SMC

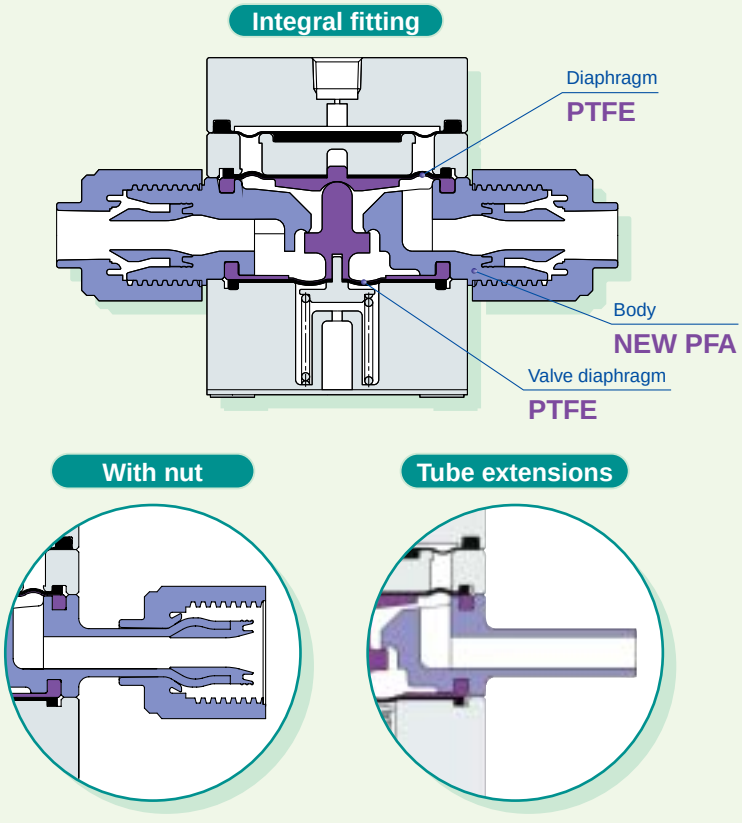
Clean Wet Series

Clean Regulator/Fluoro Resin Type

Washing/Assembly Procedure

Washing parts: Body, Valve diaphragm and Diaphragm

Construction



Clean Regulator/Fluoro Resin Type
Series SRF

How to Order

Integral fitting

SRF 1 0 – S 07 □

Body size

1
3
5

Integral fitting (LQ2)

Pilot port thread type

—	Rc1/8
N	NPT1/8

Applicable tubing size (O.D. x I.D.)

Metric size

Symbol	Applicable tubing size	Applicable fitting		
		SRF10	SRF30	SRF50
04	4 x 3	●		
06	6 x 4	○	●	
08	8 x 6		●	
10	10 x 8		○	
12	12 x 10			●
19	19 x 16			○

○: Basic size ●: With reducer

Inch size

Symbol	Applicable tubing size	Applicable model		
		SRF10	SRF30	SRF50
03	1/8" x 0.086"	●		
05	3/16" x 1/8"	●		
07	1/4" x 5/32"	○	●	
11	3/8" x 1/4"		○	
13	1/2" x 3/8"			●
19	3/4" x 5/8"			○

○: Basic size ●: With reducer

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

With nut

SRF 1 0 S – 1 S 07 11 □

Body size

1
3
5

Fitting type

Symbol	Applicable fitting
1	LQ1
2	LQ2

Pilot port thread type

—	Rc1/8
N	NPT1/8

Fitting size (IN side)

Symbol	Fitting size Note 2)	Fitting type	Applicable model		
			SRF10	SRF30	SRF50
07	2	LQ1,2	○		
11	3		●	○	
13	4			●	
19	5				○
25 Note 1)	6	LQ1			●

○: Basic size ●: With plug-in reducer

Fitting size (OUT side)

Symbol	Applicable fitting size Note 2)	Fitting type	Applicable model		
			SRF10	SRF30	SRF50
—	Same as IN side	–	–	–	–
07	2	LQ1,2	○		
11	3		●	○	
13	4			●	
19	5				○
25 Note 1)	6	LQ1			●

○: Basic size ●: With reducer

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.

Tube extensions

SRF 1 0 – T 07 □

Body size

1
3
5

Pilot port thread type

—	Rc1/8
N	NPT1/8

Tubing size (O.D.)

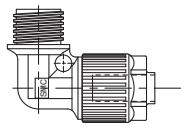
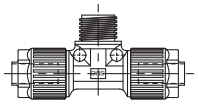
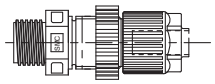
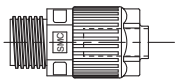
Symbol	Tubing size	Applicable model
07	1/4"	SRF10
11	3/8"	SRF30
19	3/4"	SRF50

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.

LQ1 E 21 – SN

Fitting type

E	T
Union elbow	Union tee
	
P	**U**
Panel mount union	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	○
2	2	4 x 3	●
3	1	10 x 8	○
3	2	8 x 6	●
3	3	6 x 4	●
4	1	12 x 10	○
4	2	10 x 8	●
5	1	19 x 16	○
5	2	12 x 10	●
6	1	25 x 22	○
6	2	19 x 16	●

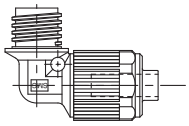
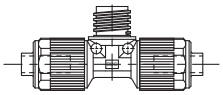
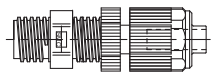
Class	No.	Applicable tubing size (inches)	Reducing
2	A	1/4" x 5/32"	○
2	B	3/16" x 1/8"	●
2	C	1/8" x 0.086"	●
3	A	3/8" x 1/4"	○
3	B	1/4" x 5/32"	●
4	A	1/2" x 3/8"	○
4	B	3/8" x 1/4"	●
5	A	3/4" x 5/8"	○
5	B	1/2" x 3/8"	●
6	A	1" x 7/8"	○
6	B	3/4" x 5/8"	●

○: Basic size ●: With reducer

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

LQ2 E 21 – SN

Fitting type

E	T
Union elbow	Union tee
	
P	**U**
Panel mount union	Union
	

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

Applicable tubing size

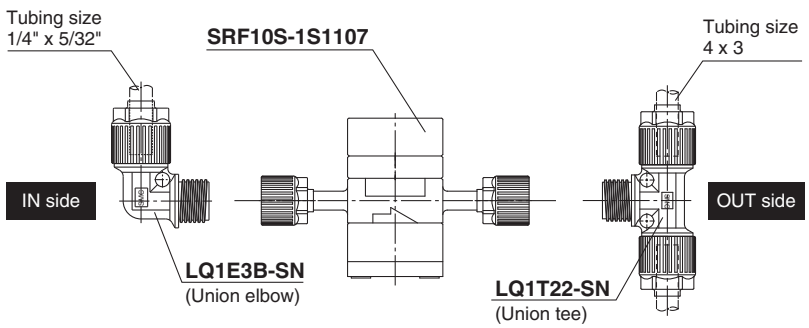
Class	No.	Applicable tubing size (mm)	Reducing
2	1	6 x 4	○
2	2	4 x 3	●
3	1	10 x 8	○
3	2	8 x 6	●
3	3	6 x 4	●
4	1	12 x 10	○
4	2	10 x 8	●
5	1	19 x 16	○
5	2	12 x 10	●

