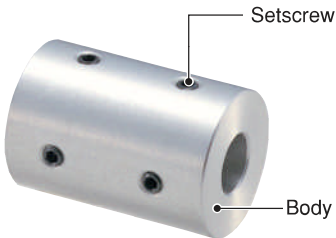


MRG

Configuration

MRG Setscrew Type



MRGS Setscrew Type



MRG-C Clamp Type



MRGS-C Clamp Type



MRG-W Split Type



MRGS-W Split Type



Material	Attachment		
	Setscrew Type	Clamp Type	Split Type
Aluminum Alloy	MRG -**	MRG -**C	MRG -**W
Stainless Steel	MRGS-**	MRGS-**C	MRGS-**W

Material & Finish

Code	MRG / MRG-C / MRG-W	MRGS / MRGS-C / MRGS-W
Body	A2017, Anodized Coating	SUS303
Setscrew	SCM435, Black Oxide Coating*	SUSXM7
Cap Screw	SCM435, Black Oxide Coating*	SUSXM7

* Stock screws can be replaced with stainless steel screws. Please take advantage of our stainless steel screw option. For more information please refer to page 16.

Features

Merits

Standard

- Light weight, minimum moment of inertia, and high response
- Also available in aluminum alloy and stainless steel
- Available in three types: setscrew type, clamp type, and split type
- Finished products featuring two different end bore diameters available in stock

Application

Servomotor	○
Stepping Motor	○
General-Purpose Motor	—
Encoder	○
Special Characteristics	
Zero Backlash	○
High Torsional Stiffness	○
High Torque	●
Allowable Misalignment	—
Vibration Absorption	—
Electrical Insulation	—
Corrosion Resistant (All Stainless Steel)	○

○: Excellent ●: Very Good

When Ordering

Specify product code and both bore diameters.

MRG-16-5×6

Product Code D₁ D₂

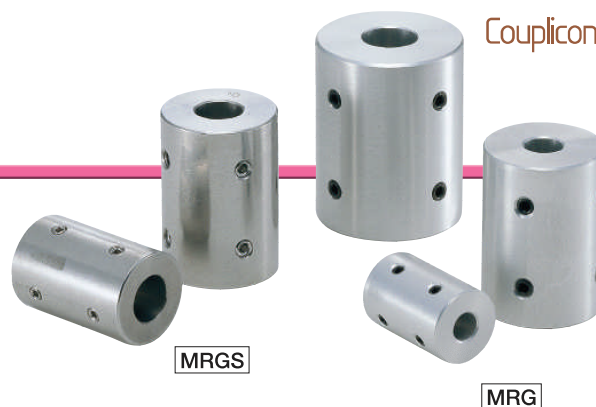
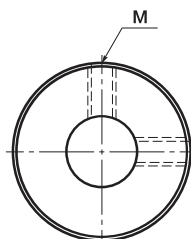
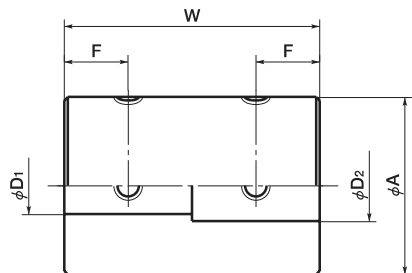
- High precision rigid coupling **XRP** is available.



XRP (P.56~P.59)

MRG MRGS Setscrew Type

CAD DATA [2D](#) [3D](#)
down load



Dimensions

MRG MRGS Setscrew Type

unit:mm

Product Code	A	W	F	M	Wrench Torque (N·m)	Stock Bore Diameters								
						D1 · D2								
						3	4	5	6	8	10	12	15	16
MRG -16	16	24	6	M3	0.7	●	●	●	●					
MRG -20	20	30	7	M3	0.7				●	●	●			
MRG -25	25	36	9	M4	1.7					●	●	●		
MRG -32	32	41	10	M4	1.7							●	●	●
MRGS-16	16	24	6	M3	0.7			●	●					
MRGS-20	20	30	7	M3	0.7				●	●	●			
MRGS-25	25	36	9	M4	1.7					●	●	●		
MRGS-32	32	41	10	M4	1.7							●	●	●

- All products come with setscrews.
- Hubs with shaft bore diameters of φ 4 or less have one setscrew.
- Recommended tolerance for shaft diameters is h6 and h7.
- Bore and keyway modifications are available on request. Please take advantage of our bore modification services. For more information please refer to pages 17~19.

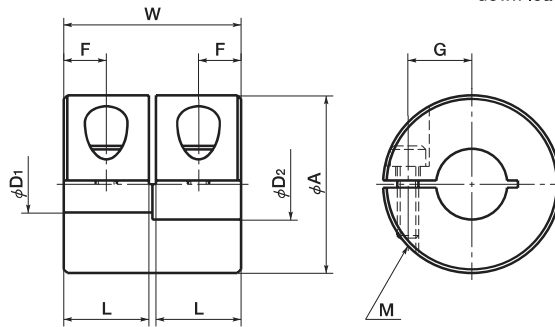
Specifications

Product Code	Max. Bore (mm)	Rated* Torque (N·m)	Max.* Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment** of Inertia (kg·m ²)	Mass** (g)
MRG -16	8	0.3	0.6	39000	4.4×10 ⁻⁷	11
MRG -20	10	0.5	1	31000	1.3×10 ⁻⁶	20
MRG -25	12	1	2	25000	3.9×10 ⁻⁶	39
MRG -32	16	2	4	19000	1.2×10 ⁻⁵	71
MRGS-16	8	0.3	0.6	39000	1.2×10 ⁻⁶	28
MRGS-20	10	0.5	1	31000	3.5×10 ⁻⁶	54
MRGS-25	12	1	2	25000	1.0×10 ⁻⁵	100
MRGS-32	16	2	4	19000	3.1×10 ⁻⁵	190

* Adjustment of rated and maximum torque specifications for load fluctuations is not required. For more detailed information, please refer to For Better Drive on page 34.
 ** Moment of inertia and mass figures based on maximum bore dimensions.

