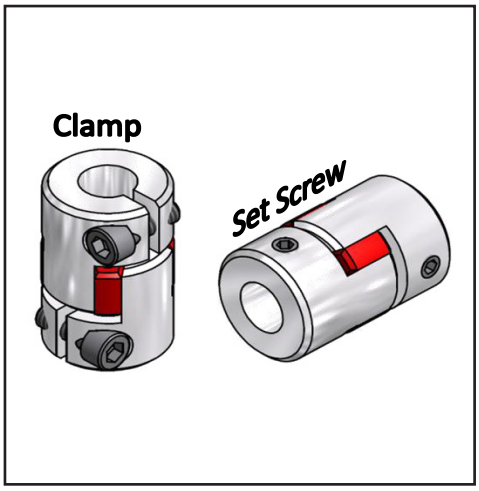
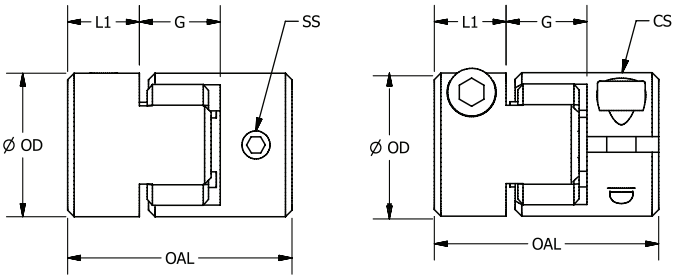
COUPLINGS

Curved Jaw

Aluminum Hubs, Polyurethane Spiders

811
816





Performance

Coupling Code		Coupling Size	Spider Shore Hardness	OD (in)	OAL (in)	Spider Color	Misalignment			Max RPM*	Torque (in-lb)			Torsional Stiffness Lb*in/deg)
Set Screw	Clamp						Axial	Radial	Angu-lar		Nominal	Max	Reversing	
811	**812**	14	80A	0.55	0.86	Blue	0.030	0.002	1°	34100	6	12	2	124
813	**814**	14	92A	0.55	0.86	White	0.030	0.002	1°	34100	11	21	2	2.16
815	**816**	14	98A	0.55	0.86	Red	0.030	0.002	1°	34100	18	35	2	3.40
811	**812**	20	80A	0.78	1.20	Blue	0.030	0.002	1°	23800	16	32	4	2.47
813	**814**	20	92A	0.78	1.20	White	0.030	0.002	1°	23800	27	53	4	4.48
815	**816**	20	98A	0.78	1.20	Red	0.030	0.002	1°	23800	44	89	4	8.50
811	**812**	30	80A	1.18	1.35	Blue	0.030	0.002	1°	15900	35	71	9	7.10
813	**814**	30	92A	1.18	1.35	White	0.030	0.002	1°	15900	66	133	9	11.28
815	**816**	30	98A	1.18	1.35	Red	0.030	0.002	1°	15900	111	221	9	20.08
811	**812**	40	80A	1.57	2.55	Blue	0.050	0.008	1.2°	14000	43	86	11	58.70
813	**814**	40	92A	1.57	2.55	White	0.050	0.008	1.2°	14000	88	177	23	88.05
815	**816**	40	98A	1.57	2.55	Red	0.050	0.008	1.2°	14000	150	300	39	185.37
811	**812**	55	80A	2.16	2.97	Blue	0.060	0.009	0.9°	10600	151	301	39	216.27
813	**814**	55	92A	2.16	2.97	White	0.060	0.009	0.9°	10600	310	620	80	247.16
815	**816**	55	98A	2.16	2.97	Red	0.060	0.009	0.9°	10600	530	1060	142	401.64
811	**812**	65	80A	2.55	3.53	Blue	0.060	0.010	0.9 °	8500	407	814	106	432.53
813	**814**	65	92A	2.55	3.53	White	0.060	0.010	0.9 °	8500	840	1680	221	463.43
815	**816**	65	98A	2.55	3.53	Red	0.060	0.010	0.9 °	7100	1415	2830	381	756.92

*Max RPM for Set Screw Style, Clamp Style less 20%

Materials

Hubs: Aluminum 6061-T6
Fasteners: Alloy Steel
Spiders: Polyurethane
Temp Range: -40°F to 212°F

