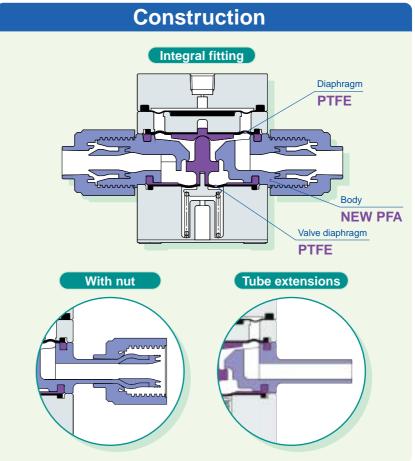




Clean Regulator/Fluoro Resin Type

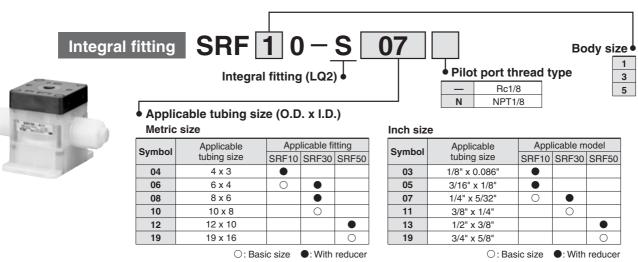




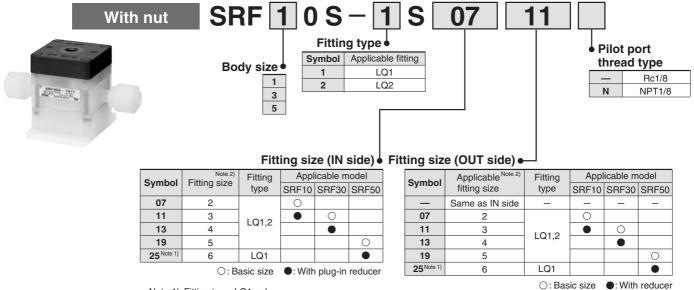


Clean Regulator/Fluoro Resin Type Series SRF

How to Order

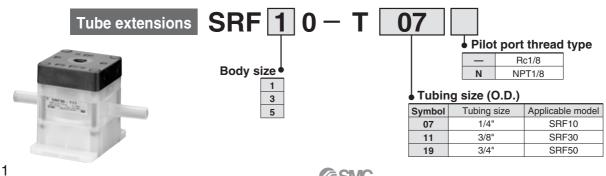


Note) Tubing size is interchangeable by replacing the reducer insert bushing nut.



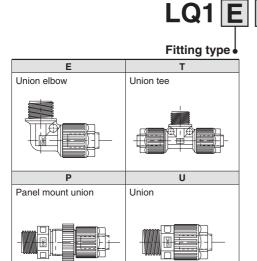
Note 1) Fitting type: LQ1 only

Note 2) Refer to How to Order (LQ□□-S) on page 2 for applicable fittings without nut (LQ type). Select fittings of the same type and size as the one fitted to the regulator side.



How to Order Fitting for Model with Nut

How to order fitting for model such as Clean Regulator/Series **SRF**□**0S**, when one nut (including insert bushing) of the nuts is not attached.



Union tee

Union

One nut (including insert bushing) of the nuts is not attached. Please refer to below Ordering example.

Applicable tubing size

Class	No.	Applicable tubing size (mm)	Reducing
2	1	6 x 4	0
2	2	4 x 3	
3	1	10 x 8	0
3	2	8 x 6	
3	3	6 x 4	
4	1	12 x 10	0
4	2	10 x 8	
5	1	19 x 16	0
5	2	12 x 10	
6	1	25 x 22	0
6	2	19 x 16	

Class	No.	Applicable tubing size (inches)	Reducing
2	Α	1/4" x 5/32"	0
2	В	3/16" x 1/8"	•
2	С	1/8" x 0.086"	
3	Α	3/8" x 1/4"	0
3	В	1/4" x 5/32"	
4	Α	1/2" x 3/8"	0
4	В	3/8" x 1/4"	•
5	Α	3/4" x 5/8"	0
5	В	1/2" x 3/8"	•
6	Α	1" x 7/8"	0
6	В	3/4" x 5/8"	•

○: Basic size ●: With reducer

Note 1) Select fittings of the same size as the one fitted to the regulator side.



Fitting type

 One nut (including insert bushing) of the nuts is not attached. Please refer to below Ordering example.

