

FX Series
CX Series
FXL Series
RA/RAHS Series

HercuFlex Gear Couplings



Safety Warning



When using Lovejoy products, you must follow these instructions and take the following precautions. Failure to do so may cause the power transmission product to break and parts to be thrown with sufficient force to cause severe injury or death.

Refer to this Lovejoy Catalog for proper selection, sizing, horsepower, torque range, and speed range of power transmission products, including elastomeric elements for couplings. Follow the installation instructions included with the product, and in the individual product catalogs for proper installation of power transmission products. Do not exceed catalog ratings.

During start up and operation of power transmission product, avoid sudden shock loads. Coupling assembly should operate quietly and smoothly. If coupling assembly vibrates or makes beating sound, shut down immediately, and recheck alignment. Shortly after initial operation and periodically thereafter, where applicable, inspect coupling assembly for: alignment, wear of elastomeric element, bolt torques, and flexing elements for signs of fatigue. Do not operate coupling assembly if alignment is improper, or where applicable, if elastomeric element is damaged, or worn to less than 75% of its original thickness.

Do not use any of these power transmission products for elevators, man lifts, or other devices that carry people. If the power transmission product fails, the lift device could fall resulting in severe injury or death.

For all power transmission products, you must install suitable guards in accordance with OSHA and American Society of Mechanical Engineers Standards. Do not start power transmission product before suitable guards are in place. Failure to properly guard these products may result in severe injury or death from personnel contacting moving parts or from parts being thrown from assembly in the event the power transmission product fails.

If you have any questions, contact the Lovejoy Engineering Department at 1-630-852-0500.

Disclaimer

This catalog is provided solely to give you analysis tools and data to assist you in your product selection. Product performance is affected by many factors beyond the control of Timken. Therefore, you must validate the suitability and feasibility of all product selections for your applications.

Lovejoy products are sold subject to Timken terms and conditions of sale, which include our limited warranty and remedy. Please consult with your Lovejoy engineer for more information and assistance.

Every reasonable effort has been made to ensure the accuracy of the information in this writing, but no liability is accepted for errors, omissions or for any other reason.

MARNING Failure to observe the following warnings could create a risk of death or serious injury.

Proper maintenance and handling practices are critical. Failure to follow selection recommendations and installation instructions and to maintain proper lubrication can result in equipment failure.



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Gear Coupling Selection Process



Factors Affecting Selection

The following is a list of the information necessary to assist in making a coupling selection. Not all of these items will come into play in all selection processes. These items include, but are not limited to:

- · Application details
- Type of motor and driven equipment
- Motor horsepower or KW
- Operating/coupling speed
- Shaft sizes and separation
- · Space and size constraints
- Environment (temperature, chemicals, etc)
- Balance requirements
- Special modifications

Steps In Selecting A Gear Coupling

Refer to the gear coupling specifications charts displayed with each type of coupling throughout this catalog. The pictures and charts provide visualization, specifications, and dimensional data for Lovejoy's HercuFlex gear coupling products. Typically start with an FX Type flanged gear coupling or a CX Type continuous sleeve gear coupling and proceed from there.

- **Step 1:** Review the gear coupling series and type as selected to ensure the selection meets application requirements.
- **Step 2:** Determine the nominal application torque in in–lbs by using the following formula:

Application Torque (in–lb) =
$$(HP \times 63025)$$

RPM

or
$$Nm = (KW \times 9550)$$

RPM

- **Step 3:** Review the Application Service Factor chart for the service factor number associated with the application where this coupling will be used. Multiply the application torque by the application service factor to determine the total torque required for the coupling selection.
- **Step 4:** Compare the required total torque value with the nominal torque capacity listed in the Gear Coupling Selection chart for the desired coupling type.
- **Step 5:** Check that the maximum bore size and the maximum RPM of the coupling type selected to ensure the coupling will meet these application requirements.
- **Step 6:** Note any special requirements including the BSE dimension for floating shaft and spacer types, shear pin torque, slide coupling details, mill motor tapered shaft data, and any other pertinent information.

Consult with Lovejoy for any unique applications.

Application Service Factors



Agitators	
Pure Liquids)
Liquids—Variable Density1.0	
Blowers	,
Centrifugal1.0	٦
Lobe	
Can Filling Machines	
Car Dumpers 2.0	
Car Pullers, Intermittent Duty1.5)
Compressors	_
Centrifugal1.0	
Reciprocating2.2	
Multi-Cylinder2.0)
Single Cylinder2.0)
Conveyors, Uniformly Loaded or Fed	
Assembly 1.2	2
Belt1.2	2
Screw1.2	2
Conveyors, Heavy Duty	
Not Uniformly	
Fed Assembly1.5	5
Belt1.5	
Oven1.5	
Reciprocating2.0	
Screw1.5	
Shaker	
Cranes and Hoists ¹	,
Main Hoists2.0	`
Reversing	
Skip Hoists2.0	
Trolley Drive2.0	
Bridge Drive	J
Crushers	
Ore3.0	
Stone)
Dredges	
Conveyors2.0	
Cutter Head Drives2.0	
Maneuvering Winches2.0)
Pumps2.0)
Fans	
Centrifugal1.0)
Cooling Towers Forced Draft1.5	5
Feeders	
Screw1.5	5
Generators	
Not Welding1.0)
Welding1.5	
Hammer Mills)
Laundry Washers	
Reversing1.5	5
Lumber Industry	_
Barkers—Drum Type2.0	٦
Edger Feed	ر ٦
Live Rolls	
Log Haul Incline	٦
Log Haul—Incline)
Log Haul—well Type)
Off Bearing Rolls2.0	
Planer Feed Chains1.75	
Planer Tilting Hoist1.75	
Planer Floor Chains1.75	
Slab Conveyor1.5	
Sorting Table1.5	
Trimmer Feed1.5	-

Ma	achine Tools	
	Bending Roll	
	Punch Press, Gear Driven	
	Tapping Machines	2.0
	Main Drives	1.5
	Auxiliary Drives	1.5
Μe	etal Mills	
	Draw Bench—Carriage	2.0
	Draw Bench—Main Drive	
	Forming Machines	
	Slitters	
	Table Conveyors	1
	Non-Reversing2	21
	Reversing	2.5
	Wire Drawing &	
	Flattening Machine	2.0
	Wire Winding Machine1	.75
Μe	etal Rolling Mills	
	Blooming Mills	2.5
	Coilers, hot mill	
	Coilers, cold mill	1.5
	Cold Mills	
	Cooling Beds1	
	Door Openers	2 (
	Draw Benches	
	Edger Drives1	
	Feed Rolls, Reversing Mills	. / . O E
	Furnace Pushers	ン つ ロ
	Turnace rusileis	Z
	Hot Mills	3.C
	Ingot Cars	2.5
	Kick-outs	
	Manipulators	
	Merchant Mills	3.0
	Piercers	3.0
	Pusher Rams	2.5
	Reel Drives1	.75
	Reel Drums	
	Reelers	3.0
	Rod and Bar Mills	
	Roughing Mill Delivery Table	
	Runout Tables).c
	Saws, hot & cold	2 7 E
	Screwdown Drives	
	Skelp Mills	
	Slitters	
	Slabing Mills1	./5
	Soaking Pit Cover Drives	3.0
	Straighteners	
	Tables, transfer & runout	
	Thrust Block	
	Traction Drive	3.0
	Tube Conveyor Rolls	2.5
	Unscramblers	
	Wire Drawing1	75
Mi	lls, Rotary Type	
	Ball2	25
	Dryers & Coolers	
	Hammer1	
	Kilns	
	Pebble & Rod	
	Pug1	
	Tumbling Barrels	2.0

