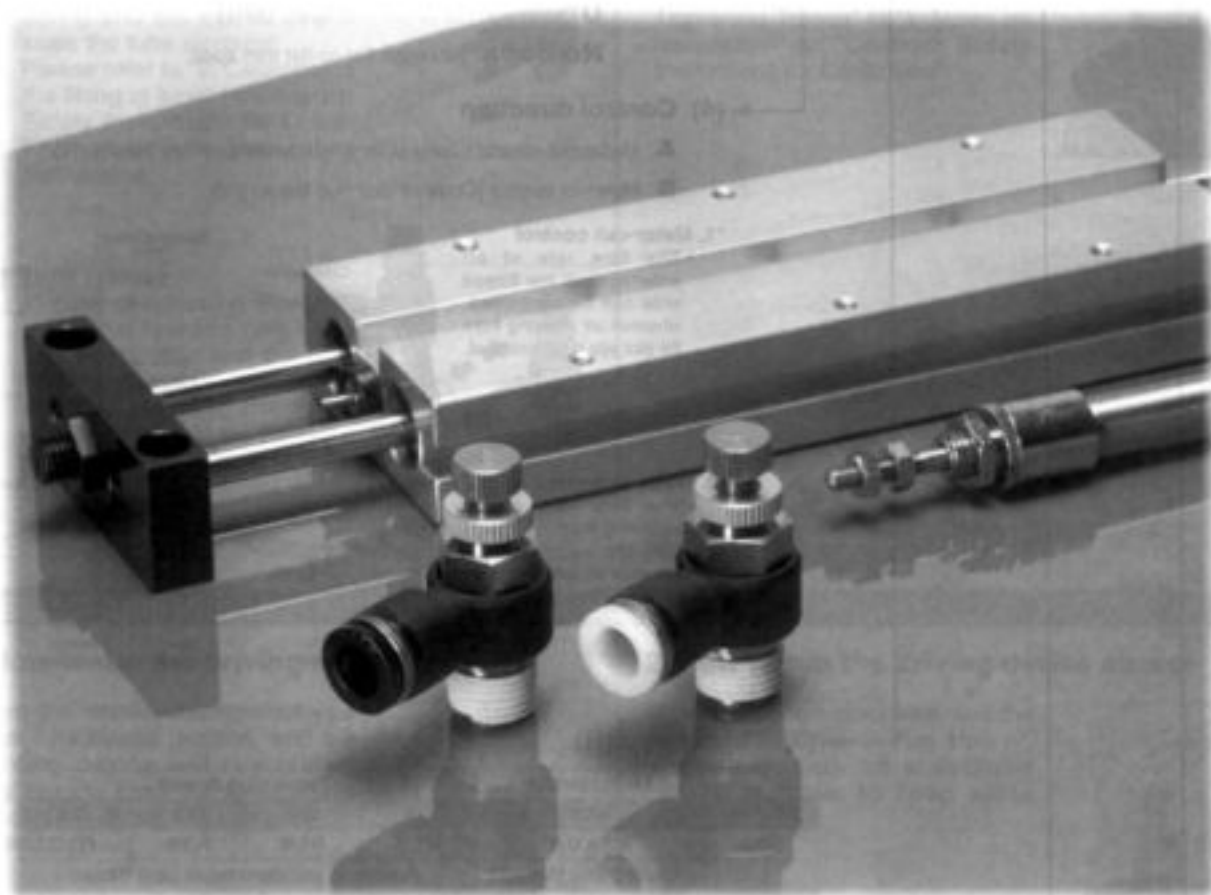


Speed Controller

***Maintaining basic functions,
this low-cost Speed Controller achieves
high-cost performance.***



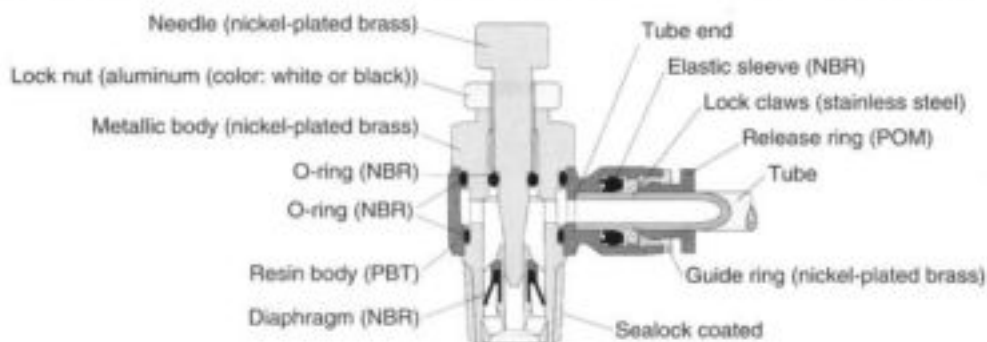
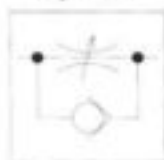
- The Speed Controller controls the operation speed of a driving device.
- The lead-out directions are free thanks to rotation of the resin body and joint.

Specifications

Fluid admitted	Air
Max. service pressure	0.9MPa (9.18kgf/cm ²)
Check valve operating pressure	0.05MPa (0.51kgf/cm ²)
Service temperature range	0 ~ 60°C

Construction

Marking
symbol



Speed Controller

Model Designation (Example)

JSC (1) - **1/4** (2) - **N1** (3) **A** (4) **U** (5) **T**

→ (5). Hexagon flat-to-flat specification

U: Hexagon flat-to-flat inch spec. (NPT)

No code: Hexagon flat-to-flat mm spec.

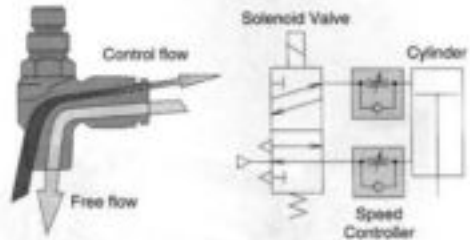
→ (4). Control direction

A: Meter-out control (Color of lock nut: white (primary color)) (*1)

B: Meter-in control (Color of lock nut: black) (*2)

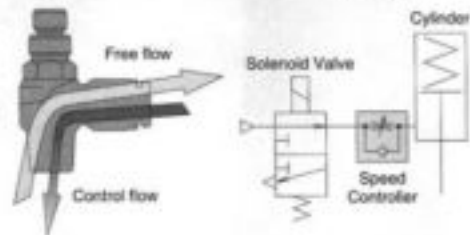
***1. Meter-out control**

• The flow rate of air entering from the thread side can be controlled, whereas air entering from the joint side is not controlled.



***2. Meter-in control**

• The flow rate of air entering from the joint side can be controlled, whereas air entering from the thread side is not controlled.



→ (3). Thread size (R)

	Metric thread	Taper pipe thread			
Code	M5	01	02	03	04
Size	M5×0.8	R1/8	R1/4	R3/8	R1/2
	Unified fine thread	American standard taper pipe thread			
Code	U10	N1	N2	N3	N4
Size	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

→ (2). Tube dia. (øD)

	mm size				
Code	4	6	8	10	12
Dia. (mm)	4	6	8	10	12
	inch size				
Code	5/32	1/4	5/16	3/8	1/2
Dia. (inch)	5/32	1/4	5/16	3/8	1/2

→ (1). Type

Connection and Disconnection

1. How to fit and release Tubing

(1). Tube insertion

Simply insert a tubing to the end of Speed Controller. The lock claws automatically fix the tubing and the elastic sleeve seals the tube surround. Please refer to "2. Cautions on the fitting of tube" in "Common Safety Instructions for Quick-Fitting Joint" for other instructions.



