



SERVO FLEX SFS-S/W/G Instruction Manual

Before use of a product, you read this "instruction manual" well, and use it correctly.

1. Before Using	P1
2. Safety Precautions	P2
3. Handling	P4
4. Specification	P7
5. Frictional locking system with a built in flang	P8

1. Before Using

1-1 After opening the package

First, investigate the following point.

- 1) Verify that you received exactly what you ordered.
- 2) Check the products are free from deformation or any damages on transport.

If there are any problems, please contact the company where you purchased the product.

1-2 Structure and Parts

2 Flange Hubs, Spacer and Embodied membrane pack (Element) are assembled by Reamer Bolts.

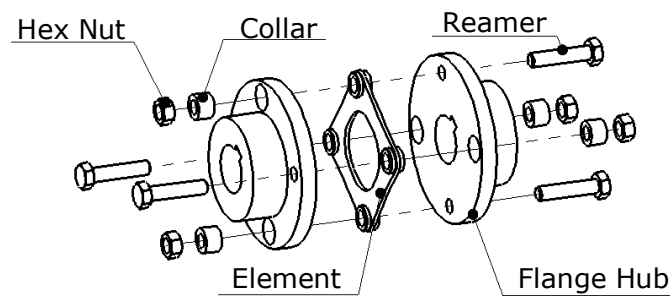


Fig1 SFS-C

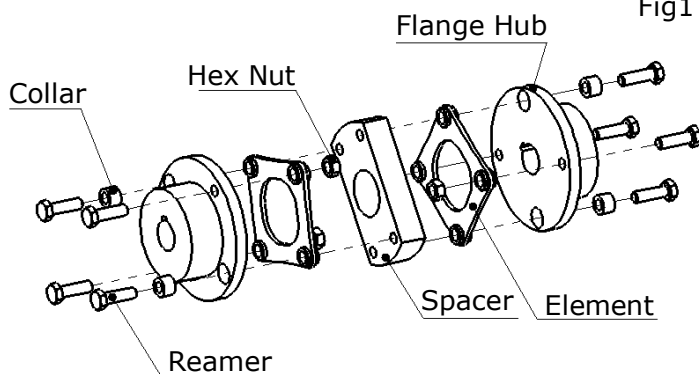


Fig2 SFS-W

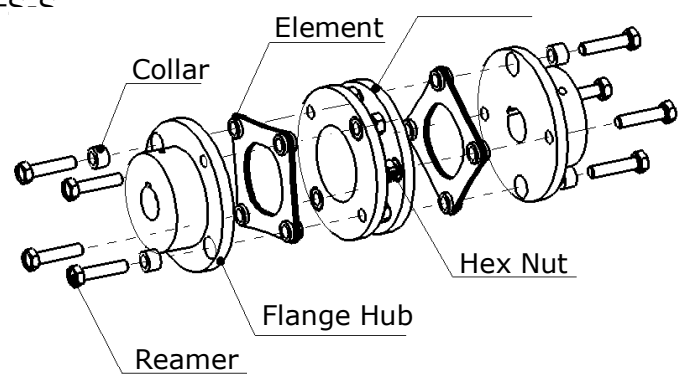


Fig3 SFS-G

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1-3 Assemble

Check the quantity of each part white parts delivery, prior to assembly.

Component parts and its quantity are as in a table.

SFS-S

Table 1

Part	Model						
	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
Element	1	1	1	1	1	1	1
Flange Hub	2	2	2	2	2	2	2
Collar	4	4	4	4	4	4	4
Reamer	4-M5 × 22	4-M6 × 25	4-M6 × 29	4-M8 × 36	4-M8 × 36	4-M10 × 45	4-M12 × 54
Hex Nut	4-M5	4-M6	4-M6	4-M8	4-M8	4-M10	4-M12

SFS-W/G

Table 2

Part	Model						
	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
Element	2	2	2	2	2	2	2
Flange Hub	2	2	2	2	2	2	2
Spacer	1	1	1	1	1	1	1
Collar	4(8)	4(8)	4(8)	4(8)	4(8)	4(8)	4(8)
Reamer	8-M5 × 15 (8-M5 × 22)	8-M6 × 18 (8-M6 × 25)	8-M6 × 20 (8-M6 × 29)	8-M8 × 27 (8-M8 × 36)	8-M8 × 27 (8-M8 × 36)	8-M10 × 32 (8-M10 × 45)	8-M12 × 38 (8-M12 × 54)
Hex Nut	4-M5 (8-M5)	4-M6 (8-M6)	4-M6 (8-M6)	4-M8 (8-M8)	4-M8 (8-M8)	4-M10 (8-M10)	4-M12 (8-M12)

* Denotes the value of SFS-G

2. Safety Precautions

Please read carefully through the instruction manual and the technical information for proper use and safety. In this manual, safety precautions are classified by "DANGER" and "CAUTION".