Mix	kers	
	Concrete Mixers, Continuous	1.5
	Concrete Mixers, Intermittent	2.0
Oil	Industry	
	Oil Well Pumping	2.0
	Rotary Kilns	
Pat	oer Mills	
•	Agitators, Mixers	1.5
	Barker Auxiliaries, Hydraulic	2.0
	Barker Mechanical	
	Barking Drum Spur	
	Gear Only	20
	Beater & Pulper1	
	Bleacher	
	Calenders	
	Calenders, Super	
	Chippers	
	Coaters	
	Converting Machines,	1.0
	except Cutters, Platers	1 5
	Conveyors	1.5
	Couch Roll1	75
	Cutters, Platters	
	Cylinders	
	Disc Refiners	
	Dryers1	
	Felt Stretcher1	
	Felt Whipper	
	Jordans1	75
	Line Shaft	1.5
	Log Haul	
	Pulp Grinder1	
	Press Roll	
	Reel	
	Stock Chests	
	Suction Roll1	
	Washers & Thickeners	
	Winders	
Pri	nting Presses	
	mps	
	Centrifugal	1.0
	Reciprocating	
	Single Acting 3 or more	
	Cylinders	1.5
	Double Acting 2 or more	
	Cylinders	2.0
	Rotary, Gear Type, Lobe	
	Vane	1.5
Ru	bber Industry	
	Mixer	
	Rubber Calender	2.0
Scr	reens	
	Rotary, Stone or Gravel	1.5
	ering Gear	
	okers	1.0
Tex	ctile Industry	
	Dryers	
	Dyeing Machinery	
Wi	ndlass	2.0

- Notes: 1 indicates: If people are transported, Lovejoy does not recommend and will not warranty the use of the coupling.
 - Values contained in the table should be used as a general guide and are to be applied to smooth power sources such as electric motors and steam turbines.
 - For drives involving internal combustion engines add 1.0 to the values listed.

FX Series

Overview



FX Series

Flange Style Gear Coupling

By incorporating the latest advances in Finite Element Analysis technology, Lovejoy has revolutionized the Gear Coupling. Increased nominal torque, larger maximum bore size and longer service life are just a few of the many advantages of the HercuFlex coupling. Despite the advanced nature of these improvements, the HercuFlex Gear Coupling still utilizes the standard AGMA flange interface to ensure field interchangeability.



- Unequaled bore and torque capacity
- 1.5° of misalignment per gear mesh
- Improved fastener corrosion resistance
- Advanced seal design intensifying contamination resistance
- Interchangeable with standard AGMA flange interface



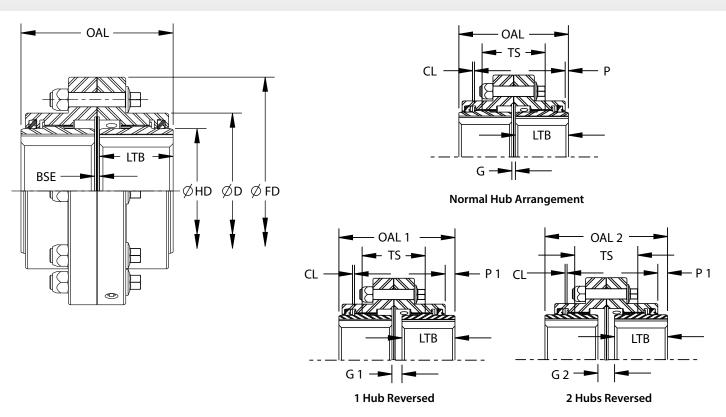




Size	Nominal Torque	Nominal Torque	Max Bore	Max Bore	Max Running Speed (RPM)				
JIZE	in-lb	N-m	in	mm	Unbal	Bal			
1	11,300	1,277	1.875	48	6,000	9,000			
1.5	26,100	2,949	2.438	62	5,500	8,250			
2	44,850	5,067	3.063	78	5,000	7,500			
2.5	79,700	9,005	3.625	92	4,400	6,600			
3	135,700	15,332	4.250	108	4,000	6,000			
3.5	203,550	22,998	5.000	127	3,500	5,250			
4	311,540	35,199	5.875	149	3,000	4,500			
4.5	427,460	48,296	6.750	171	2,700	4,050			
5	584,890	66,084	7.750	197	2,500	3,750			
5.5	771,300	87,145	8.625	220	2,200	3,300			
6	1,207,500	136,429	9.500	241	2,100	3,150			
7	1,638,750	185,154	11.250	287	2,000	3,000			

FX Series

Dimensional Data



FX Dimensions (Standard Hubs)

Size	OAL in	OAL mm	OAL 1 in	OAL 1 mm	OAL 2 in	OAL 2 mm	LTB in	LTB mm	BSE in	BSE mm	HD in	HD mm	D in	D mm
1	3.51	89.2	3.82	97.0	4.13	104.9	1.69	42.9	0.13	3.3	2.49	63.3	3.26	82.8
1.5	4.01	101.9	4.25	108.0	4.49	114.0	1.94	49.3	0.13	3.3	3.29	83.5	4.11	104.3
2	5.01	127.3	5.69	144.5	6.37	161.8	2.44	62.0	0.13	3.3	4.21	106.9	5.10	129.6
2.5	6.25	158.8	7.03	178.6	7.81	198.4	3.03	77.0	0.19	4.8	4.97	126.4	6.17	156.6
3	7.37	187.2	8.04	204.2	8.71	221.2	3.59	91.2	0.19	4.8	5.88	149.4	7.17	182.0
3.5	8.63	219.2	9.20	233.7	9.77	248.2	4.19	106.4	0.25	6.4	6.87	174.5	8.35	212.2
4	9.75	247.7	10.44	265.2	11.13	282.7	4.75	120.7	0.25	6.4	8.10	205.7	9.83	249.8
4.5	10.93	277.6	11.99	304.5	13.05	331.5	5.31	134.9	0.31	7.9	9.09	230.9	10.81	274.7
5	12.37	314.2	13.72	348.5	15.07	382.8	6.03	153.2	0.31	7.9	10.24	260.0	12.13	308.0
5.5	14.13	358.9	15.35	389.9	16.57	420.9	6.91	175.5	0.31	7.9	11.28	286.5	13.13	333.4
6	15.13	384.3	16.54	420.1	17.95	455.9	7.41	188.2	0.31	7.9	12.29	312.2	14.38	365.2
7	17.76	451.1	19.07	484.4	20.38	517.7	8.69	220.7	0.38	9.7	14.30	363.3	16.69	423.9

Size	FD in	FD mm	TS in	TS mm	CL in	CL mm	P in	P mm	P 1 in	P1 mm	G in	G mm	G 1 in	G 1 mm	G 2 in	G 2 mm
1	4.56	115.8	2.13	54.1	0.07	1.7	0.01	0.3	0.32	8.1	0.13	3.3	0.44	11.2	0.75	19.1
1.5	6.00	152.4	2.31	58.7	0.07	1.8	0.12	3.0	0.36	9.1	0.13	3.3	0.37	9.4	0.61	15.5
2	7.00	177.8	3.25	82.6	0.07	1.8	0.12	3.0	0.80	20.3	0.13	3.3	0.81	20.6	1.49	37.8
2.5	8.38	212.9	4.00	101.6	0.10	2.6	0.18	4.6	0.96	24.4	0.19	4.8	0.97	24.6	1.75	44.5
3	9.44	239.8	4.45	113.0	0.09	2.3	0.37	9.4	1.04	26.4	0.19	4.8	0.86	21.8	1.53	38.9
3.5	11.00	279.4	5.01	127.3	0.10	2.4	0.50	12.7	1.07	27.2	0.25	6.4	0.82	20.8	1.39	35.3
4	12.50	317.5	5.69	144.5	0.13	3.4	0.62	15.7	1.31	33.3	0.25	6.4	0.94	23.9	1.63	41.4
4.5	13.63	346.2	6.68	169.7	0.14	3.5	0.65	16.5	1.71	43.4	0.31	7.9	1.37	34.8	2.43	61.7
5	15.31	388.9	7.69	195.3	0.20	5.0	0.65	16.5	2.00	50.7	0.31	7.9	1.66	42.2	3.01	76.5
5.5	16.75	425.5	8.44	214.4	0.19	4.9	1.06	26.9	2.28	57.9	0.31	7.9	1.53	38.9	2.75	69.8
6	18.00	457.2	9.13	231.9	0.16	4.0	0.90	22.9	2.31	58.7	0.31	7.9	1.72	43.7	3.13	79.5
7	20.75	527.1	10.38	263.7	0.19	4.8	1.50	38.0	2.81	71.2	0.38	9.7	1.69	42.9	3.00	76.2



Overview



CX Series

Continuous Sleeve Style Gear Coupling

The HercuFlex coupling family has expanded to include the continuous sleeve gear coupling. Utilizing the same industry leading design expertise as seen in the FX style, Lovejoy has incorporated multiple innovations to yield previously unseen bore and torque capacity in the Continuous Sleeve gear coupling segment.



