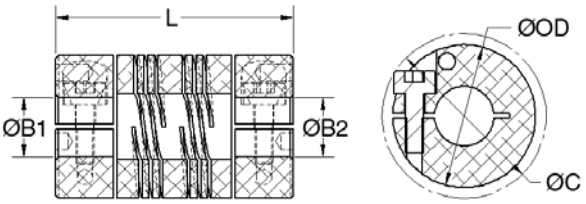
FCR
FSR

SIX BEAM FLEXIBLE COUPLING
INCH DIMENSION SERIES • ALUMINUM

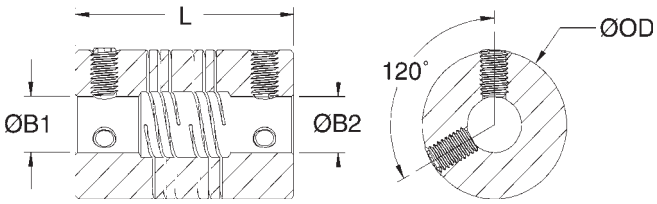
FCR





FSR





PART NUMBER		SPECIFICATIONS							PERFORMANCE				
CLAMP STYLE	SET SCREW STYLE	BORES B1, B2 (in)	OUTER DIAM. OD (in)	CLEARANCE DIAM C (in) (FCR) MAX	LENGTH L (in)	CAP SCREW (FCR)	SET SCREW (FSR)	SHAFT PENETRATION (in)	STATIC TORQUE (lb-in)	TORSIONAL STIFFNESS (Deg/lb-in)	MISALIGNMENT PARALLEL (in)	MISALIGNMENT AXIAL MOTION (in)	MOMENT OF INERTIA (lb-in²)
FCR10	FSR10	3 (.1875) 4 (.2500)	0.625	0.796	1.000	M2.5	M4	0.472	13 13	0.360 0.360	0.008	0.005	0.0013
FCR12	FSR12	3 (.1875) 4 (.2500) 5 (.3125)	0.750	0.879	1.250	M3	M4	0.593	26 26 20	0.152 0.152 0.229	0.008	0.005	0.0036
FCR16	FSR16	4 (.2500) 5 (.3125) 6 (.3750)	1.000	1.117	1.500	M4	M5	0.704	35 33 33	0.064 0.093 0.093	0.015	0.010	0.0139
FCR20	FSR20	5 (.3125) 6 (.3750) 8 (.5000)	1.250	1.459	1.750	M5	M6	0.820	70 61 50	0.038 0.048 0.072	0.015	0.010	0.0401
FCR24	FSR24	6 (.3750) 8 (.5000) 10 (.6250) 12 (.7500)	1.500	1.642	2.250	M5	M6	1.042	120 110 95 80	0.022 0.029 0.043 0.063	0.030	0.015	0.1023

Note 1 Static torque ratings are at maximum misalignment. To obtain dynamic rating, static ratings should be divided by 2 for non-reversing applications and by 4 for reversing applications.

Note 2 Hardware is alloy steel with black oxide finish. Stainless steel hardware is available upon request. FCR series parts have two socket head Nypatch® cap screws on each end with the exception of the M2.5.

Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular application.

Note 4 Coupling torque and torsional stiffness are determined by the largest bore selected.

Note 5 Angular misalignment on all couplings is 3°.

Note 6 Shafts may penetrate up to 0.5 x L. Be certain shafts do not touch.

Note 7 Maximum speed 6,000 RPM.

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