

# SR2 for holding and locking motion



This is a new clutch mechanism that allows you to easily lift and lower heavy objects and hold them in any position.

### BENEFIT

Control devices such as "electromagnetic clutches, actuators, and solenoids" require electrical power, however, SR2 can operate without it.

- ✓ Easy operation
- ✓ Easy installation
- ✓ Compact size
- ✓ No power required
- ✓ Competitive price

Code	Part No.	Torque [N·m] (kgf·cm)	Rotational Direction	
			Input	Output
380201	SR2-01-10KR	1.25 (12.7)	Bi-Direction	One Direction (CCW)
380202	SR2-02-10KL	1.25 (12.7)	Bi-Direction	One Direction (CW)

### DURABILITY

Durability	10,000 cycles
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#### Test Condition

- Locked Torque : 1.25 N·m
- Distance : 1 m
- Speed : 60 r.p.m
- Number of cycles : 10,000 cycles (Up & Down)

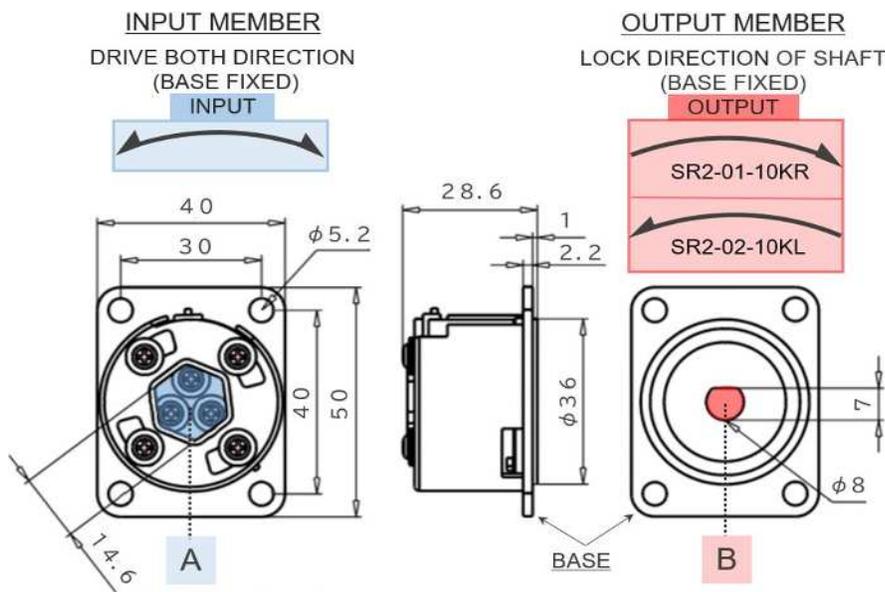
### OPERATION TEMPERATURE

Operation Temperature [°C] (°F)
0 ~40°C (32~104°F)

### MAIN MATERIALS

Part Name	Material
Input Member	Zinc Die Casting
Output Member	Zinc Die Casting
Fixed Member	Plastics
Spring	Piano wire

### DIMENSIONS



SR2-01-10KR		
	Input Rotation	Output Function
A	CW	B is followed
	CCW	B is followed
B	CW	<b>B is locked</b> A is not followed
	CCW	A is followed

SR2-02-10KL		
	Input Rotation	Output Function
A	CW	B is followed
	CCW	B is followed
B	CW	A is followed
	CCW	<b>B is locked</b> A is not followed

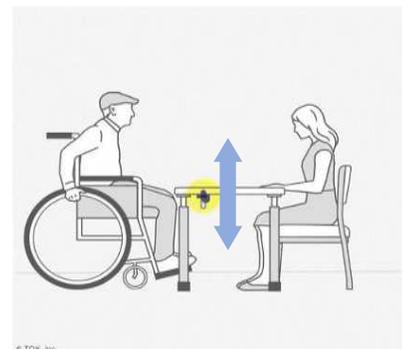
### APPLICATION IMAGES

#### 【Holding and Locking Motion】

- Lifting and lowering heavy objects
- Fixable at any position
- Easy operation



Height adjustable laundry pole



Height adjustable table

### TOK, Inc.

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CAD Data Download

<https://bit.ly/2wZm5th>



Product lineup



Features

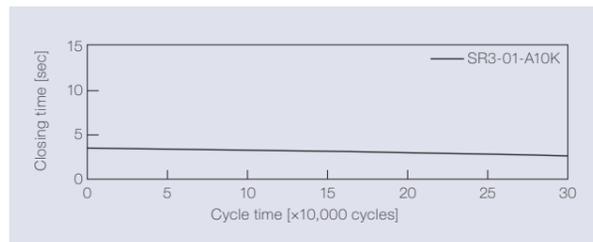
- Automatic torque adjustment (Applicable to 1 N·m or smaller)
- Small variation in closing time
- Durable for 300,000 cycles