MRG-C MRGS-C Clamp Type

CAD DATA [2D](#) [3D](#)
down load



Dimensions

MRG-C MRGS-C Clamp Type

unit:mm

Product Code	A	W	L	F	G	M	Wrench Torque (N·m)	Stock Bore Diameters					
								D ₁ · D ₂					
								5	6	8	10	12	14
MRG -16C	16	16	7.5	3.75	5	M2.5	1	●	●				
MRG -20C	20	20	9.5	4.75	6.5	M2.5	1		●	●			
MRG -25C	25	25	12	6	9	M3	1.5			●	●		
MRG -32C	32	32	15.5	7.75	11	M4	2.5				●	●	●
MRGS-16C	16	16	7.5	3.75	5	M2.5	1	●	●				
MRGS-20C	20	20	9.5	4.75	6.5	M2.5	1		●	●			
MRGS-25C	25	25	12	6	9	M3	1.5			●	●		
MRGS-32C	32	32	15.5	7.75	11	M4	2.5				●	●	●

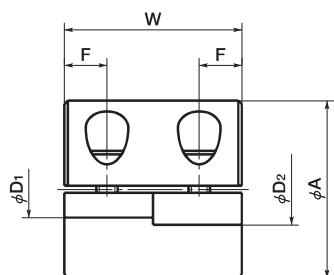
- All products come with cap screws.
- Hubs with shaft bore diameters of $\phi 4$ or less have one setscrew.
- Recommended tolerance for shaft diameters is h6 and h7.
- Bore and keyway modifications are available on request. Please take advantage of our bore modification services. For more information please refer to pages 17~19.

Specifications

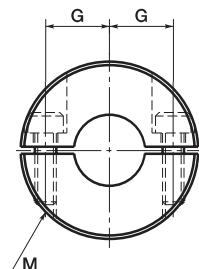
Product Code	Max. Bore (mm)	Rated* Torque (N·m)	Max.* Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment** of Inertia (kg·m ²)	Mass** (g)
MRG -16C	6	0.3	0.6	39000	3.0×10^{-7}	8.3
MRG -20C	8	0.5	1	31000	8.7×10^{-7}	15
MRG -25C	10	1	2	25000	2.7×10^{-6}	29
MRG -32C	14	2	4	19000	7.1×10^{-6}	51
MRGS-16C	6	0.3	0.6	39000	8.0×10^{-7}	22
MRGS-20C	8	0.5	1	31000	2.4×10^{-6}	41
MRGS-25C	10	1	2	25000	7.3×10^{-6}	80
MRGS-32C	14	2	4	19000	2.5×10^{-5}	160

* Adjustment of rated and maximum torque specifications for load fluctuations is not required. For more detailed information, please refer to For Better Drive on page 34.
 ** * Moment of inertia and mass figures based on maximum bore dimensions.

MRG-W | MRGS-W Split Type



CAD DATA [2D](#) [3D](#)
down load



Dimensions

MRG-W | MRGS-W Split Type

unit:mm

Product Code	A	W	F	G	M	Wrench Torque (N·m)	Stock Bore Diameters					
							D ₁ · D ₂					
							5	6	8	10	12	14
MRG -16W	16	16	4	5	M2.5	1	●	●				
MRG -20W	20	20	5	6.5	M2.5	1		●	●			
MRG -25W	25	25	6	9	M3	1.5			●	●		
MRG -32W	32	32	8	11	M4	2.5				●	●	●
MRGS-16W	16	16	4	5	M2.5	1	●	●				
MRGS-20W	20	20	5	6.5	M2.5	1		●	●			
MRGS-25W	25	25	6	9	M3	1.5			●	●		
MRGS-32W	32	32	8	11	M4	2.5				●	●	●

- All products come with cap screws.
- Hubs with shaft bore diameters of φ 4 or less have one setscrew.
- Recommended tolerance for shaft diameters is h6 and h7.
- Bore and keyway modifications are available on request. Please take advantage of our bore modification services. For more information please refer to pages 17~19.

Specifications

Product Code	Max. Bore (mm)	Rated* Torque (N·m)	Max.* Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment** of Inertia (kg·m ²)	Mass** (g)
MRG -16W	6	0.3	0.6	39000	3.2×10 ⁻⁷	8.8
MRG -20W	8	0.5	1	31000	8.7×10 ⁻⁷	15
MRG -25W	10	1	2	25000	2.7×10 ⁻⁶	29
MRG -32W	14	2	4	19000	9.3×10 ⁻⁶	61
MRGS-16W	6	0.3	0.6	39000	8.2×10 ⁻⁷	22
MRGS-20W	8	0.5	1	31000	2.4×10 ⁻⁶	41
MRGS-25W	10	1	2	25000	7.3×10 ⁻⁶	80
MRGS-32W	14	2	4	19000	2.5×10 ⁻⁵	160

* Adjustment of rated and maximum torque specifications for load fluctuations is not required. For more detailed information, please refer to For Better Drive on page 34.
 ** * Moment of inertia and mass figures based on maximum bore dimensions.