

Push-In Fitting Type Flow Control Valve for Sparks Condition Throttle (Needle) Valve Brass Series

- Control Actuator Speed and Pneumatic Signals.
 - Adjustable Flow Rate during Air Flow.
 - Suitable for High Temp. and Sparks Condition.
 - Seal Rubber Selection for Various Usage
- Superior in Flame-Retardant and Spatter-Proof by its Brass
 Made Release-Ring
 - Avoid Spatter and Dusts by Protective Cover

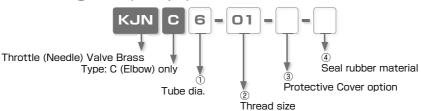


uick Eihaust Valve Series Exhaust

Fixed crifice Series

Series
Check Valve

Silencer Series



1) Tube dia.

Tube dia.	mm size								
Code	4 6 8 10 12								
Size (mm)	ø4	ø6	ø8	ø10	ø12				

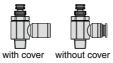
② Thread size

Thread size	Metric thread (mm)	Taper pipe thread							
Code	M5	01 02 03 04							
Size	M5 × 0.8	R1/8	R1/4	R3/8	R1/2				

3 Protective Cover option

No code: with cover

1: without cover



4 Seal rubber material

No code: HNBR

F:FKM N:NBR

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Stainless Series PP Series

Anti-spatte Series Constant Flor Series

Throttle Nae Value Serie Stainles Series

Series

■ Specifications |

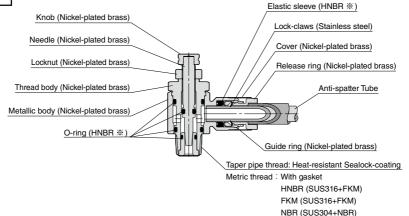
Fluid medium	Air / Water (※)							
Operating pressure range	0~1MPa							
Max. vacuum	-100kPa							
Operating temp. range	HNBR: 0-100°C (No freezing)	FKM ∶ 0 ∼ 120°C (No freezing)	NBR : 0∼60℃ (No freezing)					

- * . Make sure to follow the instructions below when the fluid medium is water.
 - Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.
 - Be sure to place Insert Ring into the tube edge when using water as a fluid medium. There is a possibility to cause damage to the products, the escape of tube and a fluid leakage without Insert Ring.

■ Construction (Seal rubber material: HNBR, with cover)



Symbol



 $\ensuremath{\text{\%}}$. FKM when selecting "F" for Seal rubber material, NBR when selecting "N" .

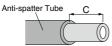
Before using PISCO products, be sure to read "Safety Instructions" and "Safety Instruction Manual" on page 23 to 27 and "Common Safety Instructions for Controllers" on page 367 to 368.

Warning

- 1. When controlling the speed of actuators, slowly release the air by adjusting the needle from a fully closed state. In case the needle is opened, actuator can move suddenly. Turn needle in the clockwise direction to close, and in the counterclockwise to open.
- 2. Slowly turn the needle to release air from a fully closed state, when adjusting air flow. In case large amount of air is supplied in a sudden when the needle is an opened state, the machine may be damaged by the air.
- 3. Be sure to place Insert Ring into the tube edge when the fluid medium is liquid. There is a possibility to cause the escape of tube and a fluid leakage without Insert Ring.
- Surge pressure must be controlled lower than max. operating pressure when using water or liquid as a fluid medium.
- Metallic body is rotatable, but do not swing and rotate it by force or continuously. It may cause damage to the products and a fluid leakage.
- 6. Select seal rubber material considering sufficient margin to the operating temperature range. Seal rubber material can be worn out by heat and may cause a fluid leakage. Perform maintenance periodically and in case leaks are found, replace the product to the new one promptly.
- 7. Throttle (Needle) Valve Brass series has seal rubber material options, but there is no way to identify between each material by seal rubber. Store each product properly not to mix up after opening their packages.

Caution

- 1. Throttle (Needle) valve permits some air leakage. Do not use the products for the application which requires no leakage.
- 2. When using Anti-spatter Tube, peel the cover as the following table shows. It may cause the escape of a tube, a fluid leakage or even impossible to insert the tube into Push-In Fitting, if the tube is not peeled properly.