	DANGER	When death or serious injury may result by mishandling
	CAUTION	When disability or only physical damage may result by mishandling

Equipment use (atomic energy, aerospace, medical treatment, transportation, or various safety devices) that may result in serious bodily injury or loss of life directly by mechanical failure or mishandling, careful examination is necessary. Contact us for further information. The company has taken all possible measures to produce a quality product; however, continuous rotational states when the clutch can not be disengaged or coasting of the machine when the brakes went off is envisioned as emergency. Please pay attention to safety measures in case anything goes wrong.

DANGER

Structural precautions

	Touching the product during operation could cause injury. Place a safety cover to avoid any accident. Additionally, set up a safety mechanism for quick stop of the product when opening the cover.
	Do not use the product near flammable liquids or in the presence of gas and other explosive air particles.
	The driven and driving sides could be completely detached when the product is damaged. Set up a safety mechanism such as a safety brake to avoid any danger.

Mounting precautions

	Depending on the tightening adjustment of bolt or screw, exceptionally dangerous situations such as product damage or performance degradation could occur. Always use a calibrated torque wrench and clamp at the tightening torque specified by Miki Pulley.
	It is very dangerous if the driving part starts by accident while mounting the product. Be sure that the main power of the equipment is turned off.

Cautions during operation

	If the product is used in excess of more than its maximum rated permissible speed, very dangerous product damage could occur by a large vibration.
	Due to the exposed rotor, touching the product during operation may cause injury. Make sure not to touch the product during operation.
	Using the product with more than the "maximum permissible misalignment" could cause damage or adverse effect on the equipment. Always operate the product within the specified "maximum permissible misalignment."

Cautions for maintenance and inspection

	It is extremely dangerous if the driving part starts operating by accident while dismounting the product. Make sure that the main power of the equipment is off.
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Cautions for disposal

	Do not leave the product around where young children may play.
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CAUTION

Structural precautions Please



Do not use the product in an environment where chemicals may spill, humidity is high, or in hot or cold temperature.

Mounting precautions



The installation of the product must be performed within the specified maximum permissible error. Using the product with more than the maximum permissible error could cause damage or adverse effect on the equipment.



Using a bolt or screw that is not specified by our company could damage the product. Do not use any bolt or screw unspecified.



To avoid any injury by stripping, spring pin or keyway, make sure to wear protective equipment such as safety glasses or gloves.



Lifting of a heavy weight could cause back injury. Use a hoist when carrying or mounting the product.

Cautions during operationIf



Using the product with more than the specified permissible transmitting torque could cause damage or adverse effect on the equipment.



If abnormal noises or vibrations occur during operation, improper mounting should be considered. Do not leave the situation as it is. It may cause damage to the equipment itself. Also, for reasons other than above, the belts and other screws may loosen or become defective even if the product is mounted correctly.



Using the product when the locking part is in a slip condition could over heat the product, which could cause damage to the equipment.

Cautions for maintenance and inspection



We will refuse to take responsibility as to the damaged product that is dismantled, remodeled or repaired by a third party except our company and the designated company. Therefore, for the product that the assembly process or procedure of dismantlement is described in the manual, we will not be responsible as well. Please use our service network for repair and dismantlement.

Cautions for disposal



Call for a waste-control-collection company for disposal.

3. Handling

3-1 Caution of transport

- 1) Treat so as not to damage the product on a transport.
- 2) Do not apply excessive power to the products.

3-2 Operating environment

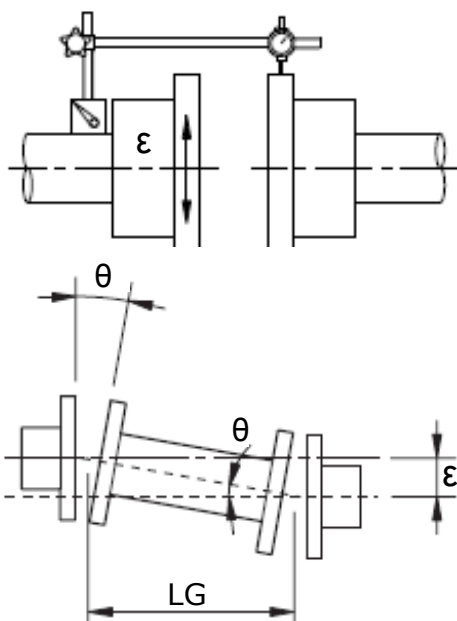
- 1) Do not use the product in a hot, humid, or dusty environment.
- 2) Do not use the product beyond the specified operating ambient temperature range.

3-3 Centering method

Parallel Offset (ε)

Fix the dial gauge on one side of the shaft and read the run-out of the outer periphery of the outer flange while rotating the shaft.