Class	No.	Applicable tubing size (inches)	Reducing
2	A	1/4" x 5/32"	○
2	B	3/16" x 1/8"	●
2	C	1/8" x 0.086"	●
3	A	3/8" x 1/4"	○
3	B	1/4" x 5/32"	●
4	A	1/2" x 3/8"	○
4	B	3/8" x 1/4"	●
5	A	3/4" x 5/8"	○
5	B	1/2" x 3/8"	●

○: Basic size ●: With reducer

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

Ordering example



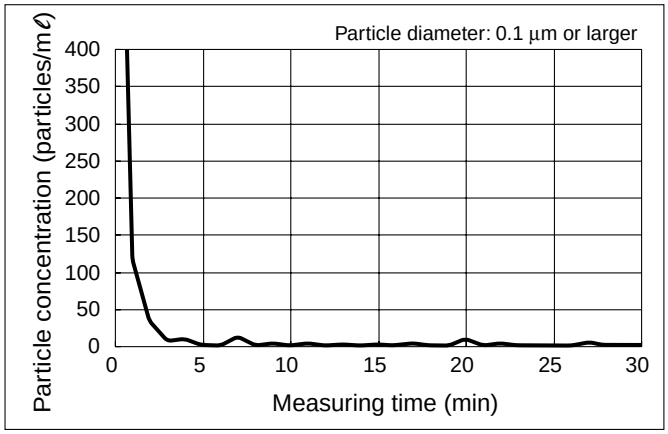
SRF10S-1S1107 1
LQ1E3B-SN (Union elbow) 1
LQ1T22-SN (Union tee) 1

Note) For shipment, the regulator and fittings are individually packaged and dispatched together in 1 box.

Specifications

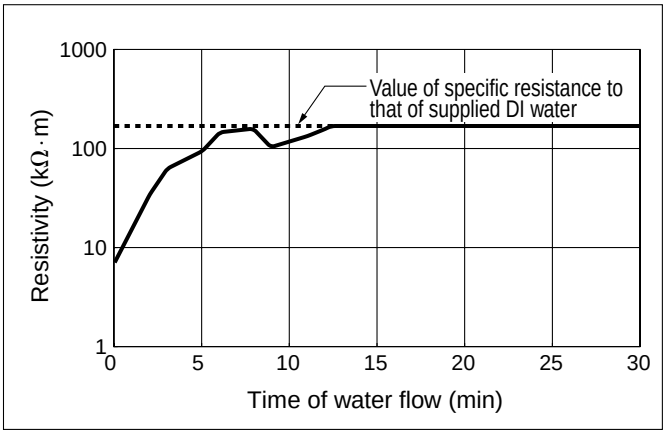
Model		SRF10	SRF30	SRF50
Proof pressure		1.0 MPa		
Maximum operating pressure		0.5 MPa		
Set pressure range		0.02 to 0.4 MPa		
Maximum operating pressure (pilot pressure)		0.5 MPa		
Fluid		Pure water, N_2		
Ambient and fluid temperature		5 to 60°C		
Valve leakage		10 cm^3/min or less (fluid: water)		
Weight (kg)	**Tubing**	0.08	0.24	1.2
	Integral fittings	0.10	0.28	1.3
	With nut			

Particulate Generation Characteristics



○Test 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 mℓ/min
Model: SRF30

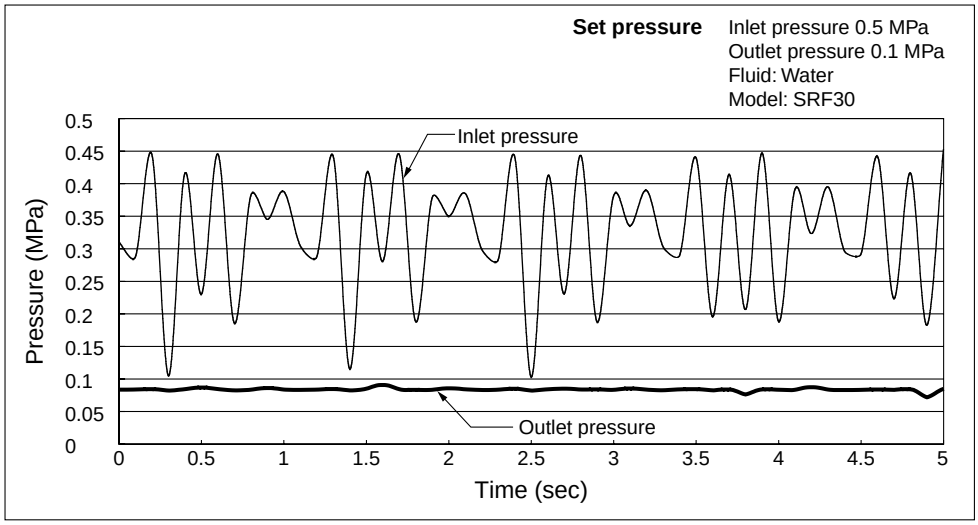
Flow-through Characteristics



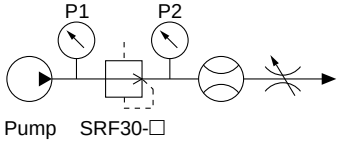
○Test method and conditions
The liquid contact portions were filled with sulphuric acid and left untouched for half an hour.
After the sulphuric acid was drained, the wetted parts are filled with DI water. The specific resistance of the liquid discharged from the outlet side of the sample was measured 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)