Class	No.	Applicable tubing size (mm)	Reducing
2	1	6 x 4	0
2	2	4 x 3	•
3	1	10 x 8	0
3	2	8 x 6	
3	3	6 x 4	•
4	1	12 x 10	0
4	2	10 x 8	
5	1	19 x 16	0
5	2	12 x 10	

Class	No.	size (inches)	Reducing
2	Α	1/4" x 5/32"	0
2	В	3/16" x 1/8"	•
2	С	1/8" x 0.086"	•
3	Α	3/8" x 1/4"	0
3	В	1/4" x 5/32"	•
4	Α	1/2" x 3/8"	0
4	В	3/8" x 1/4"	•
5	Α	3/4" x 5/8"	0
5	В	1/2" x 3/8"	

Applicable tubing

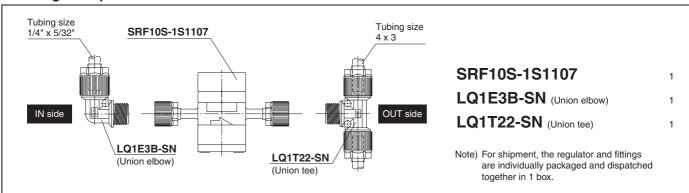
○: Basic size ●: With reducer

Note 1) Select fittings of the same size as the one fitted to the regulator side.

Ordering example

Union elbow

Panel mount union

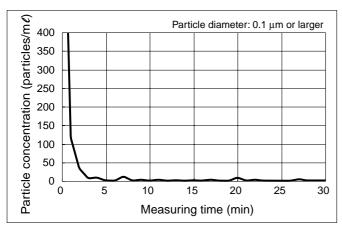




Specifications

	Model	SRF10 SRF30 SRF50				
Proof pr	essure		1.0 MPa			
Maximu	m operating pressure		0.5 MPa			
Set pres	sure range	0.02 to 0.4 MPa				
Maximum o	perating pressure (pilot pressure)	0.5 MPa				
Fluid		Pure water, N ₂				
Ambient	and fluid temperature	5 to 60°C				
Valve lea	akage	10 cm ³ /min or less (fluid: water)				
Tubing		0.08	0.24	1.2		
Weight (kg)	Integral fittings	0.10	0.00	4.0		
(9)	With nut	0.10	0.28	1.3		

Particulate Generation Characteristics



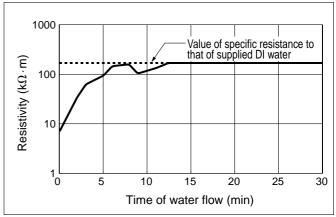
OTest method and conditions

Particle counters were installed before and after the test sample. The amount of particle generated from the sample is determined by the difference in output values from each counter.

Flow rate of supplied DI water: 100 me/min

Model: SRF30

Flow-through Characteristics



OTest method and conditions

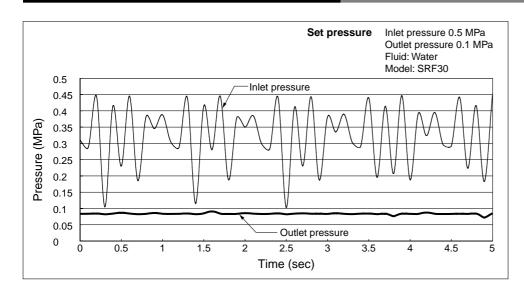
The liquid contact portions were filled with sulphuric acid and left untouched for half an hour.

After the sulphuric acid was drained, the wetted parts are filled with DI water. The specific resistance of the liquid discharged from the outlet side of the sample was measured and recorded.

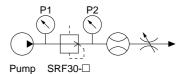
Model: SRF30

*Data provided in this section is just one example of the actually measured values. Application examples illustrated in this flyer do not guarantee the result of applicable use of this product.

Pressure Fluctuation (Reference value)