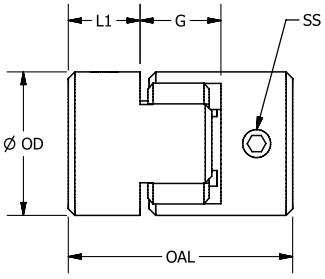
811
816

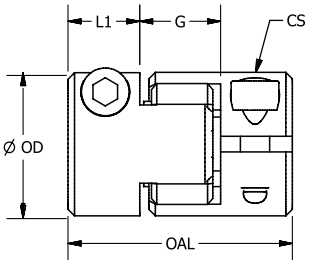
COUPLINGS

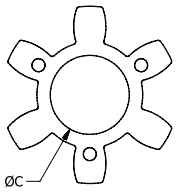
Curved Jaw

Aluminum Hubs, Polyurethane Spiders

811
816







Set Screw Type
+ Spider Insert

Dimensions

Coupling Size	Inch or Metric		OD (in)	OAL (in)	L1 (in)	G (in)	C (in)	CD (in)
	Min Bore	Max Bore						
14	3mm	7mm	0.55	0.86	0.28	0.30	---	0.71
20	4mm	9mm	0.78	1.20	0.39	0.42	---	0.93
30	1/4"	14mm	1.18	1.35	0.43	0.49	0.34	1.27
40	5/16"	24mm	1.57	2.55	0.98	0.56	0.69	1.70
55	5/16"	32mm	2.16	2.97	1.16	0.63	1.04	2.20
65	3/8"	1.50"	2.55	3.53	1.40	0.73	1.17	---

Coupler Size	Inch Bore Sizes														
	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1"	1-1/8	1-1/4	1-3/8	1-1/2
14	•	•	•												
20		•	•	•											
30			•	•	•	•	•								
40				•	•	•	•	•	•	•					
55					•	•	•	•	•	•	•	•	•		
65					•	•	•	•	•	•	•	•	•	•	•
Bore Code	16	19	24	27	31	34	36	41	47	50	53	55	57	59	62

Materials
Hubs: Aluminum 6061-T6 Fasteners: Alloy Steel
Spiders: Polyurethane
Temp Range: -40°F to 212°F

Coupler Size	Metric Bore Sizes																	
	3	4	5	6	7	8	9	10	12	14	15	16	20	24	25	30	32	35	38
14	•	•	•	•	•														
20		•	•	•	•	•	•												
30			•	•	•	•	•	•	•	•									
40						•	•	•	•	•	•	•	•	•					
55								•	•	•	•	•	•	•	•	•	•		
65								•		•	•	•	•	•	•	•	•	•	•
Bore Code	14	18	20	22	25	28	30	32	35	38	40	42	48	51	52	56	58	60	61

Example: 812 . 65 . 3636 = Size 65, Clamp Style, 80A Spider, 1/2" Bores
- Bore Codes: See Chart
- Coupling Size: 14 to 95
- Hub Style & Spider Durometer:

ondrives.us
1-888-260-7466
516-771-6444
sales@ondrivesus.com
www.ondrivesus.com

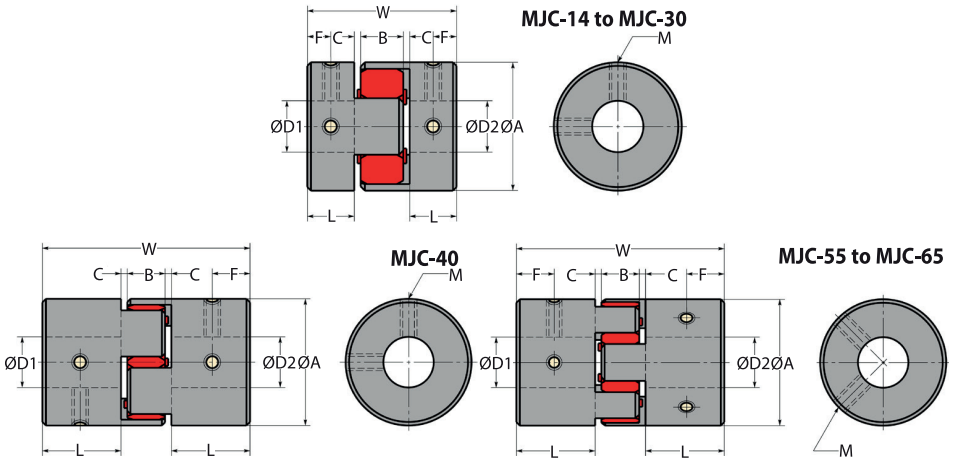
MJC

COUPLINGS

Aluminum Curved Jaw Flexible Shaft Coupling

Set Screw Fixing : 2 - 320Nm, 3 - 30mm Bores

MJC



Part Number	Min. Bores ØD1 ØD2	Max. Bores ØD1 ØD2	ØA	L	W	B	C	F	M
MJC-14-RD	3	7	14	7	22	6	1.0	3.5	M3
MJC-20-RD	4	11	20	10	30	8	1.0	5.0	M3
MJC-30-RD	6	16	30	11	35	10	1.5	5.5	M4
MJC-40-RD	8	25	40	25	66	12	2.0	12.5	M5
MJC-55-RD	10	32	55	30	78	14	2.0	15.0	M6
MJC-65-RD	14	38	65	35	90	15	2.5	17.5	M8

