

Push-to-Connect Speed Controllers

For Pneumatic Applications

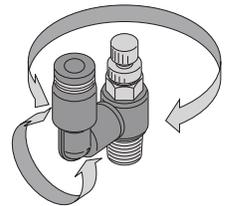




Push-In Type Flow Control Valve Flow Controller Series

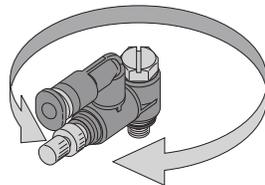
- Flow Control Valve - Meter-out (Exhaust) and Meter-in (Supply) controls for cylinder/actuator
- See Needle Valve for Bilateral flow control

● Rotatable Resin Body (JSS Type)

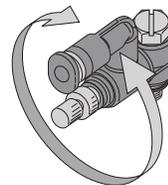


- Rotatable Body A / B
Direction and Fitting part.
Easy Tubing Insertion /
Disconnection (JSM Type)

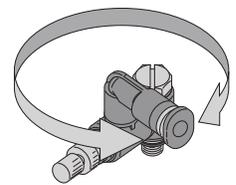
Rotatable Resin Body A



Rotatable Resin Body B



Rotatable Fitting

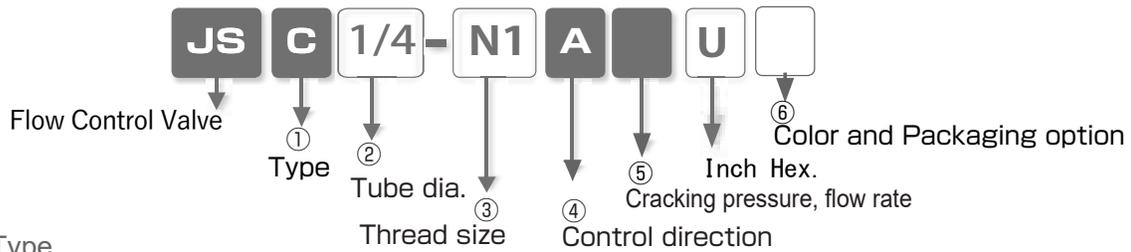


- In-Line Straight type has been renewed to smaller In-line type.
Achieved downsizing of In-line type.

- Optional Selection of Body Color (light-gray) and Clean-Room Package.

Fluorine-based grease is used on O-ring for clean-room package.
Products are packed in a clean room equivalent to ISO class 6 after cleaning.

Model Designation (Example)



①. Type

Code	Type	Code	Type	Code	Type	Code	Type
C	Elbow / Banjo	S	Universal	MU	In-line Straight	M	Banjo Universal

②. Tubing outside dia.

Tube dia.	Inch size							Metric (mm)				
Code	1/8	5/32	3/16	1/4	5/16	3/8	1/2	4	6	8	10	12
O.D.(mm)	ø3.2	ø3.97	ø4.76	ø6.35	ø7.94	ø9.53	ø12.7	ø4	ø6	ø8	ø10	ø12
O.D.(Inch)	ø1/8"	ø5/32"	ø3/16"	ø1/4"	ø5/16"	ø3/8"	ø1/2"					

③. Thread size (※ No code entry for In-line straight type (JSMU))

Thread size	Unified	Metric		National pipe tapered thread				Taper pipe thread				
Code	U10	M3	M5	N0	N1	N2	N3	N4	01	02	03	04
Size	10-32UNF	M3×0.5	M5×0.8	1/16NPT	1/8NPT	1/4NPT	3/8NPT	1/2NPT	R1/8	R1/4	R3/8	R1/2

※ The unit of wrench size is inch (the code suffix is "U").

※ R thread is same as BSPT

④. Control direction (※ No code entry for In-line straight type (JSMU))

Code	A	B
Control direction	<p>Meter-out (Exhaust)</p> <p>■ Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side.</p>	<p>Meter-in (Supply)</p> <p>■ Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.</p>
Identification	"A" is marked on the top of the knob. Locknut color: Silver	"B" is marked on the top of the knob. Locknut color: Black

⑤. Check valve specification(※ No code entry for In-line straight type (JSMU))

No code : Standard

K : Low cracking pressure type - Check seal cracking pressure: 2.4psi (0.02MPa), operating pressure range: 0.725~7.25psi (0.05~0.5MPa) ※ "K" is marked on the top of needle.

H : High-flow type comes with only meter-out (Exhaust) control(A).

L : Low-flow type

⑥. Color option, Packaging option

Code	Specification (color / Cleanroom)	Color combination		Remarks
		Release ring(※)	Resin Body Color	
No Code	Standard	Black	Black	
-C	Cleanroom package	Light-Blue	Light-Gray	optional selection
W	color: Light-Gray	Light-Gray	Light-Gray	optional selection
W-C	Light-Gray&Cleanroom	Light-Gray	Light-Gray	optional selection

※ 1. Release-ring color is white for inch-size products.

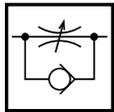
※ 2. Clean-room package is not available for Universal type (M).

※ 3. Ask us for the cleanroom package details for imperial sizes.

Specifications

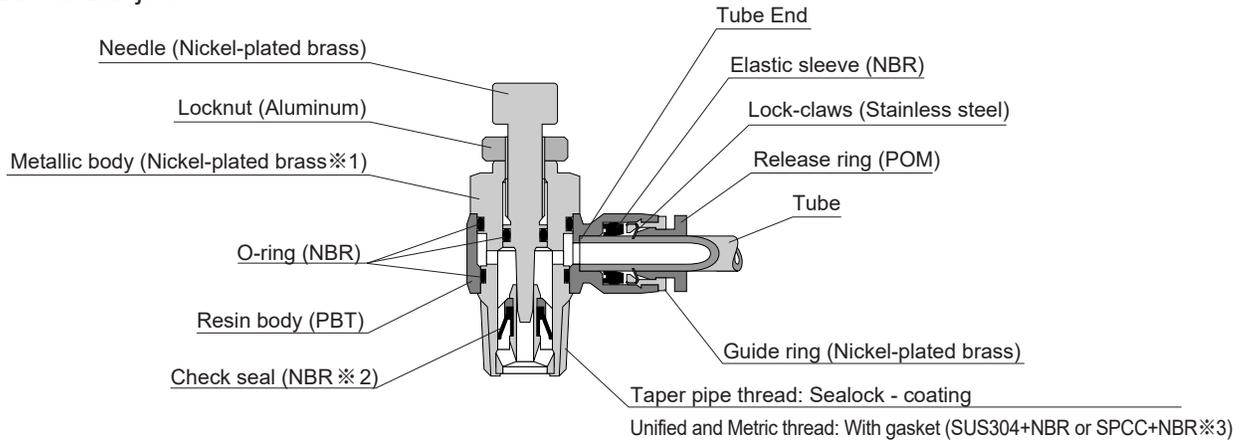
Type	Elbow · Universal · Banjo Universal	In-Line Straight
Fluid medium	Air	
Operating pressure range	14.5 ~ 130psi (0.1 ~ 0.9MPa) H type:14.5psi~102psi (0.05~0.7MPa)	7.25~145psi (0.05 ~ 1.0 MPa)
Check valve cracking pressure	7.25psi (0.05MPa) K type : 2.4psi (0.02MPa)	0.725psi (0.005MPa)
Operating temp. range	32 ~ 140°F (0 ~ 60°C) (no freezing)	

Construction



Symbol

● Elbow/Banjo : JSC

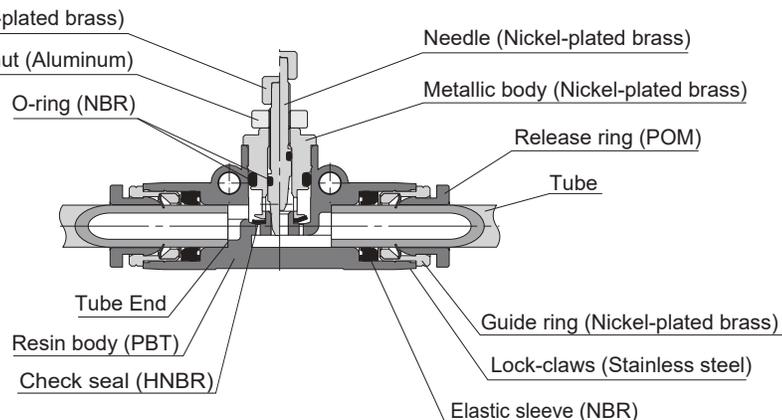


※ 1. Metallic body with M3 thread is made of special stainless steel (Austenite or ferritic stainless steel with SUS303 equivalent corrosivity)

※ 2. Low cracking pressure type : NBR

※ 3. Clean-room package type : POM

● In-Line : Union Straight : JSMU



Types and Combinations

JSC	Elbow / Banjo	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	10-32 UNF	⊙																	
	1/8 NPT	⊙																	
	1/4 NPT	⊙																	
	3/8 NPT	⊙																	
	1/2 NPT	⊙																	
	M3 x 0.5	⊙																	
	M5 x 0.8	⊙																	
	R 1/8																		
	R 1/4																		
	R 3/8																		

JSS	Universal	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
	10-32 UNF	⊙																	
	1/8 NPT	⊙																	
	1/4 NPT	⊙																	
	3/8 NPT	⊙																	
	1/2 NPT	⊙																	
	M3 x 0.5																		
	M5 x 0.8																		
	R 1/8																		
	R 1/4																		
	R 3/8																		

JSM	Banjo Universal	Thread	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		M5 x 0.8																	

JSMU	In-Line Straight	Tubing	Tubing O.D. (inch)					Tubing O.D. (mm)											
			1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	1.8	2	3	4	6	8	10	12	16
		1/8	⊙																
		5/32		⊙															
		3/16			⊙														
		1/4				⊙													
		5/16					⊙												
		3/8						⊙											
		1/2							⊙										
		5/8								⊙									
		1.8																	
		2																	
		3																	
		4																	
		6																	
		8																	
		10																	
		12																	
	16																		

Additional combinations may be available.
Please contact Koganei for any inquiries.



Standard Size List

Connection: Thread ⇔ Tube

NPT, UNF thread

Type	Thread size	Tube O.D.						
		1/8	5/32	3/16	1/4	5/16	3/8	1/2
JSC Elbow/Banjo	10-32UNF	●	●	●	●			
	1/8NPT		●	●	●	●		
	1/4NPT			●	●	●	●	
	3/8NPT			●	●	●	●	●
	1/2NPT				●	●	●	●

Type	Thread size	Tube O.D.						
		1/8	5/32	3/16	1/4	5/16	3/8	1/2
JSS Universal	10-32UNF	●	●	●	●			
	1/8NPT		●	●	●	●		
	1/4NPT			●	●	●	●	
	3/8NPT			●	●	●	●	●
	1/2NPT				●	●	●	●

Metric, R thread

Type	Thread size	Tube O.D.										
		3	4	6	8	10	12	1/8	1/4	5/16	3/8	
JSC Elbow/Banjo	M3 × 0.5	●	●					●				
	M5 × 0.8	●	●	●				●	●			
	R1/8		●	●	●				●	●		
	R1/4			●	●	●				●	●	●
	R3/8			●	●	●	●			●	●	●
R1/2				●	●	●						
JSM Banjo universal	M5 × 0.8	●										

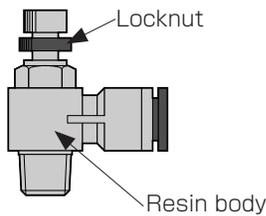
Type	Thread size	Tube O.D.										
		3	4	6	8	10	12	1/8	1/4	5/16	3/8	
JSS Universal	M3 × 0.5	●	●					●				
	M5 × 0.8	●	●	●				●	●			
	R1/8		●	●	●				●	●		
	R1/4			●	●	●				●	●	●
	R3/8			●	●	●	●			●	●	●
	R1/2				●	●	●					

In-Line Connection: Tube ⇔ Tube (Equal dia.)

Type	Thread size	Tube O.D.										
		4	6	8	10	12	5/32	1/4	5/16	3/8	1/2	
JSMU In-line Straight		●	●	●	●	●	●	●	●	●	●	●

❖ Ask us for 1/8" In-line Union Straight

How to identify the series of Flow Control Valve



Series	Resin body color	Locknut color		Marking on needle	
		A type	B type	A type	B type
Standard	Black	Silver	Black	A (AK)	B (BK)
Clean-room package	Light-gray				
High-flow Series	Black	Blue	—	AG	—
Low-flow Series	Black	Silver	Black	AT	BT
SUS303 Series	Black	Silver	Black	A	B
PP Series	Semitransparent	Silver	Silver	A (AK)	B (BK)

※ 1. () is for low cracking pressure type.