Tube dia.	Ø4mm	Ø6mm	Ø8mm	Ø10mm	Ø12mm
Peeled length(C)	15mm	16mm	17mm	19.5mm	23mm

■ Applicable Tube and Related Products

Anti-spatter TubeP.646

Tube Fitting Brass SeriesP.212

Speed Controller Anti-spatter SeriesP.422

Speed Controller Brass SeriesP.430

How to adjust the speed

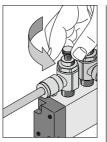
1. Speed adjustment of actuators

Turn the needle in the counterclockwise direction from a fully closed state. The more the needle is opened.

Increasing speed

the faster the actuator moves. Make sure to tighten the locknut at the desired speed. The speed setting can

be changed without tightening the locknut.



② Reducing speed Turn the needle in the clockwise direction when the speed is too fast. Make sure to tighten the locknut at the desired speed. The speed setting can be changed without tightening the locknut.



How to insert and disconnect

1. How to insert and disconnect tubes

① Tube insertion

Insert a tube into Push-In Fitting up to the tube end. Lock-claws bite the tube and fix it automatically, then the elastic sleeve seals around the tube.

Refer to "2. Instructions for Tube Insertion" under "Common Safety Instructions for Fittings".



② Tube disconnection

The tube is disconnected by pushing release-ring to release Lock-claws. Make sure to stop air supply before the tube disconnection.



2. How to tighten thread

(1) Tightening thread

Use a spanner to tighten a hexagonal-column.

Refer to "Table: Recommended tightening torque" under "2. Instructions for Installing Controllers" in "Common Safety Instructions for Controllers".



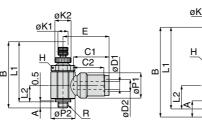


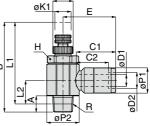




RoHS compliant







Metric thread type

Taper pipe thread type

Unit: mm

Model code	Tube O.D.	Tube O.D.	R	Α	E	3	L	1	L2	Е	C1	C2	αP1	øP2	αK1	αK2	Нех.	Weight						
Model code	øD1	øD2	n	A	max.	min.	max.	min.	LZ			02	ØF I	ØFZ	ØK I	WINZ.	Н	(g)						
KJNC4-M5-□	4	6	M5×0.8	3	32.7	30	29.7	27	8.1	22.6	17.6	15	12.5	12	5	8	11	26.2						
KJNC4-01-	4	0	R1/8	8	44.4	38.3	40.4	34.3	11.6	24.8	17.0	15	12.5	16	8	10	14	44.4						
KJNC6-M5-□			M5×0.8	3	32.7	30	29.7	27	8.1	24.1			12.5	12	5	8	11	26.6						
KJNC6-01- □	6	8	R1/8	8	44.4	38.3	40.4	34.3	11.6	26.1	19.5	16	12.5	16	8	10	14	44.7						
KJNC6-02-□	6	ь	О	б	ō	R1/4	11.1	53.6	46.8	47.6	40.8	15	27.6	19.5 10	14.5	19	10	13	17	71.5				
KJNC6-03-□			R3/8	12.1	59.5	51.5	53.1	45.1	16.8	29.3			14.5	22.5	12	16	21	112.4						
KJNC8-01-	8	8	8		R1/8	8	44.4	38.3	40.4	34.3	11.6	26.9				16	8	10	14	47.1				
KJNC8-02-				8	8	8	8	8	8	8	8 10	10	R1/4	11.1	53.6	46.8	47.6	40.8	15	28.4	4 20.2 17	17 14.5	19	10
KJNC8-03-□			R3/8	12.1	59.5	51.5	53.1	45.1	16.8	30.1				22.5	12	16	21	112.3						
KJNC10-02-□			R1/4	11.1	53.6	46.8	47.6	40.8	15	31.2			18.6	19	10	13	17	85						
KJNC10-03-□	10	12	R3/8	12.1	59.5	51.5	53.1	45.1	16.8	33	23.2	19.5	21.5	22.5	12	16	21	133.6						
KJNC10-04-□			R1/2	13.8	63.2	56	55	47.8	17.6	35.5		21.5	27.5	13	10	27	193.7							
KJNC12-03-	10	1.1	R3/8	12.1	59.5	51.5	53.1	45.1	16.8	36.1	26.2	22	21.6	22.5	12	16	21	139.9						
KJNC12-04-□	12	14	R1/2	13.8	63.2	56	55	47.8	17.6	36.6	⊣ 26 3 L 23 L	21.6	27.5	13	10	27	200.3							

^{* &}quot;L1" and "L2" are reference values for height dimensions after tightening taper thread.