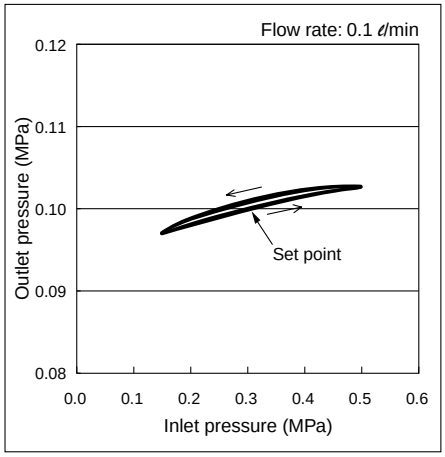
○ Test circuit/Conditions



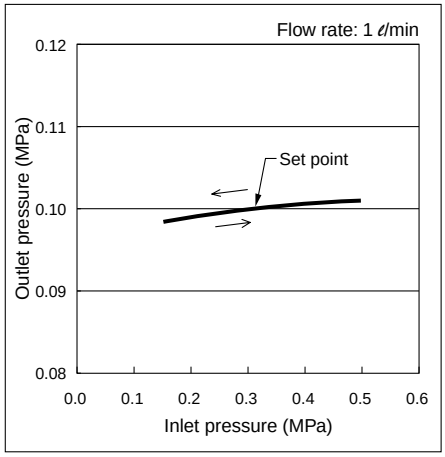
Pressure Characteristics

Set pressure Inlet pressure 0.3 MPa
Outlet pressure 0.1 MPa Fluid: Water

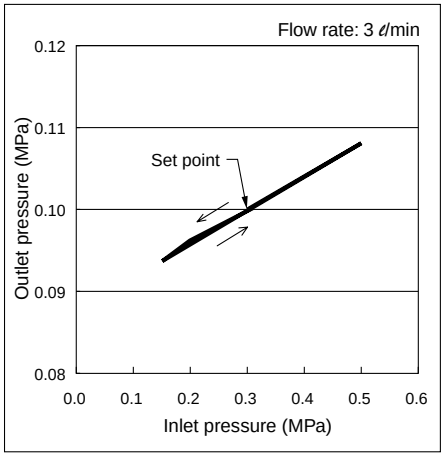
SRF10



SRF30



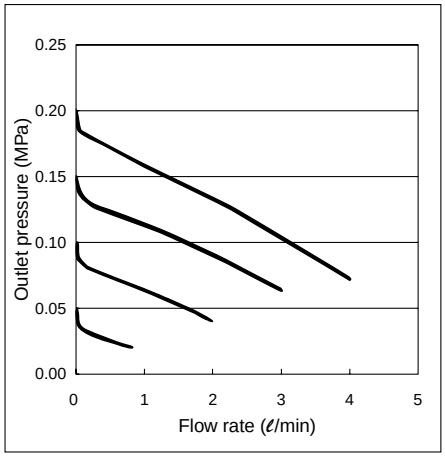
SRF50



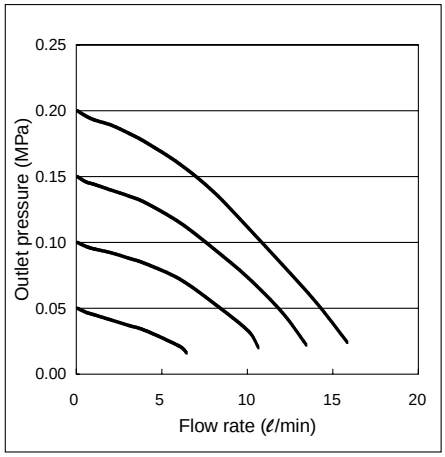
Flow Characteristics

Inlet pressure: 0.3 MPa Fluid: Water

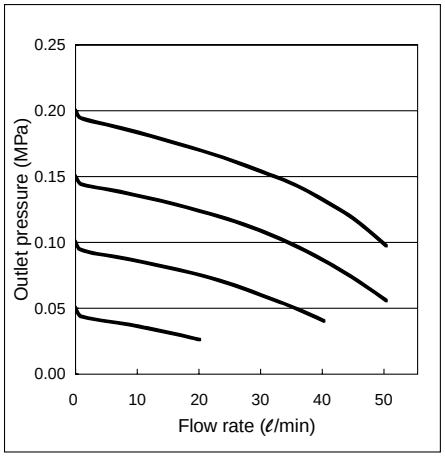
SRF10



SRF30



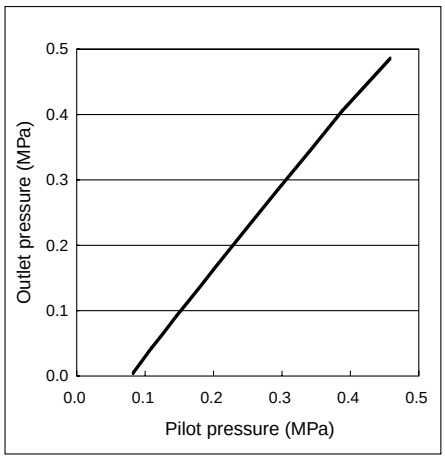
SRF50



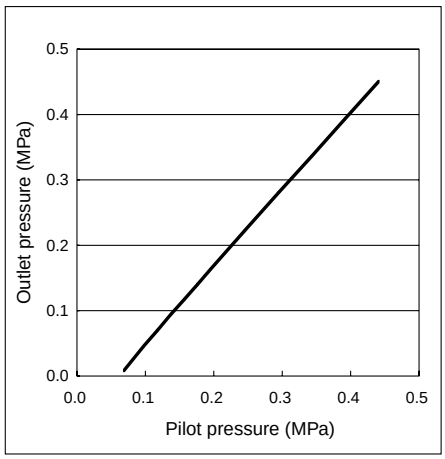
Input/Output Characteristics

Inlet pressure: 0.5 MPa Flow rate: 0 ℓ/min (ANR) Fluid: Air

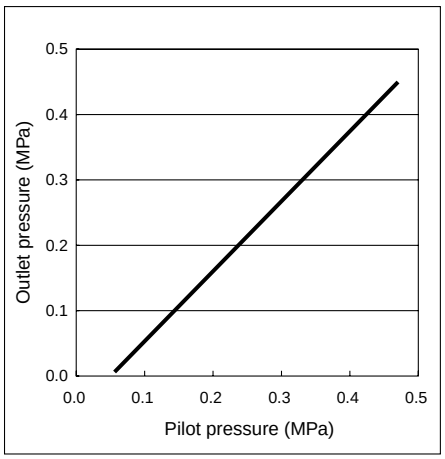
SRF10



SRF30

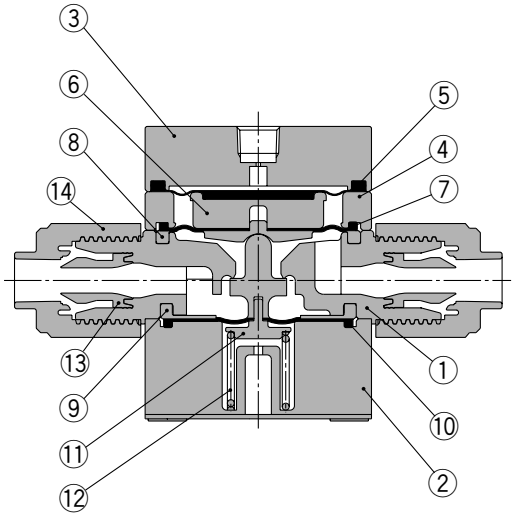


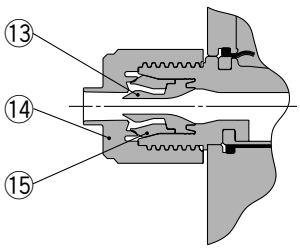
SRF50



Construction/SRF10, 30

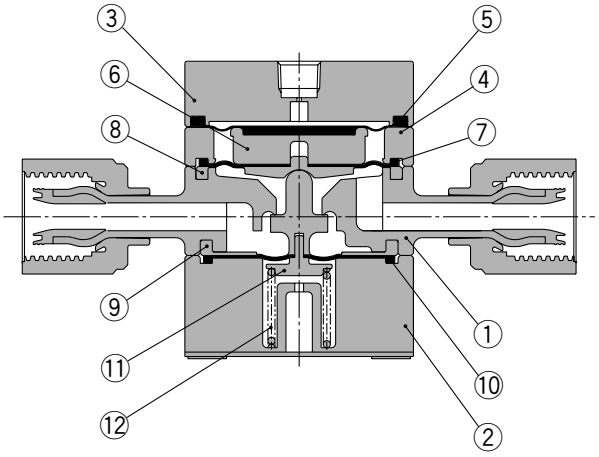
Integral fitting



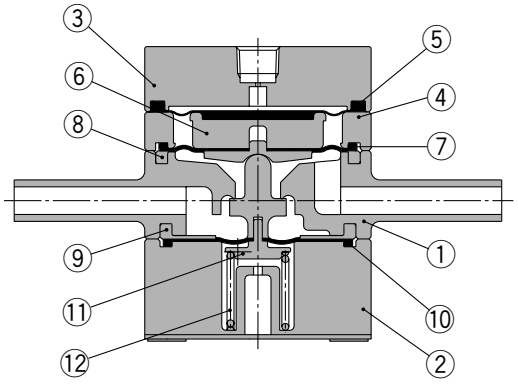


With reducer

With nut



Tube extensions



Parts list

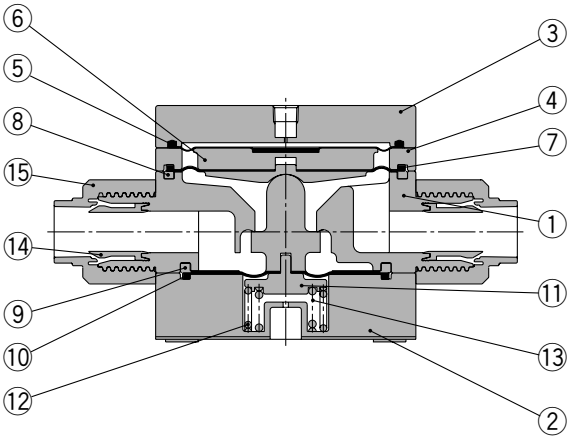
No.	Description	Material	Note
1	**Body**	New PFA	