※ Ask for the imperial size clean-room package which may be different from the above spec.

❖ NPT, Unified thread models

JSC Elbow/Banjo



MODEL	D	R
JSC1/8-U10□U□	1/8"	10-32UNF
JSC5/32-U10□U□	5/32"	10-32UNF
JSC5/32-N1□U□		NPT1/8
JSC3/16-U10□U□	3/16"	10-32UNF
JSC3/16-N1□U□		NPT1/8
JSC3/16-N2□U□		NPT1/4
JSC3/16-N3□U□		NPT3/8
JSC1/4-U10□U□	1/4"	10-32UNF
JSC1/4-N1□U□		NPT1/8
JSC1/4-N2□U□		NPT1/4
JSC1/4-N3□U□		NPT3/8
JSC5/16-N1□U□	5/16"	NPT1/8
JSC5/16-N2□U□		NPT1/4
JSC5/16-N3□U□		NPT3/8
JSC5/16-N4□U□		NPT1/2
JSC3/8-N2□U□	3/8"	NPT1/4
JSC3/8-N3□U□		NPT3/8
JSC3/8-N4□U□		NPT1/2
JSC1/2-N3□U□	1/2"	NPT3/8
JSC1/2-N4□U□		NPT1/2
JSC6-U10□U□	6mm	10-32UNF
JSC6-N1□U□		NPT1/8
JSC6-N2□U□		NPT1/4
JSC10-N2□U□	10mm	NPT1/4
JSC10-N3□U□		NPT3/8

Large-Flow model



MODEL	D	R
JSC1/4-N1AHU□	1/4"	NPT1/8
JSC1/4-N2AHU□		NPT1/4
JSC3/8-N2AHU□	3/8"	NPT1/4
JSC3/8-N3AHU□		NPT3/8

JSS Universal



MODEL	D	R
JSS1/8-U10□(K)U□	1/8"	10-32UNF
JSS5/32-U10□(K)U□	5/32"	10-32UNF
JSS5/32-N1□(K)U□		NPT1/8
JSS3/16-U10□U□	3/16"	10-32UNF
JSS3/16-N1□U□		NPT1/8
JSS3/16-N2□U□		NPT1/4
JSS1/4-U10□(K)U□	1/4"	10-32UNF
JSS1/4-N1□(K)U□		NPT1/8
JSS1/4-N2□(K)U□		NPT1/4
JSS5/16-N1□U□	5/16"	NPT1/8
JSS5/16-N2□U□		NPT1/4
JSS5/16-N3□U□		NPT3/8
JSS3/8-N2□U□	3/8"	NPT1/4
JSS3/8-N3□U□		NPT3/8
JSS1/2-N3□U□	1/2"	NPT3/8
JSS1/2-N4□U□		NPT1/2

Low Pressure Operating Type



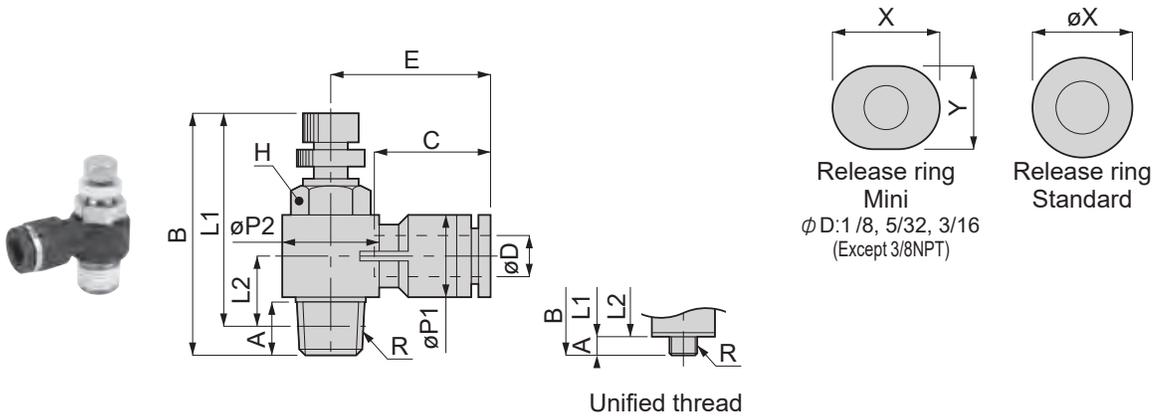
MODEL	D	R
JSC1/8-U10□KU□	1/8"	10-32UNF
JSC5/32-U10□KU□	5/32"	10-32UNF
JSC5/32-N1□KU□		NPT1/8
JSC1/4-U10□KU□	1/4"	10-32UNF
JSC1/4-N1□KU□		NPT1/8
JSC1/4-N2□KU□		NPT1/4

■ Connection: Thread ⇔ Tube

JSC Elbow/Banjo

NPT and UNF thread

RoHS compliant

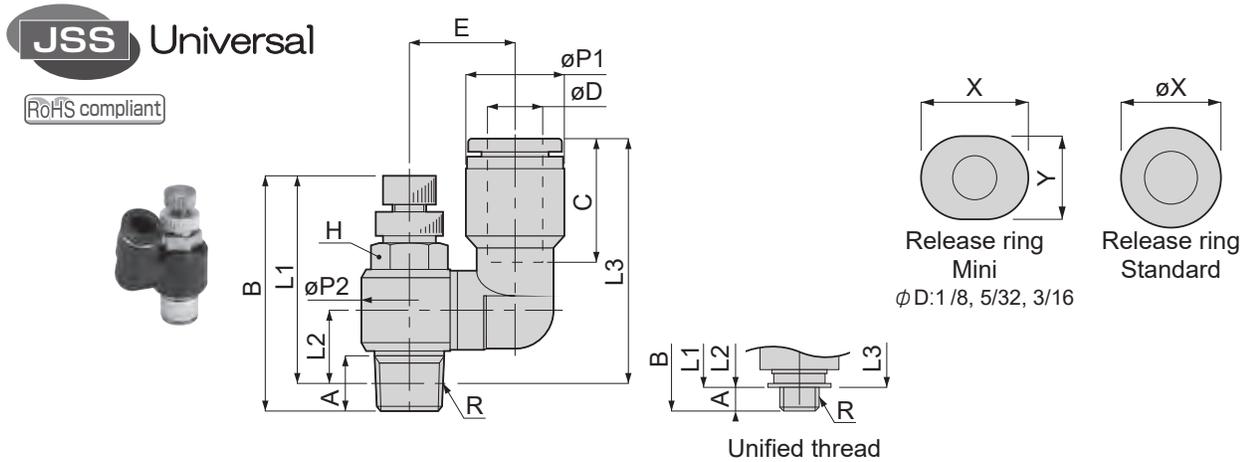


Unit : mm

Model code	Tube O.D øD	R	A	B		L1		L2	øP1	øP2	Tube end C	E	Hex. (inch)	X (øX)	Y	Weight (g)	CAD file name	
				max.	min.	max.	min.											
JSC1/8-U10④⑤⑥	1/8"	10-32UNF	2.9	29.7	27	26.8	24.1	6.7	8	9.8	11	15.4	5/16"	9.8	7.8	7.3	JSC1_8-U10_U	
JSC5/32-U10④⑤⑥	5/32"	10-32UNF	2.9	29.7	27	26.8	24.1	6.7	8	9.8	11	15.4	5/16"	9.8	7.8	7.5	JSC5_32-U10_U	
JSC5/32-N1④⑤⑥		1/8NPT	8	41.5	34.9	37.3	30.7	10.6				14.4	18			JSC5_32-N1_U		
JSC3/16-U10④⑤⑥	3/16"	10-32UNF	2.9	29.7	27	26.8	24.1	7.5	10.5	14.4	11.7	17.6	5/16"	11.8	9.8	8	JSC3_16-U10_U	
JSC3/16-N1④⑤⑥		1/8NPT	8	41.5	34.9	37.3	30.7	10.6				18.4	7/16"			19	JSC3_16-N1_U	
JSC3/16-N2④⑤⑥		1/4NPT	11.1	48.9	42.2	43.1	36.4	12.4				18.4	9/16"			35	JSC3_16-N2_U	
JSC3/16-N3④⑤⑥		3/8NPT	13.2	54.4	46.9	48.3	40.8	15.6				14.5	22			29.4	3/4"	—
JSC1/4-U10④⑤⑥	1/4"	10-32UNF	2.9	29.7	27	26.8	24.1	8.4	12.4	14.4	17	24	5/16"	11.8	—	9.4	JSC1_4-U10_U	
JSC1/4-N1④⑤⑥		1/8NPT	8	41.5	34.9	37.3	30.7	10.8				18.4	7/16"			20	JSC1_4-N1_U	
JSC1/4-N2④⑤⑥		1/4NPT	11.1	48.9	42.2	43.1	36.4	12.4				18.4	9/16"			37	JSC1_4-N2_U	
JSC1/4-N3④⑤⑥		3/8NPT	13.2	54.4	46.9	48.3	40.8	15.6				14.5	22			29	3/4"	65
JSC5/16-N1④⑤⑥	5/16"	1/8NPT	8	41.5	34.9	37.3	30.7	11.8	14.4	18.4	18.1	26.9	7/16"	13.8	—	22	JSC5_16-N1U	
JSC5/16-N2④⑤⑥		1/4NPT	11.1	48.9	42.2	43.1	36.4	13.4				18.4	9/16"			38	JSC5_16-N2U	
JSC5/16-N3④⑤⑥		3/8NPT	13.2	54.4	46.9	48.3	40.8	15.6				22	28.9			3/4"	65	JSC5_16-N3U
JSC5/16-N4④⑤⑥		1/2NPT	16	59.7	52.4	51.5	44.2	18				28	31			1"	115	JSC5_16-N4U
JSC3/8-N2④⑤⑥	3/8"	1/4NPT	11.1	48.9	42.2	43.1	36.4	15	17.6	22	20.2	30.9	9/16"	16.8	—	41	JSC3_8-N2U	
JSC3/8-N3④⑤⑥		3/8NPT	13.2	54.4	46.9	48.3	40.8	16.9				22	31.2			3/4"	69	JSC3_8-N3U
JSC3/8-N4④⑤⑥		1/2NPT	16	59.7	52.4	51.5	44.2	18				28	33.6			1"	118	JSC3_8-N4U
JSC1/2-N3④⑤⑥	1/2"	3/8NPT	13.2	54.4	46.9	48.3	40.8	18.6	21	22	23.7	37.2	3/4"	19.8	—	72	JSC1_2-N3U	
JSC1/2-N4④⑤⑥		1/2NPT	16	59.7	52.4	51.5	44.2	19.7				28	36.7			1"	121	JSC1_2-N4U

- ※ 1. ④ in model code : Replaced with "A" for Meter-out (Exhaust), "B" for Meter-in (Supply) control.
- ※ 2. ⑤ in Model code / Replaced with "K" for Low cracking pressure type.
(No ⑤ in Model code indicates Low cracking pressure type is not available.)
- ※ 3. ⑥ in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.
- ※ 4. "L1" and "L2" are reference values for height dimensions after tightening a taper thread.
- ※ 5. Value in [] is for cleanroom packaging.