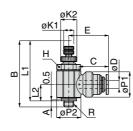
PP Series

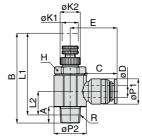
 $[\]divideontimes$ \square in Model code / Replaced with "F" (FKM), or "N" (NBR) for Seal rubber material change

KINC Elbow without cover

RoHS compliant







Metric thread type

Taper pipe thread type

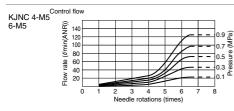
ι	Jnit	mm

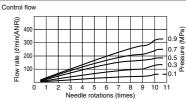
Model code	Tube O.D.	R	Α	E	3	L		L2		С	øP1	øP2	øK1	øK2	Hex.	Weight
Model Code	øD		A	max.	min.	max.	min.	LZ	E .		ØF I	ØFZ	ØKI	WINZ	Н	(g)
KJNC4-M5-1-	4	M5×0.8	3	32.7	30	29.7	27	8.1	19.7	14.5	12.5	12	5	8	11	24.6
KJNC4-01-1-	4	R1/8	8	44.4	38.3	40.4	34.3	11.6	21.7	14.5	12.5	16	8	10	14	42.7
KJNC6-M5-1-		M5×0.8	3	32.7	30	29.7	27	8.1	21.2		12.5	12	5	8	11	24.9
KJNC6-01-1-		R1/8	8	44.4	38.3	40.4	34.3	11.6	23.2	16.6	12.5	16	8	10	14	43
KJNC6-02-1-	6	R1/4	11.1	53.6	46.8	47.6	40.8	15	24.7	10.0	14.5	19	10	13	17	69.7
KJNC6-03-1-		R3/8	12.1	59.5	51.5	53.1	45.1	16.8	26.4		14.5	22.5	12	16	21	110.6
KJNC8-01-1-		R1/8	8	44.4	38.3	40.4	34.3	11.6	24.4	17.7 1		16	8	10	14	45.2
KJNC8-02-1-	8	R1/4	11.1	53.6	46.8	47.6	40.8	15	25.9		14.5	19	10	13	17	69.8
KJNC8-03-1-		R3/8	12.1	59.5	51.5	53.1	45.1	16.8	27.6			22.5	12	16	21	110.4
KJNC10-02-1-		R1/4	11.1	53.6	46.8	47.6	40.8	15	28		18.5	19	10	13	17	80.1
KJNC10-03-1-	10	R3/8	12.1	59.5	51.5	53.1	45.1	16.8	29.8	20	21.5	22.5	12	16	21	128.7
KJNC10-04-1-		R1/2	13.8	63.2	56	55	47.8	17.6	32.3		21.5	27.5	13	10	27	188.8
KJNC12-03-1-	10	R3/8	12.1	59.5	51.5	53.1	45.1	16.8	32.4	22.6	21.5	22.5	12	16	21	132.4
KJNC12-04-1-	12	R1/2	13.8	63.2	56	55	47.8	17.6	34.9	22.0	21.5	27.5	13	16	27	192.8

^{* &}quot;L1" and "L2" are reference values for height dimensions after tightening taper thread.

 $[\]divideontimes$ \square in Model code / Replaced with "F" (FKM), or "N" (NBR) for Seal rubber material change







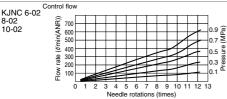
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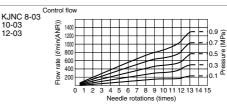
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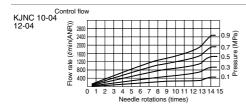
8-01

10-03

12-03







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Stainless Series PP Series

PP Series

⚠ SAFETY Instructions

This safety instructions aim to prevent personal injury and damage to properties by requiring proper use of PISCO products.

Be certain to follow ISO 4414 and JIS B 8370

ISO 4414: Pneumatic fluid power...Recomendations for the application of equipment to transmission and control systems.

JIS B 8370: General rules and safety requirements for systems and their components.

This safety instructions is classified into "Danger", "Warning" and "Caution" depending on the degree of danger or damages caused by improper use of PISCO products.



Danger Hazardous conditions. It can cause death or serious personal injury.



Warning Hazardous conditions depending on usages. Improper use of PISCO products can cause death or serious personal injury.



Products can cause personal injury or damages to properties.