Key Features

- Unequaled bore and torque capacity
- 1.5° of misalignment per gear mesh
- Improved hardware corrosion resistance
- Advanced seal design intensifying contamination resistance



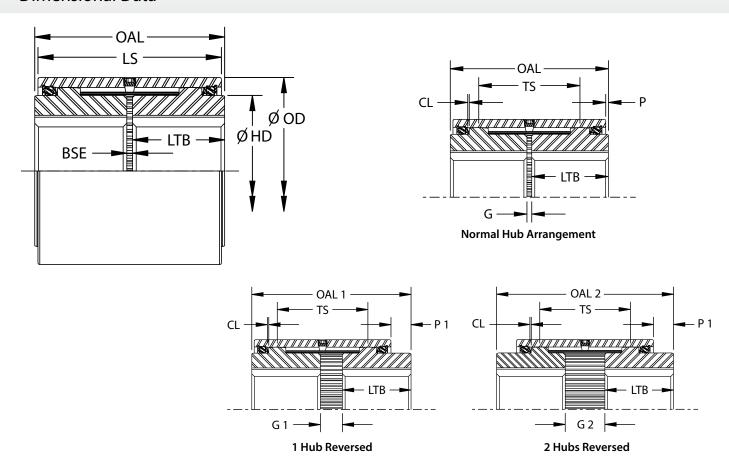


Size	Nominal Torque	Nominal Torque	Max Bore	Max Bore	Max Running Speed (RPM)			
SIZE	in-lb	N-m	in	mm	Unbal	Bal		
1	11,300	1,277	1.875	48	6,000	9,000		
1.5	26,100	2,949	2.438	62	5,500	8,250		
2	44,850	5,067	3.063	78	5,000	7,500		
2.5	79,700	9,005	3.625	92	4,400	6,600		
3	135,700	15,332	4.250	108	4,000	6,000		
3.5	203,550	22,998	5.000	127	3,500	5,250		
4	311,540	35,199	5.875	149	3,000	4,500		
4.5	427,460	48,296	6.750	171	2,700	4,050		
5	584,890	66,084	7.750	197	2,500	3,750		
5.5	771,300	87,145	8.625	220	2,200	3,300		
6	1,207,500	136,429	9.500	241	2,100	3,150		
7	1,638,750	185,154	11.250	287	2,000	3,000		

CX Series

Dimensional Data





CX Dimensions (Standard Hubs)

Size	OAL in	OAL mm	OAL 1 in	OAL 1 mm	OAL 2 in	OAL 2 mm	LTB in	LTB mm	BSE in	BSE mm	HD in	HD mm	OD in	OD mm	TS in	TS mm
1	3.63	92.2	3.94	100.1	4.25	108.0	1.69	42.9	0.13	3.3	2.49	63.3	3.26	82.8	2.13	54.1
1.5	4.01	101.9	4.25	108.0	4.49	114.0	1.94	49.3	0.13	3.3	3.29	83.5	4.11	104.3	2.31	58.7
2	5.01	127.3	5.69	144.5	6.37	161.8	2.44	62.0	0.13	3.3	4.21	106.9	5.10	129.6	3.25	82.6
2.5	6.25	158.8	7.03	178.6	7.81	198.4	3.03	77.0	0.19	4.8	4.97	126.4	6.17	156.6	4.00	101.6
3	7.37	187.2	8.04	204.2	8.71	221.2	3.59	91.2	0.19	4.8	5.88	149.4	7.17	182.0	4.45	113.0
3.5	8.63	219.2	9.20	233.7	9.77	248.2	4.19	106.4	0.25	6.4	6.87	174.5	8.35	212.2	5.01	127.3
4	9.75	247.7	10.44	265.2	11.13	282.7	4.75	120.7	0.25	6.4	8.10	205.7	9.83	249.8	5.69	144.5
4.5	10.93	277.6	11.99	304.5	13.05	331.5	5.31	134.9	0.31	7.9	9.09	230.9	10.81	274.7	6.68	169.7
5	12.37	314.2	13.72	348.5	15.07	382.8	6.03	153.2	0.31	7.9	10.24	260.0	12.13	308.0	7.69	195.3
5.5	14.13	358.9	15.35	389.9	16.57	420.9	6.91	175.5	0.31	7.9	11.28	286.5	13.13	333.4	8.44	214.4
6	15.13	384.3	16.54	420.1	17.95	455.9	7.41	188.2	0.31	7.9	12.29	312.2	14.38	365.2	9.13	231.9
7	17.76	451.1	19.07	484.4	20.38	517.7	8.69	220.7	0.38	9.7	14.30	363.3	16.69	423.9	10.38	263.7

Size	P in	P mm	P 1 in	P 1 mm	G in	G mm	G 1 in	G 1 mm	G 2 in	G 2 mm	LS in	LS mm	CL in	CL mm
1	-0.12	-3.0	0.19	4.8	0.13	3.3	0.44	11.2	0.75	19.1	3.63	92.2	0.06	1.5
1.5	0.05	1.3	0.29	7.4	0.13	3.3	0.37	9.4	0.61	15.5	3.90	98.9	0.06	1.5
2	0.00	0.0	0.68	17.3	0.13	3.3	0.81	20.6	1.49	37.8	5.00	126.9	0.06	1.5
2.5	0.10	2.6	0.88	22.4	0.19	4.8	0.97	24.6	1.75	44.5	6.04	153.3	0.06	1.5
3	0.37	9.3	1.04	26.3	0.19	4.8	0.86	21.8	1.53	38.9	6.63	168.3	0.06	1.5
3.5	0.66	16.7	1.23	31.2	0.25	6.4	0.82	20.8	1.39	35.3	7.31	185.6	0.09	2.3
4	0.77	19.5	1.46	37.0	0.25	6.4	0.94	23.9	1.63	41.4	8.21	208.5	0.09	2.3
4.5	0.68	17.3	1.74	44.2	0.31	7.9	1.37	34.8	2.43	61.7	9.56	242.7	0.09	2.3
5	0.60	15.3	1.95	49.6	0.31	7.9	1.66	42.2	3.01	76.5	11.16	283.3	0.13	3.2
5.5	0.98	25.0	2.20	55.9	0.31	7.9	1.53	38.9	2.75	69.8	12.16	308.7	0.13	3.2
6	0.82	20.9	2.23	56.7	0.31	7.9	1.72	43.7	3.13	79.5	13.48	342.3	0.13	3.2
7	1.46	37.0	2.77	70.3	0.38	9.7	1.69	42.9	3.00	76.2	14.84	376.8	0.13	3.2

FXL Series

Overview



FXL Series

Labyrinth Seal Flanged Gear Coupling

In extreme high contamination environments, Lovejoy has transformed the HercuFlex coupling to integrate an advanced seal design when performance degradation is not tolerable. This advanced gear coupling still encompasses the torque and misalignment capacities that make the HercuFlex coupling an industry leader.

