

SRG SERIES



Rigid Coupling

Structure and Material

Set-screw



SRG-no mark

Structure	Material	Surface Treatment
Body	High Strength Aluminum Alloy	Anodizing
Screw	SCM435	Black Oxide

Side-clamp



SRG-C



SRGL-C

Structure	Material	Surface Treatment
Body	High Strength Aluminum Alloy	Anodizing
Screw	SCM435	Black Oxide

Product Features & Application

- SRG Series is one-piece metal coupling with no backlash and it doesn't allow any loss of motion while transmitting.
- Because this series doesn't absorb misalignment, the allocation of shafts should be set-up in line accurately without any misalignment.

Backlash free (Precision)	☆
High Torque (Durability)	○
Torsional Stiffness	☆
Vibration Absorption	-
Misalignment Absorption	-

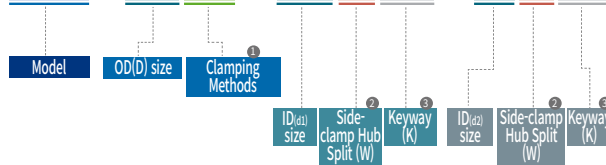
Applicable Motors	Servo	○
	Stepping	○
	Encoder	-
	General	-

Clamping Methods

Set-screw (No mark)	General	○
	With Keyway	○
Side-clamp (C)	General	○
	Hub Split	○
	With Keyway	○
Taper-ring (T)		X

How to Order

SRGL - 53 CW - 20 W K6 x 20 W K6

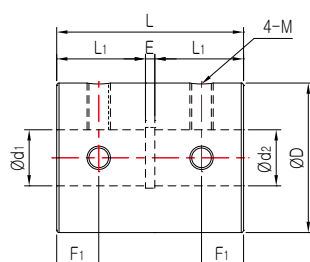


1 Clamping Methods	No mark	Set-screw
	C	General Side-clamp
	CW	Side-clamp Hub Split
2 Side-clamp Hub Split	No mark	Not Split
	W	Split
3 Keyway	No mark	No Keyway
	K(b size)	Keyway processed according to the indicated b size.

SRG SERIES

Rigid Coupling

Set-screw



Dimensions / Performance

Model	Size ($\pm 0.3\text{mm}$)					Screw		Rated Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($\text{kg}\cdot\text{m}^2$)	Mass (g)
	D	L	L ₁	E	F ₁	Size	Fastening Torque (N·m)				
SRG-16	16	22.5	10.3	2	5	M3	0.7	1	25,000	3.9×10^{-7}	10
SRG-20	20	24	11	2	5.5	M3	0.7	2.5	20,000	9.7×10^{-7}	15.4
SRG-25	25	35	16.5	2	7.5	M4	1.7	4	18,000	3.5×10^{-6}	36
SRG-32	32	40	19	2	9	M5	4	9	14,000	1.1×10^{-5}	69
SRG-43	43	52	25	2	12	M6	7	20	12,000	4.6×10^{-5}	153
SRG-53	53	66	32	2	15.5	M8	15	25	8,000	1.4×10^{-4}	316

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft. (Set-screw type is usually less durable than other clamping method, thus please consider it has a complementary option e.g. keyway along with.)

Standard Inner Diameter (ID)

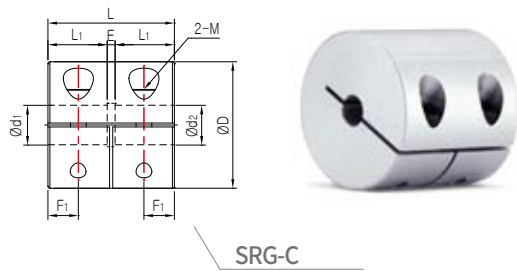
Model	Standard Inner Diameter (d_1, d_2) (mm)														
	3	4	5	6	8	10	11	12	14	15	16	18	20	22	24
SRG-16	●	●	●	●											
SRG-20		●	●	●	●	●									
SRG-25			●	●	●	●	●	●							
SRG-32				●	●	●	●	●	●	●					
SRG-43						●	●	●	●	●	●	●	●	●	●
SRG-53								●	●	●	●	●	●	●	●