Product name	Torque [N·m] (lbf·in)	Damping direction
SR3-01-A10K	1.0 (8.85)	CW

Product name	Torque [N·m] (lbf·in)	Damping direction
SR3-02-B10K	1.0 (8.85)	CCW

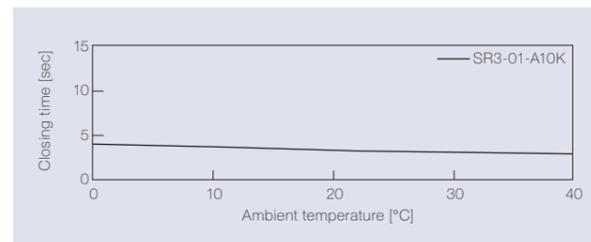
Product specifications

Durability



Torque	1.0 N·m (8.85 lbf·in)
Radial load	N/A
Angle range of closing time	70 to 0 deg.
Temperature	23 ± 2°C (73.4 ± 35.6°F)
Durability	300,000 cycles

Temperature characteristics



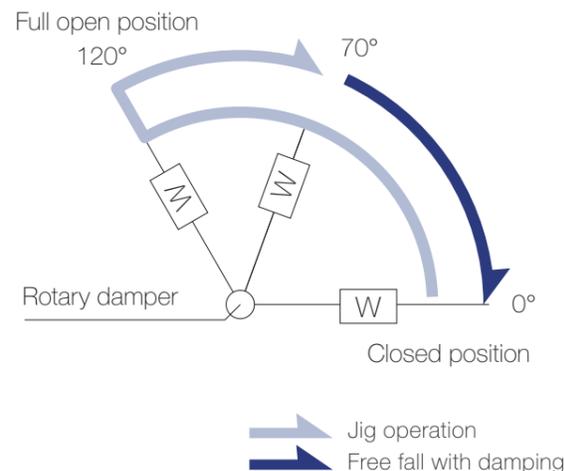
Measured according to the performance management testing method shown below after leaving in each designated ambient temperature for over one hour.

Performance management testing method

As the torque of partial rotation angle dampers is not consistent, the closing time measurement jig is used for the performance tests.

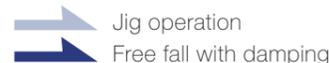
[Operation during measurement]  
(Secures the housing of a rotary damper and moves its shaft)  
All rotary dampers are managed by the following closing time test.

Test mode [120° → 70° (Pause) → (Free fall with damping) → 0°]  
\* Horizontal plane: 0°