○ Test circuit/Conditions



Clean Regulator/Fluoro Resin Type Series SRF

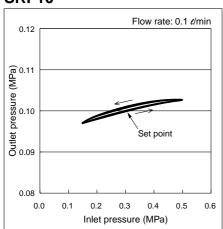
Pressure Characteristics

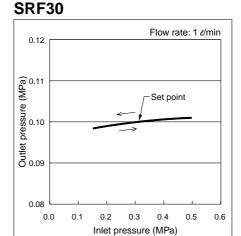
Set pressure

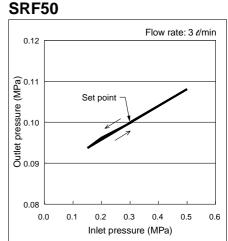
Inlet pressure 0.3 MPa

Outlet pressure 0.1 MPa Fluid: Water

SRF10



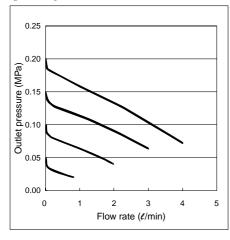




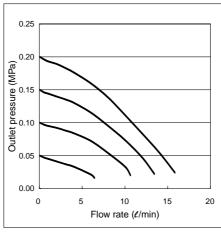
Flow Characteristics

Inlet pressure: 0.3 MPa Fluid: Water

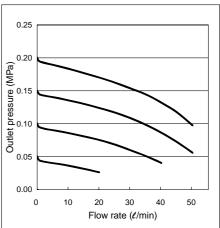
SRF₁₀







SRF50

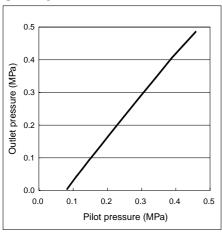


Input/Output Characteristics

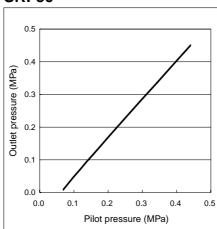
Inlet pressure: 0.5 MPa Flow rate: 0 t/min (ANR)

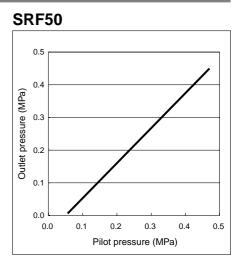
Fluid: Air

SRF10



SRF30

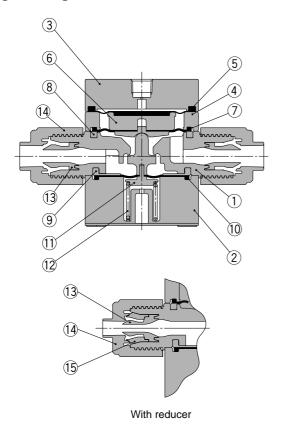




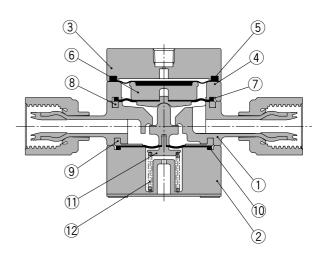


Construction/SRF10, 30

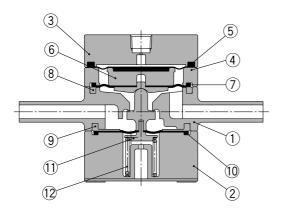
Integral fitting



With nut



Tube extensions



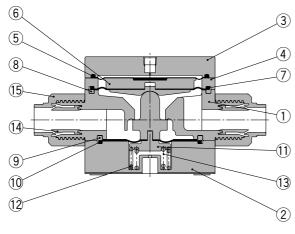
Parts list

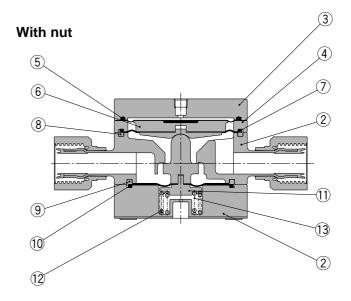
No.	Description	Material	Note
1	Body	New PFA	
2	Valve guide	PVDF	
3	Bonnet	PPS	
4	Spacer	PVDF	
5	Pilot diaphragm	FKM	
6	Diaphragm support	PP	
7	Withstand pressure diaphragm B	FKM	
8	Diaphragm	PTFE	
9	Valve diaphragm	PTFE	
10	Withstand pressure diaphragm A	FKM	
11	Spring holder	Stainless steel 304	Fluoro resin coating
12	Valve spring	Stainless steel 304	Fluoro resin coating

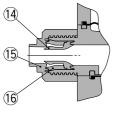
No.	Description	Material	Note
13	Insert bushing	New PFA	
14	Nut	New PFA	
15	Collar	New PFA	