↑ Warning I

- 1. Selection of pneumatic products
 - ① A user who is a pneumatic system designer or has sufficient experience and technical expertise should select PISCO products.
 - 2 Due to wide variety of operating conditions and applications for PISCO products, carry out the analysis and evaluation on PISCO products. The pneumatic system designer is solely responsible for assuring that the user's requirements are met and that the application presents no health or safety hazards. All designers are required to fully understand the specifications of PISCO products and constitute all systems based on the latest catalog or information, considering any malfunctions.
- 2. Handle the pneumatic equipment with enough knowledge and experience
 - ① Improper use of compressed air is dangerous. Assembly, operation and maintenance of machines using pneumatic equipment should be conducted by a person with enough knowledge and experience.
- 3. Do not operate machine / equipment or remove pneumatic equipment until safety is confirmed.
 - ① Make sure that preventive measures against falling work-pieces or sudden movements of machine are completed before inspection or maintenance of these machine.
 - ② Make sure the above preventive measures are completed. A compressed air supply and the power supply to the machine must be off, and also the compressed air in the systems must be exhausted.
 - ③ Restart the machines with care after ensuring to take all preventive measures against sudden movements.



Disclaimer

- PISCO does not take any responsibility for any incidental or indirect loss, such as production line stop, interruption of business, loss of benefits, personal injury, etc., caused by any failure on use or application of PISCO products.
- PISCO does not take any responsibility for any loss caused by natural disasters, fires not related to PISCO products, acts by third parties, and intentional or accidental damages of PISCO products due to incorrect usage.
- 3. PISCO does not take any responsibility for any loss caused by improper usage of PISCO products such as exceeding the specification limit or not following the usage the published instructions and catalog allow.
- PISCO does not take any responsibility for any loss caused by remodeling of PISCO products, or by combinational use with non-PISCO products and other software systems.
- 5. The damages caused by the defect of Pisco products shall be covered but limited to the full amount of the PISCO products paid by the customer.

⚠ SAFETY INSTRUCTION MANUAL

PISCO products are designed and manufactured for use in general industrial machines. Be sure to read and follow the instructions below.

∆ Danger ■

- 1. Do not use PISCO products for the following applications.
 - ① Equipment used for maintaining / handling human life and body.
 - 2 Equipment used for moving / transporting human.
 - ③ Equipment specifically used for safety purposes.

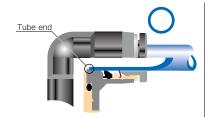
- 1. Do not use PISCO products under the following conditions.
 - ① Beyond the specifications or conditions stated in the catalog, or the instructions.
 - ② Under the direct sunlight or outdoors.
 - ③ Excessive vibrations and impacts.
 - 4 Exposure / adhere to corrosive gas, inflammable gas, chemicals, seawater, water and vapor. *
 - * Some products can be used under the condition above(4), refer to the details of specification and condition of each product.
- 2. Do not disassemble or modify PISCO products, which affect the performance, function, and basic structure of the product.
- 3. Turn off the power supply, stop the air supply to PISCO products, and make sure there is no residual air pressure in the pipes before maintenance and inspection.
- 4. Do not touch the release-ring of push-in fitting when there is a working pressure. The lock may be released by the physical contact, and tube may fly out or slip out.
- 5. Frequent switchover of compressed air may generate heat, and there is a risk of causing burn injury.
- 6. Avoid any load on PISCO products, such as a tensile strength, twisting and bending. Otherwise, there is a risk of causing damage to the products.
- 7. As for applications where threads or tubes swing / rotate, use Rotary Joints, High Rotary Joints or Multi-Circuit Rotary Block only. The other PISCO products can be damaged in these applications.
- 8. Use only Die Temperature Control Fitting Series, Tube Fitting Stainless SUS316 Series, Tube Fitting Stainless SUS316 Compression Fitting Series or Tube Fitting Brass Series under the condition of over 60°C (140° F) water or thermal oil. Other PISCO products can be damaged by heat and hydrolysis under the condition above.
- 9. As for the condition required to dissipate static electricity or provide an antistatic performance, use EG series fitting and antistatic products only, and do not use other PISCO products. There is a risk that static electricity can cause system defects or failures.
- 10. Use only Fittings with a characteristic of spatter-proof such as Antispatter or Brass series in a place where flame and weld spatter is produced. There is a risk of causing fire by sparks.
- 11. Turn off the power supply to PISCO products, and make sure there is no residual air pressure in the pipes and equipment before maintenance. Follow the instructions below in order to ensure safety.
 - $\ensuremath{\bigcirc}$ Make sure the safety of all systems related to PISCO products before maintenance.
 - ② Restart of operation after maintenance shall be proceeded with care after ensuring safety of the system by preventive measures against unexpected movements of machines and devices where pneumatic equipment is used.
 - ③ Keep enough space for maintenance when designing a circuit.
- 12. Take safety measures such as providing a protection cover if there is a risk of causing damages or fires on machine / facilities by a fluid leakage.

