

MINIATURE BALL COUPLINGS

SDP/SI

UP TO 15° ANGULAR MISALIGNMENT
ACCOMMODATES AXIAL MOTION
HI-SPEED OPERATION

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM



> MATERIAL:

303 Stainless Steel

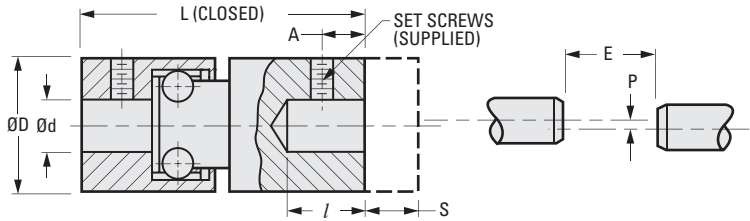
> LUBRICATION:

Molybdenum disulphide and grease

> FEATURES:

- Allows angular and lateral misalignment and axial motion
- A constant-velocity assembly
- Exhibits low friction loss
- Has a low moment of inertia
- Backlash 1° to 2°

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



Misalignment Vs. Speed & Torque		
Angular Misalignment Degrees	Speed rpm	Percentage Torque
5°	20000	100%
6° - 10°	10000	50%
11° - 15°	5000	44%

Maximum Operating Conditions [◇]				
D Dia.	Torque N • m	P Max. Lateral Offset	S Max. Axial Motion	E Axial Shaft Distance
5.6	0.7	0.5	3	9.5
7.9	1.4	0.8	3	10.3
11.1	4.2	1.3	3	12.7
14.3	11.3	1.8	3	17.5
25.4	22.6	1.8	3	20.6

[◇]Angular offset under max. operating conditions is 5°.

METRIC COMPONENT

Catalog Number	D Dia.	d Bore +0.025 0	l Typ	L Closed	Set Screw	
					A ^Δ Typ	Hex Socket Typ
S58PY5MMJC0206	5.6	2	3.6	15.9	1.5	#2-56
S58PY5MMJC0306	5.6	3	3.6	15.9	1.5	#2-56
S58PY5MMJC0308	7.9	3	4	18.3	2	#2-56
S58PY5MMJC0411	11.1	4	4.8	22.2	2.8	#4-40
S58PY5MMJC0511	11.1	5	4.8	22.2	2.8	#4-40
S58PY5MMJC0611	11.1	6	4.8	22.2	2.8	#4-40
S58PY5MMJC0614	14.3	6	7.9	33.3	4.1	#10-32
S58PY5MMJC0814	14.3	8	7.9	33.3	4.1	#10-32
S58PY5MMJC1014	14.3	10	7.9	33.3	4.1	#10-32
*S58PY5MMJC1025	25.4	10	13.5	47.6	6.4	1/4-20
*S58PY5MMJC1225	25.4	12	13.5	47.6	6.4	1/4-20
*S58PY5MMJC1425	25.4	14	13.5	47.6	6.4	1/4-20
*S58PY5MMJC1625	25.4	16	13.5	47.6	6.4	1/4-20

*These couplings utilize four ball races for smoother operation and larger torque capacity.
^ΔAngular relationship between tapped holes may vary freely.