

# MINIATURE BALL COUPLINGS

# SDPSI

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:**

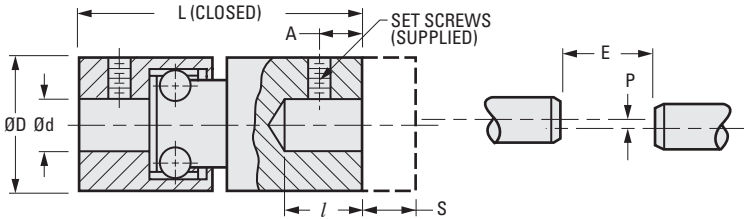
Molybdenum disulphide and grease

**> 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 <sup>◇</sup>				
D Dia.	Torque N • m	P Max. Lateral Offset	S Min. Axial Motion	E Axial Shaft Distance
5.6	0.7	0.5	3	9.5
7.9	1.4	0.8		10.3
11.1	4.2	1.3		12.7
14.3	11.3	1.8		17.5
25.4	22.6			20.6

<sup>◇</sup>Angular offset under max. operating conditions is 5°.

## METRIC COMPONENT

Catalog Number	D Dia.	d Bore +0.025 0	l Typ	L Closed 0 -1.6	Set Screw	
					A <sup>Δ</sup> Typ	Hex Socket Typ
S58PY5MMJC0206	5.6	2	3.6	15.9	1.5	#2-56
S58PY5MMJC0306		3				
S58PY5MMJC0308		3				
S58PY5MMJC0411	7.9	4	4	18.3	2	#2-56
S58PY5MMJC0511		5				
S58PY5MMJC0611		6				
S58PY5MMJC0614	11.1	6	4.8	22.2	2.8	#4-40
S58PY5MMJC0814		8				
S58PY5MMJC1014		10				
S58PY5MMJC1225	14.3	10	7.9	33.3	4.1	#10-32
S58PY5MMJC1225		12				
S58PY5MMJC1425		14				
S58PY5MMJC1625	25.4	16	13.5	47.6	6.4	1/4-20
S58PY5MMJC1625		16				

\*These couplings utilize four ball races for smoother operation and larger torque capacity.

<sup>Δ</sup>Angular relationship between tapped holes may vary freely.

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