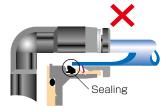


- 1. Remove dusts or drain before piping. They may get into the peripheral machine / facilities and cause malfunction.
- 2. When inserting an ultra-soft tube into push-in fitting, make sure to place an Insert Ring into the tube edge. There is a risk of causing the escape of tube and a fluid leakage without using an Insert Ring.
- 3. The product incorporating NBR as seal rubber material has a risk of malfunction caused by ozone crack. Ozone exists in high concentrations in static elimination air, clean-room, and near the high-voltage motors, etc. As a countermeasure, material change from NBR to HNBR or FKM is necessary. Consult with PISCO for more information.
- 4. Special option "Oil-free" products may cause a very small amount of a fluid leakage. When a fluid medium is liquid or the products are required to be used in harsh environments, contact us for further information.
- 5. In case of using non-PISCO brand tubes, make sure the tolerance of the outer tube diameter is within the limits of Table 1.
 - Table 1. Tube O.D. Tolerance

mm size	Nylon tube	Polyurethane tube	inch size	Nylon tube	Polyurethane tube
Ø1.8mm	_	\pm 0.05mm	Ø1/8	\pm 0.1mm	± 0.15mm
Ø3mm	_	± 0.15mm	Ø5/32	\pm 0.1mm	± 0.15mm
Ø4mm	± 0.1mm	± 0.15mm	Ø3/16	\pm 0.1mm	± 0.15mm
Ø6mm	± 0.1mm	± 0.15mm	Ø1/4	± 0.1mm	± 0.15mm
Ø8mm	± 0.1mm	± 0.15mm	Ø5/16	\pm 0.1mm	± 0.15mm
Ø10mm	± 0.1mm	± 0.15mm	Ø3/8	± 0.1mm	± 0.15mm
Ø12mm	± 0.1mm	± 0.15mm	Ø1/2	\pm 0.1mm	± 0.15mm
Ø16mm	± 0.1mm	± 0.15mm	Ø5/8	\pm 0.1mm	± 0.15mm

- 6. Instructions for Tube Insertion
 - ① Make sure that the cut end surface of the tube is at right angle without a scratch on the surface and deformations
 - ② When inserting a tube, the tube needs to be inserted fully into the pushin fitting until the tubing edge touches the tube end of the fitting as shown in the figure below. Otherwise, there is a risk of leakage.





Tube is not fully inserted up to tube end.

- ③ After inserting the tube, make sure it is inserted properly and not to be disconnected by pulling it moderately.
- **. When inserting tubes, Lock-claws may be hardly visible in the hole, observed from the front face of the release-ring. But it does not mean the tube will surely escape. Major causes of the tube escape are the followings;
 - (1) Shear drop of the lock-claws edge
 - ②The problem of tube diameter (usually small)

Therefore, follow the above instructions from 1 to 3, even lock-claws is hardly visible.

- 7. Instructions for Tube Disconnection
 - ① Make sure there is no air pressure inside of the tube, before disconnecting it.
 - ② Push the release-ring of the push-in fitting evenly and deeply enough to pull out the tube toward oneself. By insufficient pushing of the releasering, the tube may not be pulled out or damaged by scratch, and tube shavings may remain inside of the fitting, which may cause the leakage later
- 8. Instructions for Installing a fitting
 - ① When installing a fitting, use proper tools to tighten a hexagonal-column or an inner hexagonal socket. When inserting a hex key into the inner hexagonal socket of the fitting, be careful so that the tool does not touch lock-claws. The deformation of lock-claws may result in a poor performance of systems or an escape of the tube.
 - ② Refer to Table 2 which shows the recommended tightening torque. Do not exceed these limits to tighten a thread. Excessive tightening may break the thread part or deform the gasket and cause a fluid leakage. Tightening thread with tightening torque lower than these limits may cause a loosened thread or a fluid leakage.
 - ③ Adjust the tube direction while tightening thread within these limits, since some PISCO products are not rotatable after the installation.
 - Table 2: Recommended tightening torque / Sealock color / Gasket materials

