

Throttle (Needle) Valve SUS316

SUS316 Push-In fitting type needle valve with corrosion resistance

Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)



(1) Throttle (Needle) Valve SUS316

(2) Type

C : Elbow

(3) Tube dia. (øD)

Code	4	6	8	10	12	16
Tube O.D. (mm)	ø4	ø6	ø8	ø10	ø12	ø16

(4) Thread size (øR)

Code	01	02	03	04
Size	R1/8	R1/4	R3/8	R1/2

(6) Thread sealing specification (Optional)

Code	No code	-TP
Specifications	Without sealock or seal tape	Seal tape applied (Applying seal tape on the thread)

(5) Grease specifications (Optional)

Code	No code	-X
Specifications	Oil-free (*1)	Fluorine-based grease (*2)

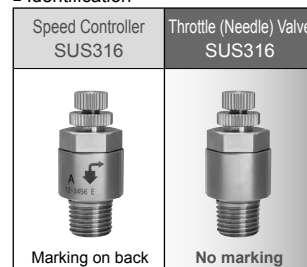
*1. Fluorine coating on rubber seals (FKM)

*2. Fluorochemical grease is applied on rubber seals (FKM)

(7) Packaging specification (Optional)

Code	No code	-C
Specifications	Standard package	Clean-room package

Identification



Characteristics

All metal parts are made of SUS316 stainless steel.

Best suitable for industries such as Food, Chemical, Medical and Semi-conductor manufacturing etc.

All parts are oil-free specification.

The material of sealing rubber is FKM.

The same lock-claws system as tube fitting is adopted.

Easier to disconnect tube compared with conventional product.

Achieved downsizing compared with conventional product.

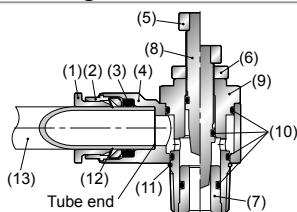
Food Sanitation Act. compliant. *Refer to page 6 for details.

● Clean-room package (optional)

Best suitable for piping in clean environment.

Products are packed in a clean room equivalent to ISO class 6 after washed by clean air.

Sectional drawing



No.	Parts	Material
(1)	Release-ring	SUS316 (*1)
(2)	Guide ring	SUS316
(3)	Elastic sleeve	FKM (*1)
(4)	Fitting body	SUS316
(5)	Knob	SUS316
(6)	Lock nut	SUS316
(7)	Core cylinder	SUS316
(8)	Needle	SUS316
(9)	Metallic body	SUS316 (*2)
(10)	O-ring	FKM (*1)
(11)	C-ring	SUS316
(12)	Lock claws	SUS316
(13)	Tube	Any applicable PISCO tubing

*1. Fluorine coating

*2. There is no sealock on the thread.

Specifications

Fluid medium	Air, Water, Other chemicals (Conditional*)
Max. operating pressure	1.0 MPa
Max. vacuum	-100 kPa
Operating temp. range	-5 to 150°C (No freezing)

△Warning *When the fluid medium is water or other chemicals, be sure to read and follow the conditions below.

1. Surge pressure must be controlled lower than max. operating pressure when using water or liquid as a fluid medium.
2. Tap water in Japan, which is soft water (low mineral content) can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
3. Be sure to place Insert Ring (WR) into the tube edge when using water or liquid as a fluid medium.
4. The specification above may not be applied, depending on the kind of chemicals or mixed gases used as a fluid medium. Make sure to use PISCO products after verifying their suitability on the user side.

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code
Elbow	SSNCøD-R[5][6][7]
SSJNC	SSJNC4-01[5][6][7]
	SSJNC6-01[5][6][7]
	SSJNC8-01[5][6][7]
	SSJNC8-02[5][6][7]
	SSJNC10-02[5][6][7]
	SSJNC10-03[5][6][7]
	SSJNC12-03[5][6][7]
	SSJNC12-04[5][6][7]
	SSJNC16-04[5][6][7]

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

Options

Code	[5] : -X	[6] : -TP	[7] : -C
Specifications	Fluorine-based grease	Seal tape	Clean-room package

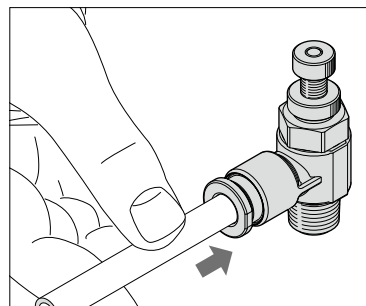
How to connect and disconnect tubes

1. Inserting and removing tubes

①. Inserting tubes

Insert a tube into Push-in fitting up to the tube end. Lock claws bite and hold the tube automatically. The elastic sleeve seals the tube simultaneously.

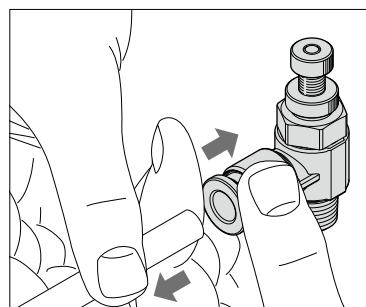
Refer to "8-1. Precautions for tube insertion (push-in fitting)" under "Common Safety Instructions for Controllers" on our website.



②. Removing tubes

Remove a tube by pushing down the release ring and unlocking the Lock claws.

Make sure to shut off the air flow before removing the tube.



2. Tightening the thread

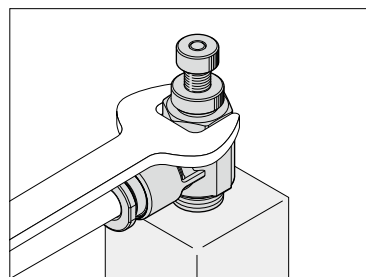
①. Tightening the thread

Use a wrench to tighten a hexagonal head part of the valve. The taper pipe thread type model has no sealock application. Apply seal tape or sealant on the thread as needed.

Refer to the table below "Tightening torque" for tightening the thread.

●Table: Tightening torque

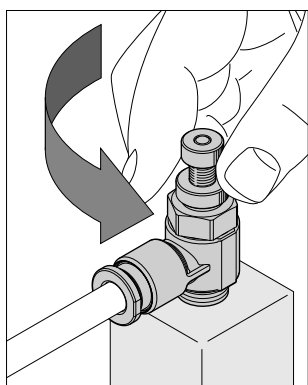
Thread	Size	Tightening torque (N·m)
Taper pipe thread	R1/8	4.5 ~ 6.5
	R1/4	7 ~ 9
	R3/8	12.5 ~ 14.5
	R1/2	20 ~ 22



How to adjust flow rate

①. To increase flow rate

Turn the needle counterclockwise from the fully-closed position. At the desired flow rate, be sure to tighten the lock nut so that the flow rate setting remains constant.



②. To reduce flow rate

Turn the needle clockwise if the flow rate increases too much and needs to be reduced. At the desired flow rate, be sure to tighten the lock nut so that the flow rate setting remains constant.