2	**Valve guide**	PVDF	
3	**Bonnet**	PPS	
4	**Spacer**	PVDF	
5	**Pilot diaphragm**	FKM	
6	**Diaphragm support**	PP	
7	**Withstand pressure diaphragm B**	FKM	
8	**Diaphragm**	PTFE	
9	**Valve diaphragm**	PTFE	
10	**Withstand pressure diaphragm A**	FKM	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

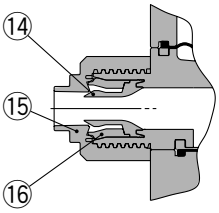
No.	Description	Material	Note
13	**Insert bushing**	New PFA	
14	**Nut**	New PFA	
15	**Collar**	New PFA	

Construction/SRF50

SRF50

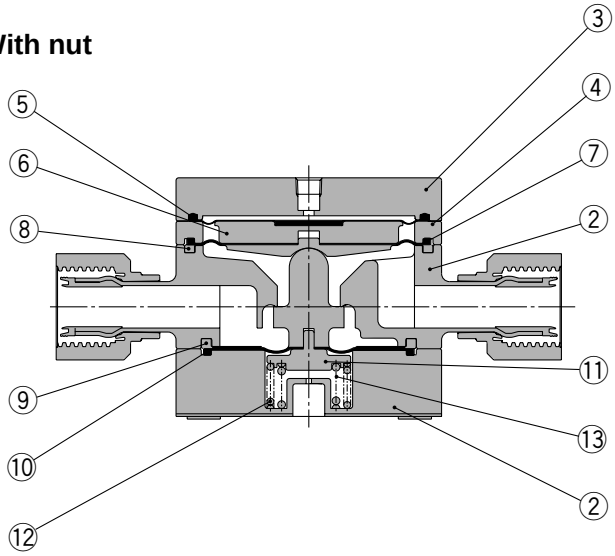
Integral fitting



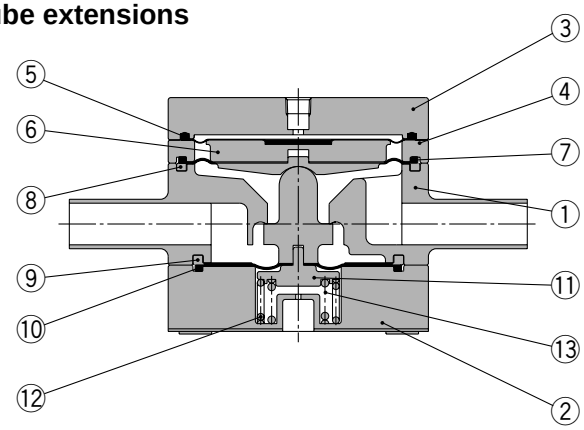


With reducer

With nut



Tube extensions



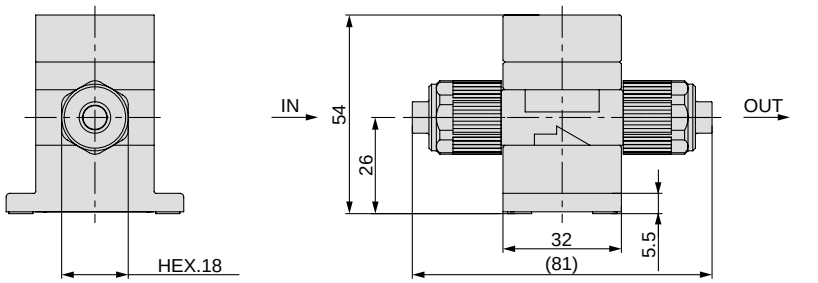
Parts list

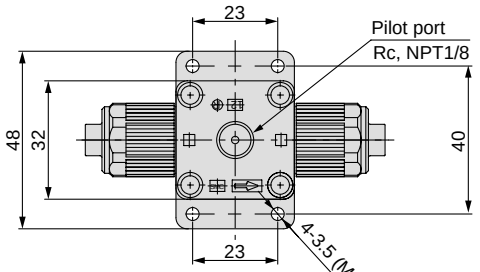
No.	Description	Material	Note
1	**Body**	New PFA	
2	**Valve guide**	PVDF	
3	**Bonnet**	PPS	
4	**Spacer**	PVDF	
5	**Pilot diaphragm**	FKM	
6	**Diaphragm support**	PP	
7	**Withstand pressure diaphragm B**	FKM	
8	**Diaphragm**	PTFE	
9	**Valve diaphragm**	PTFE	
10	**Withstand pressure diaphragm A**	FKM	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