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

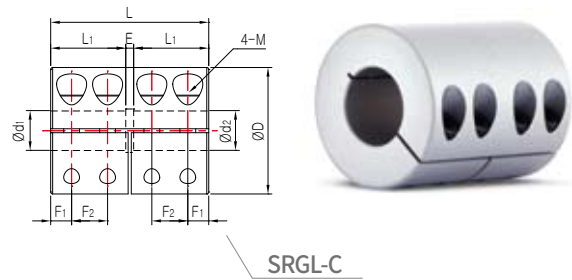
SRG SERIES

Rigid Coupling

Side-clamp



SRG-C



SRGL-C

Dimensions / Performance

SRG-C

Model	Size (±0.3mm)						Screw		Rated Torque (N·m)	Max. rpm (min ⁻¹)	Moment of Inertia (kg·m ²)	Mass (g)	Side-clamp Hub Split (W)
	D	L	L ₁	E	F ₁	F ₂	Size	Fastening Torque (N·m)					
SRG-16C	16	16	7	2	3.7	-	M2.6	1	1	18,000	2.5 × 10 ⁻⁷	6.8	○
SRG-20C	20	20	9	2	4.6	-	M2.6	1	2.5	15,000	7.5 × 10 ⁻⁷	12	○
SRG-25C	25	25	11.5	2	5.8	-	M3	1.7	4	12,000	2.3 × 10 ⁻⁶	24	○
SRG-32C	32	32	15	2	7.6	-	M4	3.5	9	10,000	8.0 × 10 ⁻⁶	52	○
SRG-43C	43	41	19.5	2	10	-	M5	8	20	8,000	3.3 × 10 ⁻⁵	114	○
SRG-53C	53	51	24.5	2	12.5	-	M6	13	25	6,000	9.2 × 10 ⁻⁵	234	○

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

SRGL-C

Model	Size (±0.3mm)						Screw		Rated Torque (N·m)	Max. rpm (min ⁻¹)	Moment of Inertia (kg·m ²)	Mass (g)	Side-clamp Hub Split (W)
	D	L	L ₁	E	F ₁	F ₂	Size	Fastening Torque (N·m)					
SRGL-16C	16	22.5	10.3	2	3	5.4	M2.6	1	1	16,000	3.4 × 10 ⁻⁷	9.3	○
SRGL-20C	20	24	11	2	3.1	5.6	M2.6	1	2.5	14,000	8.6 × 10 ⁻⁷	14	○
SRGL-25C	25	35	16.5	2	4.7	7.6	M3	1.7	4	10,000	3.2 × 10 ⁻⁶	34	○
SRGL-32C	32	40	19	2	5.3	9.1	M4	3.5	9	9,000	9.8 × 10 ⁻⁶	63	○
SRGL-43C	43	52	25	2	7	11.5	M5	8	20	7,000	4.1 × 10 ⁻⁵	141	○
SRGL-53C	53	66	32	2	9	14.5	M6	13	25	5,500	1.3 × 10 ⁻⁴	297	○

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d ₁ , d ₂) (mm)														
	3	4	5	6	8	10	11	12	14	15	16	18	20	22	24
SRG□-16C	●	●	●	●											
SRG□-20C		●	●	●	●	●									
SRG□-25C			●	●	●	●	●	●							
SRG□-32C				●	●	●	●	●	●	●					
SRG□-43C						●	●	●	●	●	●	●	●	●	●
SRG□-53C								●	●	●	●	●	●	●	●

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

SRG SERIES

Rigid Coupling

Slip Torque

- The below table shows the actual permissible torque values when the slip torque value is lower than the coupling's max. torque value.
- If the slip torque value is lower than the coupling's max. torque value, please check and compare between the slip torque in the below table and the operating torque value of the connected motor. It is safer to size up the coupling or use a key/keyway when the slip torque value is lower than the motor's operating torque.
- The below slip torque values may be subject to change according to different testing conditions. (e.g. shaft tolerance, Surface roughness, or acceleration/deceleration of driving shafts). On the other hand, the values could be affected when a different kind of fastening screw is used (body material or surface treatment). Therefore, we recommend you test under the same conditions before mounting.