Thread type	Thread size	Tightening torque	Sealock color	Gasket materials	
	M3 × 0.5	0.7N·m		0110004	
	M5 × 0.8	1.0 ~ 1.5N·m		SUS304 NBR	
	M6 × 1	2 ~ 2.7N·m			
Metric thread	M3 × 0.5	0.7N·m	_		
	M5 × 0.8	1 ~ 1.5N·m		DOM	
	M6 × 0.75	0.8 ~ 1N·m		POM	
	M8 × 0.75	1 ~ 2N·m			
	R1/8	4.5 ~ 6.5N·m			
Tanar pipe thread	R1/4	7 ~ 9N·m			
Taper pipe thread	R3/8	12.5 ~ 14.5N·m	White	_	
	R1/2	20 ~ 22N·m			
Unified thread	No.10-32UNF	1.0 ~ 1.5N·m	_	SUS304、NBR	
	1/16-27NPT	4.5 ~ 6.5N·m			
Nietienel nine	1/8-27NPT	4.5 ~ 6.5N·m			
National pipe thread taper	1/4-18NPT	7 ~ 9N·m	White	_	
	3/8-18NPT	12.5 ~ 14.5N·m			
	1/2-14NPT	20 ~ 22N·m			

- * These values may differ for some products. Refer to each specification as well.
- 9. Instructions for removing a fitting
 - ① When removing a fitting, use proper tools to loosen a hexagonal-column or an inner hex bolt.
 - ② Remove the sealant stuck on the mating equipment. The remained sealant may get into the peripheral equipment and cause malfunctions.
- 10. Arrange piping avoiding any load on fittings and tubes such as twist, tensile, moment load, shaking and physical impact. These may cause damages to fittings, tube deformations, bursting and the escape of tubes.

Common Safety Instructions for Controllers

Before selecting or using PISCO products, read the following instructions. Read the detailed instructions for individual series as well as the instructions below.

↑ Warning I

- 1. Some products have an air direction to control. Make sure to distinguish the direction by marking on the products. Installing the product with the wrong direction may cause personal injury or property damage.
- 2. Avoid any load on PISCO products such as a tensile strength, twisting, bending, dropping and excessive impacts. These may cause damage to the products.
- 3. Locknut needs to be tightened by hand. Do not use any tool. Using tools to tighten the locknut may cause damage to the products. Also, inadequate tightening may loosen the locknut and the initial setting can be changed.
- 4. Use clean air to supply. Dusts and sludge may result in the change of the initial setting.

- 1. Refer to "Common Safety Instructions for Fittings" for the safety instructions for fitting part.
- 2. Instructions for Installing Controllers
 - ① Use proper tools to tighten a hexagonal-column or a knurling, when installing the controller
 - ② Refer to the following table which shows the recommended tightening torque to tighten thread. Excessive tightening may break the thread part or deform the gasket to cause a fluid leakage. Tightening thread with the tightening torque lower than these limits may cause a loosened thread or a fluid leakage.
 - Table: Recommended tightening torque

(hexagonal-column)

(knurling)

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Thread type	Thread size	Tightening torque
	$M3 \times 0.5$	0.7N·m
Metric thread	$M5 \times 0.8$	1 ∼ 1.5N·m
	$M6 \times 1$	2~2.7N·m
	R1/8	7∼9N·m
Taper pipe thread	R1/4	12∼14N·m
raper pipe trireau	R3/8	22~24N·m
	R1/2	28~30N·m
Unified thread	No.10-32UNF	1.5 ∼ 1.9N·m
	1/16-28NPT	7∼9N·m
N. C. L. C.	1/8-27NPT	7∼9N·m
National pipe thread taper	1/4-18NPT	12∼14N·m
illiead tapel	3/8-18NPT	22~24N·m
	1/2-14NPT	28∼30N·m
Parallel pipe	G3/8	After hand tightening
thread	G1/2	1/2~1 turns

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Thread type	Thread size	Tightening torque		
	M5 × 0.8	1/6 turns		
Metric thread	M6 × 1	after hand		
	M10 × 1	tightening		
Parallel pipe	G3/8	1/2~1 turns after		
thread	G1/2	hand tightening		

- 3. Instructions for removing Controller
 - ① When removing controllers, use proper tools to loosen a hexagonal-column or a knurling.
 - ② Remove the sealant stuck on the mating equipment. The remained sealant may get into the peripheral equipment and cause malfunctions.
- Fixed Orifice Joint Series and Speed Controller Constant Flow Series have deviation of flow rate. Contact us, in case a very accurate amount of flow rate is required.
- If PISCO products generate heat by an adiabatic compression, total temperature including the heat from the product must be controlled within the range of the specification.

Silencer