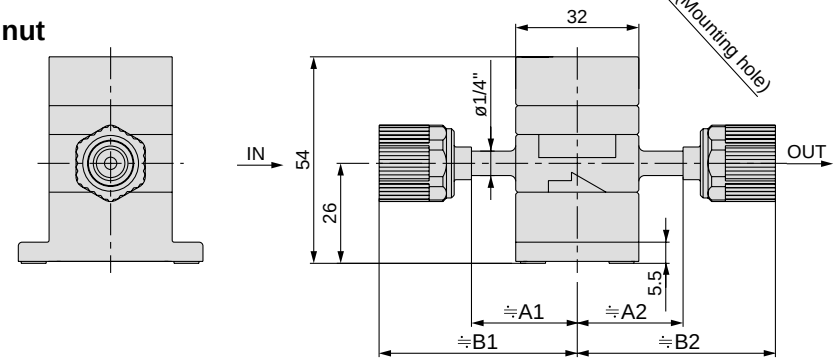
Dimensions/SRF10

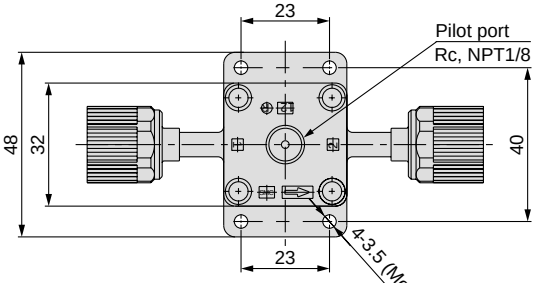
Integral fitting



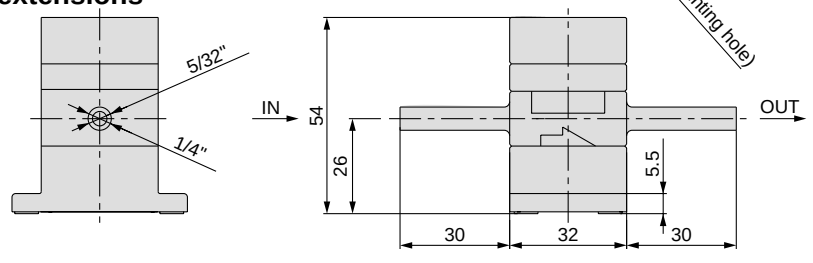


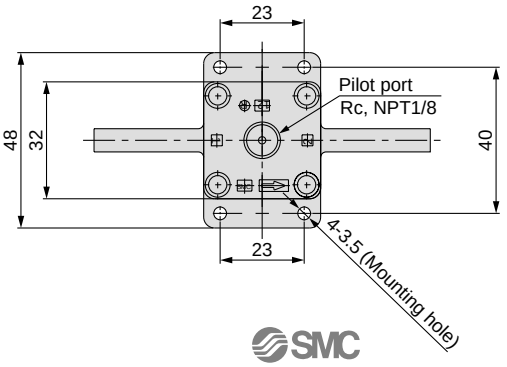
With nut





Tube extensions



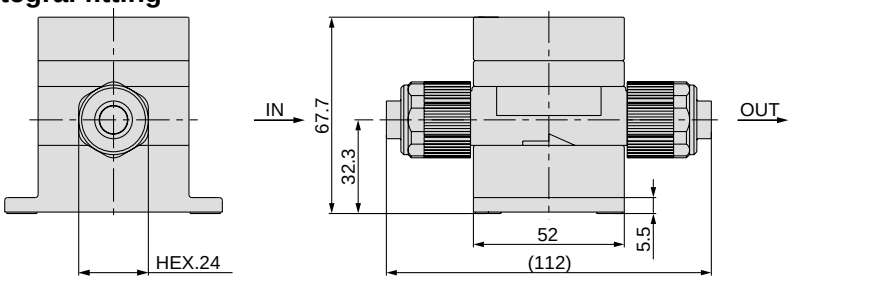


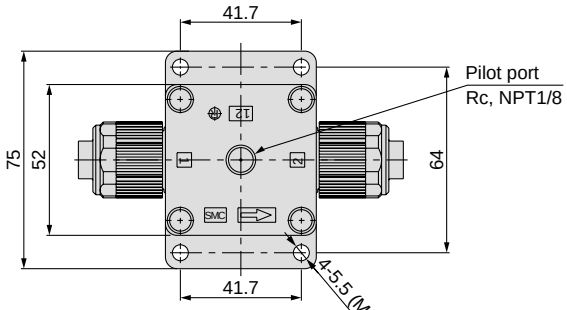
SRF10

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

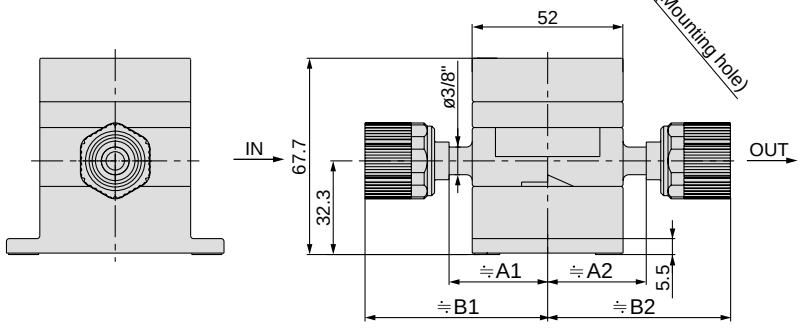
Dimensions/SRF30

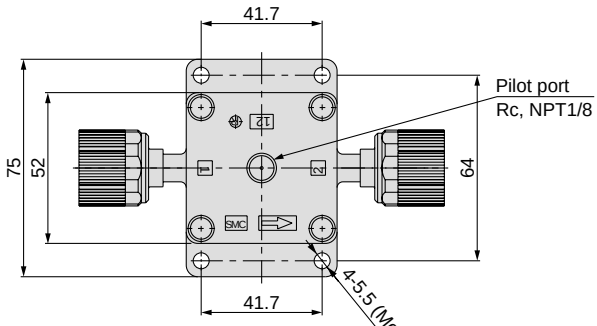
Integral fitting



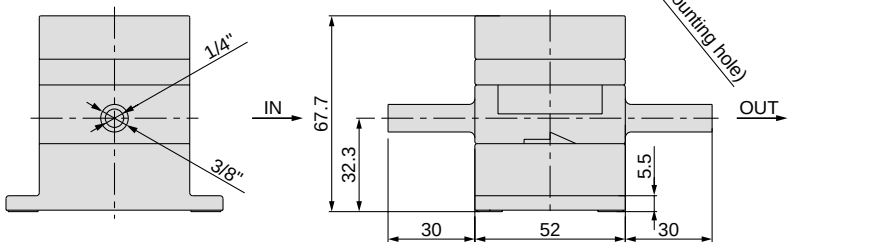


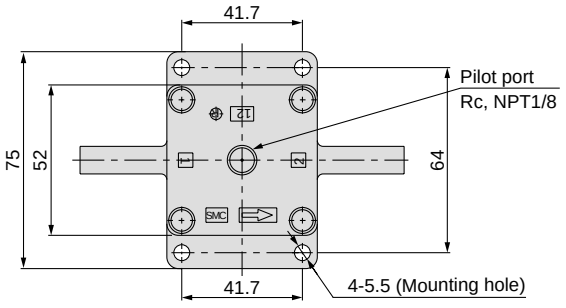
With nut





Tube extensions



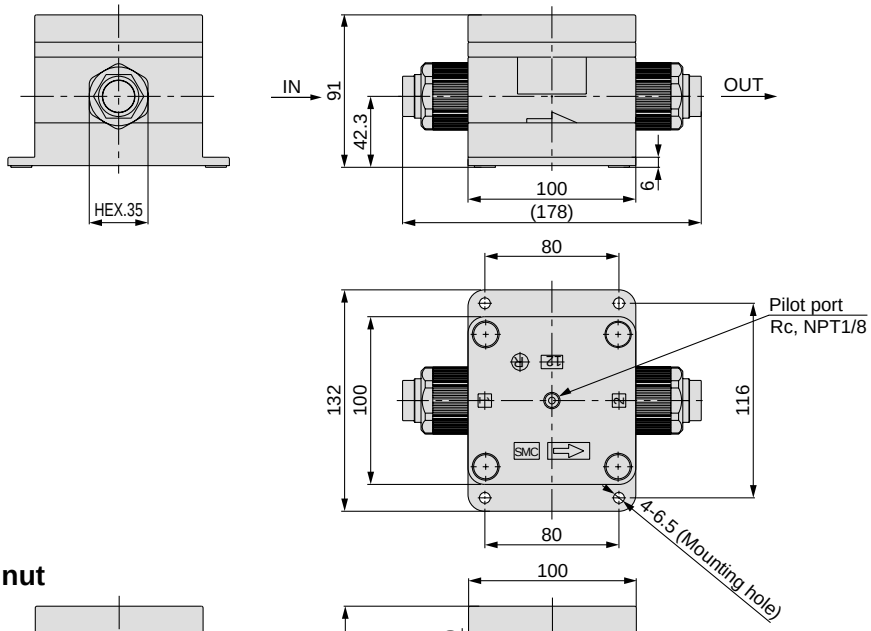


SRF30

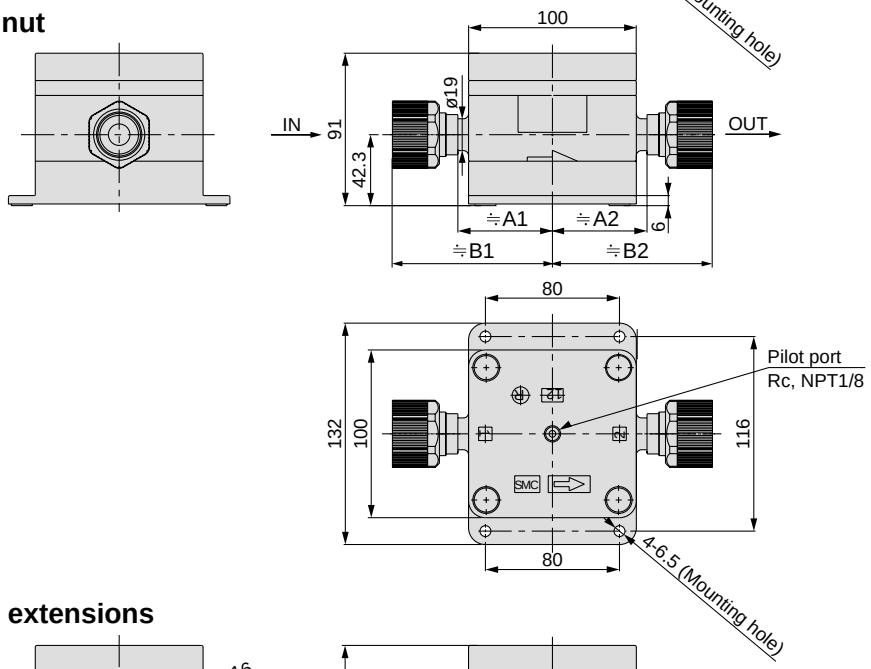
Model	A1	A2	B1	B2
SRF30S-1S11	35	35	58	58
SRF30S-1S1113		34		62
SRF30S-1S13	34	34	62	62
SRF30S-1S1311		35		58
SRF30S-2S11	34	34	63	63
SRF30S-2S1113		32		65
SRF30S-2S13	32	32	65	65
