MINIATURE BALL COUPLINGS

HIGH-SPEED ACCOMMODATES AXIAL MOTION UP TO 15° ANGULAR OFFSET

> MATERIAL:

End Sections - 303 Stainless Steel Center Section - Nylon or 303 Stainless Steel

> FEATURES:

Allows angular and lateral misalignment and axial motion. A constant-velocity assembly. Exhibits low friction loss. Has a low moment of inertia. Will operate well at high speeds. Units with nylon centers provide electrical isolation between shafts.

> SPECIFICATIONS:

Low Backlash: 1° - 2°

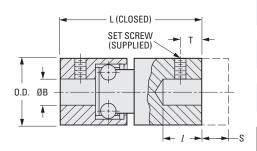
Lubrication: Molybdenum disulphide and grease

Units with other bores and/or with greater axial travel available on special order.

Angular offset under max. operating conditions is 5°.







MISALIGNMENT VS. SPEED & TORQUE					
Angular Misalignment	Speed rpm	Percentage Torque			
5°	20000	_			
6° – 10°	10000	50%			
11° – 15°	5000	66%			

MAXIMUM OPERATING CONDITIONS♦						
Torque ozf in.		Р	S	E		
0.D.	Nylon Center	Stainless Steel Center	Max. Lateral Offset	Max. Axial Motion	Axial Shaft Distance	
7/32	25	100	.02	1/8	3/8	
5/16	50	200	.03	1/8	13/32	
7/16	150	600	.05	1/8	1/2	
9/16	400	1600	.07	1/8	11/16	
1	800	3200	.07	1/8	13/16	

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Catalog Number			B Bore	<i>l</i> Depth	L	Set Screw	
Nylon Center	Stainless Steel Center	O.D.	+.001 000 (Typ)	of B (Typ)	Closed	T∆ (Typ)	Size (Typ)
_	S58PY5-MJC0207	7/32	.0625	9/64	5/8	.06	#2-56
_	S58PY5-MJC0307	7/32	.0938	9/64	5/8	.06	#2-56
_	S58PY5-MJC0407	7/32	.125	9/64	5/8	.06	#2-56
S58PZ5-MJC0310	S58PY5-MJC0310	5/16	.0938	5/32	23/32	.08	#2-56
S58PZ5-MJC0410	S58PY5-MJC0410	5/16	.125	5/32	23/32	.08	#2-56
S58PZ5-MJC0414	S58PY5-MJC0414	7/16	.125	3/16	7/8	.11	#4-40
S58PZ5-MJC0614	S58PY5-MJC0614	7/16	.1875	3/16	7/8	.11	#4-40
S58PZ5-MJC0814	S58PY5-MJC0814	7/16	.250	3/16	7/8	.11	#4-40
S58PZ5-MJC0818	S58PY5-MJC0818	9/16	.250	5/16	1-5/16	.16	#10-32
S58PZ5-MJC1018	S58PY5-MJC1018	9/16	.3125	5/16	1-5/16	.16	#10-32
S58PZ5-MJC1218	S58PY5-MJC1218	9/16	.375	5/16	1-5/16	.16	#10-32
*S58PZ5-MJC1232	*S58PY5-MJC1232	1	.375	17/32	1-7/8	.25	1/4-20
*S58PZ5-MJC1632	*S58PY5-MJC1632	1	.500	17/32	1-7/8	.25	1/4-20
*S58PZ5-MJC2032	*S58PY5-MJC2032	1	.625	17/32	1-7/8	.25	1/4-20

^{*} These couplings utilize four ball races for smoother operation and larger torque capacity.

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[△] Angular relationship between tapped holes may vary freely.