Construction/SRF50

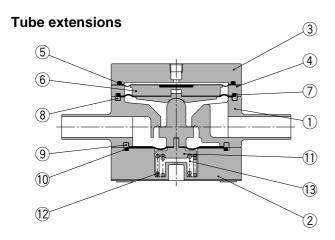
SRF50 Integral fitting







With reducer

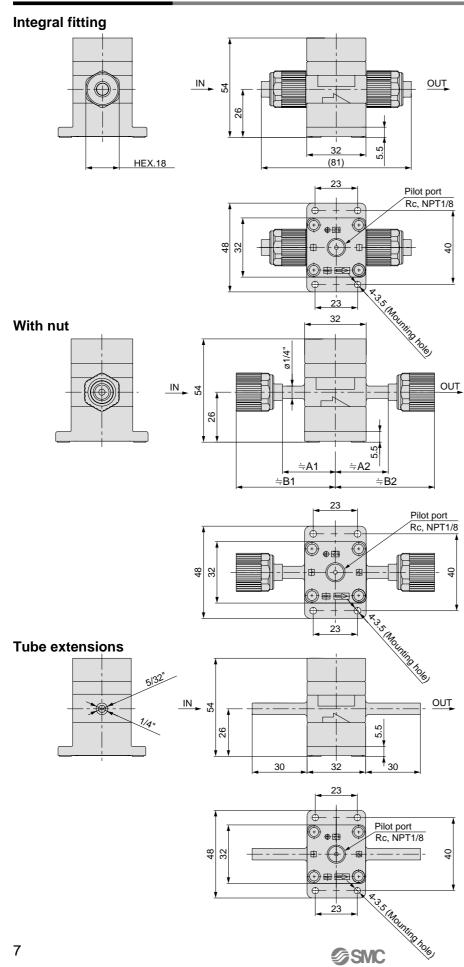


Parts list

No.	Description	Material	Note
1	Body	New PFA	
2	Valve guide	PVDF	
3	Bonnet	PPS	
4	Spacer	PVDF	
5	Pilot diaphragm	FKM	
6	Diaphragm support	PP	
7	Withstand pressure diaphragm B	FKM	
8	Diaphragm	PTFE	
9	Valve diaphragm	PTFE	
10	Withstand pressure diaphragm A	FKM	
11	Spring holder	Stainless steel 304	Fluoro resin coating
12	Valve spring 1	Stainless steel 304	Fluoro resin coating
13	Valve spring 2	Stainless steel 304	Fluoro resin coating

No.	Description	Material	Note
14	Insert bushing	New PFA	
15	Nut	New PFA	
16	Collar	New PFA	

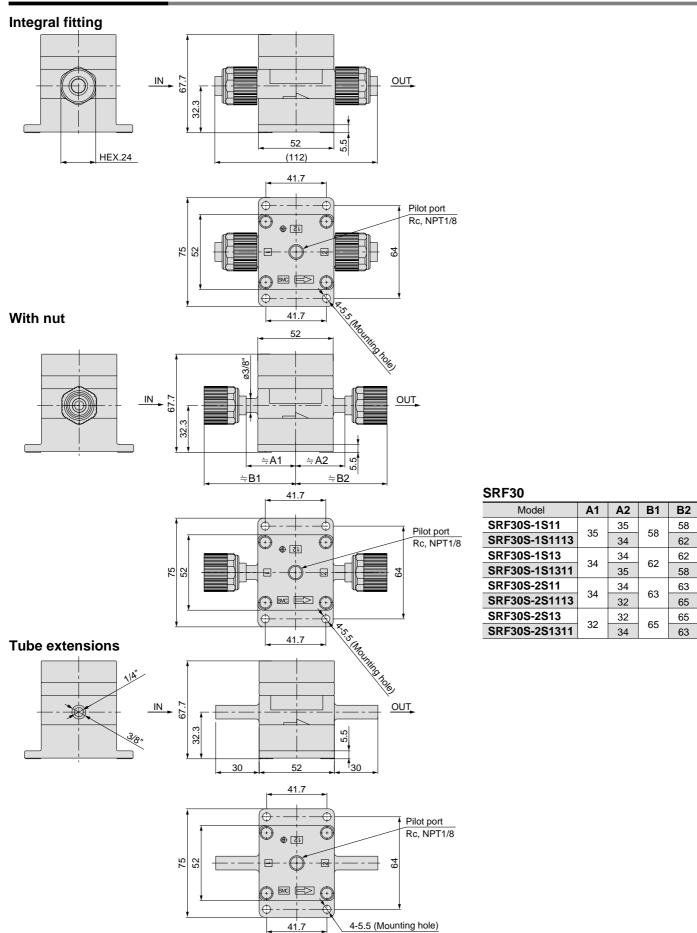
Dimensions/SRF10



SRF10

Model	A1	A2	B1	B2
SRF10S-1S07	31	31	40	48
SRF10S-1S0711	31	28	48	51
SRF10S-1S11	28	28	51	51
SRF10S-1S1107	28	31	51	48
SRF10S-2S07	20	28		52
SRF10S-2S0711	28	27	52	55
SRF10S-2S11	27	27		55
SRF10S-2S1107	21	28	55	52