Key Features

- Unequaled bore and torque capacity
- 1.5° of misalignment per gear mesh
- Improved fastener corrosion resistance
- Advanced seal design intensifying contamination resistance
- Interchangeable with standard AGMA flange interface





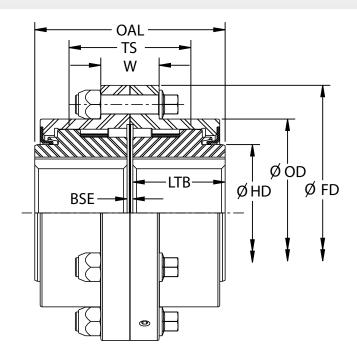


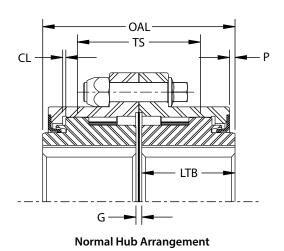
Size	Nominal Torque	Nominal Torque	Max Bore	Max Bore	Max Running Speed (RPM)			
Size	in-lb	N-m	in	mm	Unbal	Bal		
1	8,000	904	1.563	40	6,000	9,000		
1.5	15,000	1,695	2.125	55	5,500	8,250		
2	39,000	4,406	2.813	71	5,000	7,500		
2.5	69,300	7,830	3.370	85	4,400	6,600		
3	118,000	13,332	4.063	100	4,000	6,000		
3.5	177,000	19,998	4.750	120	3,500	5,250		
4	270,900	30,608	5.675	145	3,000	4,500		
4.5	370,700	41,883	6.375	167	2,700	4,050		
5	508,600	57,464	7.500	190	2,500	3,750		
5.5	670,700	75,779	8.375	212	2,200	3,300		
6	1,050,000	118,634	9.375	238	2,100	3,150		
7	1,425,000	161,003	11.000	280	2,000	3,000		



FXL Series

Dimensional Data





FXL Dimensions (Standard Hubs)

Size	OAL in	OAL mm	LTB in	LTB mm	BSE in	BSE mm	HD in	HD mm	OD in	OD mm	TS in	TS mm
1	3.63	92.2	1.69	42.9	0.13	3.3	2.06	52.3	3.26	82.8	2.13	54.1
1.5	4.01	101.9	1.94	49.3	0.13	3.3	2.85	72.4	4.11	104.3	2.31	58.7
2	5.01	127.3	2.44	62.0	0.13	3.3	3.75	95.2	5.10	129.6	3.25	82.6
2.5	6.25	158.8	3.03	77.0	0.19	4.8	4.49	114.0	6.17	156.6	4.00	101.6
3	7.37	187.2	3.59	91.2	0.19	4.8	5.38	136.6	7.17	182.0	4.45	113.0
3.5	8.63	219.2	4.19	106.4	0.25	6.4	6.34	161.1	8.35	212.2	5.01	127.3
4	9.75	247.7	4.75	120.7	0.25	6.4	7.41	188.3	9.83	249.8	5.69	144.5
4.5	10.93	277.6	5.31	134.9	0.31	7.9	8.38	212.8	10.81	274.7	6.68	169.7
5	12.37	314.2	6.03	153.2	0.31	7.9	9.51	241.5	12.13	308.0	7.69	195.3
5.5	14.13	358.9	6.91	175.5	0.31	7.9	10.52	267.3	13.13	333.4	8.44	214.4
6	15.13	384.3	7.41	188.2	0.31	7.9	11.55	293.5	14.38	365.2	9.13	231.9
7	17.76	451.1	8.69	220.7	0.38	9.7	13.54	343.8	16.69	423.9	10.38	263.7

Size	G in	G mm	FD in	FD mm	TS in	TS mm	CL in	CL mm	P in	P mm
1	0.13	3.3	4.56	115.8	2.13	54.1	0.07	1.7	0.01	0.3
1.5	0.13	3.3	6.00	152.4	2.31	58.7	0.07	1.8	0.12	3.0
2	0.13	3.3	7.00	177.8	3.25	82.6	0.07	1.8	0.12	3.0
2.5	0.19	4.8	8.38	212.9	4.00	101.6	0.10	2.6	0.18	4.6
3	0.19	4.8	9.44	239.8	4.45	113.0	0.09	2.3	0.37	9.4
3.5	0.25	6.4	11.00	279.4	5.01	127.3	0.10	2.4	0.50	12.7
4	0.25	6.4	12.50	317.5	5.69	144.5	0.13	3.4	0.62	15.7
4.5	0.31	7.9	13.63	346.2	6.68	169.7	0.14	3.5	0.65	16.5
5	0.31	7.9	15.31	388.9	7.69	195.3	0.20	5.0	0.65	16.5
5.5	0.31	7.9	16.75	425.5	8.44	214.4	0.19	4.9	1.06	26.9
6	0.31	7.9	18.00	457.2	9.13	231.9	0.16	4.0	0.90	22.9
7	0.38	9.7	20.75	527.1	10.38	263.7	0.19	4.8	1.50	38.0

Flange Interchangeability*

Exposed and Shrouded Bolts



FALK® 1000 Series FALK® GF Series Lovejoy® FX Series Lovejoy® FXL Series Lovejoy® F Series **Torque** Torque Rating Rating Rating Bore Rating Bore Rating Bore **Bore** Bore Bore Bore Bore Bore Bore in-lb in in-lb in in-lbf in in-lbf in mm in-lbf mm mm mm mm 1010G 11,300 1.875 48 8,000 1.563 40 1 7,600 1.625 42 10,080 1.875 48 1GF 7,600 1.625 41 15,000 26,100 2.125 18,900 1015G 20,790 18,900 2.438 62 1.5 55 1.5 2.125 56 2.375 60 1-1/2GF 2.125 54 44,850 2.813 31,500 1020G 31,500 3.063 78 2 39,000 2.750 73 37,800 2.875 73 2.750 70 2.5 79,700 3.625 92 2.5 69,300 3.375 85 2.5 56,700 3.250 85 1025G 66,150 3.625 92 2-1/2GF 56,700 3.250 83 3 107,100 135,700 4.250 108 3 118,000 4.063 100 94,500 4.000 107 1030G 4.125 105 3GF 101,000 4.000 102 3.5 203,550 5.000 127 3.5 177,000 4.750 120 3.5 151,200 4.625 125 1035G 163,800 4.875 124 3-1/2GF 151,300 4.500 114 4 311,540 5.875 149 4 270,900 5.688 145 4 220,500 5.375 145 1040G 270,900 5.750 146 4GF 236,000 5.375 137 171 4.5 370,700 6.375 162 302,400 1045G 371,700 6.750 171 4-1/2GF 324,000 165 4.5 427,460 6.750 4.5 6.000 165 6.500 187 178 5 584,890 7.750 197 5 508,600 7.500 190 5 434,700 6.500 180 1050G 500,900 7.375 5GF 441,000 7.000 5.5 771,300 8.625 220 5.5 670,700 8.375 212 573,300 7.500 200 1055G 655,200 8.250 210 5-1/2GF 580,000 7.750 197 1.207.500 9.500 241 1,050,000 9.375 238 749.700 8.250 225 1060G 800.100 9.125 232 6GF 759,000 8.750 222 6 287 9.500 1,638,750 11.250 1,425,000 11.000 1.008.000 255 1070G 1,197,000 10.000 254 FALK® 1000 Series FALK® GF Series Lovejoy° FX Series Lovejoy° FXL Series Lovejoy° F Series Torque Max Max Rating **Bore** Rating **Bore Bore** Rating Rating **Bore** Bore Rating Bore **Bore** in-lb Size in-lb in-lbf Size in-lbf Size in-lbf Size in mm in mm in mm in mm in mm 11,300 1.875 48 8,000 1.563 7,600 1.625 42 1010G 10,080 1.875 1GF 7,600 1.625 41 26,100 2.438 62 1.5 15,000 2.125 55 1.5 18,900 2.125 56 1015G 20,790 2.375 60 1-1/2GF 18,900 2.125 54 44,850 2.813 2.750 2 3.063 78 2 39,000 2 31,500 2.750 73 1020G 37,800 2.875 73 2GF 31,500 70 71 79,700 3.625 92 2.5 69,300 3.375 2.5 56,700 3.250 85 1025G 66,150 3.625 92 2-1/2GF 56,700 3.250 83 135,700 4.250 108 118,000 4.063 100 94,500 4.000 107 1030G 107,100 4.125 105 3GF 101,000 4.000 102 3.5 3.5 3.5 203,550 5.000 127 177.000 4.750 120 151,200 4.625 125 1035G 163.800 4.875 124 3-1/2GF 151.300 4.500 114 4 311,540 5.875 149 4 270,900 5.688 145 4 220,500 5.375 145 1040G 270,900 5.750 146 4GF 236,000 5.375 137

Note: ■ * indicates: Special fasteners may be required.