SRF30S-2S1311		34		63

Dimensions/SRF50

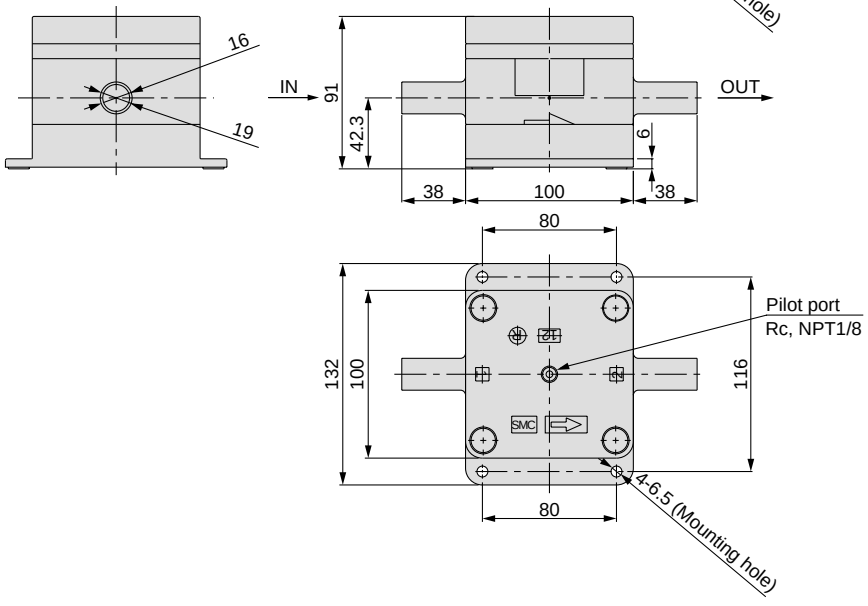
Integral fitting



With nut



Tube extensions



SRF50

Model	A1	A2	B1	B2
SRF50S-1S19	58	58	91	91
SRF50S-1S1925		55		98
SRF50S-1S25	55	55	98	98
SRF50S-1S2519		58		91
SRF50S-2S19	56	56	95	95

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.

Body class	Tubing O.D.											
	Metric sizes						Inch sizes					
	4	6	8	10	12	19	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"
2	●	○	—	—	—	—	●	●	○	—	—	—
3	—	●	●	○	—	—	—	—	●	○	—	—
5	—	—	—	—	●	○	—	—	—	—	●	○

Parts composition

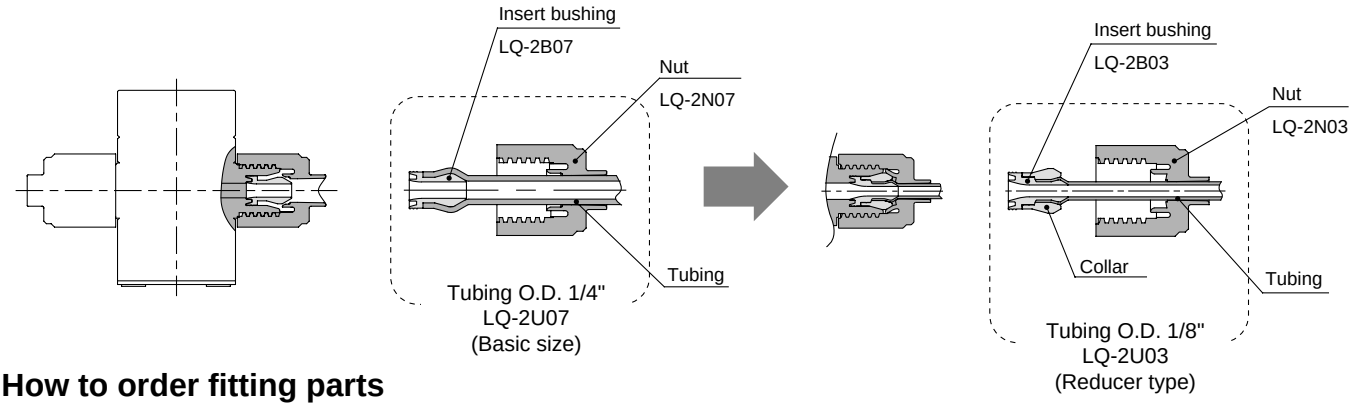
	Component parts		
	Nut	Insert	Collar (insert assembly)
○ Basic size	Yes	Yes	No
● Reducer type	Yes	Yes	Yes

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.



How to order fitting parts

LQ − 2 U 03

∗ Type U is recommended when changing the tubing size.