NPT and UNF thread



Unit : mm

Model code	Tube O.D. øD	R	A	B		L1		L2	L3	øP1	øP2	Tube end C	E	Hex.	X (øX)	Y	Weigh (g)	CAD file name
				max.	min.	max.	min.											
JSS1/8-U10④⑤⑥	1/8"	10-32UNF	2.9	29.7	27	26.8	24.1	6.7	22.8	8	9.8	11	10	5/16"	7.8	9.8	7.7	JSS1_8-U10_U
JSS5/32-U10④⑤⑥	5/32"	10-32UNF	2.9	29.7	27	26.8	24.1	6.7	22.8	8	9.8	11	10	5/16"	7.8	9.8	8	JSS5_32-U10_U
JSS5/32-N1④⑤⑥		1/8NPT	8	41.5	34.9	37.3	30.7	10.6	26.7				12.2	7/16"			19	JSS5_32-N1_U
JSS3/16-U10④⑤⑥	3/16"	10-32UNF	2.9	29.7	27	26.8	24.1	6.7	24.3	10.5	14.4	11.7	10.5	5/16"	9.8	11.8	8.6	JSS3_16-U10_U
JSS3/16-N1④⑤⑥		1/8NPT	8	41.5	34.9	37.3	30.7	10.6	28.2				12.7	7/16"			19	JSS3_16-N1_U
JSS3/16-N2④⑤⑥	3/16"	1/4NPT	11.1	48.9	42.2	43.1	36.4	12.1	29.7	18.4	18.4	18.1	14.7	9/16"	13.8	-	36	JSS3_16-N2_U
JSS1/4-U10④⑤⑥		10-32UNF	2.9	29.7	27	26.8	24.1	8.2	31.2				12.7	5/16"			11	JSS1_4-U10_U
JSS1/4-N1④⑤⑥	1/4"	1/8NPT	8	41.5	34.9	37.3	30.7	10.6	33.5	12.4	14.4	17	15.5	7/16"	11.8	-	21	JSS1_4-N1_U
JSS1/4-N2④⑤⑥		1/4NPT	11.1	48.9	42.2	43.1	36.4	12.1	35.1				17.5	9/16"			38	JSS1_4-N2_U
JSS5/16-N1④⑤⑥	5/16"	1/8NPT	8	41.5	34.9	37.3	30.7	10.6	36.3	14.5	18.4	18.1	15.5	7/16"	13.8	-	23	JSS5_16-N1_U
JSS5/16-N2④⑤⑥		1/4NPT	11.1	48.9	42.2	43.1	36.4	12.1	37.8				17.5	9/16"			39	JSS5_16-N2_U
JSS5/16-N3④⑥	5/16"	3/8NPT	13.2	54.4	46.9	48.3	40.8	11.9	43.6	22	22	20.2	20	3/4"	16.8	-	67	JSS5_16-N3_U
JSS3/8-N2④⑤⑥		1/4NPT	11.1	48.9	42.2	43.1	36.4	12.1	41.1				17.5	18.4			20.2	18
JSS3/8-N3④⑥	3/8NPT	13.2	54.4	46.9	48.3	40.8	15.9	45.9	22	20.5	3/4"	70			JSS3_8-N3_U			
JSS1/2-N3④⑥	1/2"	3/8NPT	13.2	54.4	46.9	48.3	40.8	15.9	49.9	21	22	23.7	21	3/4"	19.8	-	73	JSS1_2-N3_U
JSS1/2-N4④⑥		1/2NPT	16	59.7	52.4	51.5	44.2	18.1	53.6				25	1"			124	JSS1_2-N4_U

※ 1. ④ in model code : Replaced with "A" for Meter-out (Exhaust), "B" for Meter-in (Supply) control.

※ 2. ⑤ in Model code / Replaced with "K" for Low cracking pressure type.

(No ⑤ in Model code indicates Low cracking pressure type is not available.)

※ 3. ⑥ in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.

※ 4. "L1", "L2", "L3" are reference values for height dimensions after tightening a taper thread.

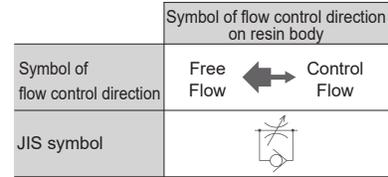
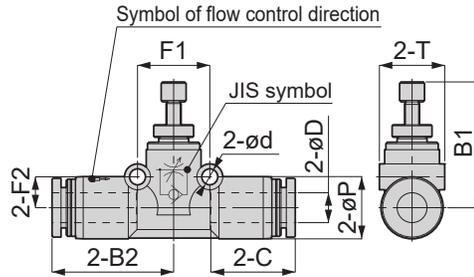
※ 5. Value in () is for cleanroom packaging.



In-Line Connection: Tube ⇔ Tube (Equal dia.)

JSMU In-Line Straight

RoHS compliant



Unit : mm

Model code	Tube O.D. øD	B1		B2	øP	T	Tube end C	ød	F1	F2	Weight (g)	CAD file name
		max.	min.									
JSMU5/32 ^⑥	5/32"	21	18.6	21	10	10.5	14.9	3.2	12.7	4.8	8.9	JSMU5_32_
JSMU1/4 ^⑥	1/4"	25.4	21.6	24.4	12.5	13.1	17	3.2	14.8	6.2	14	JSMU1_4_
JSMU5/16 ^⑥	5/16"	28.5	24.9	28	14.8	15.4	18.1	3.2	18.2	7.2	25	JSMU5_16_
JSMU3/8 ^⑥	3/8"	32.6	28.9	31.8	18.2	19.7	20.2	4.2	22.2	8.7	46	JSMU3_8_
JSMU1/2 ^⑥	1/2"	35.2	31.5	37.2	21.2	22.7	23.7	4.2	25.7	10.2	65	JSMU1_2_
JSMU4 ^⑥	4	21	18.6	21	10	10.5	14.9	3.2	12.7	4.8	8.9	JSMU4_
JSMU6 ^⑥	6	25.4	21.6	24.4	12.5	13.1	17	3.2	14.8	6.2	14	JSMU6_
JSMU8 ^⑥	8	28.5	24.9	28	14.8	15.4	18.1	3.2	18.2	7.2	25	JSMU8_
JSMU10 ^⑥	10	32.6	28.9	31.8	18.2	19.7	20.2	4.2	22.2	8.7	46	JSMU10_
JSMU12 ^⑥	12	35.2	31.5	36.9	21.2	22.7	23.4	4.2	25.7	10.2	65	JSMU12_

Inch O.D. : 5/32", 1/4", 5/16", 3/8" and 1/2"

Metric O.D. : 4, 6, 8, 10 and 12 mm

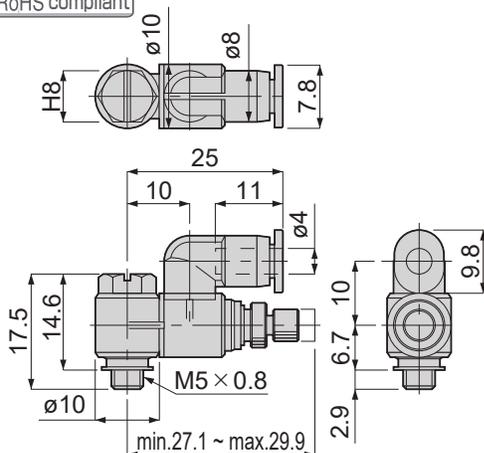
※. ^⑥ in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.

※ Ask us for the price and availability of **JSMU1/8** (1/8" O.D. in-line straight).

Connection: Thread ⇔ Tube

JSM Banjo Universal

RoHS compliant



Model code	Weight (g)	CAD file name
JSM4-M5 ^{④⑤⑥}	9.5(9.6)	JSM4-M5_

※ 1.Weight in () is for low cracking pressure type.

※ 2. ^④ in Model code / Replaced with "A" for Meter-out, "B" for Meter-in

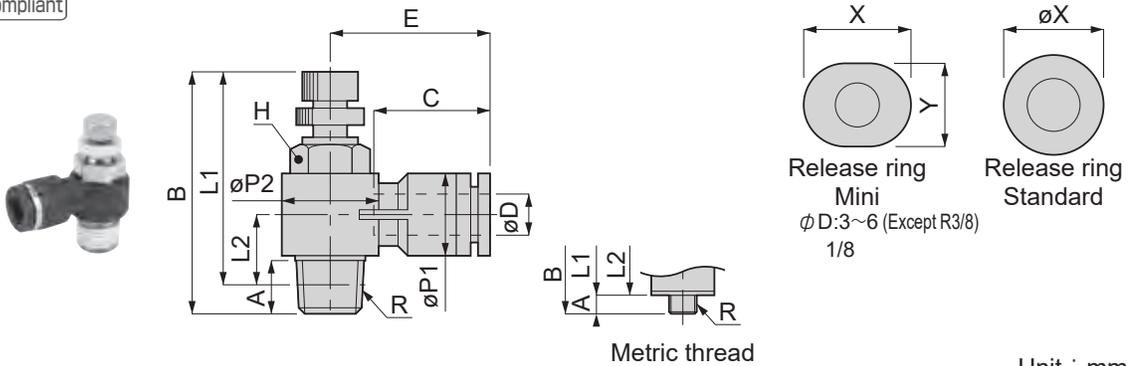
※ 3. ^⑤ in Model code / Replaced with "K" for Low cracking pressure type. (No ^⑤ in Model code indicates Low cracking pressure type is not available.)

※ 4.Weight in () is for low cracking pressure type.

Metric thread

JSC Elbow/Banjo

RoHS compliant



Metric thread

Unit : mm

Model code	Tube O.D øD	R	A	B		L1		L2	øP1	øP2	Tube end C	E	Hex.	X (øX)	Y	Weight (g)	CAD file name	
				max.	min.	max.	min.											
JSC3-M3 ④⑤⑥	3	M3×0.5	2.5 [2.2]	29.2	26.5	26.7 [27]	24 [24.3]	6.6 [6.9]	8	9.8	11	15.4	8	9.8	7.8	6.6	JSC3-M3_[C]	
JSC3-M5 ④⑤⑥		M5×0.8	2.9 [3.2]	29.7	27	26.8 [26.5]	24.1 [23.8]	6.7 [6.4]								7.3	JSC3-M5_[C]	
JSC4-M3 ④⑤⑥	4	M3×0.5	2.5 [2.2]	29.2	26.5	26.7 [27]	24 [24.3]	6.6 [6.9]	8	9.8	11	15.4	8	9.8	7.8	6.6	JSC4-M3_[C]	
JSC4-M5 ④⑤⑥		M5×0.8	2.9 [3.2]	29.7	27	26.8 [26.5]	24.1 [23.8]	6.7 [6.4]								7.2	JSC4-M5_[C]	
JSC4-01 ④⑤⑥	4	R1/8	8	41.5	34.9	37.5	30.9	10.7	10.5	14.4	11.6	17.7	10	11.8	9.8	17	JSC4-01_	
JSC6-M5 ④⑤⑥		M5×0.8	2.9 [3.2]	29.7	27	26.8 [26.5]	24.1 [23.8]	7.5 [7.2]				9.8	17.5			8	7.9	JSC6-M5_[C]
JSC6-01 ④⑤⑥	6	R1/8	8	41.5	34.9	37.5	30.9	10.7	10.5	14.4	11.6	18.3	10	11.8	9.8	18	JSC6-01_	
JSC6-02 ④⑤⑥		R1/4	11.1	48.9	42.2	42.8	36.1	11.9				18.4	20.2			14	35	JSC6-02_
JSC6-03 ④⑥		R3/8	13.2	54.4	46.9	48	40.5	15.4				14.4	22			17	29	19
JSC8-01 ④⑤⑥	8	R1/8	8	41.5	34.9	37.5	30.9	11.9	14.4	18.1	18.1	26.9	10	13.8	-	21	JSC8-01_	
JSC8-02 ④⑤⑥		R1/4	11.1	48.9	42.2	42.8	36.1	13.2				18.4	28.4			14	38	JSC8-02_
JSC8-03 ④⑥		R3/8	13.2	54.4	46.9	48	40.5	15.4				22	28.9			19	65	JSC8-03_
JSC8-04 ④⑥		R1/2	16	59.7	52.4	51.5	44.2	18				28	31			24	101	JSC8-04_
JSC10-02 ④⑤⑥	10	R1/4	11.1	48.9	42.2	42.8	36.1	14.8	17.6	22	20.2	30.9	14	16.8	-	41	JSC10-02_	
JSC10-03 ④⑥		R3/8	13.2	54.4	46.9	48	40.5	16.7				18.4	31.2			19	69	JSC10-03_
JSC10-04 ④⑥		R1/2	16	59.7	52.4	51.5	44.2	18				28	33.6			24	104	JSC10-04_
JSC12-03 ④⑥	12	R3/8	13.2	54.4	46.9	48	40.5	18.4	21	22	23.4	36.9	19	19.8	-	72	JSC12-03_	
JSC12-04 ④⑥		R1/2	16	59.7	52.4	51.5	44.2	19.7				28	36.4			24	107	JSC12-04_
JSC1/8-M3 ④⑤⑥	1/8"	M3×0.5	2.5 [2.2]	29.2	26.5	26.7 [27]	24 [24.3]	6.6 [6.9]	8	9.8	11	15.4	8	9.8	7.8	6.6	JSC1_8-M3_[C]	
JSC1/8-M5 ④⑤⑥		M5×0.8	2.9 [3.2]	29.7	27	26.8 [26.5]	24.1 [23.8]	6.7 [6.4]								7.3	JSC1_8-M5_[C]	
JSC1/4-M5 ④⑤⑥	1/4"	M5×0.8	2.9 [3.2]	29.7	27	26.8 [26.5]	24.1 [23.8]	8.4 [8.1]	12.4	14.4	17	24	8	11.8	-	9.5	JSC1_4-M5_[C]	
JSC1/4-01 ④⑤⑥		R1/8	8	41.5	34.9	37.5	30.9	10.9				14.4	23.5			10	19	JSC1_4-01_
JSC1/4-02 ④⑤⑥		R1/4	11.1	48.9	42.2	42.8	36.1	12.2				18.4	25.5			14	36	JSC1_4-02_
JSC5/16-01 ④⑤⑥	5/16"	R1/8	8	41.5	34.9	37.5	30.9	11.9	14.4	18.4	18.1	26.9	10	13.8	-	21	JSC5_16-01_	
JSC5/16-02 ④⑤⑥		R1/4	11.1	48.9	42.2	42.8	36.1	13.2				18.4	28.4			14	38	JSC5_16-02_
JSC5/16-03 ④⑥		R3/8	13.2	54.4	46.9	48	40.5	15.4				22	28.9			19	65	JSC5_16-03_
JSC3/8-02 ④⑤⑥	3/8"	R1/4	11.1	48.9	42.2	42.8	36.1	14.8	17.6	18.4	20.2	30.9	14	16.8	-	41	JSC3_8-02_	
JSC3/8-03 ④⑥		R3/8	13.2	54.4	46.9	48	40.5	16.7				22	31.2			19	69	JSC3_8-03_

※ 1. ④ in model code : Replaced with "A" for Meter-out (Exhaust), "B" for Meter-in (Supply) control.

