

# FLEXXOR Engineering Data-English

Size	Torque Configuration	Max Continuous Torque (in-lbs) *1	Max HP per 1000 RPM	Max RPM	Axial Travel (± in) *2		Axial Spring Rate (lb/0.001 in) *3	Angular Deflection (± Deg) *2		Angular Spring Rate (in-lb/deg) *3	A Outer Diameter (in)		B Max Bore (in) *4	Min. Dist. Btw. shaft ends (in) *4	C Hub Length (in) *4
					Std	Max		Std	Max		Min	Max			
40	Min	144	2	120,000	0.012	0.029	0.05	0.3	0.5	3	1.5	1.8	1.0	0.8	0.5
	Max	240	4												
50	Min	300	5	90,586	0.014	0.034	0.06	0.3	0.5	3	2.0	2.4	1.1	1.0	0.8
	Max	500	10												
80	Min	1,182	19	59,664	0.020	0.048	0.08	0.3	0.5	5	3.1	3.4	1.3	1.5	1.3
	Max	1,970	37												
100	Min	2,475	39	46,784	0.028	0.067	0.11	0.3	0.5	12	3.6	4.4	1.4	2.1	1.9
	Max	4,125	78												
125	Min	4,869	77	38,389	0.036	0.086	0.26	0.3	0.5	27	4.5	5.3	1.9	3.0	2.5
	Max	8,115	155												
162	Min	10,620	168	29,233	0.050	0.120	0.28	0.3	0.5	56	5.9	7.0	4.0	3.7	3.2
	Max	17,700	336												
200	Min	19,710	312	23,756	0.060	0.144	0.34	0.3	0.5	105	7.3	8.5	5.1	4.0	3.4
	Max	32,850	624												
250	Min	39,060	619	19,067	0.072	0.173	0.42	0.3	0.5	168	9.2	10.9	5.6	4.5	4.2
	Max	65,100	1,238												
312	Min	75,690	1,200	15,125	0.090	0.216	0.64	0.3	0.5	345	11.5	13.4	6.5	6.0	5.5
	Max	126,150	2,400												
400	Min	159,300	2,528	11,848	0.116	0.278	0.77	0.3	0.5	705	14.7	17.2	8.1	8.0	7.0
	Max	318,600	5,055												
500	Min	310,500	4,935	9,580	0.146	0.350	0.90	0.3	0.5	1,380	18.5	21.4	8.8	9.5	9.0
	Max	621,000	9,870												
562	Min	471,744	7,485	8,480	0.169	0.406	0.95	0.3	0.5	1,062	21.8	24.0	10.0	11.0	10.0
	Max	786,240	12,475												
630	Min	624,600	9,911	7,590	0.180	0.432	0.69	0.3	0.5	2,565	23.1	26.9	11.0	12.0	10.3
	Max	1,041,000	16,518												
800	Min	1,242,000	19,707	5,960	0.232	0.557	0.94	0.3	0.5	4,824	29.2	34.1	14.0	13.0	12.0
	Max	2,484,000	39,414												
1000	Min	2,463,000	39,084	4,700	0.280	0.672	1.20	0.3	0.5	7,250	39.2	43.5	18.0	17.0	16.0
	Max	4,926,000	78,169												
1250	Min	4,812,000	76,356	3,850	0.360	0.864	1.30	0.3	0.5	10,450	49.3	56.3	22.0	20.0	19.0
	Max	9,624,000	152,713												

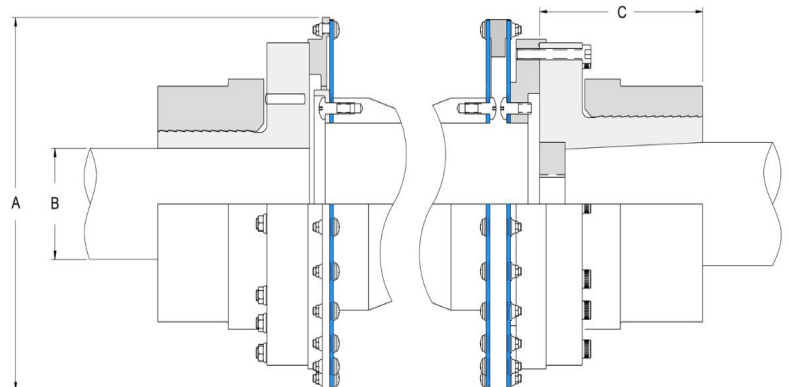
**Note:** For weight and inertia information, contact CCA

- \*1 Peak torque values are 2 times Max Continuous Torque  
Each size can be configured for higher/lower torque
- \*2 C config. listed - for CC config. double all values
- \*3 C config. listed - for CC config. all values are half
- \*4 For custom dimensions, contact CCA

## Materials

- Hubs - 4000 series or equivalent alloy steel heat treated to 130,000 PSI UTS minimum.
- Hub Rings, sleeves - 1018, 1026 carbon steel or 4000 series alloy. Diaphragms - 17-7 PH, 301 full hard.
- Bolts - AISI 4140, 4340, 6150, 8740 alloy steel heat treated to grade 8 min. Locknuts - Grade C min.
- Special materials available such as Stainless, Inconel, Beryllium copper, Titanium, Monel.

The FLEXXOR C model consists of a single set of diaphragms at each end of either a tubular, quill shaft or solid spacer.



CC FLEXXORS use two sets of diaphragms at each end of the spacer. Therefore, CC models have twice the axial travel and 1/2 the spring rate of C models.