Dimensions/SRF30



SMC

Dimensions/SRF50

Integral fitting OUT 42.3 100 HEX.35 (178)Pilot port Rc, NPT1/8 SMC 🖂 * 4.6.5 Mounting hole 80 With nut 100 OUT 42.3 =A1 ÷A2 ≒B1 ⇒B2 \odot Pilot port Rc, NPT1/8 **a** 132 8 SRF50 Model Α1 **A2 B**1 B2 SRF50S-1S19 58 91 TES MOUNING hole 58 91 SRF50S-1S1925 55 98 SRF50S-1S25 55 98 55 98 SRF50S-1S2519 58 91 **Tube extensions** SRF50S-2S19 56 56 95 95 16 <u>IN</u> ₽ OUT 42.3 38 100 80 \odot Pilot port \odot Rc, NPT1/8 132 -A S. S. Anouning hole,

Series SRF Fitting and Special Tools

Fittings

Changing tubing sizes

The tubing size can be changed within the same body class (body size) by replacing the nut and insert bushing.

		Tubin						ng O.D.				
Body class		Metric sizes							Inch	sizes		
5.455	4	6	8	10	12	19	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"
2	•	0	_	_	_	_	•	•	0	_	_	_
3	_	•	•	0	_	_	_	_	•	0	_	_
5	_	_	_	_	•	0	_	_	_	_	•	0

Parts composition

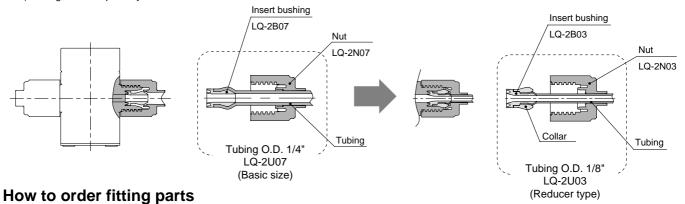
		Com	ponent parts
	Nut	Insert	Collar (insert assembly)
O Basic size	Yes	Yes	No
Reducer type	Yes	Yes	Yes

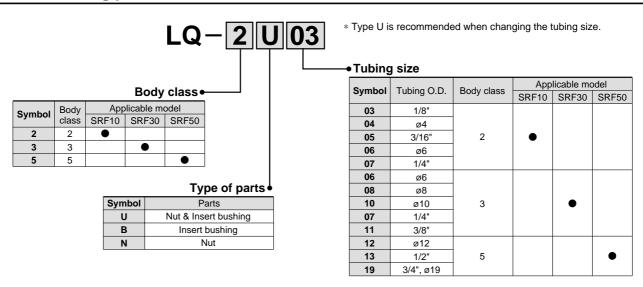
Changing the tubing size

Example) Changing the tubing from an O.D. 1/4" to O.D. 1/8" in body class 2.

Prepare an insert bushing and nut for O.D. 1/8" tubing (LQ-2U03) and change the tubing size. (Refer to the section on How to order fitting parts.)

Note) Tubing is sold separately.





Special Tools

How to order fitting jig

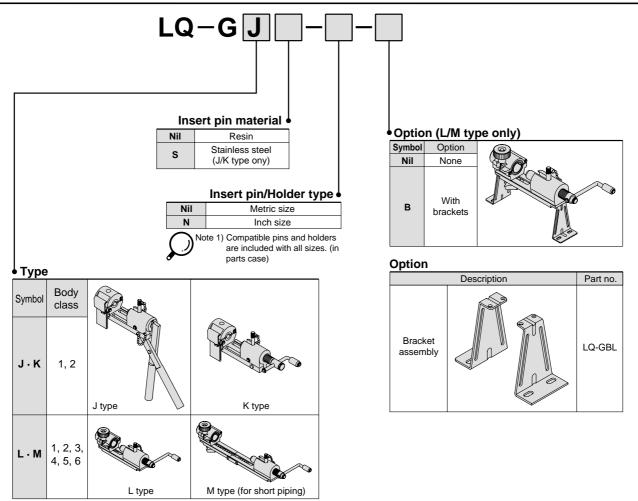


Table 1 Tubing size symbols

Туре	Body class	Tubing O.D.														
		Metric sizes						Inch sizes								
		ø3	ø4	ø6	ø8	ø10	ø12	ø19	ø25	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
J	1	03	04	_	_	_	_	_	_	03	_		_	_	_	_
	2	ı	04	06	_	_	_	_	_	03	05	07	_	_	_	_
_	1	03	04	_	_	_	_	_	_	03	_	_	_	_	_	_
	2		04	06	_	_	_	_	_	03	05	07	_	_	_	_
	3	_	_	06	08	10	_	_	_	_	_	07	11	_	_	_
	4		_	_	_	10	12	_	_	_	_		11	13	_	_
	5	_	_	_	_	_	12	19	_	_	_	_	_	13	19	_
	6			_	_	_		19	25	_					19	25