※ 2. ⑤ in Model code / Replaced with "K" for Low cracking pressure type.

(No ⑤ in Model code indicates Low cracking pressure type is not available.)

※ 3. ⑥ in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.

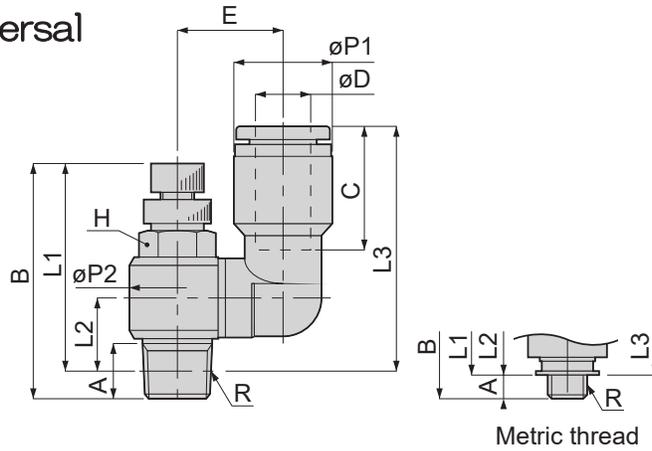
※ 4. "L1" and "L2" are reference values for height dimensions after tightening a taper thread.

※ 5. Value in [] is for cleanroom packaging.

Metric thread

JSS Universal

RoHS compliant



Metric thread

Unit : mm

Model code	Tube O.D. øD	R	A	B		L1		L2	L3	øP1	øP2	Tube end C	E	Hex.	X (øX)	Y	Weigh (g)	CAD file name
				max.	min.	max.	min.											
JSS3-M3(4)(5)(6)	3	M3×0.5	2.5 (2.2)	29.2	26.5	26.7 (27)	24 (24.3)	6.6 (6.9)	22.7 (23)	8	9.8	11	10	8	7.8	9.8	7	JSS3-M3_C
JSS3-M5(4)(5)(6)		M5×0.8	2.9 (3.2)	29.7	27	26.8 (26.5)	24.1 (23.8)	6.7 (6.4)	22.8 (22.5)								7.7	JSS3-M5_C
JSS4-M3(4)(5)(6)	4	M3×0.5	2.5 (2.2)	29.2	26.5	26.7 (27)	24 (24.3)	6.6 (6.9)	22.7 (23)	8	9.8	11	10	8	7.8	9.8	6.5	JSS4-M3_C
JSS4-M5(4)(5)(6)		M5×0.8	2.9 (3.2)	29.7	27	26.8 (26.5)	24.1 (23.8)	6.7 (6.4)	22.8 (22.5)								7.7	JSS4-M5_C
JSS4-01(4)(5)(6)	4	R1/8	8	41.5	34.9	37.5	30.9	10.7	26.8	14.4			12.2	10			18	JSS4-01_
JSS6-M5(4)(5)(6)		M5×0.8	2.9 (3.2)	29.7	27	26.8 (26.5)	24.1 (23.8)	6.7 (6.4)	24.2 (23.9)								9.8	
JSS6-01(4)(5)(6)	6	R1/8	8	41.5	34.9	37.5	30.9	10.7	28.2	10.5	14.4	11.6	12.7	10	9.8	11.8	18	JSS6-01_
JSS6-02(4)(5)(6)		R1/4	11.1	48.9	42.2	42.8	36.1	11.9	29.4								18.4	
JSS8-01(4)(5)(6)	8	R1/8	8	41.5	34.9	37.5	30.9	10.7	36.4		14.4		15.5	10			22	JSS8-01_
JSS8-02(4)(5)(6)		R1/4	11.1	48.9	42.2	42.8	36.1	11.9	37.6								14.5	18.4
JSS8-03(4)(6)	8	R3/8	13.2	54.4	46.9	48	40.5	15.6	43.3		22		20	19			68	JSS8-03_
JSS10-02(4)(5)(6)		R1/4	11.1	48.9	42.2	42.8	36.1	11.9	40.9								17.5	18.4
JSS10-03(4)(6)	10	R3/8	13.2	54.4	46.9	48	40.5	15.6	45.6		22		20.5	19			71	JSS10-03_
JSS12-03(4)(6)		R3/8	13.2	54.4	46.9	48	40.5	15.6	49.3								21	22
JSS12-04(4)(6)	12	R1/2	16	59.7	52.4	51.5	44.2	18	53.2		28		25	24			110	JSS12-04_
JSS1/8-M3(4)(5)(6)		M3×0.5	2.5 (2.2)	29.2	26.5	26.7 (27)	24 (24.3)	6.6 (6.9)	22.7 (23)								8	9.8
JSS1/8-M5(4)(5)(6)	M5×0.8	2.9 (3.2)	29.7	27	26.8 (26.5)	24.1 (23.8)	6.7 (6.4)	22.8 (22.5)	7.7	JSS1_8-M5_C								
JSS1/4-M5(4)(5)(6)	1/4"	M5×0.8	2.9 (3.2)	29.7	27	26.8 (26.5)	24.1 (23.8)	8.2 (7.9)	31.2 (30.9)		9.8		14.3	8			11	JSS1_4-M5_C
JSS1/4-01(4)(5)(6)		R1/8	8	41.5	34.9	37.5	30.9	10.7	33.7								12.4	14.4
JSS1/4-02(4)(5)(6)	1/4"	R1/4	11.1	48.9	42.2	42.8	36.1	11.9	34.8		18.4		17.5	14			37	JSS1_4-02_
JSS5/16-01(4)(5)(6)		R1/8	8	41.5	34.9	37.5	30.9	10.7	36.4									14.4
JSS5/16-02(4)(5)(6)	R1/4	11.1	48.9	42.2	42.8	36.1	11.9	37.6	14.5	18.4	18.1	17.5	14	13.8	-	39		
JSS5/16-03(4)(6)	5/16"	R3/8	13.2	54.4	46.9	48	40.5	15.6	43.3		22		20	19			68	JSS5_16-03_
JSS3/8-02(4)(5)(6)		R1/4	11.1	48.9	42.2	42.8	36.1	11.9	40.9								17.5	18.4
JSS3/8-03(4)(6)	3/8"	R3/8	13.2	54.4	46.9	48	40.5	15.6	45.6		22		20.5	19			70	JSS3_8-03_

※ 1. ④ in model code : Replaced with "A" for Meter-out (Exhaust), "B" for Meter-in (Supply) control.

※ 2. ⑤ in Model code / Replaced with "K" for Low cracking pressure type.

(No ⑤ in Model code indicates Low cracking pressure type is not available.)

※ 3. ⑥ in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.

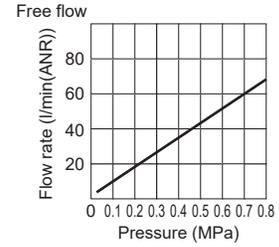
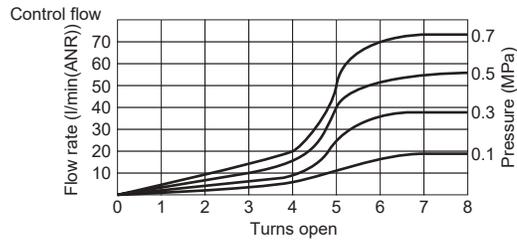
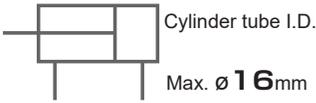
※ 4. "L1", "L2", "L3" are reference values for height dimensions after tightening a taper thread.

※ 5. Value in () is for cleanroom packaging.

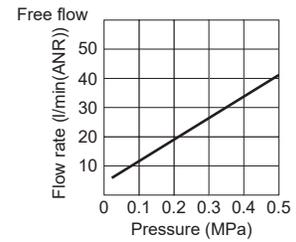
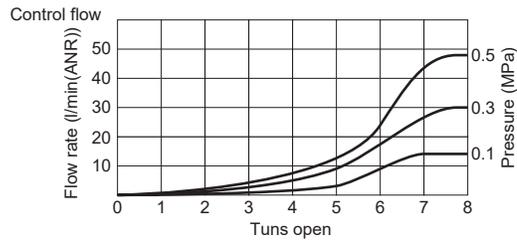
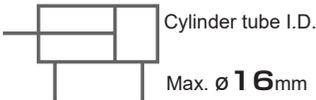
Flow characteristic

Elbow/Banjo type / Universal type

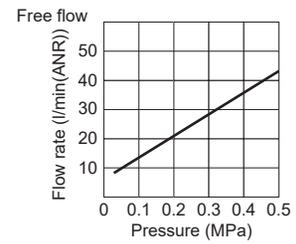
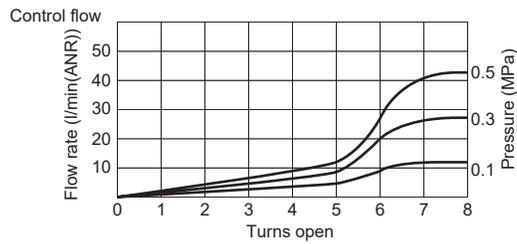
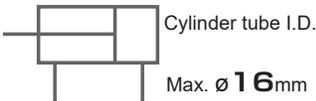
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 3-M3 3-M3
 1/8-M3K 1/8-M3K
 1/8-M3 1/8-M3



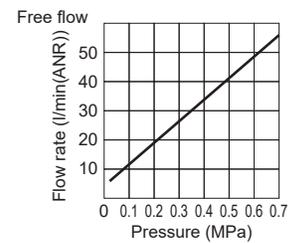
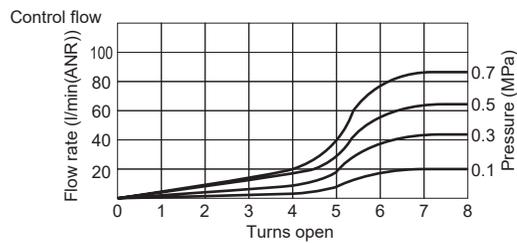
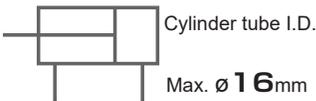
JSC 4-M3K JSS 4-M3K



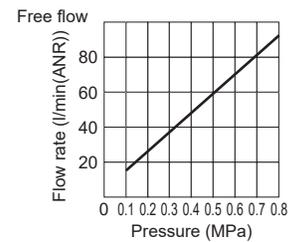
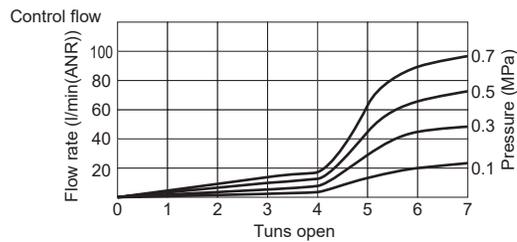
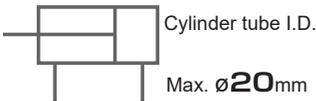
JSC 1/8-U10KU JSS 1/8-U10KU
 3-M5K 3-M5K
 4-M5K 4-M5K
 6-M5K 6-M5K
 1/8-M5K 1/8-M5K



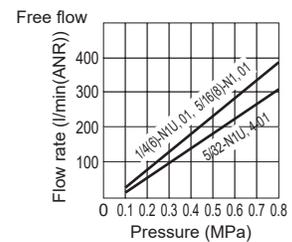
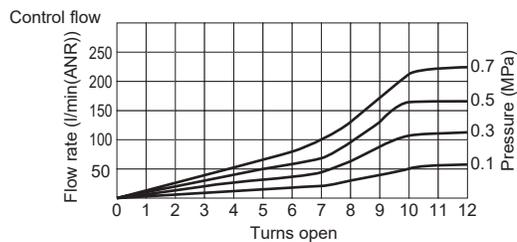
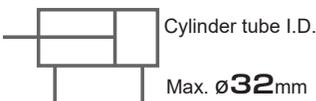
JSC 4-M3 JSS 4-M3



