Lovejoy / Sier-Bath Flanged Sleeve Gear Couplings

FLAMM Type Flex-Flex Mill Motor Couplings

The FLAMM Type coupling consists of one standard FLA flex hub, one universal flex hub bored to an A.I.S.E. frame size, two sleeves and one accessory kit. This coupling is supplied with exposed bolts as standard. Shrouded bolts are available upon request through size 5.5.

FLAMMFR Type Flex-Rigid Mill Motor Couplings

The FLAMMFR Type coupling consists of a rigid hub, one universal flex hub bored to A.I.S.E. frame size, one sleeve and one accessory kit. This coupling is supplied with exposed bolts as standard. Shrouded bolts are available upon request through size 5.5.

Features

- Patented Vari-Crown® tooth form for long life on Flex Half
- Standard 20° pressure angle
- Heat treated bolts for greater strength
- Corrosion resistant bolts and nuts for ease of maintenance
- Provides parallel, angular misalignment and end float
- Flex Half coupling interchangeable with industry standards
- Long Universal Hub used for A.I.S.E. Motor Frames

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FLAMM and FLAMMFR Type Performance Data

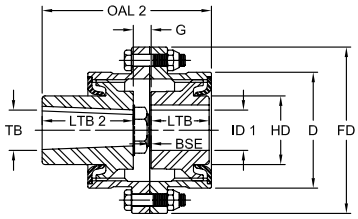
Size	Nominal Torque in-lb	Nm	Max Speed Unbal RPM	Bal RPM	ID1 Flex Hub Max Bore Standard Keyway in	mm	ID2 Flex Hub Rough Stock Bore in	mm	ID1 Rigid Hub Max Bore Standard Keyway in	mm	ID2 Rigid Hub Rough Stock Bore in	mm	Weight lbs	kg	Parallel Misalignment FLAMM only in	mm	Max Angular Misalignment Degrees
1.5	18,900	2 140	5,500	8,250	1.625	41	0.38	9	2.813	76	solid	solid	24	11	0.28	0.7	
2	31,500	3 560	5,000	7,500	2.125	53	0.50	12	3.500	95	solid	solid	45	20	0.35	0.9	
2.5	56,700	6 410	4,400	6,600	2.750	69	0.75	19	4.250	114	solid	solid	71	32	0.44	1.1	
3	94,500	10 700	4,000	6,000	3.125	79	1.13	28	4.875	134	solid	solid	104	47	0.52	1.3	.5°
3.5	151,200	17 100	3,500	5,250	3.750	95	1.50	38	5.625	150	solid	solid	151	69	0.61	1.5	Per
4	220,500	24 900	3,000	4,500	4.250	17	1.50	38	6.500	176	solid	solid	234	86	0.70	1.8	Gear
4.5	302,400	34 200	2,700	4,050	4.750	120	1.50	38	7.625	202	solid	solid	310	141	0.79	2.0	Mesh
5	434,700	49 100	2,500	3,750	5.500	139	2.50	63	8.750	230	4.00	101	450	204	0.87	2.2	
5.5	573,300	64 800	2,200	3,300	5.875	149	3.00	76	9.500	260	4.50	114	609	276	0.96	2.4	
6	749,700	84 700	2,100	3,150	6.500	165	4.00	101	10.500	285	5.50	127	764	347	0.105	2.7	
7	1,008,000	113 900	2,000	3,000	8.000[1]	203	4.50	114	12.000	320	5.75	139	1,212	551	0.122	3.1	

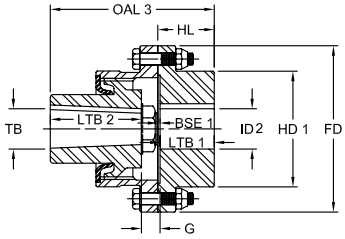
Notes:
- 1 indicates: Maximum bore for square keyway.
- Application: Driver and Driven.
- Type and size of coupling, horizontal, vertical etc.
- Power: Motor horspower or torque requirement.
- Speed: Motor RPM or Driven RPM.
- Distance between shaft ends (BSE).
- Shaft sizes.
- Mill Motor frame size.
- Submit a drawing if available.