171

197

220

4.5

5

370,700

508,600

670,700

6.375

7.500

8.375

162

190

5

302,400

434,700

573,300

6.000

6.500

7.500

165

200

1045G

1050G

1055G

371,700

500,900

655,200

6.750

7.375

8.250

171

187

210

4-1/2GF

5GF

5-1/2GF

4.5

5

427,460

584,890

771,300

6.750

7.750

8.625

324,000

580,000

441,000 7.000

6.500

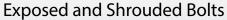
7.750

165

178

197

Flange Interchangeability* Exposed and Shrouded Bolts



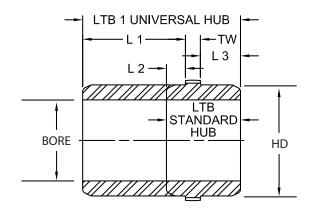


Kop-Flex [°] Kop-Flex [°] H Series Waldron [°] Series	Renold [®] Ajax [®] Series	
		Ameridrives [*] Series F
Torque Rating Bore Bore Size in-lbf in mm Size in-lbf in mm Size in-lbf in mm Size Rating Rat	Torque Max Max Rating Bore Bore Size in-lbf in mm	Torque Max Bore Size in-lbf Bore in mm
1 7,500 1.625 41 1 6,300 1.625 41	1 12,700 1.630 46	2011/4 7,600 1.630 41
1½ 17,000 1.625 41 1½ 17,000 2.250 57 1½ 15,100 2.188 56	1-1/2 23,800 2.130 57	201½ 17,000 2.250 57
2 31,500 2.125 54 2 31,500 2.875 73 2 31,500 2.750 70	2 40,600 2.750 78	202 31,500 2.750 70
2½ 56,700 2.750 70 2½ 56,700 3.500 89 2½ 56,700 3.250 83	2-1/2 65,700 3.250 90	202½ 53,600 3.500 89
3 101,000 3.125 79 3 101,000 4.000 102 3 94,500 4.000 102	3 108,000 4.000 110	203 94,500 4.000 102
3½ 148,000 3.750 95 3½ 148,000 4.625 117 3½ 145,000 4.750 121	3-½ 166,000 4.500 127	203½ 142,000 4.500 114
4 236,000 4.250 108 4 236,000 5.500 140 4 221,000 5.375 137	4 264,000 5.380 145	204 214,000 5.500 140
4½ 318,000 4.750 121 4½ 318,000 6.250 159 4½ 300,000 6.000 152	4-1/2 365,000 6.000 165	204½ 324,000 6.250 159
5 441,000 5.500 140 5 441,000 7.125 181 5 410,000 6.750 171	5 489,000 6.630 185	205 416,000 6.620 168
5½ 580,000 5.875 149 5½ 580,000 8.000 203 5½ 536,000 7.500 191	5-1/2 725,000 7.500 205	205½ 551,000 7.500 191
6 759,000 6.500 165 6 759,000 8.875 225 6 693,000 8.250 210	6 925,000 8.130 225	206 750,000 8.250 210
7 1,160,000 8.000 203 7 1,160,000 10.375 264 7 1,010,000 9.250 235	7 1,390,000 9.630 260	207 1,033,000 9.620 244
Kop-Flex° Kop-Flex° H Series Waldron° Series	Renold° Ajax° Series	Ameridrives [®] Series F
Torque Rating Bore Size in-lbf in mm	Torque Max Max Rating Bore Bore Size in-lbf in mm	Torque Max Rating Bore Max Bore Size in-lbf in mm
1 7,500 1.625 41 1 6,300 1.625 41	1 12,700 1.630 46	2011/4 7,600 1.630 41
1 ½ 17,000 1.625 41 1 ½ 17,000 2.250 57 1 ½ 15,100 2.188 56	1-1/2 23,800 2.130 57	201½ 17,000 2.250 57
2 31,500 2.125 54 2 31,500 2.875 73 2 31,500 2.750 70	2 40,600 2.750 78	202 31,500 2.750 70
2½ 56,700 2.750 70 2½ 56,700 3.500 89 2½ 56,700 3.250 83	2-½ 65,700 3.250 90	202½ 53,600 3.500 89
3 101,000 3.125 79 3 101,000 4.000 102 3 94,500 4.000 102	3 108,000 4.000 110	203 94,500 4.000 102
3½ 148,000 3.750 95 3½ 148,000 4.625 117 3½ 145,000 4.750 121	3-½ 166,000 4.500 127	203½ 142,000 4.500 114
4 236,000 4.250 108 4 236,000 5.500 140 4 221,000 5.375 137	4 264,000 5.380 145	204 214,000 5.500 140
4½ 318,000 4.750 121 4½ 318,000 6.250 159 4½ 300,000 6.000 152	4-1/2 365,000 6.000 165	204½ 324,000 6.250 159
5 441,000 5.500 140 5 441,000 7.125 181 5 410,000 6.750 171	5 489,000 6.630 185	205 416,000 6.620 168
5½ 580,000 5.875 149 5½ 580,000 8.000 203 5½ 536,000 7.500 191	5-½ 725,000 7.500 205	205½ 551,000 7.500 191

Additional Dimensional Data

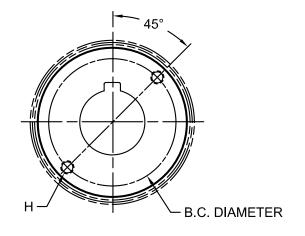


Additional Dimensional Data



Hub Dimensions

	HD	BORE	L1	L2	L3	TW	LTB	LTB 1
Size		RSB					STD	UNIV HUB
	in	in	in	in	in	in	in	in
1	2.49	Solid	2.75	0.44	0.75	0.50	1.69	4.00
1.5	3.29	Solid	3.13	0.57	0.81	0.56	1.94	4.50
2	4.21	Solid	3.63	0.57	1.25	0.62	2.44	5.50
2.5	4.97	1.47	4.22	0.75	1.53	0.75	3.03	6.50
3	5.88	1.47	4.43	1.02	1.69	0.88	3.59	7.00
3.5	6.87	1.84	4.62	1.31	1.88	1.00	4.19	7.50
4	8.10	2.47	4.97	1.47	2.16	1.12	4.75	8.25
4.5	9.09	3.00	5.19	1.50	2.56	1.25	5.31	9.00
5	10.24	3.00	5.06	1.59	2.94	1.50	6.03	9.50
5.5	11.28	4.00	5.56	1.97	3.19	1.75	6.91	10.50
6	12.29	4.00	5.65	1.81	3.22	2.38	7.41	11.25
7	14.30	5.00	7.00	2.50	3.81	2.38	8.69	13.19

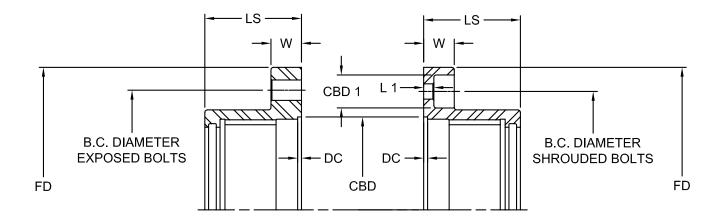


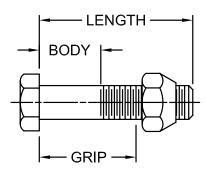
Flex Hub Puller Bolt Holes

	B.C. Diameter	Н		
Size	in	UNC	Depth	
1	None	None	None	
1.5	None	None	None	
2	3.38	5/16 - 18	0.50	
2.5	3.94	3/8 - 16	0.56	
3	4.94	1/2 - 13	0.75	
3.5	5.56	1/2 - 13	0.75	
4	6.44	5/8 - 11	0.94	
4.5	7.38	5/8 - 11	0.94	
5	8.00	3/4 - 10	1.13	
5.5	9.00	1 - 8	1.50	
6	9.75	1 - 8	1.50	
7	11.63	1 - 8	1.50	