JSC 1/8-U10U JSS 1/8-U10U
 3/16-U10U 3/16-U10U
 1/4-U10U 1/4-U10U
 6-U10U 3-M5
 3-M5 4-M5
 4-M5 6-M5
 6-M5 1/8-M5
 1/8-M5
 3/16-M5
 1/4-M5



JSC 5/32-N1U JSS 5/32-N1U
 3/16-N1U 3/16-N1U
 1/4-N1U 1/4-N1U
 5/16-N1U 5/16-N1U
 6-N1U 4-01
 4-01 6-01
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 8-01 1/4-01
 1/4-01 5/16-01
 5/16-01

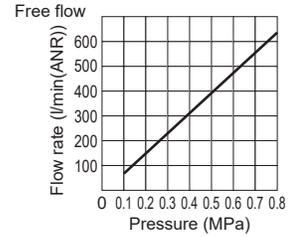
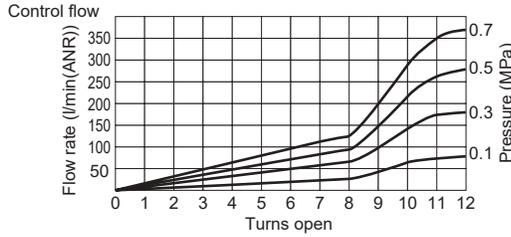
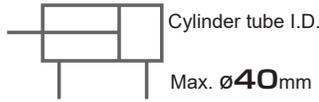




Elbow type / Universal type

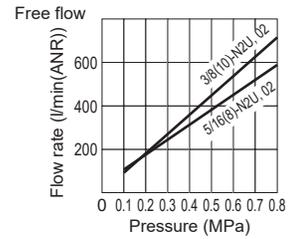
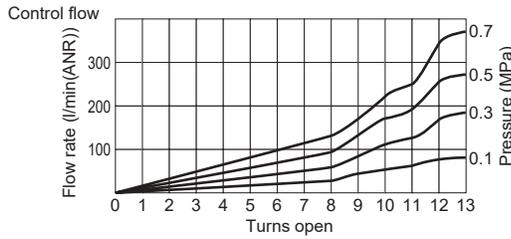
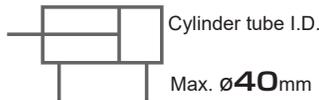
JSC 1/4-N2U
3/16-N2U
6-N2U
6-02
1/4-02

JSS 1/4-N2U
3/16-N2U
6-02
1/4-02

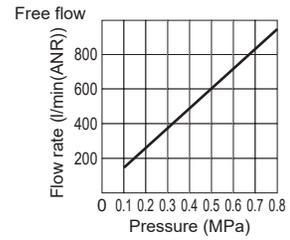
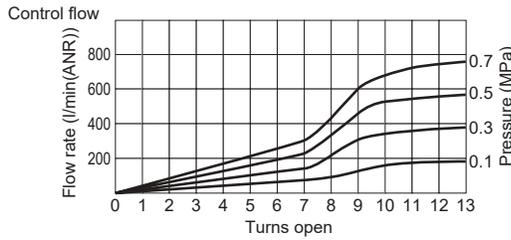
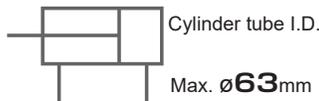


JSC 5/16-N2U
3/8-N2U
10-N2U
8-02
10-02
5/16-02
3/8-02

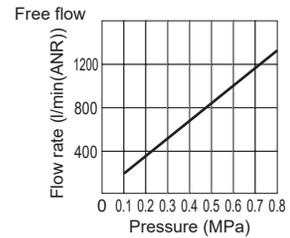
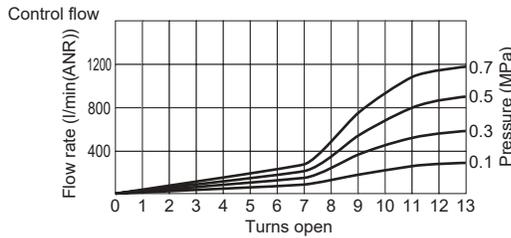
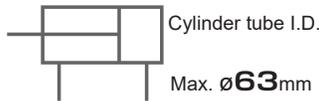
JSS 5/16-N2U
3/8-N2U
8-02
10-02
5/16-02
3/8-02



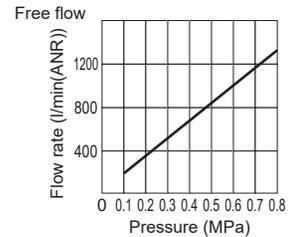
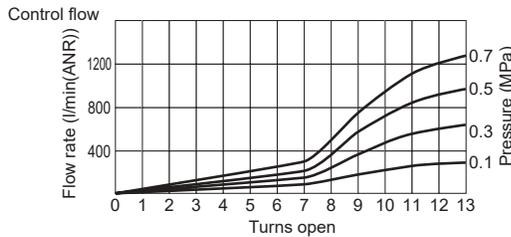
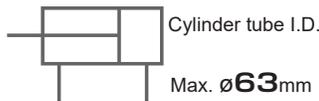
JSC 1/4-N3U
3/16-N3U
6-N3U
6-03



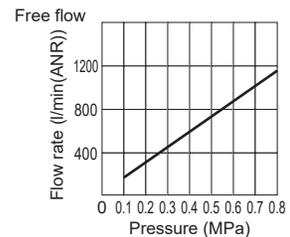
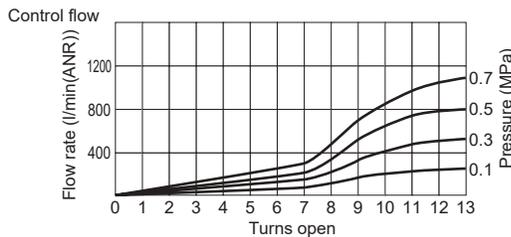
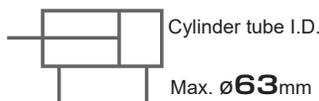
JSC 5/16-N3U
8-03
5/16-03



JSC 3/8-N3U
10-N3U
10-03
3/8-03



JSS 5/16-N3U
3/8-N3U
8-03
10-03
5/16-03
3/8-03



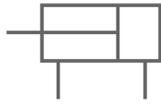


Elbow/Banjo type / Universal type

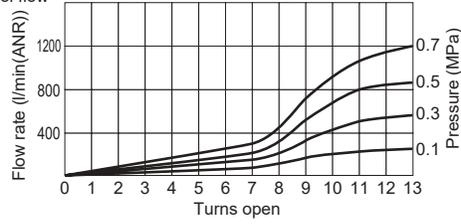
JSC 1/2-N3U
12-03

JSS 1/2-N3U
12-03

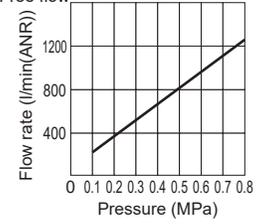
Control flow



Cylinder tube I.D.
Max. ϕ 63mm

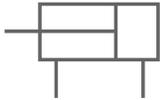


Free flow

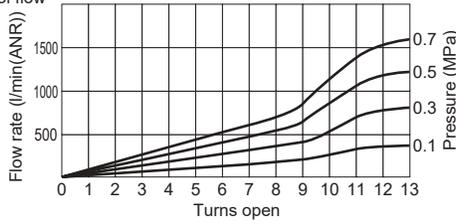


JSC 5/16-N4U
8-04

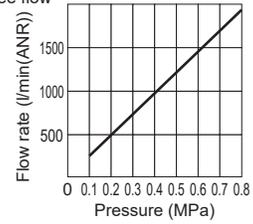
Control flow



Cylinder tube I.D.
Max. ϕ 80mm

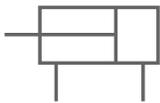


Free flow

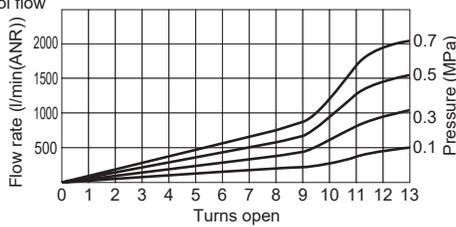


JSC 3/8-N4U
10-04

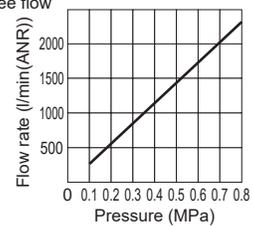
Control flow



Cylinder tube I.D.
Max. ϕ 100mm



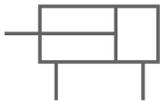
Free flow



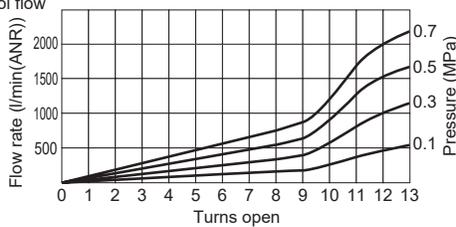
JSC 1/2-N4U
12-04

JSS 1/2-N4U
12-04

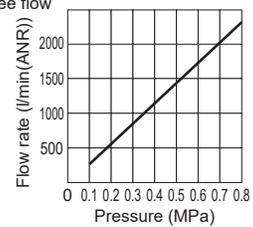
Control flow



Cylinder tube I.D.
Max. ϕ 100mm



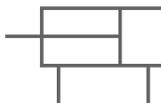
Free flow



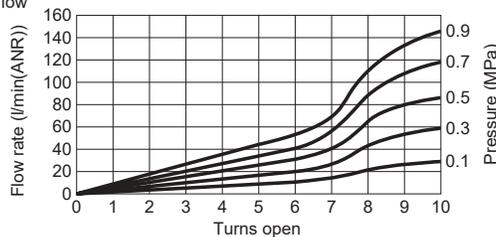
In-Line Straight type

JSMU 5/32
JSMU 4

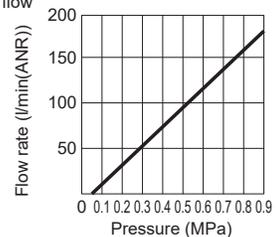
Control flow



Cylinder tube I.D.
Max. ϕ 20mm

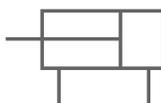


Free flow

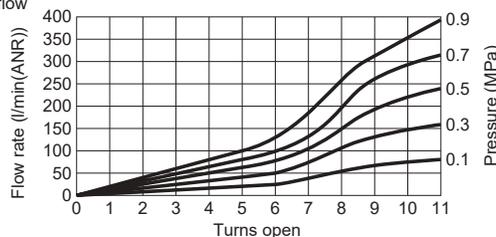


JSMU 1/4
JSMU 6

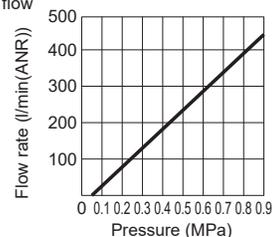
Control flow



Cylinder tube I.D.
Max. ϕ 32mm



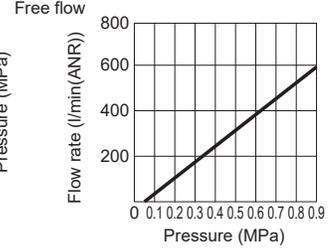
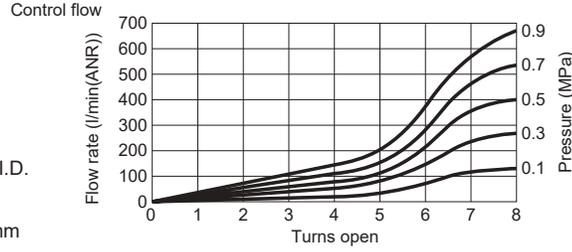
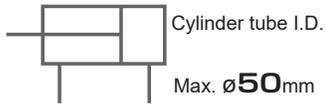
Free flow



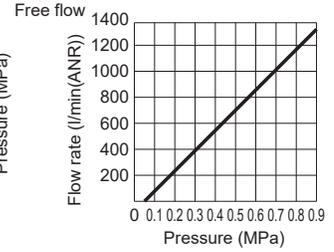
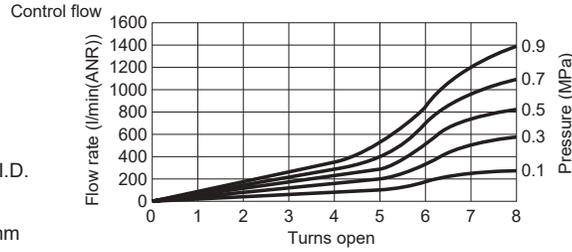
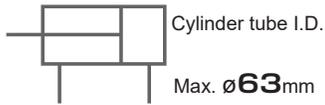