(2). Tube release

In case of releasing the tube, push the release ring. The lock claws open and the tube can be released. Before releasing the tube, make certain that the pressure inside the tube is zero.



2. How to tighten the screw

Tighten the outside hexagon by a spanner. (Please refer to the text for detail.) Please refer to "Table. Recommended Tightening Torque" in "1. Notes on installation" on "Common Safety Instructions for Controllers".



Speed Adjustment

1. How to run the driving device faster

Turn the needle counterclockwise from fully closed position, and the driving device will run faster. Tighten the Lock nut at desirable speed in order to keep same speed.



2. How to run the driving device slower

Turn the needle clockwise, and the driving device will run slower. Tighten the Lock nut at desirable speed in order to keep same speed.



⚠ Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 19 to 21 and "Common Safety Instructions for Controllers" on page 24.

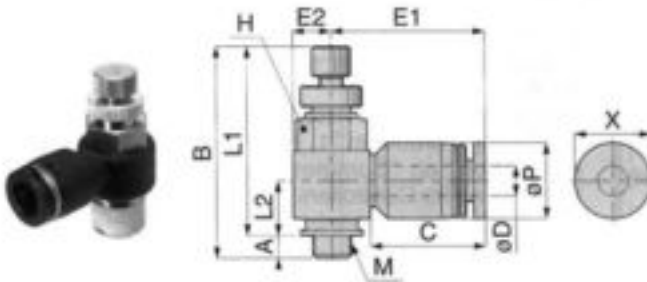
Warning

1. Adjust the speed of the actuator by opening the needle gradually from the fully closed position. With the needle open, there are chances of the actuator flying out. Turn the needle clockwise to close or counterclockwise to open.
2. Do not subject the product with a rotatable resin to forcible swinging or rotation. Otherwise the body may suffer damage or develop leakage.

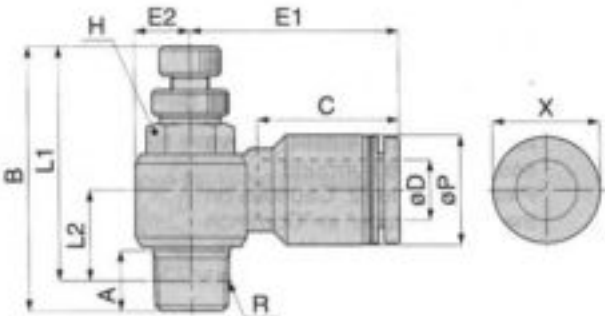
Caution

1. The Speed Controller is designed to tolerate some air flow at fully closed position. Therefore do not use it for applications that permits no air flow.

Appearance Dimension for Metric thread



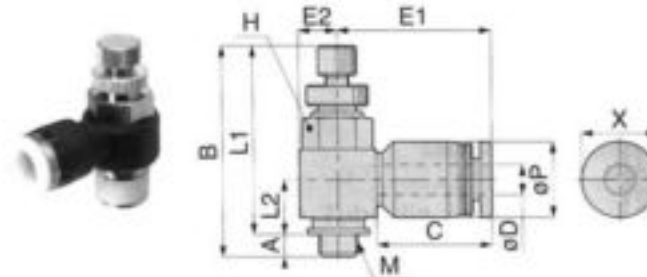
Appearance Dimension for Taper pipe thread (PT)



