

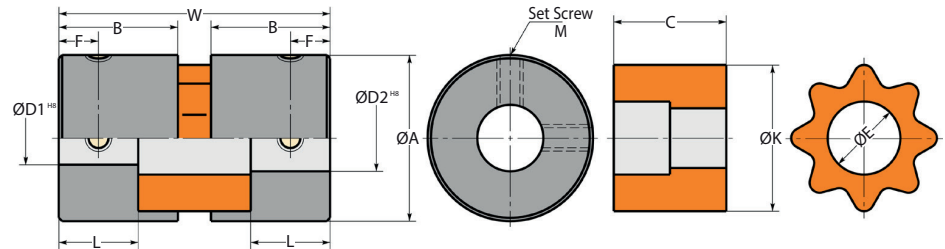
MSF

# COUPLINGS

MSF

## Flexible Insert Coupling

Polyurethane Sleeve, Set Screw Fixing : 0.5 - 6Nm, 3 - 15mm Bores



Part Number	Max Rpm	Mass** g	Moment of Inertia** kg-m <sup>2</sup>	Static Torsional Stiffness Nm/rad	Max. Parallel Offset	Max. Working Angle	Wrench Torque Nm	Rated Torque* Nm	Max Torque* Nm
MSF-16	39,000	22	9.0 X 10 <sup>-7</sup>	4.4	0.2	2°	0.7	0.5	1
MSF-20	31,000	42	2.7 X 10 <sup>-6</sup>	9.5	0.2	2°	0.7	1.0	2
MSF-25	25,000	81	8.1 X 10 <sup>-6</sup>	20.0	0.2	2°	1.7	1.5	3
MSF-32	19,000	150	2.5 X 10 <sup>-5</sup>	52.0	0.2	2°	1.7	3.0	6

Part Number	Min. Bores H8 ØD <sub>1</sub> , ØD <sub>2</sub>	Max Bores ØD <sub>1</sub> , ØD <sub>2</sub>	ØA	B	L	W	M	F	C	ØK	ØE
MSF-16	3	8	16	12	8	27	M3	4	11	14	6/6
MSF-20	5	10	20	15	10	34	M3	5	14	18	8/8
MSF-25	6	12	25	18	12	41	M4	6	17	22	10/10
MSF-32	8	15	32	21	14	48	M4	7	20	29	12/14

\* Rated and Max. Torque capacities decrease when used in high ambient temperature. See table opposite.

\*\* Moment of inertia and mass figures based on maximum shaft bores.

Working Temp. Range	Torque Correction Factor
-20°C ~ +30°C	1.00
+30°C ~ +40°C	0.80
+40°C ~ +60°C	0.70

### Materials

Hubs (MSF16-25): Zinc Alloy ZDC2 Cathodic Electrode surface treatment to meet RoHS compliance.

Hubs (MSF32): Sintered metal SMF4040 (steam treated).

Sleeve: Polyurethane.

Setscrews: SCM435 with black oxide coating (may be replaced by Stainless Steel).

### Performance

Operating Temperature Range: -20°C to +60°C.

### Extras

Also available at extra cost: Boring out - add bore size required to end of part number

e.g. MSF-16-5/6 (bored Ø5mm & Ø6mm). Blind hubs available on request.

Pin holes, tapped holes, keyways.

### Other Info

Simple construction serration type coupling transmits torque by casing sleeve engagement. Excellent flexibility, high levels of parallel and angular misalignment allowance and torsional vibration absorption. All sizes are supplied with setscrews (2 per hub except hubs with bore diameters of 4mm or less which have 1 setscrew). Simple configuration enables easy shaft alignment. Recommended tolerance on shaft diameters is h6 and h7. Excellent electrical insulation and resistance to oil and abrasion.

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