The models (SFS-S and SS types) with one pair of elements (plate springs) do not allow parallel offset and should be moved close to 0. For Models whose full length can be set freely (SFS-G type), use the following formula to calculate the permissible parallel offset values.



$$\varepsilon = \tan \theta \times LG$$

ε : Permissible parallel offset

θ : 1°

$$LG = LS + S$$

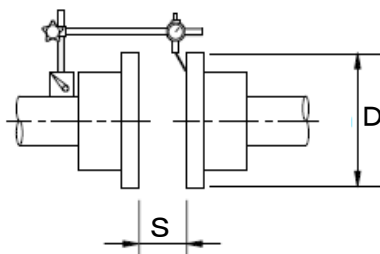
LS : Full length of space

S : Dimension between flange on one side and spacer

Angular Misalignment (θ)

Fix the dial gauge on one side of the shaft and read the run-out of the end surface near the outer periphery of the other flange while rotating the shaft.

Adjust run-out B so that ($\theta \leq 1^\circ$) can be accomplished.



$$B = D \times \tan \theta$$

B : Run-out

D : Flange outer diameter

θ : 1°

Axial Displacement (S)

The face-to-face dimension between flange hubs (S) must be within the permissible error of the axial displacement in the basic value. However, the value is allowable when the parallel offset and angular misalignment are assumed to be 0 (zero). Adjust to achieve them to be as small as possible.

*The S dimension of SFS-S/SS is a dimension between two flange hubs. The S dimension of SFS-W/G/DS is a dimension between a flange and a spacer.

3-4 Installation procedure

(1) Wipe off the rust, the dust, and oil adhering to an axis with cloth.

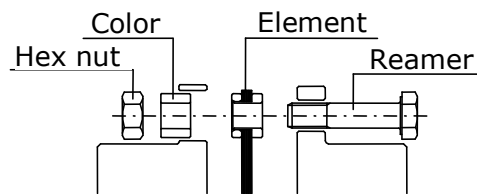
In particular, grease containing extreme pressure additives and molybdenum disulfide to reduce the coefficient of friction is completely wiped off using a thinner.

(2) To tighten the reamer bolt, please use a calibrated torque wrench at the tightening torque as shown in the table below for all the bolts.

Coupling size	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
Tightening torque[N·m]	8	14	14	34	34	68	118

(3) SFS-□□S/G

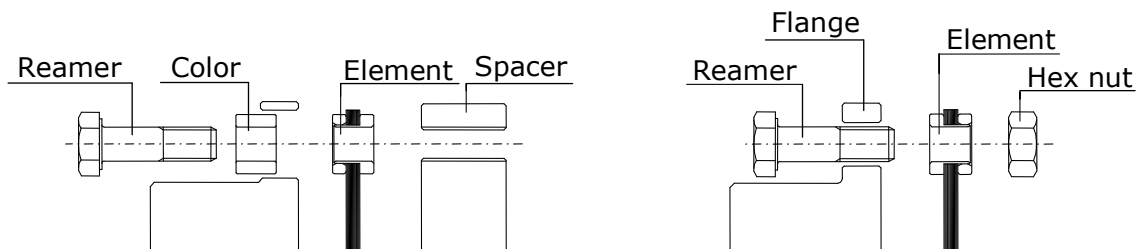
When installation the Element and the Flange hub(Spacer), put a color between elements and hex nut, buckle your Reamer.



SFS-□□W

When you attach an element, a flange hub, and a spacer, put in color between an element and a reamer bolt and tightening a reamer bolt.

* When attaching only an element and a flange hub, don't need color.

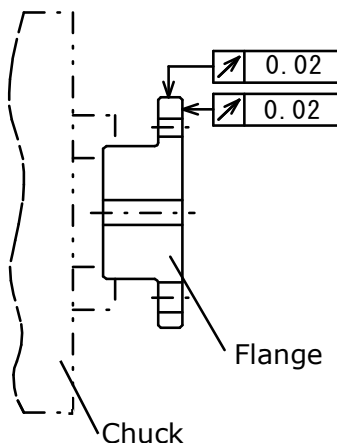


* Don't decompose the element by any means.

* Don't apply the power more than needed to an element at the time of an assembly, attachment, and removal. When force is applied, the element is fixed in the deflection state, affect the accuracy of rotation.

* Be sure to install a safe cover after attachment. It will become a cause of an injury if it touches during operation.

* Boring, please processing with respect to the outer diameter hub flange.



4. Specification

4-1 Explained of the specification table

- 1) The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.
- 2) Maximum speed does not consider Dynamic balance.
- 3) In a special type case, check delivery specifications.