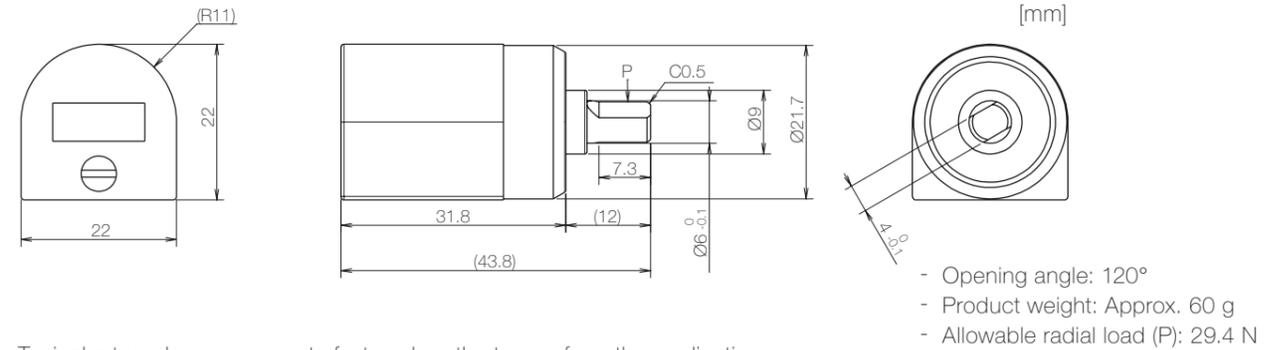


Inspection specification before shipping

Type	Preset torque [N·m] (lbf·in)	Closing time
10K	1.0 (8.85)	1.5 to 6 sec



Product information



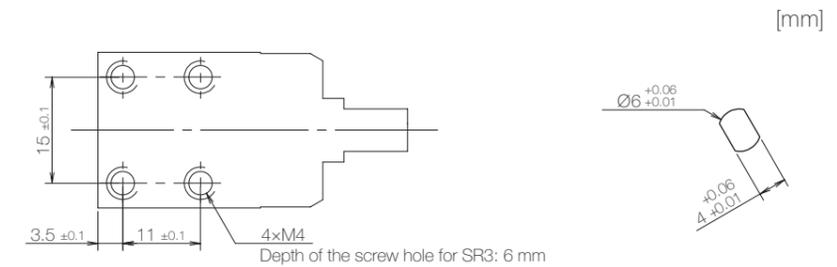
Typical rotary dampers operate faster when the torque from the application is higher than the preset torque and slower when the torque from the application is lower than the preset torque. However, SR3 maintains a constant damping speed through automatic torque adjustment.

Main materials

Housing	Zinc alloy (ZDC)
Cap	Zinc alloy (ZDC)
Shaft	Stainless steel (SUS)
Screw	Zinc alloy (ZDC)

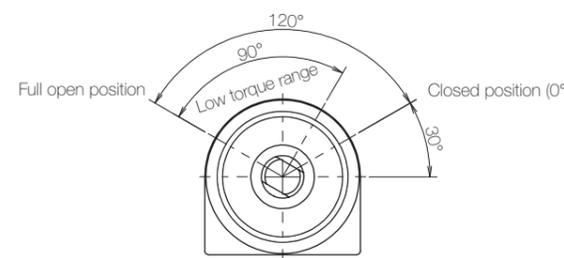
\* General tolerance: ±0.2

Dimensions related to mounting

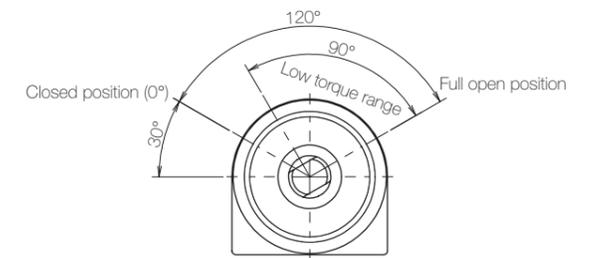


Opening angle

SR3-01-A



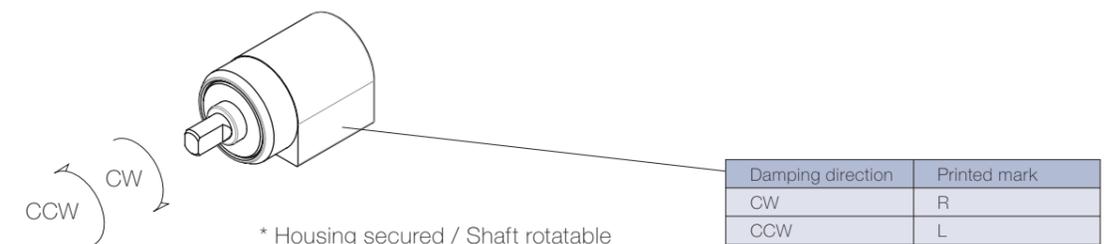
SR3-02-B



\* Shaft position at the time of shipping: Closed position

Damping directions

Rotation directions of the shaft to which torque is applied



\* Housing secured / Shaft rotatable

# SRX for easy attaching and detaching device

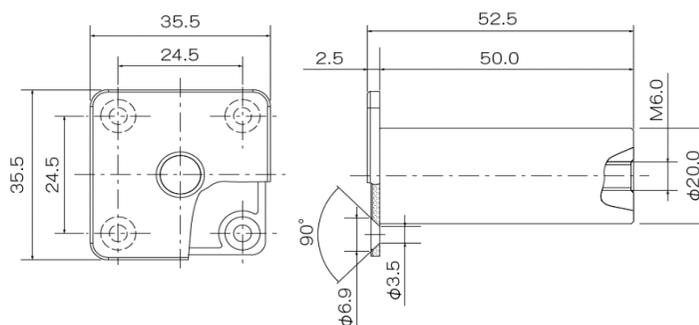


### BENEFIT

- Easy installation
- Can be used in places where replacement is frequently required
- Simple design that is easy to use anywhere