Lovejoy / Seir-Bath Flanged Sleeve Gear Couplings

FLAMM and FLAMMFR Type

All Metal Labyrinth Seal Mill Motor Couplings





FLAMM and FLAMMFR Type Dimensional Data

Size	AISE Frame No	OAL 2 in	OAL 3 in	LTB in	LTB1 in	LTB2 in	G in	BSE in	BSE 1 in	FD in	D in	HD in	HD 1 in	TB in	Mill Mtr Hub Kw W in	Mill Mtr Hub Kw H in
1.5	602/802	6.00	5.91	1.94	1.84	3.00	1.06	0.13	0.16	6.00	3.97	2.19	3.97	1.7485 - 1.7495	0.50	0.13
2	602/802	6.50	6.34	2.44	2.28	3.00	1.06	0.13	0.16	7.00	4.91	2.88	4.86	1.7485 - 1.7495	0.50	0.25
	603/803	7.06	6.91			3.50	1.13							1.998 - 1.999	0.50	0.25
	604/804	7.06	6.91			3.50	1.13							1.998 - 1.999	0.50	0.25
2.5	602/802	7.16	7.03	3.03	2.28	3.00	1.13	0.19	0.19	8.38	5.91	3.63	5.84	1.7485 - 1.7495	0.50	0.25
	603/803	7.72	7.59			3.50	1.19							1.998 - 1.999	0.50	0.25
	604/804	7.72	7.59			3.50	1.19							1.998 - 1.999	0.50	0.25
	606/806	8.34	8.22			4.00	1.31							2.498 - 2.499	0.50	0.25
3	602/802	7.72	7.53	3.59	2.91	3.00	1.13	0.19	0.19	9.44	6.91	4.25	6.84	1.7485 - 1.7495	0.50	0.25
	603/803	8.28	8.09			3.50	1.19							1.998 - 1.999	0.50	0.25
	604/804	8.28	8.09			3.50	1.19							1.998 - 1.999	0.50	0.25
	606/806	8.91	8.72			4.00	1.31							2.498 - 2.499	0.50	0.25
	608/808	9.53	9.34			4.50	1.44							2.998 - 2.999	0.75	0.25
	610/810	9.66	9.47			4.50	1.56							3.248 - 3.249	0.75	0.25
3.5	603/803	8.88	8.66	4.19	3.97	3.50	1.19	0.25	0.22	11.00	7.91	5.00	7.91	1.998 - 1.999	0.50	0.25
	604/804	8.88	8.66			3.50	1.19							1.998 - 1.999	0.50	0.25
	606/806	9.50	9.28			4.00	1.31							2.498 - 2.499	0.50	0.25
	608/808	10.13	9.91			4.50	1.44							2.998 - 2.999	0.75	0.25
	610/810	10.25	10.03			4.50	1.56							3.248 - 3.249	0.75	0.25
	612/812	10.94	10.72			5.00	1.75							3.623 - 3.624	0.75	0.25
4	606/806	10.13	9.81	4.75	4.44	4.00	1.38	0.25	0.31	12.50	9.25	5.75	9.25	2.498 - 2.499	0.50	0.25
	608/808	10.75	10.44			4.50	1.50							2.998 - 2.999	0.75	0.25
	610/810	10.88	10.56			4.50	1.63							3.248 - 3.249	0.75	0.25
	612/812	11.50	11.19			5.00	1.75							3.623 - 3.624	0.75	0.25
	614/814	11.63	11.31			5.00	1.88							4.2470 - 4.2485	1.00	0.38
	616/816	12.25	11.94			5.00	2.00							4.6220 - 4.6235	1.25	0.28
4.5	610/810	11.50	11.22	5.31	5.03	4.50	1.69	0.31	0.34	13.63	10.38	6.50	10.38	3.248 - 3.249	0.75	0.25
	612/812	12.12	11.84			5.00	1.81							6.623 - 3.624	0.75	0.25
	614/814	12.25	11.97			5.00	1.94							4.2470 - 4.2485	1.00	0.38
	616/816	12.88	12.59			5.50	2.06							4.6220 - 4.6235	1.25	0.38
	618/818	12.94	12.66			6.00	1.63							4.9970 - 4.9985	1.25	0.50
5	612/812	12.84	12.50	6.03	5.69	5.00	1.81	0.31	0.34	15.31	11.56	7.31	11.56	3.623 - 3.624	0.75	0.25
	614/814	12.97	12.63			5.00	1.94							4.2470 - 4.2485	1.00	0.38
	616/816	13.59	13.25			5.50	2.06							4.6220 - 4.6235	1.25	0.38
	618/818	13.66	13.31			6.00	1.63							4.9970 - 4.9985	1.25	0.50
5.5	616/816	14.47	13.72	6.91	6.16	5.50	2.06	0.31	0.34	16.75	12.81	8.00	12.72	4.6220 - 4.6235	1.25	0.38
	618/818	14.53	13.78			6.00	1.63							4.9970 - 4.9985	1.25	0.50
	620	15.72	14.97			6.75	2.06							5.8720 - 5.8735	1.50	0.75
	622	16.84	16.09			7.25	2.69							6.2470 - 6.2485	1.50	0.56
6	620	16.22	16.22	7.41	7.41	6.75	2.06	0.31	0.41	18.00	14.00	8.81	14.00	5.8720 - 5.8735	1.50	0.75
	622	17.34	17.34			7.25	2.69							6.2470 - 6.2485	1.50	0.75
	624	19.34	19.34			9.25	2.69							6.9970 - 6.9985	1.50	0.50
7	622	18.69	18.69	8.69	8.69	7.25	2.75	0.38	0.50	20.75	15.75	10.31	15.75	6.2470 - 6.2485	1.50	0.75
	624	20.69	20.69			9.25	2.75							6.9970 - 6.9985	1.50	0.75

Notes:
- Bore taper is 1-1/4 inch per foot on diameter.
- Exposed Bolt Design is standard.
- Shrouded Bolt Design available upon request for sizes 1.5 through 5.
- Puller Holes are standard on sizes 4 through 7.
- Puller Holes are available for sizes 1.5 through 3.5 at an additional charge.
- Interference bores with no set screws are standard unless otherwise specified.
- Inch bore and keyway tolerances conform to AGMA 9002-B04.
- For metric bore and keyway tolerances, consult Lovejoy Engineering Section.

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