4-2 SFS-□□S standard specification

Table 3

Model	Permissible torque [N.m]	Max.rotation speed [min ⁻¹]	Max.permissible misalignment		Mass [kg]
			Angular misalignment [°]	Axial displacement [mm]	
SFS-05S	20	25000	1	±0.6	0.30
SFS-06S	40	20000	1	±0.8	0.50
SFS-08S	80	17000	1	±1.0	1.00
SFS-09S	180	15000	1	±1.2	1.40
SFS-10S	250	13000	1	±1.4	2.10
SFS-12S	450	11000	1	±1.6	3.40
SFS-14S	800	9500	1	±1.8	4.90

4-3 SFS-□□W standard specification

Table 4

Model	Permissible torque [N.m]	Max.rotation speed [min ⁻¹]	Max.permissible misalignment			Mass [kg]
			Parallel offset [mm]	Angular misalignment [°]	Axial displacement [mm]	
SFS-05W	20	10000	0.2	1(one side)	±1.2	0.40
SFS-06W	40	8000	0.3	1(one side)	±1.6	0.70
SFS-08W	80	6800	0.3	1(one side)	±2.0	1.30
SFS-09W	180	6000	0.5	1(one side)	±2.4	2.10
SFS-10W	250	5200	0.5	1(one side)	±2.8	2.80
SFS-12W	450	4400	0.6	1(one side)	±3.2	4.90
SFS-14W	800	3800	0.7	1(one side)	±3.6	7.10

4-4 SFS-□□G standard specification

Table 5

Model	Permissible torque [N.m]	Max.rotation speed [min ⁻¹]	Max.permissible misalignment			Mass [kg]
			Parallel offset [mm]	Angular misalignment [°]	Axial displacement [mm]	
SFS-05G	20	20000	0.5	1(one side)	±1.2	0.50
SFS-06G	40	16000	0.5	1(one side)	±1.6	0.90
SFS-08G	80	13000	0.5	1(one side)	±2.0	1.70
SFS-09G	180	12000	0.6	1(one side)	±2.4	2.40
SFS-10G	250	10000	0.6	1(one side)	±2.8	3.30
SFS-12G	450	8000	0.8	1(one side)	±3.2	5.80
SFS-14G	800	7000	0.9	1(one side)	±3.6	8.60

4-5 The size between flange faces (S dimension)

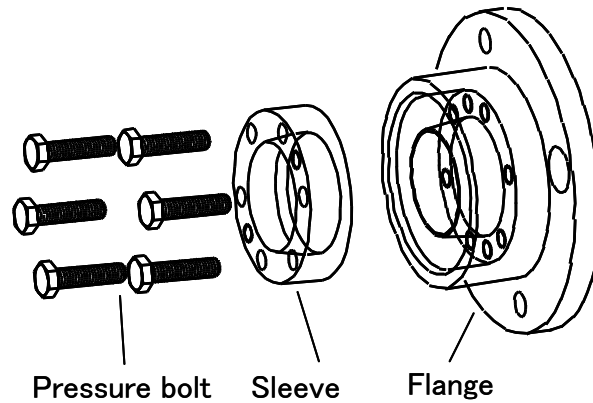
Table 6

Coupling size	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
S dimension [mm]	5	6	6	8	10	11	12

5. Frictional locking system with a built in flang

5-1 Construction

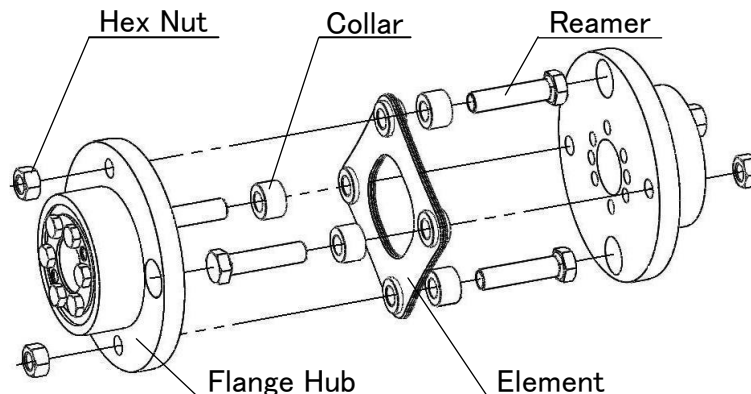
MP hub (Friction lock element built-in) is composed of flange, sleeve and clamp bolt.



5-2 Assembling method

Flange is stepped shape by internal diameter.

Stepped flange shape, because has a structure can't be inserted into the bolt, bolt and assemble by inserting a color first.



5-3 Notes

1) Sleeve, tapered, bolt pressure, not wipe off grease.

2) Wipe off the rust, the dust, and oil adhering to an axis with cloth.

In particular, grease containing extreme pressure additives and molybdenum disulfide to reduce the coefficient of friction is completely wiped off using a thinner.

3) Tolerance of outside diameter for mating shaft is class h7.