Model	Rated Torque (N.m)	Slip Torque (N.m) by Inner Diameter (d_1, d_2)								
		3	4	5	6	8	10	11	12	14
SRG□-16C	1	1								
SRG□-20C	2.5		1.7	2	2.4					
SRG□-25C	4			2.6	3.2					
SRG□-32C	9				4.5	7				
SRG□-43C	20						8	8	8.5	14
SRG□-53C	25								20	

Various options for Side-clamp Hub Split available

SRG-C 1-side hub split



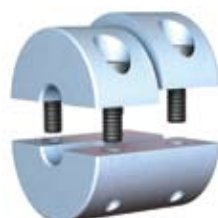
SRG-32CW-10W-14

ID 10mm : Hub Split (W)

ID 14mm : Not Split



SRG-C Both-sides hub split



SRG-32CW-10W-14W

ID 10mm : Hub Split (W)

ID 14mm : Hub Split (W)



SRGL-C 1-side hub split



SRGL-32CW-10W-14

ID 10mm : Hub Split (W)

ID 14mm : Not Split



SRGL-C Both-sides hub split



SRGL-32CW-10W-14W

ID 10mm : Hub Split (W)

ID 14mm : Hub Split (W)



SRGS SERIES



Rigid Coupling(Stainless Steel Body)

Structure and Material

Set-screw



SRGS-no mark

Structure	Material
Body	Stainless Steel
Screw	SUSXM7

Side-Clamp



SRGS-C

Structure	Material
Body	Stainless Steel
Screw	SUSXM7

Product Features & Application

- SRG Series is one-piece metal coupling with no backlash and it doesn't allow any loss of motion while transmitting.
- Because this series doesn't absorb misalignment, the allocation of shafts should be set-up in line accurately without any misalignment.
- SRGS Series is an enhanced version in terms of corrosion resistance by adopting stainless steel as its material.

Backlash free (Precision)	☆
Torsional Stiffness	☆
Vibration Absorption	-
Misalignment Absorption	-
Corrosion Resistance	☆

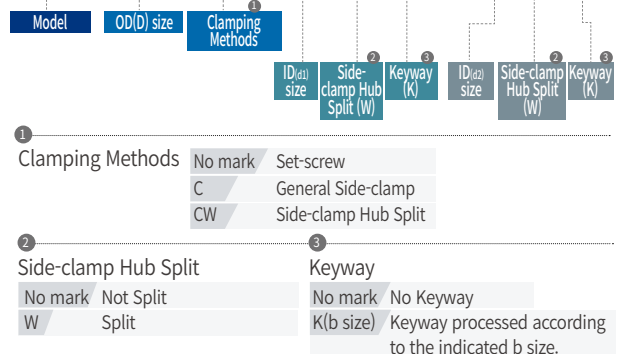
Applicable Motors	Servo	○
	Stepping	○
	Encoder	-
	General	-

Clamping Methods

Set-screw (No mark)	General	○
	With Keyway	○
Side-clamp (C)	General	○
	Hub Split	○
	With Keyway	○
Taper-ring (T)		X

How to Order

SRGS - 53 CW - 20 W K6 x 20 W K6

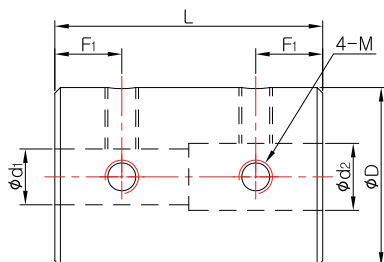


SRGS SERIES



Rigid Coupling(Stainless Steel Body)

Set-screw



Dimensions / Performance

Model	Size ($\pm 0.3\text{mm}$)			Screw		Rated Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($\text{kg}\cdot\text{m}^2$)	Mass (g)
	D	L	F ₁	Size	Fastening Torque (N·m)				
SRGS-16	16	24	6	M3	0.7	0.3	23,000	1.2×10^{-6}	28
SRGS-20	20	30	7	M3	0.7	0.5	18,000	3.5×10^{-6}	54
SRGS-25	25	36	9	M4	1.5	1	15,000	1.0×10^{-5}	100
SRGS-32	32	41	10	M4	1.5	2	12,000	3.1×10^{-5}	190

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft. (Set-screw type is usually less durable than other clamping method, thus please consider it has a complementary option e.g. keyway along with.)