Body class

Symbol	Body class	Applicable model		
		SRF10	SRF30	SRF50
2	2	●		
3	3		●	
5	5			●

Type of parts

Symbol	Parts
U	Nut & Insert bushing
B	Insert bushing
N	Nut

Tubing size

Symbol	Tubing O.D.	Body class	Applicable model		
			SRF10	SRF30	SRF50
03	1/8"	2	●		
04	ø4				
05	3/16"				
06	ø6				
07	1/4"				
06	ø6	3		●	
08	ø8				
10	ø10				
07	1/4"				
11	3/8"				
12	ø12	5			●
13	1/2"				
19	3/4", ø19				

Special Tools

How to order fitting jig

LQ − G J □ − □ − □

Insert pin material

Nil	Resin
S	Stainless steel (J/K type ony)

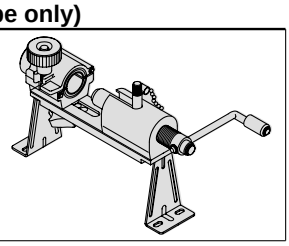
Insert pin/Holder type

Nil	Metric size
N	Inch size

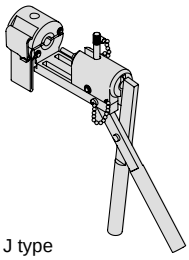
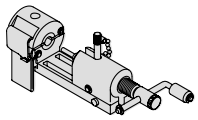
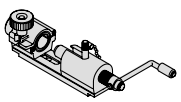
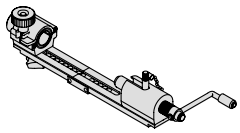
Note 1) Compatible pins and holders are included with all sizes. (in parts case)

Option (L/M type only)

Symbol	Option
Nil	None
B	With brackets



Type

Symbol	Body class		
J · K	1, 2	 J type	 K type
L · M	1, 2, 3, 4, 5, 6	 L type	 M type (for short piping)

Option

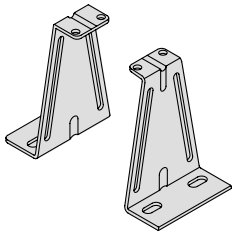
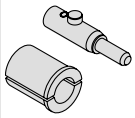
Description		Part no.
Bracket assembly		LQ-GBL

Table 1 Tubing size symbols

Type	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	—	04	06	—	—	—	—	—	03	05	07	—	—	—	—
L	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

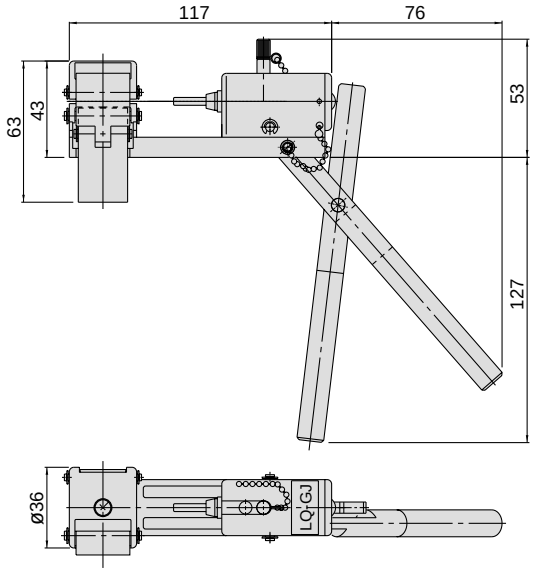
Description		Part No.
Insert pin holder assembly (with the parts case)		**LQ-GP J □ - □** Type Insert pin/ Holder type Insert pin material (J/K type only) **Nil** Metric sizes **S** Inch sizes **Nil** Resin **S** Stainless steel
Insert pin (single)		**LQ-GP 2 J □ - 07** Body class (Refer to Table 1) Type Tubing size symbol (Refer to Table 1) Insert pin material (J/K type only) **Nil** Resin **S** Stainless steel
Holder (single)		**LQ-GH J - 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.

