

FEATURES

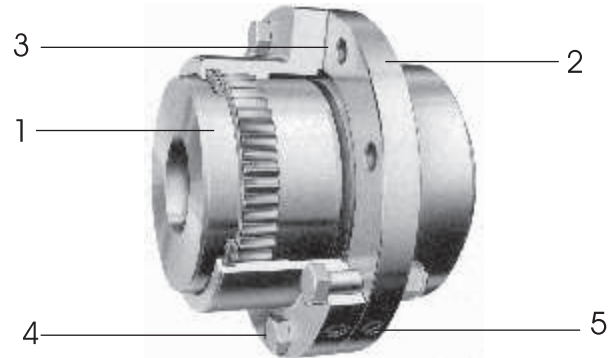
- **Less Backlash.**
- **Compact Assembly.**
- **Larger Bore Capacities.**
- **High Power To Weight Ratio.**
- **Accommodates Angular, Parallel & Axial Misalignments.**
- **Generally used upto 120°C. Can be used for higher temperatures by using proper grade of grease or oil.**

CONSTRUCTION

Full gear type LFG Lovejoy Flexible Gear Coupling consists of two identical toothed hubs, two identical flanged sleeves with internal teeth, a gasket, a set of bolts, nuts and lock washers, lube plugs and two oil / grease retaining seals over the hubs.

NOMENCLATURE

- 1 FORGED HUBS WITH EXTERNAL TEETH
- 2 FORGED SLEEVES WITH INTERNAL TEETH
- 3 FLANGE GASKET
- 4 CLOSE TOLERANCE CONNECTING BOLTS
- 5 LUBRICATION PLUG



SELECTION PROCEDURE

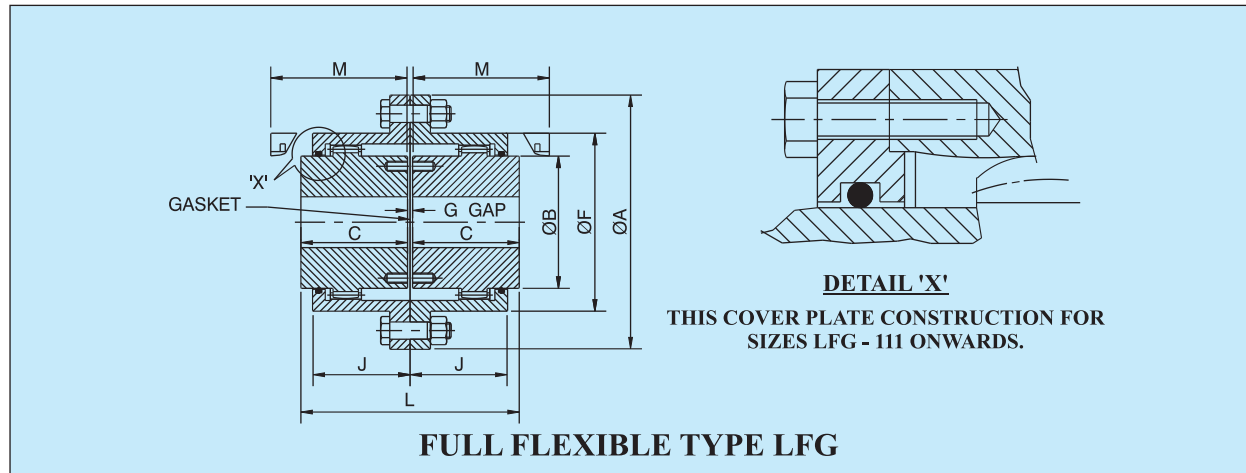
1. Select an appropriate SERVICE FACTOR from table given below.
2. Multiply the rated running power by the service factor. This gives DESIGN POWER at rated speed (rpm). Convert this to design power at 100 rpm. This is used as a basis for coupling selection.
3. Refer to the rating column and read until the power greater than or equal to the design power at 100 rpm is found. The size of the gear coupling is given in the corresponding first column. Check the max. bore capacities. If required bore size is greater than the max. bore of selected coupling size, then go for higher size to meet the required bore.

SERVICE FACTORS

LOAD	DRIVEN EQUIPMENT	TYPE OF DRIVE	
		Motor or Turbine	Reciprocating Engine
Uniform	Centrifugal Pumps, Conveyors - Even Loaded, Exciters, Fans and Blowers - Light Duty, Generators - Even Loaded & Mixers - Liquid.	1	1.5
Light	Centrifugal Pumps, Generators - Pulsating Load, Grinders, Hydraulic Pumps, Kilns, Line Shafting, Machine Tools, Oscillating Pumps, Textile Machinery & Woodworking Machinery.	1.5	2
Medium	Air compressors - Multi - Cylinder, Ball and Rod Mills, Cranes, Elevators, Hoists, Punch Presses, Reciprocating pumps, Shears, Ship Drives & Welding Generators.	2	2.5
Heavy	Air Compressors - Single Cylinder, Dredges, Drilling Rigs, Mine Machinery, Rolling Mill Drives & Rubber Mixers.	2.5	3
Extreme	Ore Crushers, Bar Stock Shears & Vibrating Conveyors.	3	4

FEATURES

Standard full flexible gear coupling TYPE LFG accommodates angular & parallel misalignments or a combination of both as well as axial misalignment (end float). Ideal for all horizontal, close coupled applications including fans, overhead cranes, conveyors, steel & paper mill equipments. One or both the hubs can be easily reversed for more than normal shafts separation applications.