Standard Inner Diameter (ID)

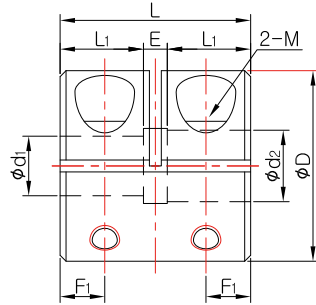
Model	Standard Inner Diameter (d_1, d_2) (mm)									
SRGS-16	3-3	3-4	3-5	3-6	4-4	4-5	4-6	5-5	5-6	6-6
SRGS-20	5-5	5-6	5-8	5-10	6-6	6-8	6-10	8-8	8-10	10-10
SRGS-25	8-8	8-10	8-11	8-12	10-10	10-11	10-12	11-11	11-12	12-12
SRGS-32	12-12	12-14	12-15	12-16	14-14	14-15	14-16	15-15	15-16	16-16

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

SRGS SERIES

Rigid Coupling(Stainless Steel Body)

Side-clamp



Dimensions / Performance

Model	Size ($\pm 0.3\text{mm}$)					Screw		Rated Torque (N·m)	Max. rpm (min^{-1})	Moment of Inertia ($\text{kg}\cdot\text{m}^2$)	Mass (g)	Side-clamp Hub Split (W)
	D	L	L ₁	E	F ₁	Size	Fastening Torque (N·m)					
SRGS-16C	16	16	7	2	3.8	M2.5	1	0.3	15,000	8.0×10^{-7}	22	○
SRGS-20C	20	20	9	2	4.8	M2.5	1	0.5	13,000	2.4×10^{-6}	41	○
SRGS-25C	25	25	11.5	2	6	M3	1.5	1	10,000	7.3×10^{-6}	80	○
SRGS-32C	32	32	15	2	7.8	M4	2.5	2	7,000	2.5×10^{-5}	160	○

- The Moment of Inertia and Mass values are based on products with max. Inner diameter.
- Max. torque/rated torque is the value regarding to a coupling's self-durability and is not related to slip-torque between the coupling bore and the shaft.

Standard Inner Diameter (ID)

Model	Standard Inner Diameter (d_1, d_2) (mm)						
SRGS-16C	5-5	5-6	6-6				
SRGS-20C	6-6	6-8	8-8				
SRGS-25C	8-8	8-10	10-10				
SRGS-32C	10-10	10-12	10-14	12-12	12-14	14-14	

- The recommended shaft tolerance is h7.
- Custom process (e.g. non-standard Inner diameter, special tolerance etc.) is also available upon a special request in prior to order placement.
- Keyway is available. (Optional)

Various options for Side-clamp Hub Split available

SRGS-C 1-side hub split



SRGS-32CW-10W-14

ID 10mm : Hub Split (W)

ID 14mm : Not Split

SRGS-C Both-sides hub split



SRGS-32CW-10W-14W

ID 10mm : Hub Split (W)

ID 14mm : Hub Split (W)

SRGF SERIES



Ultra High Stiffness Rigid Coupling (Steel Body)



Structure and Material



Structure	Material	Surface Treatment
Body	S45C (Quenching & Tempering)	Black Oxide(Optional)
Cover	S45C (Quenching & Tempering)	Black Oxide(Optional)
Screw	SCM435	Black Oxide(Optional)

Product Features & Application

Backlash free (Precision)		☆
High Torque (Durability)		☆
Torsional Stiffness		☆☆
Vibration Absorption		-
Misalignment Absorption		-
Applicable Motors	Servo	○
	Stepping	-
	Encoder	-
	General	-

- Ultra high torsional stiffness without any flexible element in the structure
- Perfect rotation balancing
- Stronger clamping force on shafts
- Design to suit servo motors for machine tools
- Accurate set-up in line required

Product Examples

- SRGF Series (Ultra High Stiffness Rigid Coupling) is processed on a **MTO(made-to-order)** basis.



Both-sided Clamping Type



One-sided Clamping Type



Sleeve Insertion Type