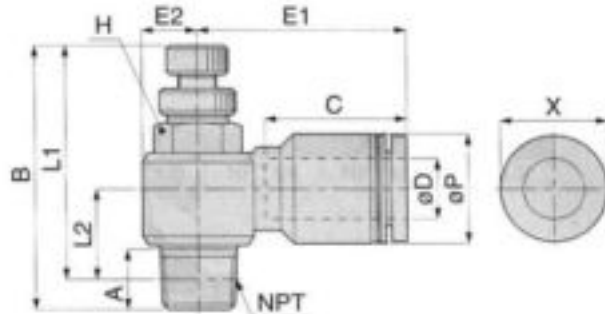
Unit: mm

Model	OD (Tube dia.)	M/R	A	B		L1		L2	oP	C	E1	E2	H (Hex.)	X	Y	Weight (g)
				max	min	max	min									
JSC4-M5□T	4	M5×0.8	2.9	29.7	27	26.8	24.1	7.2	10	14.9	19.9	4.9	8	9.9		8.5
JSC4-01□T		R1/8	8	40.7	34.4	36.7	30.4	10.7			21.4	7.2	10			18
JSC6-M5□T	6	M5×0.8	2.9	29.7	27	26.8	24.1	8.4	12.5	17	24	4.9	8	11.8		9.5
JSC6-01□T		R1/8	8	40.7	34.4	36.7	30.4	10.9			23.5	7.2	10			19
JSC6-02□T		R1/4	11	47.8	41.4	41.8	35.4	12.2			25.5	9.2	14			36
JSC8-01□T	8	R1/8	8	40.7	34.4	36.7	30.4	11.9	14.5	18.1	26.9	7.2	10	13.8		20
JSC8-02□T		R1/4	11	47.8	41.4	41.8	35.4	13.2			28.4	9.2	14			38
JSC10-02□T	10	R1/4	11	47.8	41.4	41.8	35.4	14.8	17.5	20.2	30.9	9.2	14	16.8		41
JSC10-03□T		R3/8	12	53.7	46.5	47.3	40.1	16.7			31.2	11	19			68
JSC12-03□T	12	R3/8	12	53.7	46.5	47.3	40.1	18.4	21	23.4	36.9	11	19	19.8		71
JSC12-04□T		R1/2	15	59.3	52.3	51.1	44.1	19.7			36.4	14	24			108

Appearance Dimension for Unified thread



Appearance Dimension for Pipe thread general purpose (NPT)



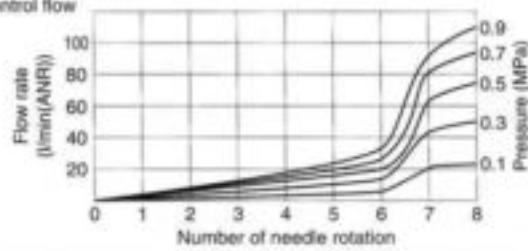
Unit: mm

Model	OD (Tube dia.)	UNFNPT	A	B		L1		L2	oP	C	E1	E2	H (Hex.)	X	Y	Weight (g)
				max	min	max	min									
JSC5/32-U10□UT	5/32	No. 10UNF	2.9	29.7	27	26.8	24.1	7.2	10	14.9	19.9	4.9	5/16	9.9		8.5
JSC5/32-N1□UT		NPT1/8	8	40.7	34.4	36.7	30.4	10.7			21.4	7.2	7/16			18
JSC1/4-U10□UT	1/4	No. 10UNF	2.9	29.7	27	26.8	24.1	8.4	12.5	17	24	4.9	5/16	11.8		9.5
JSC1/4-N1□UT		NPT1/8	8	40.7	34.4	36.7	30.4	10.9			23.5	7.2	7/16			19
JSC1/4-N2□UT		NPT1/4	11	47.8	41.4	41.8	35.4	12.2			25.5	9.2	9/16			36
JSC5/16-N1□UT	5/16	NPT1/8	8	40.7	34.4	36.7	30.4	11.9	14.5	18.1	26.9	7.2	7/16	13.8		20
JSC5/16-N2□UT		NPT1/4	11	47.8	41.4	41.8	35.4	13.2			28.4	9.2	9/16			38
JSC3/8-N2□UT	3/8	NPT1/4	11	47.8	41.4	41.8	35.4	14.8	17.5	20.2	30.9	9.2	9/16	16.8		41
JSC3/8-N3□UT		NPT3/8	12	53.7	46.5	47.3	40.1	16.7			31.2	11	3/4			68
JSC1/2-N3□UT	1/2	NPT3/8	12	53.7	46.5	47.3	40.1	18.4	21	23.4	36.9	11	3/4	19.8		71
JSC1/2-N4□UT		NPT1/2	15	59.3	52.3	51.1	44.1	19.7			36.4	14	1			108

