

Single Flex Coupling GR Series - Form-Flex®

Single Flex Short Spacing



Size	Torque Rating			Max Speed (RPM)		Max Radial Load (lbs)	Weight (lbs) (1)	WR ² (lb-in ²) (1)	Misalignment Capacity	
	HP / 100 (RPM)	Max Continuous (lb-in)	Peak Overload (lb-in)	AGMA 8	ABS. Max				Axial (+/- in)	Angular (Degrees/ Disc Pack)
311	17	11,000	22,000	8,000	13,000	360	11.0	41.5	0.014	0.5°
321	33	20,500	41,000	7,400	12,000	800	17.8	77.6	0.0145	
332	51	32,000	64,000	6,600	11,500	1,300	26.2	143	0.015	
346	73	46,000	92,000	6,100	9,000	1,300	38.1	271	0.025	
380	127	80,000	160,000	5,500	7,000	2,400	53.1	469	0.040	
412	190	120,000	240,000	5,200	6,000	2,400	72.5	935	0.040	0.33°
419	301	190,000	380,000	4,600	5,000	4,200	129.3	2092	0.050	
424	476	300,000	600,000	4,200	5,000	4,200	195.8	4936	0.050	
444	690	435,000	870,000	3,800	4,000	5,300	291.5	8422	0.055	
456	1015	640,000	1,280,000	3,600	3,500	6,700	364.0	13226	0.060	
483	1317	830,000	1,660,000	3,300	3,500	8,200	512.0	20843	0.065	
511	1904	1,200,000	2,400,000	3,100	3,000	9,800	677.2	37076	0.070	
520	3173	2,000,000	4,000,000	2,800	2,500	15,700	1208	71849	0.090	
525	3967	2,500,000	5,000,000	2,700	2,500	17,900	1473	113939	0.100	
530	4760	3,000,000	6,000,000	2,500	2,500	21,000	1752	148626	0.100	
540	6347	4,000,000	8,000,000	2,300	2,000	23,000	2662	346946	0.120	

1) Weight and WR² values shown are for standard hubs at max inch bore.

STANDARD MATERIALS

HUBS - CARBON STEEL

SPACER - CARBON STEEL

HARDWARE - ALLOY STEEL

DISC PACKS - STAINLESS STEEL

MATERIAL / FINISH OPTIONS

DISC PACKS - ALLOY STEEL (For cost reduction, available for sizes 412 to 540)

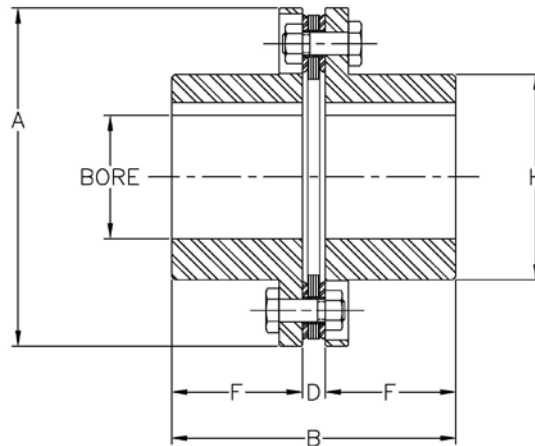
ZINC ELECTRO PLATING

ZINC PHOSPHATE COATING

ALLOY STEEL HUBS

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Size	Max Bore						Dimensions (in)					
	Standard Hub			Oversized/Large Hub			A	B	D DBSE	F	H	
	Square Key (in)	Rect. Key (in)	Rect. Key (mm)	Square Key (in)	Rect. Key (in)	Rect. Key (mm)					Std Hub	O/S Hub
311	2.813	3.063	78	3.125	3.313	86	5.88	5.40	0.40	2.50	3.91	4.30
321	3.000	3.250	83	3.250	3.438	90	6.38	6.55	0.55	3.00	4.25	4.57
332	3.188	3.313	87	3.438	3.688	95	7.20	6.62	0.62	3.50	4.50	4.95
346	3.750	4.000	107	4.250	4.500	117	8.20	6.62	0.62	3.75	5.42	5.95
380	3.750	4.000	105	4.250	4.500	118	9.42	9.14	0.89	4.13	5.65	6.30
412	4.500	4.500	120	4.750	5.125	135	11.00	9.25	0.75	4.25	6.51	7.20
419	4.500	4.875	130	5.500	5.625	150	12.50	10.98	0.98	5.00	7.32	8.07
424	6.625	6.880	190				15.00	13.48	0.98	6.25	9.57	
444	7.000	7.375	200				16.38	15.09	1.09	7.00	10.52	
456	8.000	8.000	220				18.00	15.82	1.32	7.25	11.63	
483	8.250	8.875	234				19.44	18.39	1.39	8.50	12.56	
511	10.000	10.125	280				22.00	19.56	1.56	9.00	14.50	
520	10.375	11.000	297				24.88	25.64	1.89	11.88	16.10	
525	11.000	12.000	322				26.75	25.95	1.95	12.00	17.35	
530	11.500	12.750	338				28.00	27.64	2.14	12.75	18.35	
540	15.750	17.000	448				33.50	32.58	2.58	15.00	22.63	

ORDERING

GR SERIES COUPLINGS ARE SOLD AS COMPONENTS

COUPLINGS CONSIST OF:

2 - HUBS - Example (GH346 x 2-1/2")

1 - REPAIR KIT - Example (G346SF)

Heavy Duty Spacer Coupling

PRODUCT FEATURES

- Designed for low to medium speed equipment
- Standard designs for applications requiring shaft-to-shaft or shaft to flywheel connection.
- Construction
 - Fully machined steel hubs are standard
 - Ductile Iron or Class 30 Grey Iron spacer/spyder
 - Ductile Iron or Class 30 Grey Iron flywheel adapter
 - Alloy steel hardware and High Carbon steel disc packs
- Form-Flex® HSH/FSH Series designs use non-unitized disc packs
- Form-Flex® GCH/GCF Series designs use unitized disc packs
- Industry standard length spacer
- Can be bored for any shaft configuration (see page F5-41 for hub design options)
- Special flange mountings are also available to bolt custom flanges on any equipment.



TYPICAL APPLICATIONS

- Reciprocating Compressors
- Metal Shredders
- Rock Crushers
- Engine Driven Equipment
- Mixer

SPECIAL APPLICATIONS

- Can be modified for API671 with exceptions
- Added inertia to torsionally tune system
- Altered stiffness for torsional tuning
- Custom designs for demanding applications

SPECIAL APPLICATIONS

Example: Coupling shown was specially designed for a high torque, low speed (10000HP @ 290RPM) application to torsionally tune the system. This is a 10 bolt disc pack design and the coupling is rated for 10,000,000 lb-in with an OD measuring 44.50". Flange mounted on both ends with a custom adapter hub on the motor's keyless shaft.

