

# SLIT TYPE MST FLEXIBLE COUPLINGS



**SET SCREW TYPE**  
**ZERO BACKLASH**  
**HIGH TORSIONAL STIFFNESS**

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

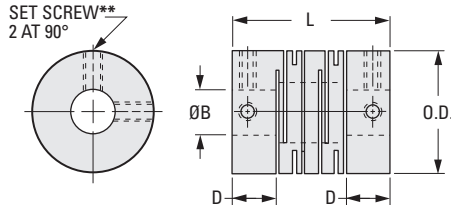
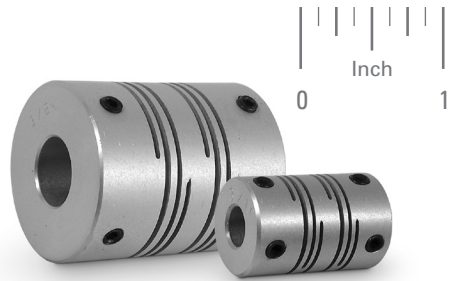
› **MATERIAL:**  
 Anodized Aluminum

› **MISALIGNMENT COMPENSATION:**  
 Max. Angular Offset: 2°

› **SPECIFICATION:**  
 Bore Tolerance: .1250 & .1875 +.0007/-.0000  
 .2500 & .3750 +.0009/-.0000  
 .5000 & .6250 +.0011/-.0000  
 .7500 +.0013/-.0000

Other bore diameter combinations and bore sizes not exceeding the maximum listed below are available on special order.

\*\* Couplings with bore diameters B of .1575 or less have one set screw at each end.



## INCH COMPONENT

Catalog Number	O.D.	B Bore	L Length	D	Set Screw	Max. Bore
** S50MST-A01P12P12	.315	.1250	.551	.138	#2-56	.1575
S50MST-A02P18P18	.472	.1875	.728	.197	#4-40	.2362
S50MST-A03P25P25	.630	.2500	.906	.256	#4-40	.3150
S50MST-A04P25P25	.787	.2500	1.024	.295	#4-40	.3937
S50MST-A04P37P37		.3750				
S50MST-A05P25P25	.984	.2500	1.220	.335	#6-32	.4724
S50MST-A05P37P37		.3750				
S50MST-A06P37P37	1.260	.3750	1.610	.472	#6-32	.6299
S50MST-A06P50P50		.5000				
S50MST-A07P50P50	1.570	.5000	2.200	.669	#10-24	.7874
S50MST-A07P62P62		.6250				
S50MST-A08P50P50	1.970	.5000	2.800	.827	1/4-20	.9843
S50MST-A08P62P62		.6250				
S50MST-A09P62P62	2.480	.6250	3.540	1.024	5/16-18	1.3780
S50MST-A09P75P75		.7500				

Coupling Series (Ref. Only)	Rated Torque lbf in.	Max. rpm	Moment of Inertia $\Delta$ oz. in. <sup>2</sup>	Static Torsional Stiffness lbf in. / deg	Max. Lateral Offset	Max. Axial Motion	Weight $\Delta$ oz.
S50MST-A01P...	.89	78000	$6.5 \times 10^{-4}$	3.86	.004	± .008	.05
S50MST-A02P...	3.54	52000	$4.5 \times 10^{-3}$	6.95	.004	± .012	.13
S50MST-A03P...	4.43	39000	$1.8 \times 10^{-2}$	12.36	.004	± .016	.29
S50MST-A04P...	8.85	31000	$4.9 \times 10^{-2}$	26.27			.49
S50MST-A05P...	17.70	25000	$1.4 \times 10^{-1}$	58.71	.006	± .020	.95
S50MST-A06P...	35.40	19000	.525	77.25			2.12
S50MST-A07P...	70.80	15000	1.750	108.15	.008	± .020	4.59
S50MST-A08P...	141.60	12000	5.467	278.10			9.18
S50MST-A09P...	283.20	10000	17.494	478.95			17.30

$\Delta$  Based on Max. Bore.

6-40  
D820

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# SLIT TYPE MST FLEXIBLE COUPLINGS



**SET SCREW TYPE**  
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**HIGH TORSIONAL STIFFNESS**

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



› **MATERIAL:**  
 Stainless Steel

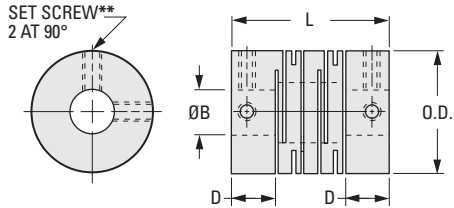
› **MISALIGNMENT COMPENSATION:**  
 Max. Angular Offset: 2°

› **SPECIFICATION:**  
 Bore Tolerance: .1250 & .1875 +.0007/-.0000  
 .2500 & .3750 +.0009/-.0000  
 .5000 & .6250 +.0011/-.0000  
 .7500 +.0013/-.0000



Other bore diameter combinations and bore sizes not exceeding the maximum listed below are available on special order.

\*\* Couplings with bore diameters B of .1575 or less have one set screw at each end.



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S50MST-S06P50P50		.5000				
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S50MST-S08P62P62		.6250				
S50MST-S09P62P62	2.480	.6250	3.540	1.024	5/16-18	1.3780
S50MST-S09P75P75		.7500				

Coupling Series (Ref. Only)	Rated Torque lbf in.	Max. rpm	Moment of Inertia $\Delta$ oz. in. <sup>2</sup>	Static Torsional Stiffness lbf in. / deg	Max. Lateral Offset	Max. Axial Motion	Weight $\Delta$ oz.
S50MST-S01P...	1.77	78000	$1.7 \times 10^{-3}$	7.724	.004	± .008	.11
S50MST-S02P...	2.66	52000	$1.1 \times 10^{-2}$	9.886	.004	± .012	.33
S50MST-S04P...	8.85	31000	$1.3 \times 10^{-1}$	38.619			1.34
S50MST-S05P...	17.70	25000	$3.7 \times 10^{-1}$	50.977	.006	± .016	2.51
S50MST-S06P...	30.98	19000	1.421	131.300		± .020	5.65
S50MST-S07P...	70.81	15000	4.756	154.480	.008	± .020	12.36
S50MST-S08P...	132.76	12000	14.761	216.270			24.71
S50MST-S09P...	309.78	10000	45.923	278.060			45.89

$\Delta$  Based on Max. Bore.

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D820

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