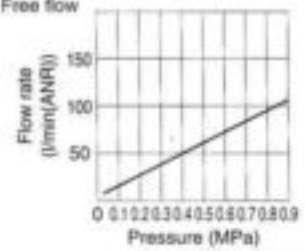
Characteristics

JSC 4-M5 □ T
 6-M5 □ T
 5/32-U10 □ UT
 1/4-U10 □ UT

Control flow

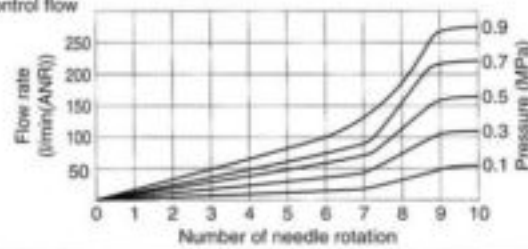


Free flow

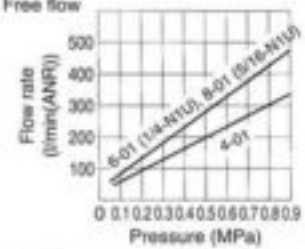


JSC 4-01 □ T
 6-01 □ T
 8-01 □ T
 5/32-N1 □ UT
 1/4-N1 □ UT
 5/16-N1 □ UT

Control flow

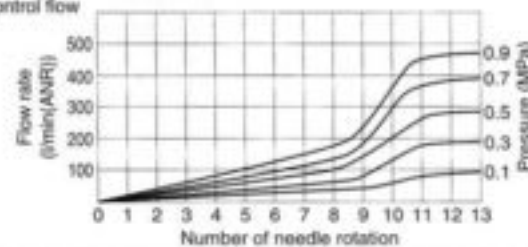


Free flow

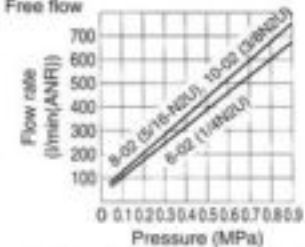


JSC 6-02 □ T
 8-02 □ T
 10-02 □ T
 1/4-N2 □ UT
 5/16-N2 □ UT
 3/8-N2 □ UT

Control flow

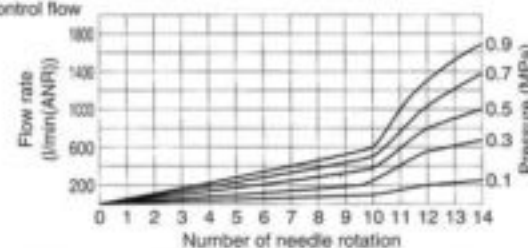


Free flow

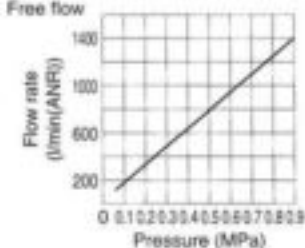


JSC 10-03 □ T
 12-03 □ T
 3/8-N3 □ UT
 1/2-N3 □ UT

Control flow

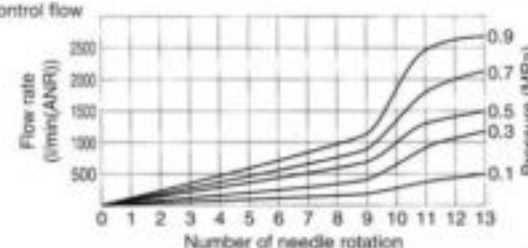


Free flow



JSC 12-04 □ T
 1/2-N4 □ UT

Control flow



Free flow