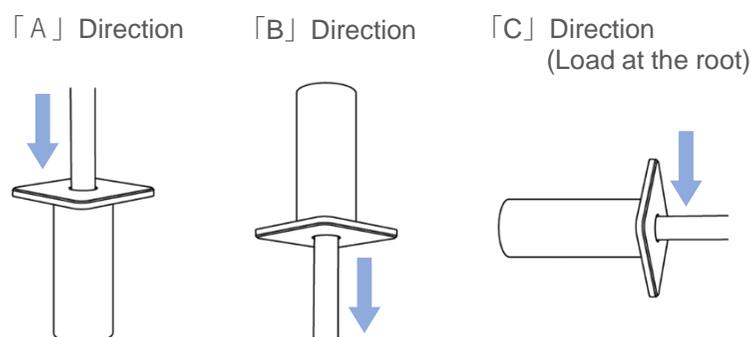
### APPLICATION

- Replacing signboard parts
- Removable store display



Code	Part No.	Allowable load [N]			Durability [Cycle]	Operation Temperature [°C] (°F)
		「A」 Direction	「B」 Direction	「C」 Direction		
381001	SRX-01	100	50	50	50,000	-10 to 50 (14 to 122°F)

### ALLOWABLE LOAD



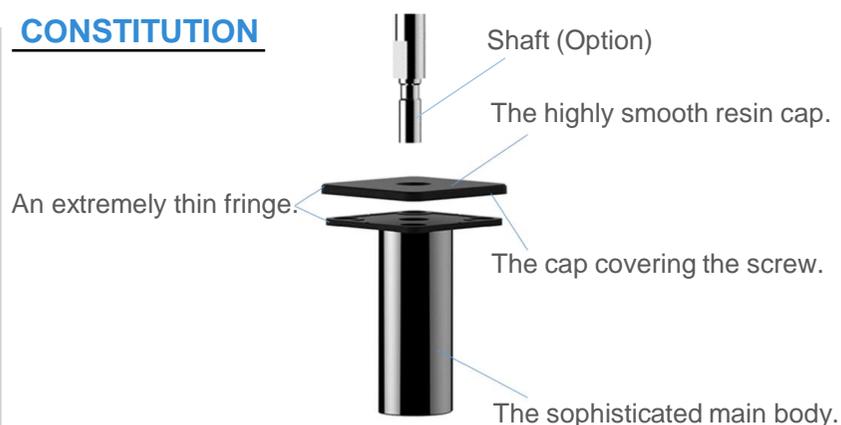
### DURABILITY TEST CONDITION

Cycle	1 attach and detach / cycle
Load	Allowable load

### MAIN MATERIAL

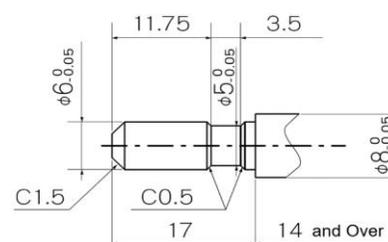
Part name	Material
Housing	Zinc Die Casting
Cap	Plastics
Cover	Plastics

### CONSTITUTION



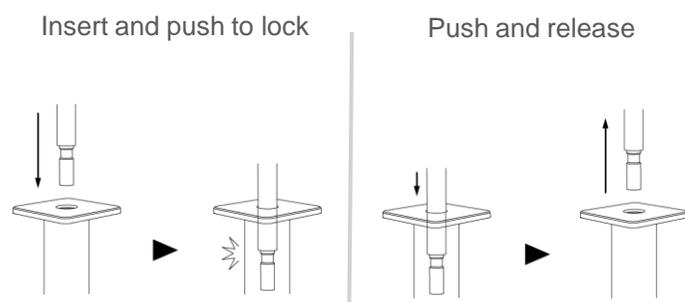
### SHAFT SIZE

Dimensions of detaching shaft component



\* You can purchase the shaft as an option.

### How to use



### MOUNTING



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 URL : www.tok-inc.com/en

CAD Data Download

Product  
<https://bit.ly/2UO54d5>



Option  
<https://bit.ly/2V0yPZP>



# SR12 for holding and locking motion



This is a new clutch mechanism that allows you to easily lift and lower heavy objects and hold them in any position.

**BENEFIT**

Control devices such as "electromagnetic clutches, actuators, and solenoids" require electrical power, however, SR12 can operate without it.