In-Line Straight type

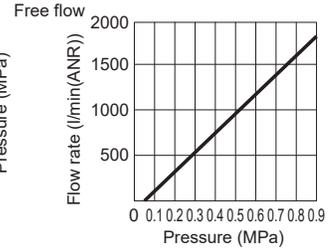
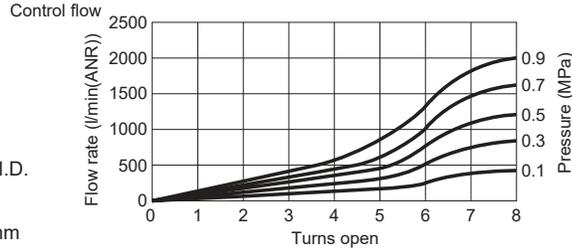
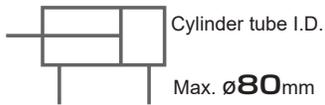
JSMU 5/16
JSMU 8



JSMU 3/8
JSMU 10

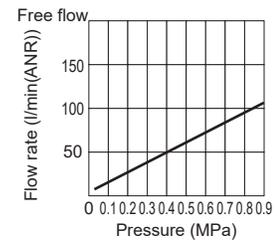
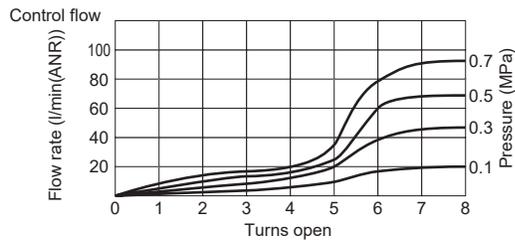
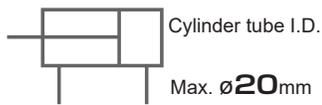


JSMU 1/2
JSMU 12

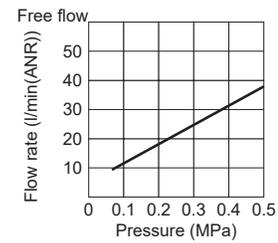
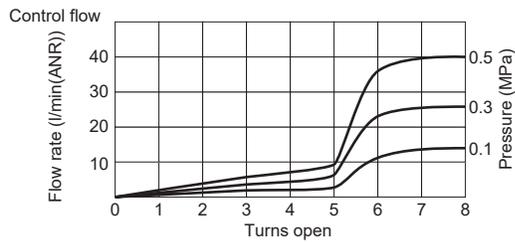
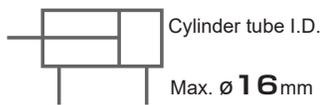


Banjo Universal type

JSM 4-M5



JSM 4-M5K





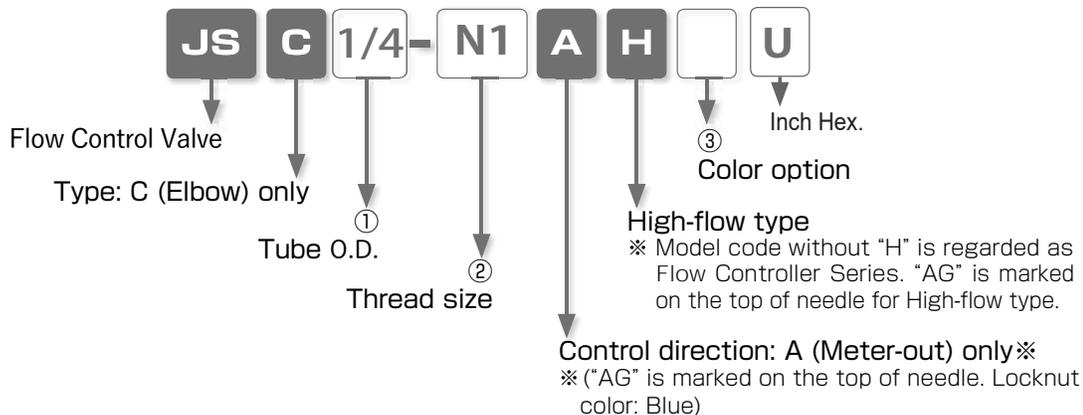
Flow Control Valve for High Speed Cylinder **High Flow**

- *Speed Control Valve for Actuator*
 - *Meter-out (Exhaust) control only*
 - *Higher Flow Capacity*
 - *Suitable for High Speed Cylinder*
- *Optional Selection of Body Color (light-gray)*



High Flow

Model Designation (Example)



① Tubing outside dia.

Tube dia.	Inch size			
Code	1/4		3/8	
Size (inch)	1/4"		3/8"	

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

② Thread size

Thread size	NPT thread		
Code	N1	N2	N3
Size	1/8NPT	1/4NPT	3/8NPT

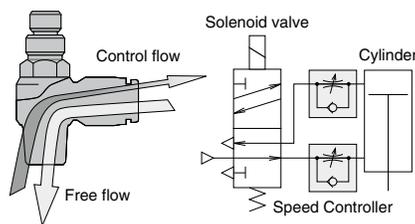
Thread size	Taper pipe thread			
Code	01	02	03	04
Size	R1/8	R1/4	R3/8	R1/2

③ Color option

No code : Standard
 W : Light-gray

※ Meter-out (Exhaust) control

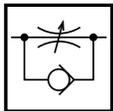
■ Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side.



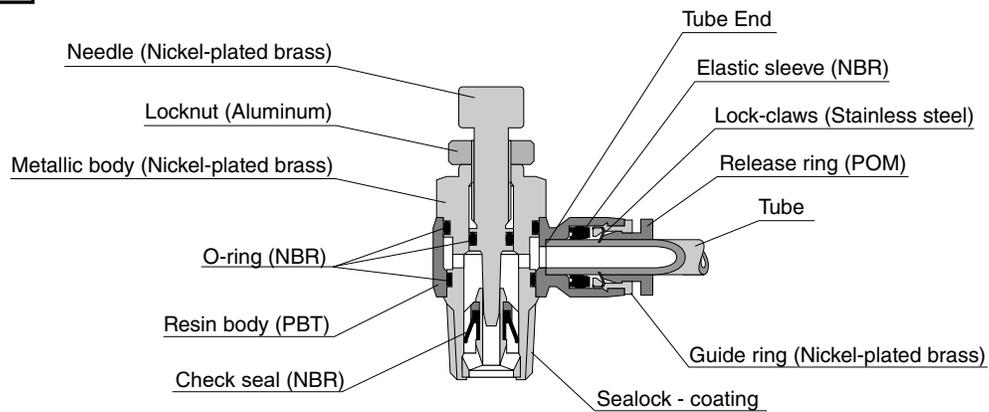
Specifications

Fluid medium	Air
Operating pressure range	14.5~102psi (0.1~0.7MPa)
Check valve cracking pressure	7.25psi (0.05MPa)
Operating temp. range	32~140°F (0~60°C) (no freezing)

■ Construction (Elbow/Banjo : JSC)

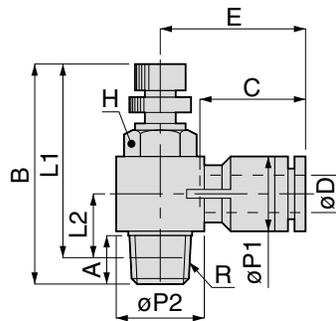


Symbol



JSC-H Elbow / Banjo

RoHS compliant



Unit : mm

Model code	Tube O.D. øD	R	A	B		L1		L2	øP1	øP2	Tube end C	E	Hex. H	Weight (g)	CAD file name					
				max.	min.	max.	min.													
JSC1/4-N1AHU	1/4"	1/8NPT	8.5	42.5	37.5	38.5	33.5	12.5	12.5	15.4	17	24.2	13	24	JSC1_4-N1AHU					
JSC1/4-N2AHU		1/4NPT	11.6	50.8	44.8	44.7	38.7								14.1	19.6	26.8	17	43	JSC1_4-N2AHU
JSC3/8-N2AHU	3/8"	1/4NPT	11.6	50.8	44.8	44.7	38.7	15.6	18	19.6	20.2	30.5	17	48	JSC3_8-N2AHU					
JSC3/8-N3AHU		3/8NPT	12.6	54.3	48.7	47.9	42.3								16.3	24.4	32.5	21	75	JSC3_8-N3AHU
JSC6-01AH□	6	R1/8	8.5	42.5	37.5	38.5	33.5	12.5	12.5	15.4	17	24.2	13	24	JSC6-01_H					
JSC6-02AH□		R1/4	11.6	50.8	44.8	44.7	38.7								14.1	19.6	26.8	17	43	JSC6-02_H
JSC8-01AH□	8	R1/8	8.5	42.5	37.5	38.5	33.5	12.8	14.5	15.4	18.1	26.2	13	26	JSC8-01_H					
JSC8-02AH□		R1/4	11.6	50.8	44.8	44.7	38.7								14.1	19.6	28.2	17	45	JSC8-02_H
JSC8-03AH□		R3/8	12.6	54.3	48.7	47.9	42.3								16.3	24.4	30.2	21	72	JSC8-03_H
JSC10-02AH□	10	R1/4	11.6	50.8	44.8	44.7	38.7	15.6	18	19.6	20.2	30.5	17	48	JSC10-02_H					
JSC10-03AH□		R3/8	12.6	54.3	48.7	47.9	42.3								16.3	24.4	32.5	21	75	JSC10-03_H
JSC12-03AH□	12	R3/8	12.6	54.3	48.7	47.9	42.3	17.8	21	24.4	23.4	35.2	21	78	JSC12-03_H					
JSC12-04AH□		R1/2	13.6	60.8	54.7	52.6	46.5								17.1	30	38.2	24	118	JSC12-04_H

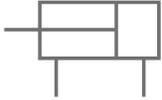
※ 1. "L1" and "L2" are reference values for height dimensions after tightening taper thread.

※ 2. □ in Model code / Replaced with "W" for Light-gray color.

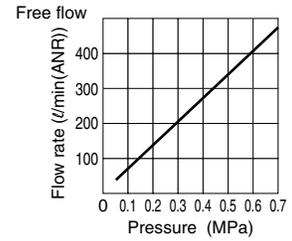
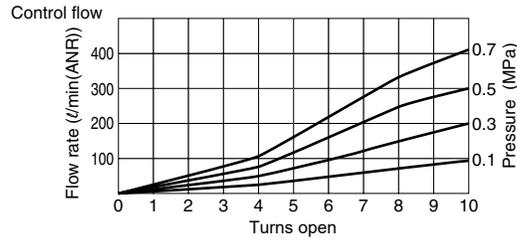
Flow characteristic

Elbow/Banjo High Flow type

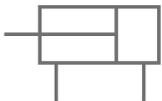
JSC 1/4-N1AHU
6-01AH
8-01AH



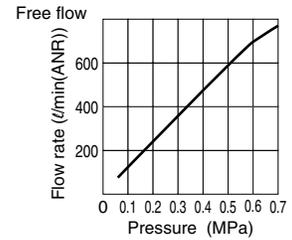
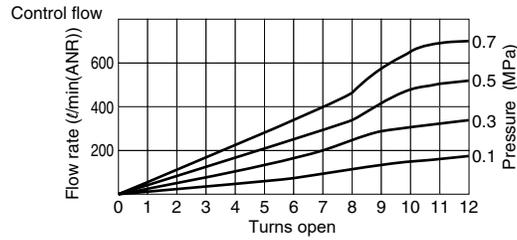
Cylinder tube I.D.
Max. \varnothing **40**mm



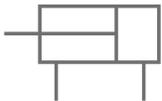
JSC 1/4-N2AHU
6-02AH



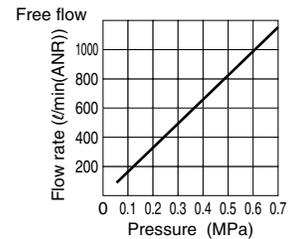
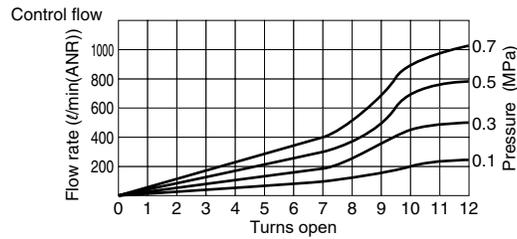
Cylinder tube I.D.
Max. \varnothing **50**mm