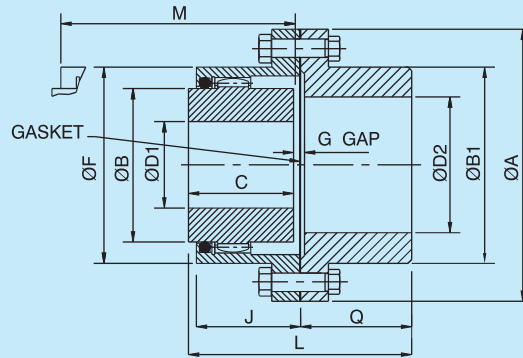
TECHNICAL DATA

Size	Rated Torque Nm	kW at 100 rpm	Max. rpm	Bore		ØA	C	ØB	ØF	M	G	J	L	Wt. kg	M.I.(WR ²) kg-m ²
				PB	Max.										
LFG-100	497	5.2	7600	10	35	120	45	50	75	55	3	39.5	93	4.2	0.0075
LFG-101	1002	10.5	6300	21	50	170	55	65	110	65	5	49	115	11	0.035
LFG-102	2492	26.1	5000	30	60	185	70	85	125	80	5	62	145	15	0.05
LFG-103	4486	47	4000	40	75	220	85	105	150	105	5	78	175	25	0.12
LFG-104	8495	89	3350	50	90	250	105	130	175	125	5	96	215	39	0.238
LFG-105	12982	136	2800	60	110	290	110	155	200	140	10	106	230	57	0.488
LFG-106	19950	209	2500	75	125	320	125	175	230	155	10	117	260	85	0.75
LFG-107	34936	366	2100	90	140	350	140	205	260	175	10	134	290	103	1.313
LFG-108	44864	470	1900	105	160	380	155	230	290	190	10	147	320	138	2.125
LFG-109	55841	585	1700	125	180	430	165	250	330	205	10	156	340	210	3.75
LFG-110	81709	856	1400	140	220	490	180	310	390	220	10	171	370	277	7.625
LFG-111	109391	1146	1250	160	260	545	200	350	445	240	10	192	410	550	14.5
LFG-112	146236	1532	1120	180	300	590	240	400	490	280	10	231	490	710	22.0
LFG-113	198927	2084	1000	200	330	680	260	440	555	310	15	242	535	980	34.5
LFG-114	284455	2980	900	220	370	730	280	500	610	330	15	266	575	1320	72.75
LFG-115	345545	3620	800	250	410	780	320	540	660	370	15	305	655	1700	88.25
LFG-116	596591	6250	710	300	455	900	350	625	755	423	20	335	720	2550	172.0
LFG-117	848591	8890	630	375	520	1000	400	720	855	490	20	386	820	3620	309.0
LFG-118	1123500	11770	560	450	610	1100	450	810	950	533	20	430	920	4860	491.0
LFG-119	1481550	15521	500	520	710	1250	485	910	1050	558	30	446	1000	6380	753.0

- All dimensions are in mm unless otherwise specified.
- Spacer couplings are also available on request.
- Weights & M.I. specified are with solid hubs.

FEATURES

- Standard half flexible gear coupling TYPE LHG cannot accommodate parallel misalignment.
- Used primarily with floating shaft assemblies. Extensively used for cross traverse and long travel line shaft drives.



HALF FLEXIBLE TYPE LHG

TECHNICAL DATA

Size	Rated Torque Nm	kW at 100 rpm	Max. rpm	Bore			ØA	C	ØB	ØF	M	G	J	L	Q	ØB1	Wt. kg	M.I. (WR ²) kg-m ²
				PB	Max.													
					ØD1	ØD2												
LHG-100	497	5.2	7600	10	35	45	120	45	50	75	55	3	39.5	93	46.5	65	4.2	0.0075
LHG-101	1002	10.5	6300	21	50	60	170	55	65	110	65	5	49	115	57.5	85	11	0.0375
LHG-102	2492	26.1	5000	30	60	75	185	70	85	125	80	5	62	145	72.5	110	15	0.06
LHG-103	4486	47	4000	40	75	90	220	85	105	150	105	5	78	175	87.5	130	20	0.1275
LHG-104	8495	89	3350	50	90	110	250	105	130	175	125	5	96	215	107.5	160	40	0.25
LHG-105	12982	136	2800	60	110	130	290	110	155	200	140	10	106	230	115	185	60	0.5
LHG-106	19950	209	2500	75	125	150	320	125	175	230	155	10	117	260	130	215	80	0.825
LHG-107	34936	366	2100	90	140	170	350	140	205	260	175	10	134	290	145	240	106	1.45
LHG-108	44864	470	1900	105	160	200	380	155	230	290	190	10	147	320	160	285	149	2.375
LHG-109	55841	585	1700	125	180	220	430	165	250	330	205	10	156	340	170	315	170	4.2
LHG-110	81709	856	1400	140	220	260	490	180	310	390	220	10	171	370	185	370	264	8.75

- All dimensions are in mm unless otherwise specified.
- Spacer couplings are also available on request.
- Weights & M.I. specified are with solid hubs.

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