Replacement parts

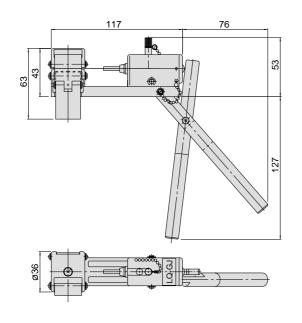
Des	cription	Part No.				
Insert pin holder assembly (with the parts case)		Insert pin / Holder type Insert pin material (J/K type only) Nil Resin S Stainless steel				
Insert pin (single)		Body class (Refer to Table 1) Type Type Tubing size symbol (Refer to Table 1) Insert pin material (J/K type only) Nil Resin S Stainless steel				
Holder (single)		LQ-GHJ - 07 Tubing size symbol (Refer to Table 1) Type				

Note1) Replacement part type J shows the parts for LQ-GJ and LQ-GK. Replacement part type L shows the parts for LQ-GL and LQ-GM.

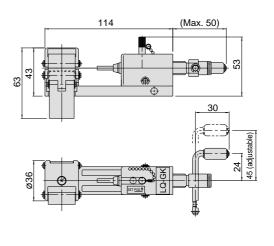
Special Tools

Dimensions

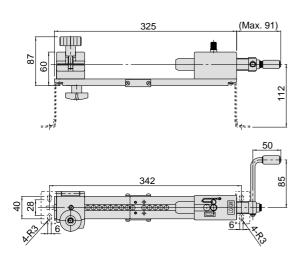
LQ-GJ



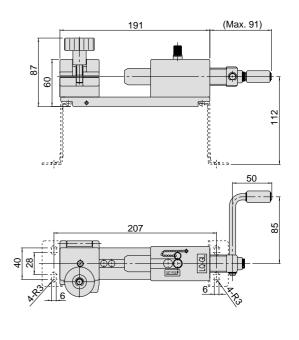
LQ-GK



LQ-GM



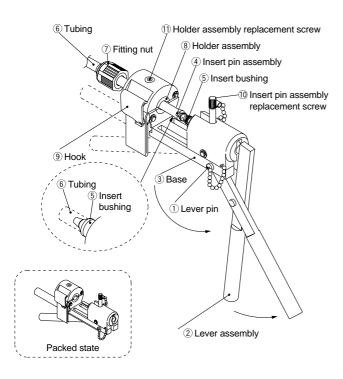
LQ-GL



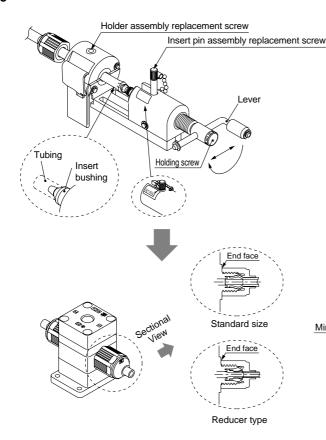
Fitting Assembly Procedure

Assemble fittings following the procedure shown below.

J type



K type



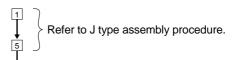
J type fitting assembly procedure

- Pull out the **lever pin** ①. Rotate the **lever assembly** ② to align the holes on the **lever assembly** ② and the **base** ③. Insert the **lever pin** ① into the holes to fix the **lever assembly** ②.
- Place the insert bushing ⑤ on the insert pin assembly ④.
 - Cut the end of the **tubing** (a) at a right angle and pass it through the **fitting nut** (b). After placing the **tubing** (a) in the **holder assembly** (a), push it onto the **insert bushing** (b) until it stops and clamp it with the **hook** (9).

- When the tubing 6 is curved, straighten it out before using it.
- The tubing ® may slip if there is oil or dust, etc., on the holder assembly ®. Remove the contamination using alcohol or another suitable cleaner.
- Press the **insert bushing** ⑤ into the **tubing** ⑥ by turning the **lever assembly** ②.
- To replace the insert pin assembly 4 and holder assembly 8, use the insert pin assembly replacement screw 10 and the holder assembly replacement screws 11, respectively.

K type fitting assembly procedure

- For procedure to set and press fit the insert pin assembly, refer to L, M type fitting assembly procedures.
- For procedure to set the tubing, refer to J type procedure.

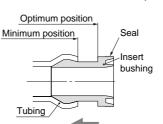


Tighten the **fitting nut** (7) until it reaches the prescribed position on the body (end face). As a guide, refer to the proper tightening torques shown below.