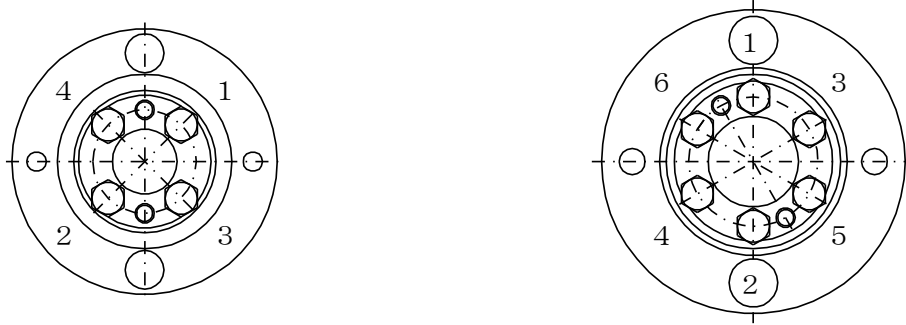
But the tolerance of shaft diameter at $\phi 35$ is specified as below.

$\phi 35 \begin{matrix} +0.010 \\ -0.025 \end{matrix}$
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4) The surface roughness of the mating shaft, the finish below Ra1.6.

5-4 Mounting

- 1) Loosen the pressure bolt of the flange, please ensure that the sleeve is in a free state.
- 2) Loosen the bolts in advance, and the sleeve flange to insert the axis in the free state.
Inner diameter flange is deformed to interfere taper sleeve and a flange, the shaft will not turn on.
- 3) Lightly until the conclusion of the shaft flange, rice evenly tighten (sequential from 1) a pressurized bolt diagonally.
Thereafter, until the predetermined tightening torque of all bolts with a torque wrench pressure, please tighten evenly.



Clamping Bolt Size	M5 × 20	M6 × 24	M8 × 25
Tightening torque [N.m]	8	14	34

5-5 Mounting procedure

- 1) Since a flange part is a self locking mechanism, it cannot remove, even if it loosens a pressurization bolt.
At this time, because doing so can damage the body axis and forcibly removing, Stop it absolutely.
- 2) Loosen a pressurization bolt in diagonal line until the bearing surface of a pressurization bolt and the crevice between sleeves are set to about 2 mm.
- 3) Is canceled by screwing in the bolt using a sleeve or the screw hole for removal of a flange.
(The bolt for removal should use the commercial item of a pressurization bolt or the following size.)

Remove Bolt Size	M5 × 18	M6 × 18	M8 × 18
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MIKI PULLEY

<http://www.mikipulley.co.jp/>

Contact by email

Please contact us using the inquiry form and be aware that support for inquiries received on Saturdays, Sundays, holidays, New Year's, and summer business holidays will be provided on the next business day.

Contact by phone

Japanese/English

Miki Pulley International Business Department

TEL +81-46-257-5109



SERVO FLEX

SFS-S/W/G-C

Instruction Manual

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1.Before Using

1-1 After opening the package

First, investigate the following point.

- 1) Verify that you received exactly what you ordered.
- 2) Check the products are free from deformation or any damages on transport.

If there are any problems, please contact the company where you purchased the product.

1-2 Structure and Parts

2 Flange Hubs, Spacer and Embodied membrane pack (Element) are assembled by Reamer Bolts.

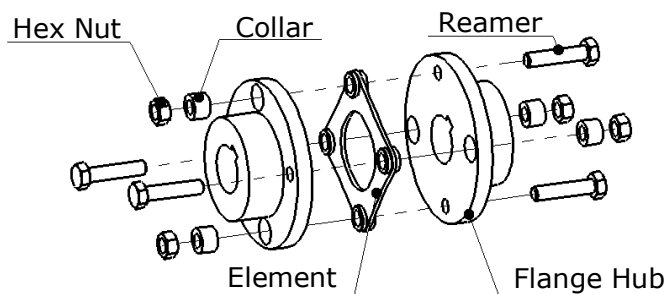


Fig1 SFS-S-C

Surface treatment: Electroless Nickel Plating
 Flange Hub material: Equivalent of S45C
 Spacer material: W: Equivalent of SS400
 G: Carbon steel
 Element material: Plate spring: SUS304
 Collar: Equivalent of S45C
 Reamer material: SCM435