Additional Dimensional Data







Sleeve and Bolt Dimensions

								EXPOSE	D BOLTS			SHROUDED BOLTS							
Size	LS in	W in	DC in	FD in	CBD in	B.C. Dia. in	Qty	THD Size	Length in	Min Body in	Max Grip in	CBD 1 in	L in	B.C. Dia. in	Qty	THD Size	Length in	Min Body in	Max Grip in
1	1.66	0.56	0.09	4.56	3.03	3.750	6	1/4-28	1.50	0.63	1.063	0.64	0.25	3.750	6	1/4-28	0.81	0.281	0.438
1.5	1.88	0.75	0.09	6.00	3.91	4.812	8	3/8-24	2.00	0.88	1.438	0.81	0.25	4.812	8	3/8-24	1.00	0.281	0.438
2	2.38	0.75	0.09	7.00	4.89	5.875	6	1/2-20	2.25	0.88	1.406	0.81	0.25	5.812	10	3/8-24	1.00	0.281	0.438
2.5	2.88	0.88	0.09	8.38	5.81	7.125	6	5/8-18	2.75	1.00	1.656	1.06	0.31	7.000	10	1/2-20	1.25	0.375	0.531
3	3.31	0.88	0.09	9.44	6.73	8.125	8	5/8-18	2.75	1.00	4.656	1.06	0.31	8.000	12	1/2-20	1.25	0.375	0.531
3.5	3.81	1.13	0.09	11.00	7.73	9.500	8	3/4-16	3.25	1.25	2.156	1.31	0.38	9.281	12	5/8-18	1.50	0.438	0.656
4	4.25	1.13	0.19	12.50	9.02	11.000	8	3/4-16	3.25	1.25	2.156	1.31	0.38	10.625	14	5/8-18	1.50	0.438	0.656
4.5	4.81	1.13	0.19	13.63	10.08	12.000	10	3/4-16	3.25	1.25	1.156	1.31	0.38	11.750	14	5/8-18	1.50	0.438	0.656
5	5.50	1.50	0.19	15.31	11.36	13.500	8	7/8-14	4.25	1.69	2.875	1.56	0.56	13.188	14	3/4-16	2.00	0.625	1.031
5.5	6.00	1.50	0.19	16.75	12.58	14.500	14	7/8-14	3.00	1.13	1.750	1.56	0.56	14.437	16	3/4-16	2.00	0.625	1.031
6	6.69	1.00	0.25	18.00	13.75	15.750	14	7/8-14	3.25	1.19	1.875								
7	7.38	1.13	0.31	20.75	15.86	18.250	16	1-14	3.50	1.31	2.125			E	xpose	d Bolts Or	ııy		

RA and RAHS Type Rigid Couplings

Overview & Performance Data



The RA and RAHS couplings are offered in two different styles. Type II coupling consists of two rigid hubs, adjusting nut and split ring and split ring for motor hub. Type IV coupling consists of two rigid hubs, adjusting nut, and split ring for motor hub and spacer.

Key Features

- Axial positioning of the pump impeller in vertical pump applications
- Clearance fit bores allows for easy installation and maintenance for pump and/or motor
- · Easily adjustable for vertical clearance
- · Removable spacer for easy maintenance
- · AISI 1045 Steel
- Stainless Steel coupling also available





RA and RAHS Type Performance Data

				Motor & P	Motor & Pump Hubs		ump Hubs
	HP/100	Nominal	Thrust	Min	Bore	Max Bore	
	RPM	Torque	Capacity				
Size		in-lb	lbs	in	mm	in	mm
1125	2.7	1,702	4,500	0.44	11	1.125	29
1625	8.0	5,042	11,000	0.63	16	1.625	42
2125	17.9	11,282	31,000	0.73	18	2.125	56
2625	33.8	21,302	31,000	0.88	22	2.625	70
2875	44.4	27,983	31,000	0.88	22	2.875	77
3125	57.0	35,924	41,000	1.19	30	3.125	84
3875	109.0	68,697	73,000	1.25	31	3.875	103
5000	310.0	195,378	160,000	2.38	60	5.000	135
6000	404.0	254,621	300,000	2.88	73	6.000	167
7250	712.0	448,738	300,000	4.00	101	7.250	194
8500	1148.0	723,527	350,000	4.00	101	8.500	225
10500	2164.0	1,363,861	400,000	5.00	127	10.500	276

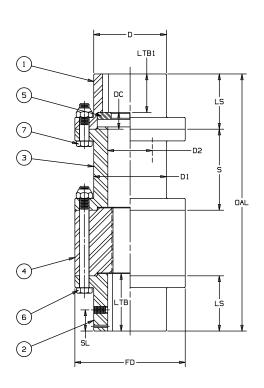
Ordering Information

- Application: Driver and Driven.
- Power: Motor horsepower or torque requirement.
- Speed: Motor Speed or Driven RPM.
- Distance between shaft ends (BSE).
- Shaft sizes.
- · Adjusting nut threads.
- · Amount of trust on either or both shafts.
- · Submit drawing if available.

RA and RAHS Type Rigid Couplings

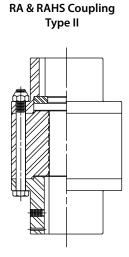
Dimensional Data





Type IV

RA & RAHS Spacer Coupling



RA and RAHS Type Dimensional Data

	STD	OAL	FD	D	LTB	LTB1	LS	DC	SL	D1	D2	S				Bolt Circle
	Type II	Type IV										Std	Min		BOLTS	6 & 7 Diameter
Size	in	in	in	in	in	in	in	in	in	in	in	in	in	Qty	Size	in
1125	5.25	9.56	3.00	1.75	2.13	1.11	2.00	0.89	0.88	1.75	1.25	4.44	1.63	4	1/4 - 28	2.375
1625	6.00	10.31	4.00	2.50	2.38	1.36	2.25	0.89	0.88	2.50	1.75	4.44	1.75	6	5/16 - 24	3.250
2125	7.13	11.44	5.13	3.13	2.81	1.80	2.69	0.89	1.00	3.13	2.25	4.44	2.63	6	1/2 - 20	4.250
2625	9.38	13.69	5.88	3.88	3.06	2.05	2.94	0.89	1.13	3.88	2.75	4.44	2.63	6	1/2 - 20	4.938
2875	10.38	14.69	6.38	4.38	3.56	2.55	3.44	0.89	1.38	4.38	3.00	4.44	2.88	6	1/2 - 20	5.438
3125	11.50	15.81	6.75	4.63	4.13	3.11	4.00	0.89	1.63	4.63	3.25	4.44	2.88	8	1/2 - 20	5.813
3875	12.75	17.06	8.94	5.88	4.50	3.48	4.38	0.89	1.75	5.88	4.00	4.44	3.13	6	3/4 - 16	7.625
5000	15.00	NO STD	11.75	7.50	6.25	4.63	6.00	1.38	2.44	7.50	5.13	NO STD	4.50	8	1 - 14	10.000
6000	20.88	NO STD	13.25	9.00	9.50	7.63	9.25	1.63	4.00	9.00	6.13	NO STD	4.75	10	1 - 14	11.500
7250	25.19	NO STD	15.00	10.75	11.06	8.81	10.75	1.94	4.75	10.75	7.38	NO STD	7.06	14	1 - 14	13.250
7500	33.56	NO STD	17.25	12.50	15.31	13.06	15.00	1.94	6.63	12.50	8.63	NO STD	7.31	12	1-1/8 - 12	15.000
10500	40.94	NO STD	20.50	15.00	18.69	16.44	18.38	1.94	8.13	15.00	10.63	NO STD	8.31	12	1-1/8 - 12	18.000

Ordering Information

- Clearance fit bores with set screw are standard.
- RA couplings meet standard tolerances.
- Inch bore and keyway tolerances conform to AINSI / AGMA 9002-B04.
- For metric bore and keyway tolerances, consult Lovejoy Application Engineering.
- RAHS couplings conform to API 610.