Nut tightening torque for piping

Body class	Torque (Nm)					
bouy class	LQ1	LQ2				
2	0.3 to 0.4	1.5 to 2.0				
Note 1) In case of body class 1, the nut should be tightened						

manually.



⚠ Precautions on installation

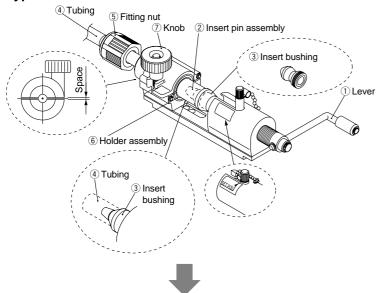
- Be careful not to scratch or dent the seal of the insert bushing. (Refer to the illustration on the left.)
- When the insert bushing inserted, its tubing end should be closer to seal side than the minimum position. (Refer to the illustration on the left.)



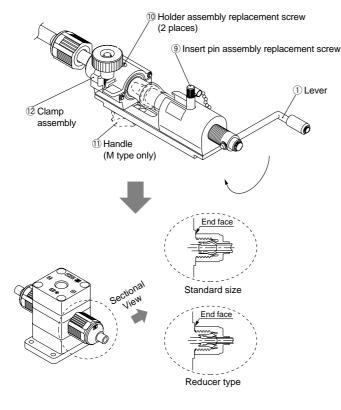
Fitting Assembly Procedure

Assemble fittings following the procedure shown below.

L type



M type



L/M type fitting assembly procedure

- Turn the **lever** ① and move to SET POS.
- Place the **insert bushing** ③ on the **insert pin** assembly ②.
- Cut the end of the **tubing** ④ at a right angle and pass it through the **fitting nut** ⑤. After placing the **tubing** ④ in the **holder assembly** ⑥, push it onto the **insert bushing** ③ until it stops and clamp it with the **knob** ⑦. When tightening the **tubing** ④ with the **knob** ⑦, maintain uniform clearance on both sides of the holder.

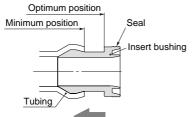
- When the tubing 4 is curved, straighten it out before using it.
- The tubing 4 may slip if there is oil or dust, etc., on the holder assembly 6. Remove the contamination using alcohol or another suitable cleaner.
- Press the **insert bushing** ③ into the **tubing** ④ by turning the **lever** ①. (Pressing in can be accomplished with 2 or 3 turns of the **lever** ①.)
- To replace the insert pin assembly ② and holder assembly ⑥, use the insert pin assembly replacement screw ⑨ and the holder assembly replacement screws ⑩, respectively.
- In case of M type for short piping, remove the **handle** ①, slide the **clamp assembly** ② to attain the specified length, then secure it again with the **handle** ①.
- Tighten the **fitting nut (S)** to the prescribed position on the body (end face). As a guide, refer to the proper tightening torques shown below.

Nut tightening torque for piping

Body class	Torque (Nm)					
Douy class	LQ1	LQ2				
2	0.3 to 0.4	1.5 to 2.0				
3	0.8 to 1.0	3.0 to 3.5				
4	1.0 to 1.2	7.5 to 9				
5	2.5 to 3.0	11 to 13				
6	5.5 to 6.0	_				



Note 1) In case of body class 1, the nut should be tightened manually.



⚠ Precautions on installation

- Be careful not to scratch or dent the seal of the insert bushing. (Refer to the illustration on the left.)
- When the insert bushing inserted, its tubing end should be closer to seal side than the minimum position. (Refer to the illustration on the left.)





The wetted part material and fluid compatibility check list

	Compatibility			
Fluid	PFA (Body)	PTFE (Diaphragm)		
Acetone	O Note 1)			
Ammonium hydroxide	0			
Isobutyl alcohol	\circ N	ote 1)		
Isopropyl alcohol	\circ N	ote 1)		
Hydrochloric acid	(
Hydrogen peroxide				
Ethyl acetate	\circ N	ote 1)		
Butyl acetate	\circ N	ote 1)		
Nitric acid	(
DI water	0			
Sodium hydroxide	(
Nitrogen gas	(
Toluene	O Note 1)			
Hydrofluoric acid	(
Sulfuric acid	0			
Phosphoric acid	()		

Table symbols

①: The fluid is compatible with the material, and can be used with the products.

Note 1) Since static electricity may be generated, implement suitable countermeasures.

- The material and fluid compatibility check list provides reference values as a guide only, therefore we do not guarantee the application to our product.
- The data above is based on the information presented by the material manufacturers.
- SMC is not responsible for its accuracy and any damage happened because of this data.



[:] In some cases even when the fluid is compatible with the material, it may still permeate from the components and effect other materials.



