	L	Std. L1	Extra Long L1	L2	E	b	a
GR 19	6	19	24	41	32	18	66	90	25	37	20	16	12	2.0
GR 24	9	24	28	56	40	27	78	118	30	50	24	18	14	2.0
GR 28	10	28	38	66	48	30	90	140	35	60	28	20	15	2.5
GR 38	12	38	48	80	66	38	114	164	45	70	37	24	18	3.0
GR 42	14	42	55	95	75	46	126	176	50	75	40	26	20	3.0
GR 48	15	48	62	105	85	51	140	188	56	80	45	28	21	3.5
GR 55	20	55	74	120	98	60	160	210	65	90	52	30	22	4.0
GR 65	22	65	80	135	115	68	185	235	75	100	61	35	26	4.5
GR 75	30	75	95	160	135	80	210	260	85	110	69	40	30	5.0
GR 90	40	90	110	200	160	100	245	295	100	125	81	45	34	5.5

Technical Data

Size PUFlex GR	Rated Torque Nm			Maximum RPM	Max. Misalignment			Dynamic Torsional Stiffness			Weight Kg	Moment of Inertia Kgm ²
	98 Sh-A	92 Sh-A	64 Sh-D		Axial mm	Radial mm	Angular Deg	10 ³ Nm/rad				
								98 Sh-A	92 Sh-A	64 Sh-D		
GR 19	17	10	21	16700	1.2	0.2	1.2	2.92	1.28	5.35	0.51	0.000121
GR 24	60	35	75	12100	1.4	0.22	0.9	9.93	4.86	15.11	1.10	0.000466
GR 28	160	95	200	10100	1.5	0.25	0.9	26.77	10.90	27.52	1.80	0.00107
GR 38	325	190	405	8300	1.8	0.28	1.0	48.57	21.05	70.15	2.50	0.00171
GR 42	450	265	560	7000	2.0	0.32	1.0	54.50	23.74	79.86	3.90	0.00476
GR 48	525	310	655	6350	2.1	0.36	1.1	65.29	36.70	95.51	5.30	0.00805
GR 55	685	410	825	5500	2.2	0.38	1.1	94.97	50.72	107.92	7.90	0.01564
GR 65	940	625	1175	4950	2.6	0.42	1.2	129.51	97.13	151.09	11.90	0.03071
GR 75	1920	1280	2400	4150	3.0	0.48	1.2	197.50	113.32	248.22	18.60	0.06706
GR 90	3600	2400	4500	3300	3.4	0.5	1.2	312.20	190.09	674.52	33.60	0.22139

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