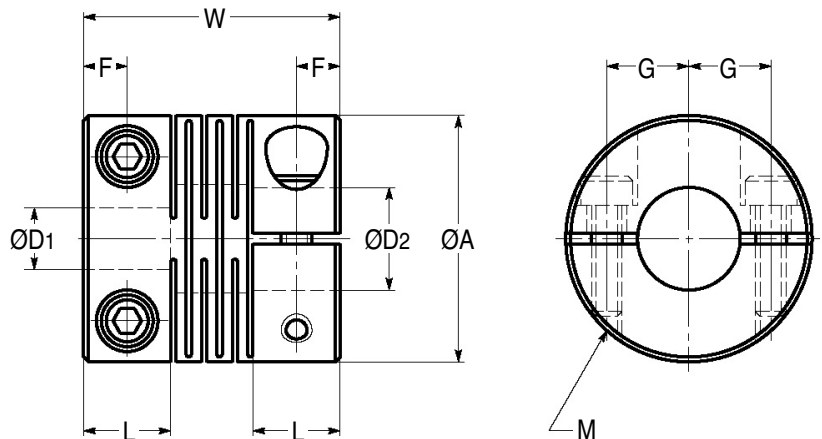


COUPLINGS

Miniature Duralumin High Strength 6 Slit Flexible Coupling Clamp Fixing

MSX-C



Discounts: 6+ -10% 16+ -15% 41+ -20% 100+ -25% 200+ -30% 400+ -35%

Part Number	Standard Bores H8 ØD1 ØD2	Max. Bore	ØA	L	W	F	G	M	Price Each 1 - 5
MSX-16C	5 5	6	16	6.0	17.4	3.00	4.74	M2	£33.28
MSX-19C	5 5	8	19	6.8	20.0	3.40	5.60	M2.5	£33.58
MSX-24C	6 6	10	24	8.5	25.0	4.25	8.00	M3	£40.34
MSX-29C	8 8	12	29	10.2	30.0	5.10	9.00	M3	£47.75
MSX-34C	10 14	16	34	12.0	35.0	6.00	11.00	M3	£57.58
MSX-39C	10 14	20	39	13.5	40.0	6.75	14.00	M4	£67.41
MSX-44C	12 12	22	44	15.5	45.0	7.75	16.00	M4	£77.23

Part Number	Wrench Torque Nm	Rated Torque Nm	Max. Torque Nm	Max. rpm min ⁻¹	Moment of Inertia kg·m ²	Static Torsional Stiffness Nm/rad	Max Parallel Offset mm	Max Angular Offset	Max Axial End-Play mm	Mass g
MSX-16C	0.5	0.5	1	39,000	2.5x10 ⁻⁷	200	0.05	0.5°	± 0.1	7
MSX-19C	1.0	1.0	2	33,000	5.8x10 ⁻⁷	270	0.05	0.5°	± 0.1	12
MSX-24C	1.5	1.5	3	26,000	1.8x10 ⁻⁶	790	0.05	0.5°	± 0.1	23
MSX-29C	1.5	2.0	4	21,000	4.7x10 ⁻⁶	1400	0.05	0.5°	± 0.1	41
MSX-34C	1.5	3.0	6	18,000	1.1x10 ⁻⁵	2200	0.05	0.5°	± 0.1	62
MSX-39C	2.5	6.0	12	16,000	2.3x10 ⁻⁵	4100	0.05	0.5°	± 0.1	88
MSX-44C	2.5	6.0	18	14,000	4.3x10 ⁻⁵	5100	0.05	0.5°	± 0.1	128

The maximum torque of the miniature coupling is two-fold of the rated torque.

Select a type in which torque generated during continuous operation does not exceed the rated torque of the miniature coupling.

Material

Extra Super Duralumin, Anodic Oxide coated

Performance

Maximum Operating Temperature: 100°C.(approx.)

Ordering

e.g.

MSX-16C - Ø5 x Ø5

Type _____
 ØD1 _____
 ØD2 _____

Options

Keyways are available on request POA.

Can be bored out for larger bore sizes.

Setscrew type also available.

Features

- Extremely high torsional stiffness, low inertia and excellent response.
- Manufactured from extra super duralumin - the highest strength aluminium alloy.
- Zero backlash.
- Absorption of parallel, angular misalignments and shaft end-play by spring action.
- Identical clockwise and anticlockwise rotational characteristics.
- Maintenance-free, oil & chemical resistant.
- Recommended tolerance on shaft diameters is h6 and h7.
- Lightweight.
- Compact.
- Ideally suited for servomotors.

Other Info.

Flexible couplings transmit torque and rotational angle while absorbing misalignment. When the misalignment exceeds allowable values, vibration may result or the life of the coupling may become shortened. Make sure to adjust the alignment accordingly.

There are three types of shaft misalignment, namely in terms of parallel misalignment, angular misalignment and shaft end-play. Adjust the alignment to be below allowable values listed in the specification table of each miniature coupling. The maximum misalignment listed within this range is the allowable value only when one of the misalignments exists. In case two or more misalignments exist at the same time, the allowable values will be less than 50% of the maximum misalignment listed in the specification tables.

Misalignments are sometimes caused not only by equipment assembly, but also by vibration, heat expansion, wear of bearings, etc during operation. Therefore, it is recommended to adjust the shaft misalignment to be below 1/2 of maximum values.

Important: Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

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Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.