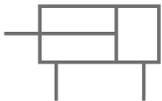
JSC 3/8-N2AHU
8-02AH
10-02AH



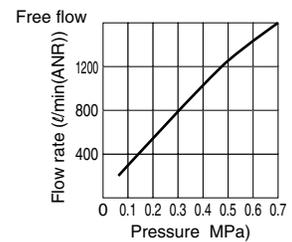
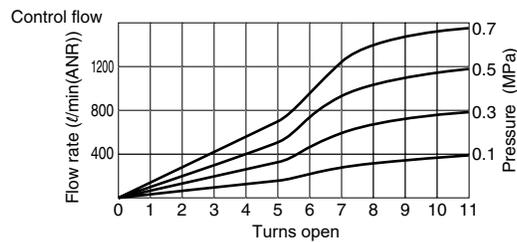
Cylinder tube I.D.
Max. \varnothing **63**mm



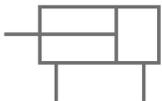
JSC 8-03AH



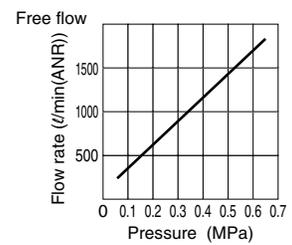
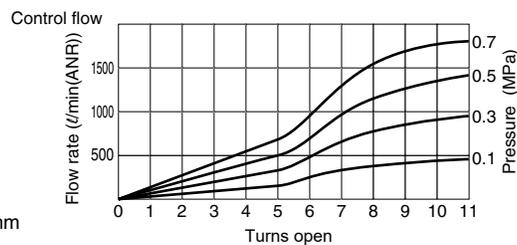
Cylinder tube I.D.
Max. \varnothing **80**mm



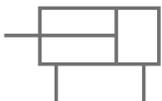
JSC 3/8-N3AHU
10-03AH
12-03AH



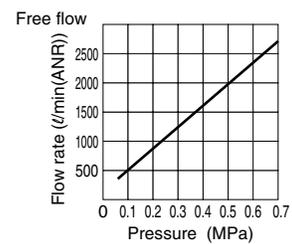
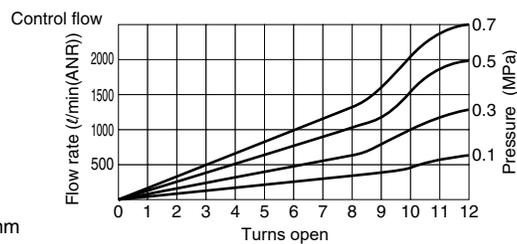
Cylinder tube I.D.
Max. \varnothing **100**mm

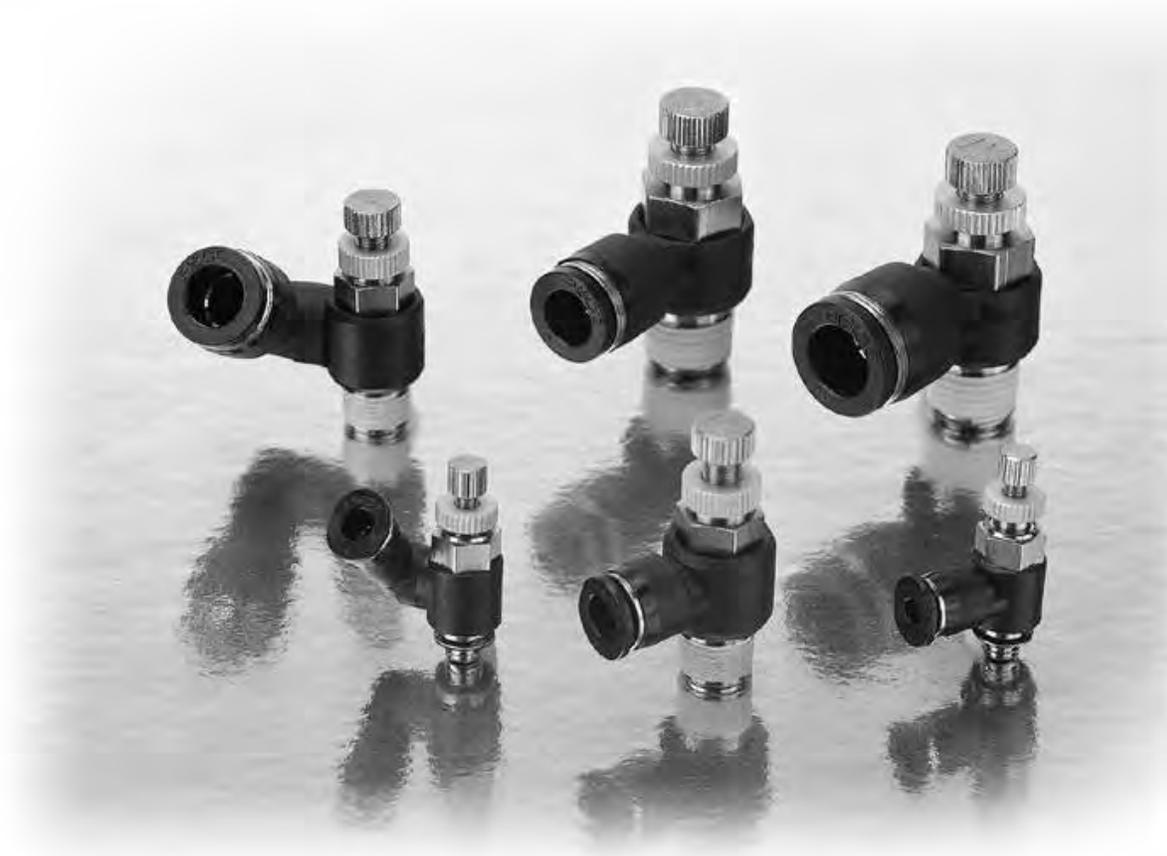


JSC 12-04AH



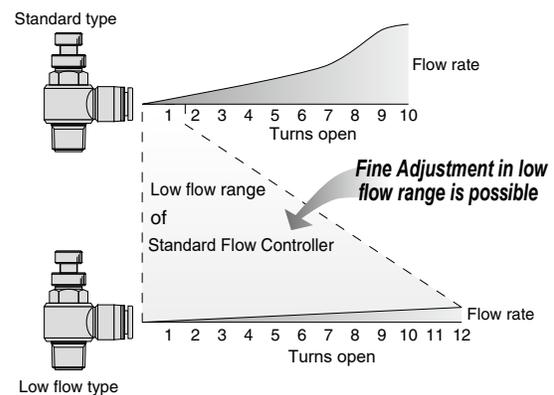
Cylinder tube I.D.
Max. \varnothing **100**mm





Flow Control Valve for Low Speed Cylinder **Low Flow**

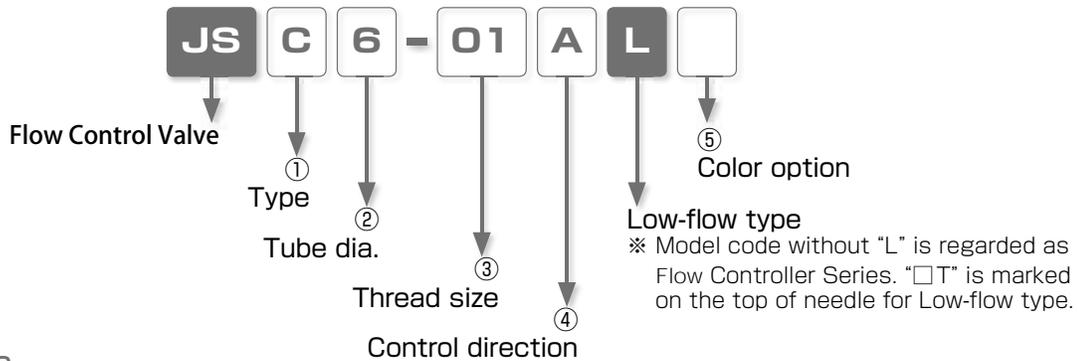
- *Suitable for Low Speed Cylinder.*
- *Precise Control for Low Speed Cylinder.*



- *Same Free Flow as Flow Controller Series. High Speed Returning Stroke of Cylinder.*
- *Newly Added Small Sized Elbow, Universal, In-line Straight of $\varnothing 1.8$, $\varnothing 2$ and $\varnothing 3$ mm.*
- *Optional Selection of Body Color (light-gray).*

Low Flow

Model Designation (Example)



① Type

Code	Type	Code	Type	Code	Type
C	Elbow/Banjo	S	Universal	MU	In-line Straight

② Tubing outside dia.

Tube dia.	O.D.						
Code	180	2	3	4	6	8	10
mm size	ø1.8	ø2	ø3	ø4	ø6	ø8	ø10

※ Only ø1.8mm, ø2mm and ø3mm port sizes are available for In-line Straight type.

③ Thread size (※ No code for Union Straight)

Thread size	Metric thread(mm)		Taper pipe thread	
Code	M3	M5	01	02
Size	M3 × 0.5	M5 × 0.8	R1/8	R1/4

※ M3 thread is not available for Free type.

④ Control direction (※ No code for In line Straight - JSMU)

Code	A	B
Control direction	Meter-out (Exhaust)	Meter-in (Supply)
	<p>■ Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side.</p>	<p>■ Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.</p>
Identification	"AT" is marked on the top of needle. Locknut color: Silver	"BT" is marked on the top of needle. Locknut color: Black

⑤ Color option / Clean room

Code	Specification (color / Cleanroom)	Color combination		Remarks
		Release ring(※)	Resin Body Color	
No Code	Standard	Black	Black	
-C	Cleanroom package	Light-Blue	Light-Gray	optional selection
W	color: Light-Gray	Light-Gray	Light-Gray	optional selection
W-C	Light-Gray&Cleanroom	Light-Gray	Light-Gray	optional selection

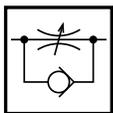
Specifications

Fluid medium	Air
Operating pressure range	14.5~130psi (0.1~0.9MPa)
Check valve cracking pressure	7.25psi (0.05MPa)
Operating temp. range	32~140° F (0~60°C) (no freezing)

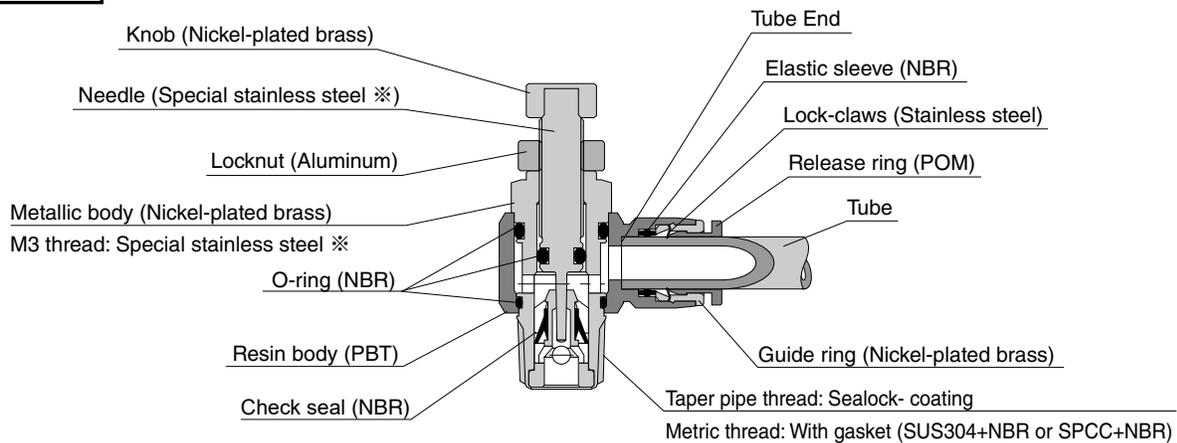
Control Flow Rate

Thread size (code)	M3 × 0.5 (M3)		M5 × 0.8 (M5)			R1/8 (01)	R1/4 (02)
	Tubing outside dia.(mm)	φ1.8, φ2, φ3	φ4	φ1.8, φ2	φ3	φ4, φ6	φ4, φ6, φ8, φ10
Flow rate (l/min(ANR))	20	35	20	35	6.5	13	41
Effective area (mm ²)	0.3	0.5	0.3	0.5	0.1	0.2	0.6
Needle rotations (turns)	10	10	10	10	10	10	12
Primary pressure (MPa)	0.5	0.5	0.5	0.5	0.5	0.5	0.5