- ✓ Higher torque type than SR2
- ✓ Easy operation
- ✓ Compact size
- ✓ Easy installation
- ✓ No power required
- ✓ Competitive price

Code	Part No.	Torque [N·m] (kgf·cm)	Rotational Direction	
			Output	Input
381201	SR12-01-125KR	12.5 (127.4)	One Direction	Bi-Direction

**DURABILITY**

Durability	5,000 cycles
Test Condition	
• Locked Torque	: 12.5 N·m
• Number of cycles	: 5,000 cycles
• Operation cycle	: CW [60 min <sup>-1</sup> / 10 rotation] >> 2 sec stop >> CCW [5 min <sup>-1</sup> / 1 rotation] >> 2 sec stop

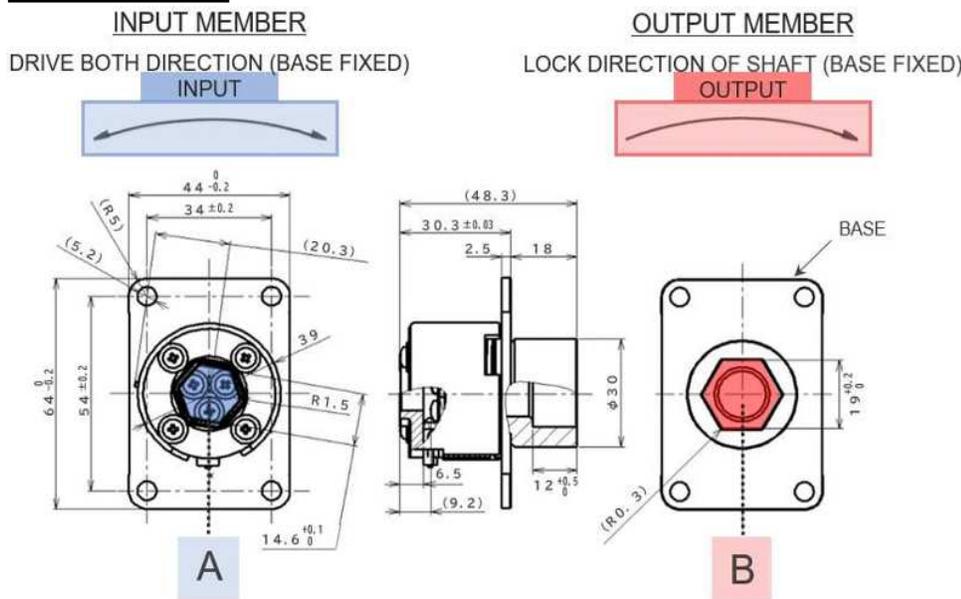
**OPERATION TEMPERATURE**

Operation Temperature [°C] (°F)
-20 ~60°C (-4~140°F)

**MAIN MATERIALS**

Part Name	Material
Input Member	Zinc Die Casting
Output Member	Zinc Die Casting
Fixed Member	Zinc Die Casting
Spring	Piano wire

**DIMENSIONS**

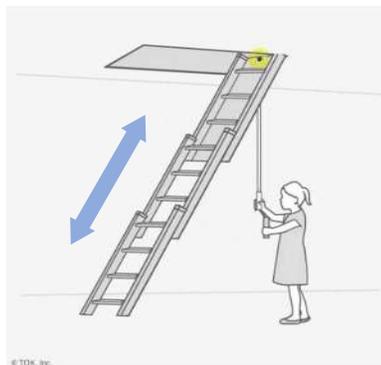


SR12-01-125KR		
	Input Rotation	Output Function
A	CW	B is followed
	CCW	B is followed
B	CW	<b>B is locked</b> A is not followed
	CCW	A is followed

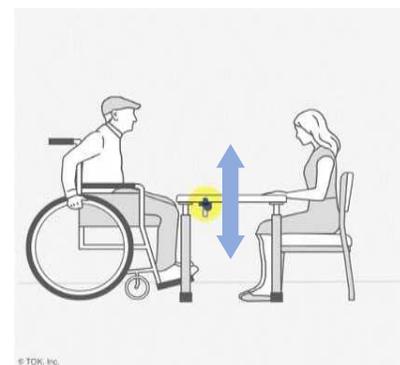
**APPLICATION IMAGES**

**【Holding and Locking Motion】**

- Lifting and lowering heavy objects
- Fixable at any position
- Easy operation



Holding and locking motion



Height adjustable table