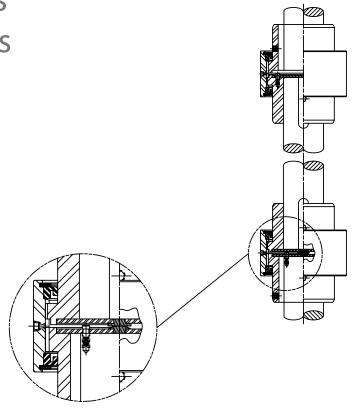
Continuous Sleeve Gear CouplingsOverview

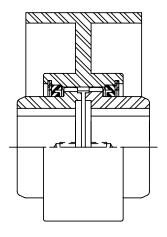


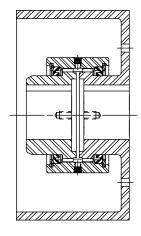


Vertical Floating Shaft Type

The upper coupling is a Standard Vertical Type coupling. The lower coupling has a hardened crowned button inserted in the plate of the lower hub and a hardened flat button inserted in the plate of the upper hub. The entire floating assembly rests on these two buttons which carry the weight of the floating assembly thus maintaining the spacing between the two lower hubs allowing for flexibility. The hubs on the floating shaft are flexible and the hubs of the driver and driven shafts are rigid.

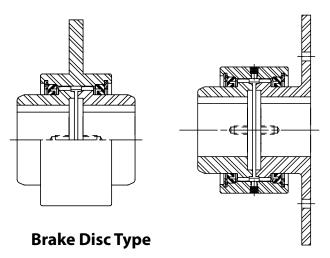






Brakedrum Type

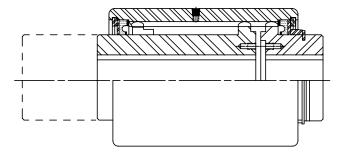
Two different designs of brakedrum couplings are illustrated. One shows the brakedrum as an integral part of the sleeve and the two hubs are standard. The other design utilizes one standard hub and a standard sleeve with the brakedrum as part of a special hub.



Two different designs of brake disc couplings are illustrated. One shows the brake disc as an integral part of the sleeve and the two hubs are standard. The other design utilizes one standard hub and a standard sleeve with the brakedrum as part of a special hub.

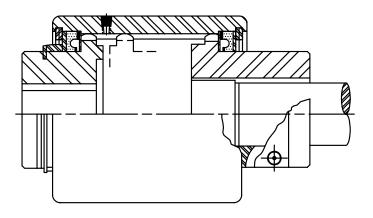
Continuous Sleeve Gear CouplingsOverview





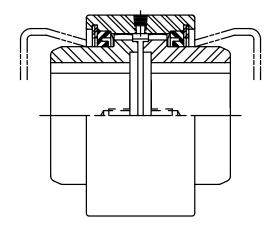
Sliding Hub Type

The sleeve is longer than standard and is designed to allow for a predetermined amount of axial travel on one shaft. The short hub is secured to the sleeve by means of a spacer washer and snap ring which prevents travel. This type is also manufactured to allow for travel of both hubs in the sleeve. This coupling is also available with a rigid type short hub.



Jordan Type

Used on Jordan machines and refiners, this design is similar to the Sliding Hub Type coupling except the long hub is split and secured to the shaft with a bolt. This permits for quick axial adjustment of the Jordan shafts in the hub.



Continuous Lubricated Type

This coupling is adapted from our Standard Type coupling, except the standard seals have been replaced with the special spacer washers. These washers have a snug fit in the sleeve with sufficient clearance on the hub OD to allow for injection of a continuous stream of lubricant.

Flanged Sleeve Gear Couplings

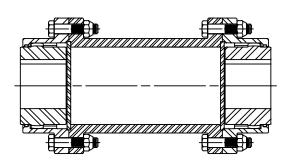
Overview

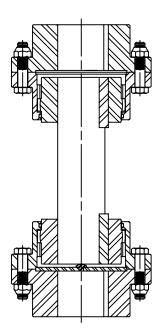


HercuFlex Flanged Sleeve Gear Couplings

Limited End Float Spacer Type

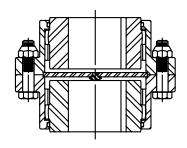
The addition of plates restricts axial travel to the drive or driven shaft. The spacer makes it possible to remove the hubs from either shaft without disturbing the connected units.





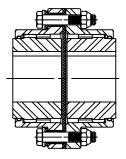
Vertical Floating Shaft Type

The lower coupling has a hardened crowned button inserted in the plate of the lower hub. The entire floating assembly rest on the button. Optional construction of the upper coupling would be a rigid hub on the floating shaft with a flex half on the top.



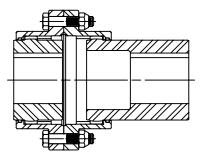
Vertical Type

This coupling has the same horsepower, RPM and misalignment capabilities as the standard couplings of corresponding sizes. A plate with a hardened crowned button rests on the lower shaft which supports the weight of the sleeve.



Insulated Type

Use of a non-metallic material between flanges and around the bolts prevents any stray currents from one shaft to the other.



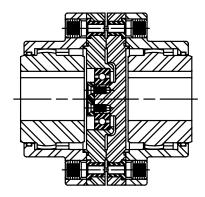
Jordan Type

Used on Jordan machines and refiners, this design is similar to the slide type coupling except the long hub is split and secured to the shaft with a bolt clamp. This permits quick axial adjustment of the Jordan shafts in this hub.

Flanged Sleeve Gear Couplings

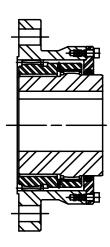
Overview





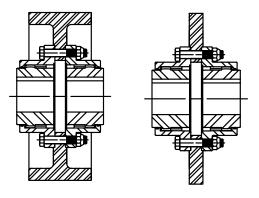
Engineered Shear Pin Type

Shear pin couplings are primarily used to limit transmitted torque to a redetermined load. This in turn disconnects the driver and driven shafts if torque exceeds the specified limits. They are especially suited to protect equipment when jams occur. Components are reusable after pins shear. The coupling will retain lubricant for a short period to allow equipment to be shut down.



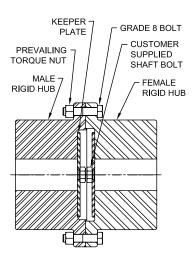
Double Engagement Half Gear Type

Both internal and external teeth in a single sleeve. Can be bolted to a rotating flywheel, shaft or drum to connect driver or driven machine with a shaft extension. This coupling has the same features, ratings and misalignment capability as the standard group of couplings.



Brakewheel and Brake Disc Type

Replaceable brakewheel and brake disc piloted on the outside diameter of a standard sleeve and/or rigid hub. Offers a choice of applying braking effort to the load or driving motor.



Rigid Alloy Steel FARR Type

Male/Female piloted rigid coupling with keeper plates. This coupling is used when a rigid connection is required between the low speed shaft of a gearbox and the head shaft of a conveyor, bucket elevator, mixer or any overhung or suspended load.

Coupling Grease

Overview



Why Coupling Grease?