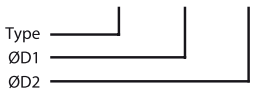
Part Number	Zero-Backlash Permissable Torque (Nm)	Wrench Torque (Nm)	Rated Torque (Nm)	Max. Torque (Nm)	Max. rpm (min^{-1})	Moment of Inertia ($kg \cdot m^2$)†	Static Torsional Stiffness (Nm/rad)	Max Parallel Offset (mm)	Errors of Angularity	Errors of Shaft End-Play (mm)	Mass (g)†
MJC-14-RD	0.1	0.7	0.7	1.4	45,000	2.0×10^{-7}	8	0.15	1°	+0.6 / -0	6.6
MJC-20-RD	0.2	0.7	1.8	3.6	31,000	1.1×10^{-6}	16	0.20	1°	+0.8 / -0	17
MJC-30-RD	0.5	1.7	4.0	8.0	21,000	6.2×10^{-6}	46	0.20	1°	+1.0 / -0	44
MJC-40-RD	1.2	4.0	4.9	9.8	15,000	3.7×10^{-5}	380	0.15	1°	+1.2 / -0	130
MJC-55-RD	---	7.0	17.0	34.0	11,000	1.6×10^{-4}	1,400	0.20	1°	+1.4 / -0	320
MJC-65-RD	---	15.0	46.0	92.0	9,000	3.6×10^{-4}	28,000	0.20	1°	+1.5 / -0	520

Materials

Body: Anodized Aluminium alloy (A2017).
Setscrews:Alloy steel- black oxide coating.
Sleeve: Polyurethane. Sleeve Durometer Hardness (Shore A): 98 (BL=80, WH=92).
Operating temperature Range: -20°C to +60°C.
Rated and max. torque capacities are decreased in case of use in high ambient temperatures. If ambient temperature exceeds 30°C, adjust torque capacity.

Ordering

High Torque RD (Red disc) supplied as standard.
If the alternative Low Torque (BL - Blue Disc) and Medium Torque (WH - White Disc) is required, please change RD in the part number to color required (White WH or Blue BL).



These are supplied at no extra cost. Technical Data available on request.
The MJC coupling can be bored out, but not keywayed.
MJC-K Keywayed couplings can be ordered as specials, but a minimum order quantity may apply. Larger sizes MJC-80 and MJC-95 available. P.O.A.

Features

- For use with stepper motors and some servo and general purpose motors.
- Excellent flexibility- torsional vibration can be absorbed as well as parallel and angular misalignments.
- Excellent resistance to oil, and electrical insulation.
- Can transmit generally higher torque than metallic spring couplings.
- Compression type coupling assembled by pressing an elastic polyurethane sleeve into hubs on both sides for zero backlash in low torque application.
- Can be used as a flexible coupling in high torque applications.
- Identical clockwise & counter-clockwise rotational characteristics.
- Finished bore product - models with two different end bores also in stock.
- Setscrews supplied. Bores of 3 or 4mm only have 1 setscrew.
- Recommended tolerance on shaft diameters is h6 and h7.
- Complete absorption of eccentricity, angularity and end-play by spring actions.

† Based on maximum shaft bores.