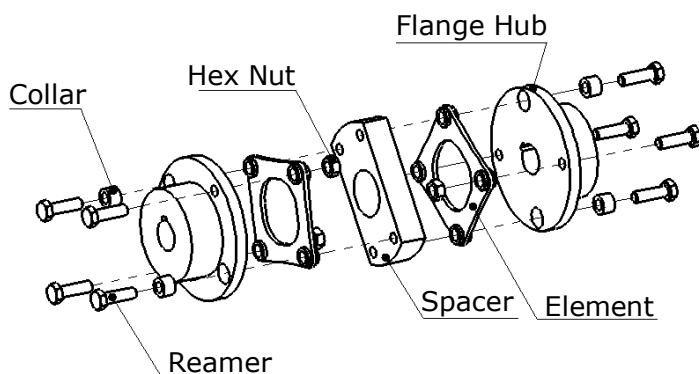


Fig2 SFS-W-C

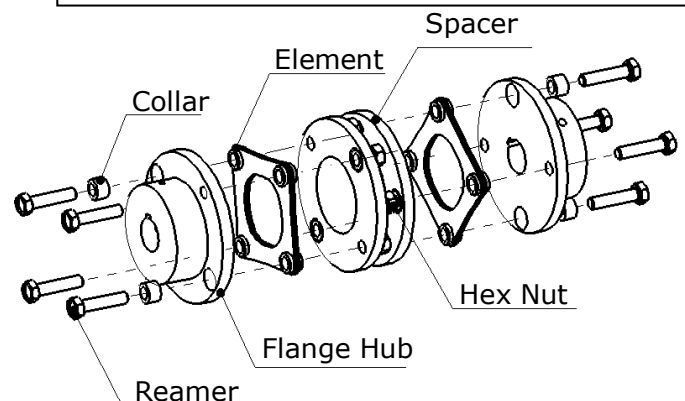


Fig3 SFS-G-C

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1-3 Assemble

Check the quantity of each part white parts delivery, prior to assembly.

Component parts and its quantity are as in a table.

SFS-S

Table 1

Part	Model						
	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
Element	1	1	1	1	1	1	1
Flange Hub	2	2	2	2	2	2	2
Collar	4	4	4	4	4	4	4
Reamer	4-M5 × 22	4-M6 × 25	4-M6 × 29	4-M8 × 36	4-M8 × 36	4-M10 × 45	4-M12 × 54
Hex Nut	4-M5	4-M6	4-M6	4-M8	4-M8	4-M10	4-M12

SFS-W/G

Table 2

Part	Model						
	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
Element	2	2	2	2	2	2	2
Flange Hub	2	2	2	2	2	2	2
Spacer	1	1	1	1	1	1	1
Collar	4(8)	4(8)	4(8)	4(8)	4(8)	4(8)	4(8)
Reamer	8-M5 × 15 (8-M5 × 22)	8-M6 × 18 (8-M6 × 25)	8-M6 × 20 (8-M6 × 29)	8-M8 × 27 (8-M8 × 36)	8-M8 × 27 (8-M8 × 36)	8-M10 × 32 (8-M10 × 45)	8-M12 × 38 (8-M12 × 54)
Hex Nut	4-M5 (8-M5)	4-M6 (8-M6)	4-M6 (8-M6)	4-M8 (8-M8)	4-M8 (8-M8)	4-M10 (8-M10)	4-M12 (8-M12)

* Denotes the value of SFS-G

2. Safety Precautions

Please read carefully through the instruction manual and the technical information for proper use and safety. In this manual, safety precautions are classified by "DANGER" and "CAUTION".

	DANGER	When death or serious injury may result by mishandling
	CAUTION	When disability or only physical damage may result by mishandling

Equipment use (atomic energy, aerospace, medical treatment, transportation, or various safety devices) that may result in serious bodily injury or loss of life directly by mechanical failure or mishandling, careful examination is necessary. Contact us for further information. The company has taken all possible measures to produce a quality product; however, continuous rotational states when the clutch can not be disengaged or coasting of the machine when the brakes went off is envisioned as emergency. Please pay attention to safety measures in case anything goes wrong.

DANGER

Structural precautions

	Touching the product during operation could cause injury. Place a safety cover to avoid any accident. Additionally, set up a safety mechanism for quick stop of the product when opening the cover.
	Do not use the product near flammable liquids or in the presence of gas and other explosive air particles.
	The driven and driving sides could be completely detached when the product is damaged. Set up a safety mechanism such as a safety brake to avoid any danger.

Mounting precautions

	Depending on the tightening adjustment of bolt or screw, exceptionally dangerous situations such as product damage or performance degradation could occur. Always use a calibrated torque wrench and clamp at the tightening torque specified by Miki Pulley.
	It is very dangerous if the driving part starts by accident while mounting the product. Be sure that the main power of the equipment is turned off.

Cautions during operation

	If the product is used in excess of more than its maximum rated permissible speed, very dangerous product damage could occur by a large vibration.
	Due to the exposed rotor, touching the product during operation may cause injury. Make sure not to touch the product during operation.
	Using the product with more than the "maximum permissible misalignment" could cause damage or adverse effect on the equipment. Always operate the product within the specified "maximum permissible misalignment."