Adequate lubrication is essential for satisfactory gear coupling operation. Lovejoy Gear Coupling Grease is specifically designed for gear coupling applications to increase coupling life while drastically reducing maintenance time. Its high viscosity base oil and tackifier combine to keep the grease in place and prevent separation and it is in complete compliance with NSI/AGMA 9001-B97 Jubrication recommendations

Lovejoy Coupling Grease is dark brown in color and manufactured with a lithium soap/polymer thickener, which has superior resistance to oil separation when subjected to high centrifugal forces normally found in couplings. Bearing or general purpose greases tend to separate and lose effectiveness due to high centrifugal forces on the various ingredients at high rotational speeds. These high centrifugal forces encountered in couplings separate the base oil from the thickeners. Heavy thickeners, which have no lubrication qualities, accumulate in the gear tooth mesh area resulting in premature coupling failure. Lovejoy Gear Coupling Grease is designed to highly resistant to centrifugal separation of the oil and thickener, which allows the lubricant to be used for a relatively long period of time.

One of the secrets to the success of Lovejoy Gear Coupling Grease is the variable consistency throughout the working cycle of the application. The consistency of our gear coupling grease changes with the operating conditions. Working of the lubricant under actual service conditions causes the grease to become semi-fluid, functionally solash lubricating the wear surfaces of the coupling. As the grease cools, it returns to the original consistency, thereby preventing leakage.

Lovejoy Gear Coupling Grease has a consistency which overlaps the NLGI grades 0 and 1. This grease is specially formulated with a lithium/polymer thickener and fortified with corrosion, oxidation, extreme pressure, and a effective rust inhibitor additive package.

Lovejoy Gear Coupling Grease is available from stock in 14 oz. cartridges, 1 lb. and 5 lb. cans.

Features

- · Minimizing of coupling wear
- Resistance to water washing
- Corrosion and rust protection
- High load carrying capabilities
- Extended relubrication frequency
 Use at temperatures up to 325° F
- Staying in place under high speeds
- Resistance to centrifugal separation
- Reduction in down time & maintenance cost



Typical Properties of Lovejoy Gear Coupling Grease

NLGI Grade	0/1
Appearance	Dark Brown, Tacky
Lithium Soap / Polymer, wt%	10.0
Viscosity	
@ 40° C, cST	>3200
@ 100° C, cSt	>50
Penetration. Dmm	
Worked, 60x	350
Worked, 10,000, % Change	10
Dropping Point, ° F	320° (160° C)
Centrifugal Oil Separation, vol%	None
Water Spray-Off, wt%	>3
Rust Protection	Pass
Timken, OK Load, lbs	40+
Four-Bal EP	
Load Wear Index, kgf	68
Weld Point, kgf	400
Four-Ball Wear, mm	
1 hr, 75° C, 1200 RPM, 40 kgf	0.4
Guide to Usable Temperature	
Min, ° F	Below -20° (-29° C)
Continuous Service, Max, ° F	250° (121° C)
Short Exposure, Max, ° F	325° (163° C)





Contact Name: _____ Customer Name: Email Address: Phone Number: DRIVER 6) DISTANCE DRIVEN **BETWEEN** 1) TYPE OF DRIVER 7) TYPE OF DRIVEN 4) DRIVER SHAFT DIA. SHAFT ENDS 8) DRIVEN SHAFT DIA. AND KEYWAY SIZE AND KEYWAY SIZE 2) DRIVER HP 3) DRIVER RPM 5) DRIVER SHAFT 9) DRIVEN SHAFT **USABLE LENGTH** USABLE LENGTH — 10) TOTAL MOUNTING LENGTH -**1.** Type of Driver (Electric Motor, Combustion Engine, Gearbox, etc.) : ______ WIDTH KEYWAY For combustion engines, define type HEIGHT Gasoline, Diesel, Natural Gas, etc. : ______ Number of cylinders _____ **2.** Driver Horse Power: **3.** Driver or Gearbox output RPM: HEIGHT Retrieve the Application Service Factor from page 3: _____ then calculate the Selection Torque using the following formula: BORE Torque (in-lbs) = HP x 63025 x Service Factor = Selection Torque = _____ in-lbs For additional bore and keyway __ Keyway size: KW Width _____ KW Height **4.** Driver Shaft Diameter : information, see the Engineering Data Section of the Power Specify Clearance Fit, Interference Fit, Metric (P7, H7, etc), Shaft Locking Device, Transmission Products Catalog and Set Screw or No Set Screw **5.** Driver Usable Shaft Length: _____ (Measure from the end of the shaft to any obstruction) **6.** Distance between shaft ends (BSE) : _____ **7.** Type of Driven Equipment : _____ Driven Shaft Diameter: Keyway size: KW Weight KW Height Specify Clearance Fit, Interference Fit, Metric (P7, H7, etc), Shaft Locking Device, and Set Screw or No Set Screw **9.** Driven Usable Shaft Length: (Measure from the end of the shaft to any obstruction) **10.** Total Mounting Length: _____ (Advise of any obstructions, walls, beams, guards, pipes, etc.) **11.** For Tapered Shafts specify the following: Minimum or Maximum Taper diameter: Taper Length: ______ T (Taper Inch per Foot): _____ - WASHER WIDTH THREAD Gap or Hub Overhang amount: Locknut Width: Size of nut cross corners: CROSS CORNERS Thread Size: ______ Thread Length: _____ GAP -← LOCKNUT Washer Diameter (if used): _____ Washer Width: _____ TAPER

LovejoyWorld Headquarters
2655 Wisconsin Avenue, Downers Grove, IL 60515

Send this form to: appleng@lovejoy-inc.com or fax to: 800-634-7644

Product Warranty



Product Warranty

Lovejoy, Inc. warrants all products it manufactures to be free from defects in material and workmanship at the time of delivery to the purchaser. Defective products may be returned to Lovejoy after inspection by the purchaser and upon receipt from Lovejoy of shipping instructions specific to the defective products authorized by Lovejoy to be returned. Products returned in accordance with the foregoing procedure will be replaced or repaired, at the option of Lovejoy, without charge and returned to the purchaser F.O.B. Downers Grove, Illinois or South Haven, Michigan, depending upon origin of manufacture. In all cases, transportation costs and charges for returned products shall be paid by the purchaser and Lovejoy hereby disclaims all responsibility for any and all such transportation costs and charges.

This warranty is subject to the following LIMITATIONS:

The purchaser's exclusive remedy under this warranty is limited to the repair or replacement of defective products supplied by Lovejoy, as set forth above. LOVEJOY IS NOT RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE BREACH OF THIS OR ANY OTHER EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE PRODUCTS, WHETHER ARISING IN TORT OR BY CONTRACT. LOVEJOY FURTHER DISCLAIMS ALL LIABILITY FROM PERSONAL INJURY RELATING TO ITS PRODUCTS TO THE EXTENT PERMITTED BY LAW. BY ACCEPTANCE OF ANY OF LOVEJOY'S PRODUCTS, THE PURCHASER ASSUMES ALL LIABILITY FOR THE CONSEQUENCES ARISING FROM THEIR USE OR MISUSE.

This express warranty is the only warranty applicable to this transaction. IT EXCLUDES ALL OTHER EXPRESS ORAL OR WRITTEN WARRANTIES AND ALL WARRANTIES IMPLIED BY LAW WITH RESPECT TO THE PRODUCTS, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Every claim under this warranty shall be deemed waived by the purchaser unless made in writing within one (1) year of the receipt of the products to which such claim relates. This warranty is void in the event that repairs are made by anyone other than Lovejoy without prior authorization from Lovejoy. No person, firm or corporation is authorized to assume for Lovejoy any other liability in connection with the sale of its products. No person, firm or corporation is authorized to modify or waive the terms of this Warranty unless done in writing and signed by a duly authorized agent of Lovejoy.

Note: Specifications are subject to change without notice, and without liability therefor.





Notes		





Notes	

The leader in power transmission products.







Lovejoy

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Curtis Universal Joint Co., Inc.

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Timken Canada

171 Superior Boulevard Mississauga, Ontario Canada L5T 2L6 Phone: 905-670-9421 Fax: 905-670-4594 lovejoycanada@lovejoy-inc.com www.lovejoy-inc.com

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ISO 9001 Certified

Your Authorized Lovejoy Distributor is:									