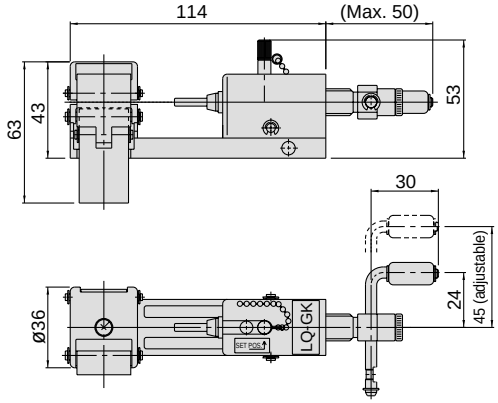
Special Tools

Dimensions

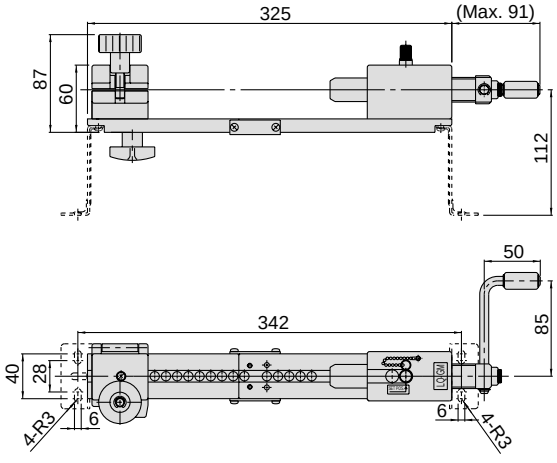
LQ-GJ



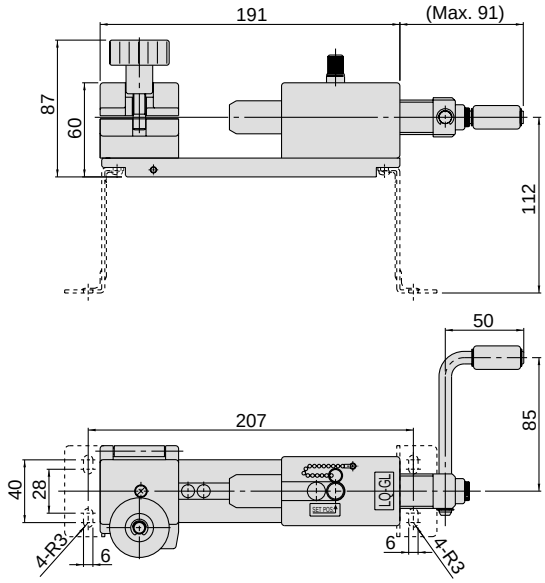
LQ-GK



LQ-GM



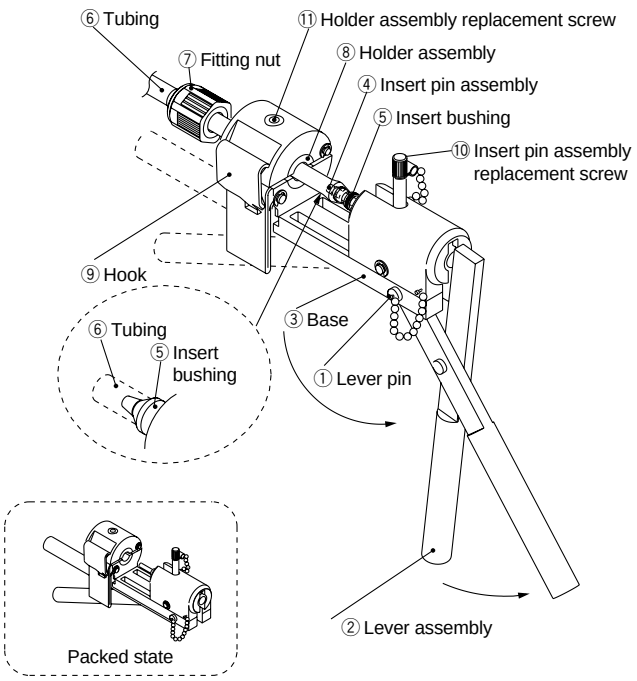
LQ-GL



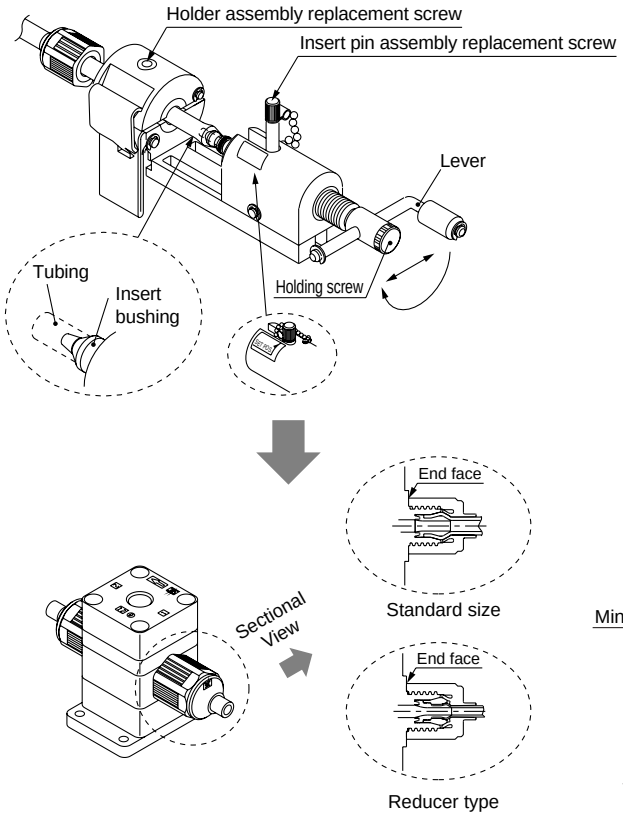
Fitting Assembly Procedure

Assemble fittings following the procedure shown below.

J type



K type



J type fitting assembly procedure

1. 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.
2. Place the **insert bushing** ⑤ on the **insert pin assembly** ④.
3. Cut the end of the **tubing** ⑥ at a right angle and pass it through the **fitting nut** ⑦. After placing the **tubing** ⑥ in the **holder assembly** ⑧, push it onto the **insert bushing** ⑤ until it stops and clamp it with the **hook** ⑨.

   ⚠Caution
   - **When the tubing ⑥ is curved, straighten it out before using it.**
   - **The tubing ⑥ may slip if there is oil or dust, etc., on the holder assembly ⑧. Remove the contamination using alcohol or another suitable cleaner.**
4. Press the **insert bushing** ⑤ into the **tubing** ⑥ by turning the **lever assembly** ②.
5. 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.

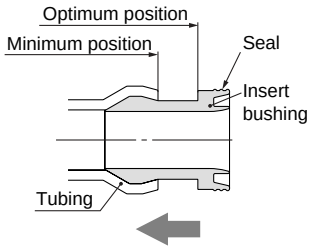
1 → 5 Refer to J type assembly procedure.

6. 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)	
	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.

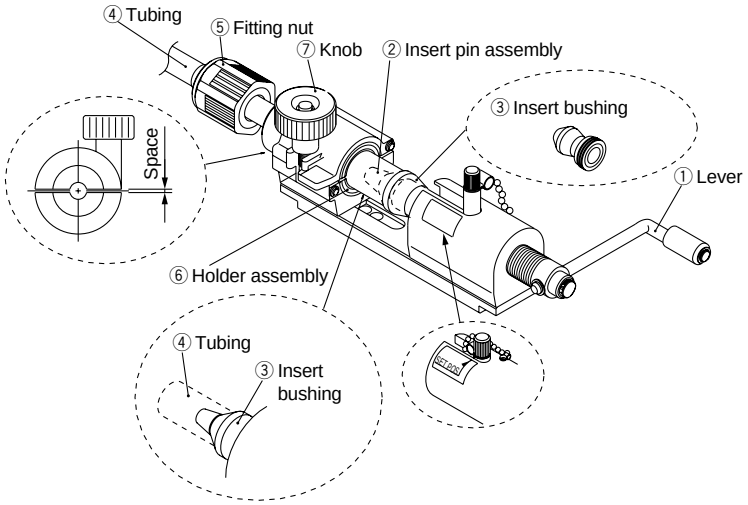


⚠Precautions on installation
- **Be careful not to scratch or dent the seal of the insert bushing. (Refer to the illustration on the left.)**
- **When the insert bushing inserted, its tubing end should be closer to seal side than the minimum position. (Refer to the illustration on the left.)**

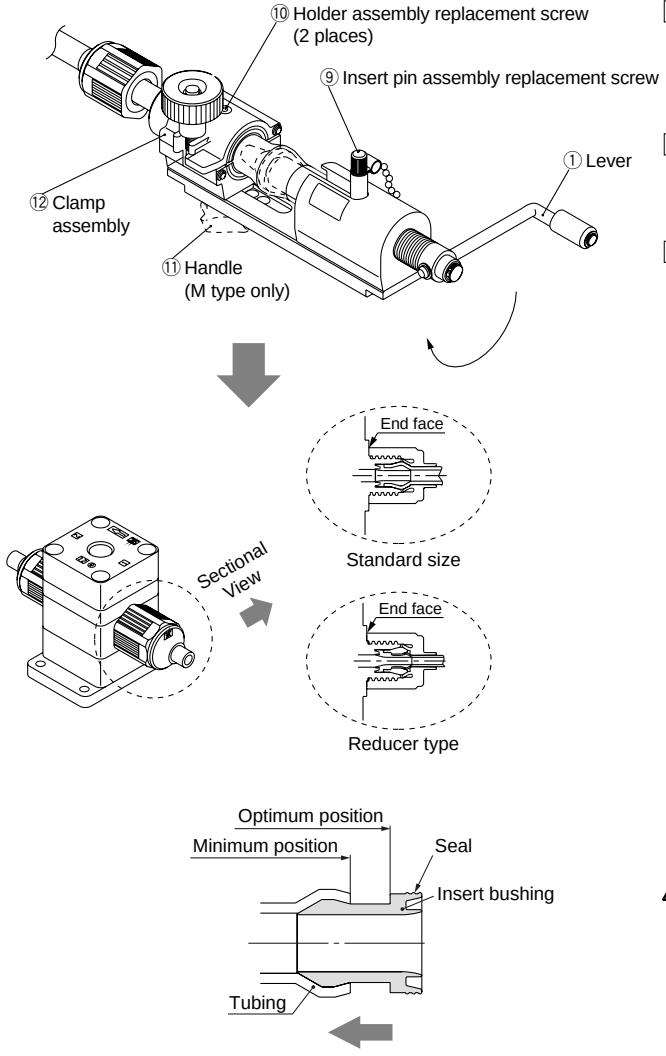
Fitting Assembly Procedure

Assemble fittings following the procedure shown below.

L type



M type



L/M type fitting assembly procedure

1. Turn the **lever** ① and move to SET POS.
2. Place the **insert bushing** ③ on the **insert pin assembly** ②.
3. 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.

   ⚠Caution
   - **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.**
4. 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.)
5. 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.
6. In case of M type for short piping, remove the **handle** ⑪, slide the **clamp assembly** ⑫ to attain the specified length, then secure it again with the **handle** ⑪.
7. Tighten the **fitting nut** ⑤ 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)	
	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.)**

Applicable Fluids

The wetted part material and fluid compatibility check list

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

Table symbols
◎ : The fluid is compatible with the material, and can be used with the products.
○ : In some cases even when the fluid is compatible with the material, it may still permeate from the components and effect other materials.

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.

Series SRF
Safety Instructions

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.

⚠ Warning

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 cm^3/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.

2. 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.

4. 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

⚠Warning

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

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

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

⚠Warning

1. 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.

3. Do not disassemble the product. Products which have been disassembled cannot be guaranteed.

If disassembly is necessary, consult SMC.

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