Cautions for maintenance and inspection

	It is extremely dangerous if the driving part starts operating by accident while dismantling the product. Make sure that the main power of the equipment is off.
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Cautions for disposal

	Do not leave the product around where young children may play.
---	--

CAUTION

Structural precautions Please

	Do not use the product in an environment where chemicals may spill, humidity is high, or in hot or cold temperature.
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Mounting precautions

	The installation of the product must be performed within the specified maximum permissible error. Using the product with more than the maximum permissible error could cause damage or adverse effect on the equipment.
---	---

	Using a bolt or screw that is not specified by our company could damage the product. Do not use any bolt or screw unspecified.
	To avoid any injury by stripping, spring pin or keyway, make sure to wear protective equipment such as safety glasses or gloves.
	Lifting of a heavy weight could cause back injury. Use a hoist when carrying or mounting the product.
Cautions during operation	
	Using the product with more than the specified permissible transmitting torque could cause damage or adverse effect on the equipment.
	If abnormal noises or vibrations occur during operation, improper mounting should be considered. Do not leave the situation as it is. It may cause damage to the equipment itself. Also, for reasons other than above, the belts and other screws may loosen or become defective even if the product is mounted correctly.
	Using the product when the locking part is in a slip condition could over heat the product, which could cause damage to the equipment.
Cautions for maintenance and inspection	
	We will refuse to take responsibility as to the damaged product that is dismantled, remodeled or repaired by a third party except our company and the designated company. Therefore, for the product that the assembly process or procedure of dismantlement is described in the manual, we will not be responsible as well. Please use our service network for repair and dismantlement.
Cautions for disposal	
	Call for a waste-control-collection company for disposal.

3. Handling

3-1 Caution of transport

- 1) Treat so as not to damage the product on a transport.
- 2) Do not apply excessive power to the products.

3-2 Operating environment

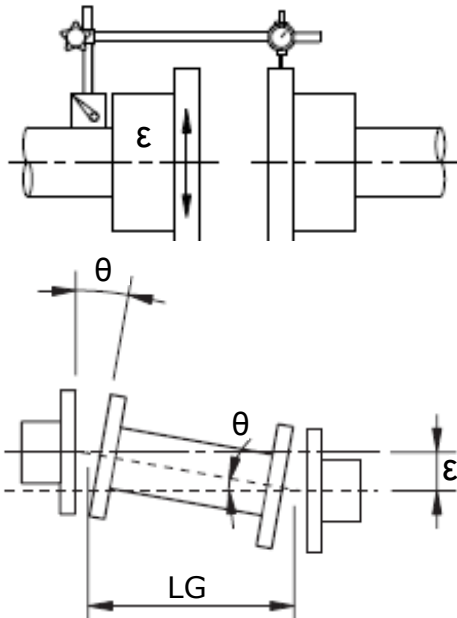
- 1) Do not use the product in a hot, humid, or dusty environment.
- 2) Do not use the product beyond the specified operating ambient temperature range.

3-3 Centering method

Parallel Offset (ϵ)

Fix the dial gauge on one side of the shaft and read the run-out of the outer periphery of the outer flange while rotating the shaft.

The models (SFS-S and SS types) with one pair of elements (plate springs) do not allow parallel offset and should be moved close to 0. For Models whose full length can be set freely (SFS-G type), use the following formula to calculate the permissible parallel offset values.



$$\epsilon = \tan \theta \times LG$$

ϵ : Permissible parallel offset

θ : 1°

$$LG = LS + S$$

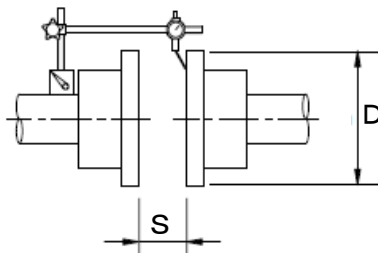
LS : Full length of space

S : Dimension between flange on one side and spacer

Angular Misalignment (θ)

Fix the dial gauge on one side of the shaft and read the run-out of the end surface near the outer periphery of the other flange while rotating the shaft.

Adjust run-out B so that ($\theta \leq 1^\circ$) can be accomplished.



$$B = D \times \tan \theta$$

B : Run-out

D : Flange outer diameter

θ : 1°

Axial Displacement (S)

The face-to-face dimension between flange hubs (S) must be within the permissible error of the axial displacement in the basic value. However, the value is allowable when the parallel offset and angular misalignment are assumed to be 0 (zero). Adjust to achieve them to be as small as possible.

*The S dimension of SFS-S/SS is a dimension between two flange hubs. The S dimension of SFS-W/G/DS is a dimension between a flange and a spacer.

3-4 Installation procedure

(1) Wipe off the rust, the dust, and oil adhering to an axis with cloth.

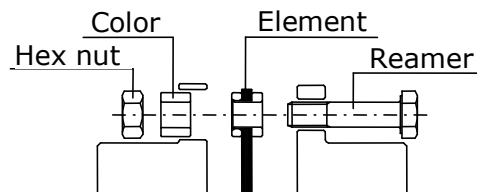
In particular, grease containing extreme pressure additives and molybdenum disulfide to reduce the coefficient of friction is completely wiped off using a thinner.

(2) To tighten the reamer bolt, please use a calibrated torque wrench at the tightening torque as shown in the table below for all the bolts.