These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of "Caution", "Warning" or "Danger". To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

♠ Caution: Operator error could result in injury or equipment damage.

Warning: Operator error could result in serious injury or loss of life.

⚠ Danger : In extreme conditions, there is a possible result of serious injury or loss of life.

Note 1) ISO 4414: Pneumatic fluid power -- General rules relating to systems.

Note 2) JIS B 8370 : Pneumatic system axiom.

Marning

1. The compatibility of equipment is the responsibility of the person who designs the system or decides its specifications.

Since the products specified here are used in various operating conditions, their compatibility for the specific system must be based on specifications or after analysis and/or tests to meet your specific requirements. The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified. Referring to the latest catalogue information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

- 2. Only trained personnel should operate machinery and equipment.
 Assembly, handling or maintenance of machinery and equipment should be performed by trained and experienced operators.
- 3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.
- 4. To promote safe operation, be sure to observe company standards and legal regulations, etc.

Refer to ISO4414, JIS B 8370 (pneumatic system axiom), labor health and safety laws and other safety regulations.





Series SRF Clean Regulator/Fluoro Resin Type/Precautions 1

Be sure to read before handling.

Design and Selection

⚠ Warning

1. Confirm the specifications.

Give careful consideration to operating conditions such as the application, fluid and environment, and use within the operating ranges specified in this catalogue.

2. Fluids

Operate after confirming the compatibility of the product's component materials with fluids, using the check list on page 15. Contact SMC regarding fluids other than those in the check list.

3. Residual pressure relief is not possible when the inlet pressure is released.

In the case of series SRF, when the inlet pressure is released with the condition that the pressure at outlet side is maintained, the residual pressure cannot be released. If it will be necessary to eliminate pressure from the outlet side, a circuit should be provided for residual pressure relief.

⚠ Caution

1. Pressure increase in the closed circuit.

Series SRF allows 10 cm³/nm of valve leakage from inlet side to outlet side. The outlet pressure may increase when used in a closed circuit. When closing the outlet side, use a bypass circuit as an opening circuit.

Depends on operating conditions, oscillation (buzz) may occur even when used within the specification range detailed in this catalogue. Consult SMC for details.

Mounting

⚠ Caution

1. Open the sealed package inside a clean room.

This product is packed in sealed double packaging in a clean room. It is recommended that the inside packaging is opened in a clean room or in other clean environments.

2. Ensure space for maintenance

Ensure the necessary space for maintenance activities.

3. Flush out the piping.

Connect these products to piping only after it has been flushed and cleaned properly. If debris or scale etc. remains in the piping, this can cause faulty operation or failure.

Confirm the mounted orientation of the product.

If mounted backwards, the device will not operate properly.

5. When piping fittings to the pilot port, use fittings with resin thread.

Fittings with metal thread may damage the pilot port.

Operating Air Supply

Marning

1. Use clean air.

Do not use compressed air which includes chemicals, synthetic oils containing organic solvents, salts or corrosive gases, etc., as this can cause damage or malfunction.

∧ Caution

 When adjusting the pilot pressure, the SMC precision regulator Series IR/ARP, is recommended.





Series SRF Clean Regulator/Fluoro Resin Type/Precautions 2

Be sure to read before handling.

Pressure Adjustment

⚠ Warning

1. Check the inlet, outlet, and pilot pressure indicators while undertaking pressure and flow settings.

Pressures over the regulated range may cause damage to the internal parts.

⚠ Caution

1. Without consumption of the outlet side flow, the outlet pressure will not decrease along with the pilot pressure decrease.

As this product is not fitted with a relief mechanism, without consumption of the outlet side flow, the outlet pressure will not decrease along with the pilot pressure decrease.

2. Confirm the inlet pressure.

Set the outlet pressure to no more than 80% of the supply pressure.

3. When the inlet pressure is fluctuating, take caution to the setting value of the outlet pressure.

When the setting value of the outlet pressure is over the inlet pressure, the outlet pressure cannot be stabilized.

4. When adjusting the flow, set a throttle on the outlet side of the product.

Without a throttle, the stable adjustment of the flow cannot be achieved.

5. Do not use fluid containing solid matter.

This will cause faulty operation.

Maintenance

Marning

- Before removing equipment or compressed air supply/exhaust devices, shut off the air and power supplies, and exhaust compressed air from inside the system. Further, when restarting equipment after remounting or replacement, first confirm safety and then check the equipment for normal operation.
- 2. After using chemicals or solvent, remove any residual chemicals using de-ionized water and air before the next operation.
- Do not disassemble the product. Products which have been disassembled cannot be guaranteed.

If disassembly is necessary, consult SMC.







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