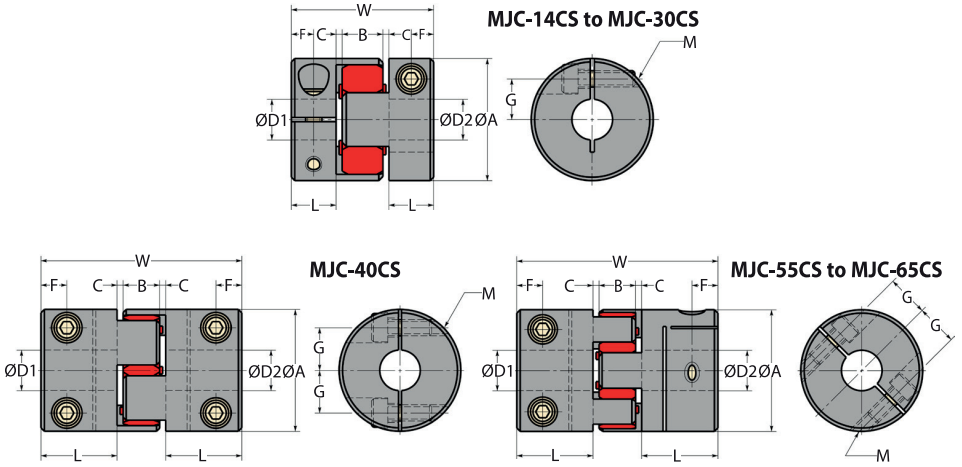
MJC-CS

COUPLINGS

Aluminum Curved Jaw Flexible Shaft Coupling

Clamp Fixing : 2 - 320Nm, 3 - 30mm Bores

MJC-CS



Part Number	Min. Bores ØD1 ØD2	Max. Bores ØD1 ØD2	ØA	L	W	B	C	F	G	M
MJC-14CS-RD	3	7	14	7	22	6	1.0	3.5	4.0	M2
MJC-20CS-RD	4	11	20	10	30	8	1.0	5.0	6.5	M2.5
MJC-30CS-RD	6	16	30	11	35	10	1.5	5.5	10.0	M4
MJC-40CS-RD	8	25	40	25	66	12	2.0	8.5	14.0	M5
MJC-55CS-RD	10	32	55	30	78	14	2.0	10.5	20.0	M6
MJC-65CS-RD	14	38	65	35	90	15	2.5	13.0	24.0	M8

Part Number	Zero-Backlash Permissable Torque (Nm)	Wrench Torque (Nm)	Rated Torque (Nm)	Max. Torque (Nm)	Max. rpm (min^{-1})	Moment of Inertia ($kg \cdot m^2$)†	Static Torsional Stiffness (Nm/rad)	Max Parallel Offset (mm)	Errors of Angularity	Errors of Shaft End-Play (mm)	Mass (g)†
MJC-14CS-RD	0.1	0.5	0.7	1.4	45,000	1.9×10^{-7}	8	0.10	1°	+0.6 / -0	6.2
MJC-20CS-RD	0.2	1.0	1.8	3.6	31,000	1.0×10^{-6}	16	0.10	1°	+0.8 / -0	16
MJC-30CS-RD	0.5	3.5	4.0	8.0	21,000	6.0×10^{-6}	46	0.10	1°	+1.0 / -0	42
MJC-40CS-RD	1.2	8.0	4.9	9.8	15,000	3.6×10^{-5}	380	0.10	1°	+1.2 / -0	130
MJC-55CS-RD	---	13.0	17.0	34.0	11,000	1.6×10^{-4}	1,400	0.10	1°	+1.4 / -0	310
MJC-65CS-RD	---	28.0	46.0	92.0	9,000	3.5×10^{-4}	2,800	0.10	1°	+1.5 / -0	500

Materials

Body: Anodized Aluminium alloy (A2017).
Cap Screws: Alloy steel- black oxide coating.
Sleeve: Polyurethane. Sleeve Durometer Hardness (Shore A): 98 (BL=80, WH=92).
Operating temperature Range: -20°C to +60°C.
Rated and max. torque capacities are decreased in case of use in high ambient temperatures. If ambient temperature exceeds 30°C, adjust torque capacity.

Ordering

High Torque RD (Red disc) supplied as standard.
If the alternative Low Torque (BL - Blue Disc) and Medium Torque (WH - White Disc) is required, please change RD in the part number to color required (White WH or Blue BL).
These are supplied at no extra cost. Technical Data available on request.
The MJC-CS coupling can be bored out, but not keywayed.
MJC-CK Keywayed couplings can be ordered as specials, but a minimum order quantity may apply. Larger sizes MJC-80CS and MJC-95CS available. P.O.A.

MJC-30CS-RD - 8 – 10
Type
ØD1
ØD2

Features

- For use with stepper motors and some servo and general purpose motors.
- Excellent flexibility- torsional vibration can be absorbed as well as parallel and angular misalignments.
- Excellent resistance to oil, and electrical insulation.
- Can transmit generally higher torque than metallic spring couplings.
- Compression type coupling assembled by pressing an elastic polyurethane sleeve into hubs on both sides for zero backlash in low torque application.
- Can be used as a flexible coupling in high torque applications.
- Identical clockwise & counter-clockwise rotational characteristics.
- Finished bore product - models with two different end bores also in stock.
- Capscrews supplied.
- Recommended tolerance on shaft diameters is h6 and h7.
- Complete absorption of eccentricity, angularity and end-play by spring actions.

† Based on maximum shaft bores.