Coupling size	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
Tightening torque[N·m]	6	11	11	26	26	51	90

(3) SFS-□□S/G

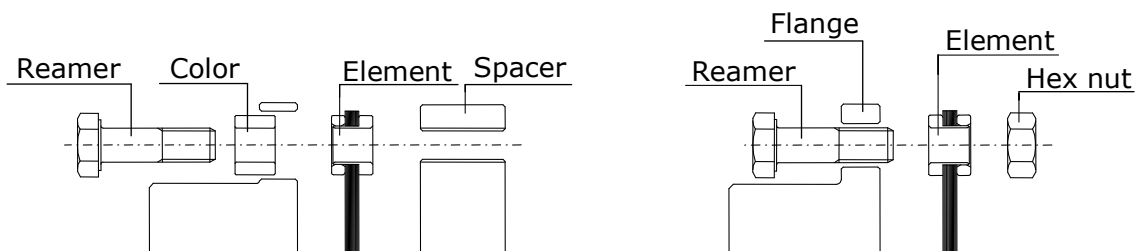
When installation the Element and the Flange hub(Spacer), put a color between elements and hex nut, buckle your Reamer.



SFS-□□W

When you attach an element, a flange hub, and a spacer, put in color between an element and a reamer bolt and tightening a reamer bolt.

* When attaching only an element and a flange hub, don't need color.

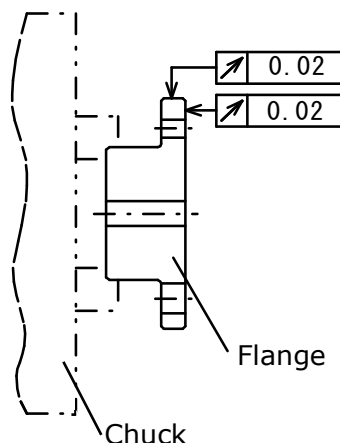


* Don't decompose the element by any means.

* Don't apply the power more than needed to an element at the time of an assembly, attachment, and removal. When force is applied, the element is fixed in the deflection state, affect the accuracy of rotation.

* Be sure to install a safe cover after attachment. It will become a cause of an injury if it touches during operation.

* Boring, please processing with respect to the outer diameter hub flange.



4. Specification

4-1 Explained of the specification table

- 1) The indicated values in the moment of inertia and mass are measured with the maximum bore diameter.
- 2) Maximum speed does not consider Dynamic balance.
- 3) In a special type case, check delivery specifications.

4-2 SFS-□□S standard specification

Table 3

Model	Permissible torque [N.m]	Max.rotation speed [min ⁻¹]	Max.permissible misalignment		Mass [kg]
			Angular misalignment [°]	Axial displacement [mm]	
SFS-05S	15	25000	1	±0.6	0.30
SFS-06S	30	20000	1	±0.8	0.50
SFS-08S	60	17000	1	±1.0	1.00
SFS-09S	135	15000	1	±1.2	1.40
SFS-10S	190	13000	1	±1.4	2.10
SFS-12S	340	11000	1	±1.6	3.40
SFS-14S	600	9500	1	±1.8	4.90

4-3 SFS-□□W standard specification

Table 4

Model	Permissible torque [N.m]	Max.rotation speed [min ⁻¹]	Max.permissible misalignment			Mass [kg]
			Parallel offset [mm]	Angular misalignment [°]	Axial displacement [mm]	
SFS-05W	15	10000	0.2	1(one side)	±1.2	0.40
SFS-06W	30	8000	0.3	1(one side)	±1.6	0.70
SFS-08W	60	6800	0.3	1(one side)	±2.0	1.30
SFS-09W	135	6000	0.5	1(one side)	±2.4	2.10
SFS-10W	190	5200	0.5	1(one side)	±2.8	2.80
SFS-12W	340	4400	0.6	1(one side)	±3.2	4.90
SFS-14W	600	3800	0.7	1(one side)	±3.6	7.10

4-4 SFS-□□G standard specification

Table 5

Model	Permissible torque [N.m]	Max.rotation speed [min ⁻¹]	Max.permissible misalignment			Mass [kg]
			Parallel offset [mm]	Angular misalignment [°]	Axial displacement [mm]	
SFS-05G	15	20000	0.5	1(one side)	±1.2	0.50
SFS-06G	30	16000	0.5	1(one side)	±1.6	0.90
SFS-08G	60	13000	0.5	1(one side)	±2.0	1.70
SFS-09G	135	12000	0.6	1(one side)	±2.4	2.40
SFS-10G	190	10000	0.6	1(one side)	±2.8	3.30
SFS-12G	340	8000	0.8	1(one side)	±3.2	5.80
SFS-14G	600	7000	0.9	1(one side)	±3.6	8.60

4-5 The size between flange faces (S dimension)

Table 6

Coupling size	SFS-05	SFS-06	SFS-08	SFS-09	SFS-10	SFS-12	SFS-14
S dimension [mm]	5	6	6	8	10	11	12

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