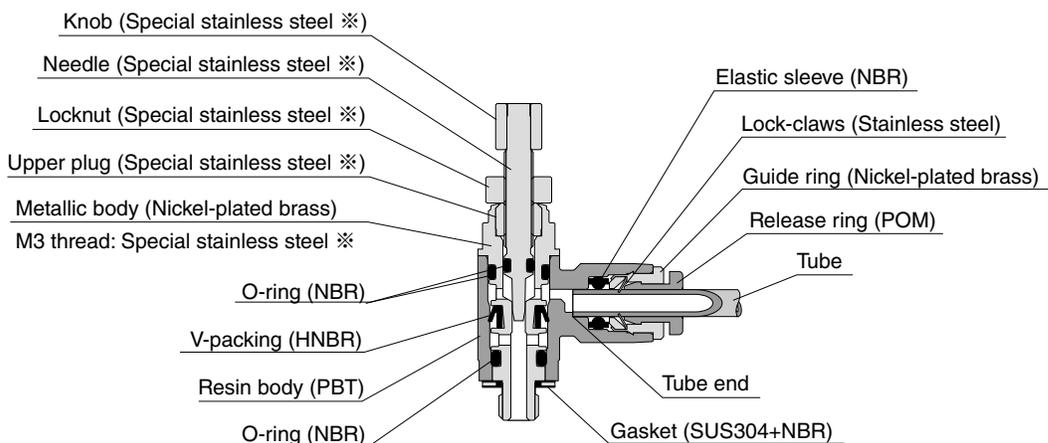
Construction (Elbow/Banjo : JSC)



Symbol



Construction (Small sized Elbow/Banjo : JSC)



※ Equivalent Corrosion Resistance to SUS303

Standard Size List

Connection: Thread ⇄ Tube

Type	Thread size	Tube O.D.			
		1.8	2	3	4
JSC-L Small Elbow/Banjo	M3×0.5	●	●	●	●
	M5×0.8	●	●	●	

Type	Thread size	Tube O.D.			
		1.8	2	3	4
JSS-L Small Universal	M3×0.5	●	●	●	●
	M5×0.8	●	●	●	

Type	Thread size	Tube O.D.			
		4	6	8	10
JSC-L Elbow/Banjo	M5×0.8	●	●		
	R1/8	●		●	
	R1/4		●	●	●

Type	Thread size	Tube O.D.			
		4	6	8	10
JSS-L Universal	M5×0.8	●	●		
	R1/8	●	●	●	
	R1/4		●	●	●

Connection: Tube ⇄ Tube (Equal dia.)

Type	Tube O.D.		
	1.8	2	3
JSU-L In-line Straight	●	●	●

⚠ Detailed Safety Instructions

Before using PISCO products, be sure to read "Safety Instructions" and "Safety Instruction Manual" and "Common Safety Instructions for Controllers".

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. Do not swing or rotate resin body of the products by force. It may damage to the products and cause a fluid leakage.

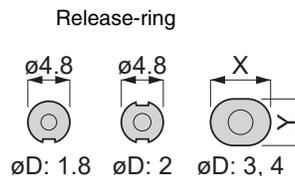
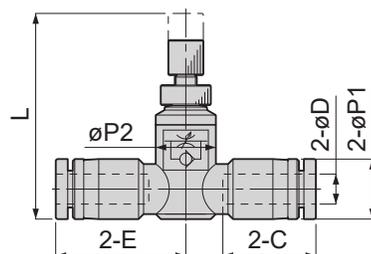
Caution

1. Speed controller permits some air leakage. Do not use the products for the application which requires no leakage.
2. Stick-slip easily happens when actuator is operated at low speed. Make sure to carry out the operation test with the actual machine before using the products.
3. When changing tubing directions of products with metric thread, turn the resin body in the clockwise direction. Turning it in the counterclockwise direction may loosen the thread.

Low Flow

JSMU-L Small Sized In-line Straight

RoHS compliant



Unit : mm

Model code	Tubing O.D. øD	L		E	Tube end C	øP1	øP2	X	Y	Weight (g)	CAD File name
		max.	min.								
JSMU180L ^⑤	1.8	20.6	17.9	12.5	8.4	6	6	—	—	2.8	JSU180L_
JSMU2L ^⑤	2	20.6	17.9	12.5	8.4	6	6	—	—	2.8	JSU2L_
JSMU3L ^⑤	3	20.6	17.9	13	9.3	6	6	7	6	2.8	JSU3L_

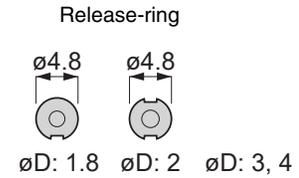
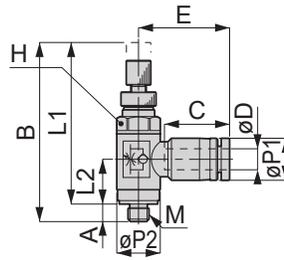
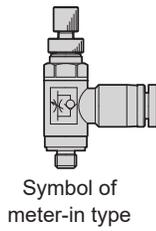
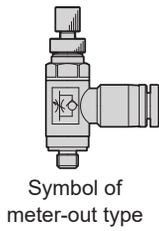
※ ⑤ in Model code / No entry for Black body color

Replaced with " W" for Light-gray color, "-C" for Cleanroom, "W-C" for Light-gray color+Cleanroom

Low Flow

JSC-L Small Sized Elbow/Banjo

RoHS compliant

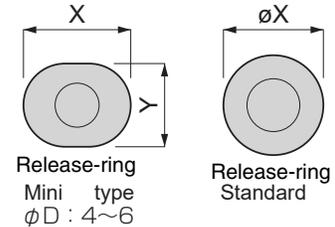
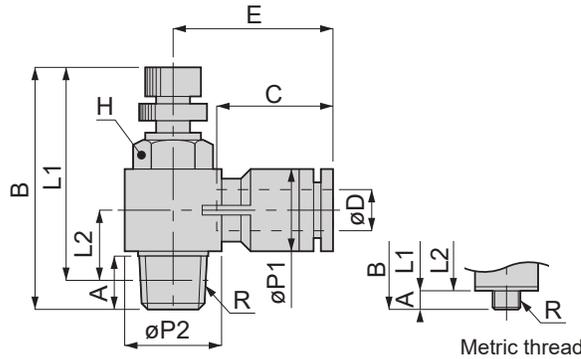


Unit : mm

Model code	Tubing O.D. øD	M	A	B		L1		L2	øP1	øP2	Tube end C	E	Hex. H	X	Y	Weight (g)	CAD File name
				max.	min.	max.	min.										
JSC180-M3④L⑤	1.8	M3×0.5	2.5	25.7	23	23.2	20.5	6.4	6	6.2	8.4	12.5	5.5	-	-	2.7	JSC180-M3_L_
JSC180-M5④L⑤		M5×0.8	3	27.2	24.5	24.2	21.5	7.2									8.8
JSC2-M3④L⑤	2	M3×0.5	2.5	25.7	23	23.2	20.5	6.4	6	6.2	8.4	12.5	5.5	-	-	2.7	JSC2-M3_L_
JSC2-M5④L⑤		M5×0.8	3	27.2	24.5	24.2	21.5	7.2									8.8
JSC3-M3④L⑤	3	M3×0.5	2.5	25.7	23	23.2	20.5	6.4	6	6.2	9.3	13	5.5	7	6	2.7	JSC3-M3_L_
JSC3-M5④L⑤		M5×0.8	3	27.2	24.5	24.2	21.5	7.2									8.8
JSC4-M3④L⑤	4	M3×0.5	2.5	25.7	23	23.2	20.5	6	8	6.2	11	14.7	5.5	9.8	7.8	3.1	JSC4-M3_L_

JSC-L Elbow/Banjo

RoHS compliant



Unit : mm

Model code	Tubing O.D. øD	R	A	B		L1		L2	øP1	øP2	Tube end C	E	Hex. H	X (øX)	Y	Weight (g)	CAD File name
				max.	min.	max.	min.										
JSC4-M5④L⑤	4	M5×0.8	2.9 (3.2)	33.4	29.9	30.5 (30.2)	27 (26.7)	6.7 (6.4)	8	9.8	11	15.4	8	9.8	7.8	7.2	JSC4-M5_L_(C)
JSC4-01④L⑤		R1/8	8	41	35.9	37	31.9	10.7									14.4
JSC6-M5④L⑤	6	M5×0.8	2.9 (3.2)	33.4	29.9	30.5 (30.2)	27 (26.7)	7.5 (7.2)	10.5	14.4	11.6	17.5	8	11.8	9.8	7.8	JSC6-M5_L_(C)
JSC6-01④L⑤		R1/8	8	41	35.9	37	31.9	10.7									18.4
JSC6-02④L⑤		R1/4	11.1	48.7	42.6	42.6	36.5	11.9				28.4	14			35	JSC6-02_L_
JSC8-01④L⑤	8	R1/8	8	41	35.9	37	31.9	11.9	14.4	14.4	18.1	26.9	10	13.8	-	21	JSC8-01_L_
JSC8-02④L⑤		R1/4	11.1	48.7	42.6	42.6	36.5	13.2									18.4
JSC10-02④L⑤	10	R1/4	11.1	48.7	42.6	42.6	36.5	14.8	17.6	18.4	20.2	30.9	14	16.8	-	41	JSC10-02_L_

※ 1. ④ in Model code / Replaced with " A" for Meter-out (Exhaust), " B" for Meter-in (Supply) control

※ 2. ⑤ in Model code / No entry for Black body color

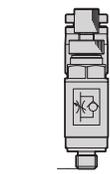
Replaced with " W" for Light-gray color, "-C" for Cleanroom, "W-C" for Light-gray color+Cleanroom

※ 3. L1、 L2 dimensions of taper thread are of those of after installation

※ 4. The dimensions in [] is those of clean room type

JSS-L Small Sized Universal

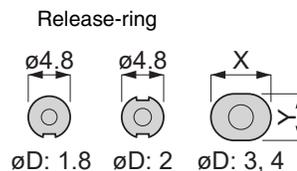
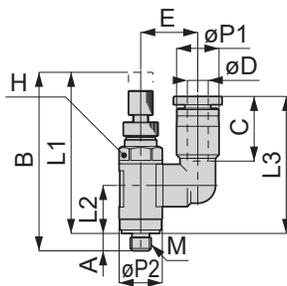
RoHS compliant



Symbol of meter-out type



Symbol of meter-in type

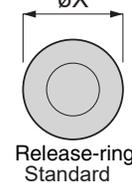
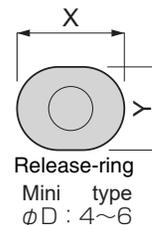
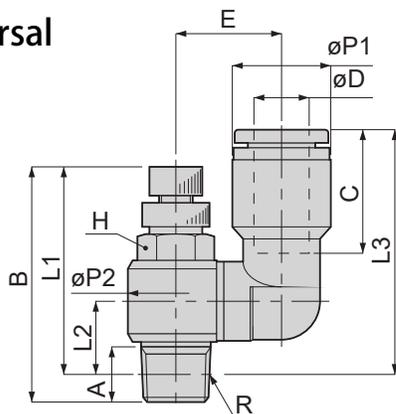


Unit : mm

Model code	Tubing O.D. øD	M	A	B		L1		L2	L3	øP1	øP2	Tube end C	E	Hex. H	X	Y	Weight (g)	CAD File name
				max.	min.	max.	min.											
JSS180-M3④L⑤	1.8	M3×0.5	2.5	25.7	23	23.2	20.5	6.9	19.2	6.1	6.2	8.4	8.2	5.5	-	-	2.8	JSS180-M3_L
JSS180-M5④L⑤		M5×0.8	3	27.2	24.5	24.2	21.5	7.8	20.1									8.8
JSS2-M3④L⑤	2	M3×0.5	2.5	25.7	23	23.2	20.5	6.9	19.2	6.1	6.2	8.4	8.2	5.5	-	-	2.8	JSS2-M3_L
JSS2-M5④L⑤		M5×0.8	3	27.2	24.5	24.2	21.5	7.8	20.1									8.8
JSS3-M3④L⑤	3	M3×0.5	2.5	25.7	23	23.2	20.5	6.9	19.7	6.1	6.2	9.3	8.2	5.5	7	6	2.8	JSS3-M3_L
JSS3-M5④L⑤		M5×0.8	3	27.2	24.5	24.2	21.5	7.8	20.6									8.8
JSS4-M3④L⑤	4	M3×0.5	2.5	25.7	23	23.2	20.5	6.9	21	8	6.2	11	8.2	5.5	9.8	7.8	3.3	JSS4-M3_L

JSS-L Universal

RoHS compliant



Metric thread type

Unit : mm

Model code	Tubing O.D. øD	R	A	B		L1		L2	L3	øP1	øP2	Tube end C	E	Hex. H	X (øX)	Y	Weight (g)	CAD File name
				max.	min.	max.	min.											
JSS4-M5④L⑤	4	M5×0.8	2.9 [3.2]	33.4	29.9	30.5 [30.2]	27 [26.7]	6.7 [6.4]	22.8 [22.5]	8	9.8	11	10	8	9.8	7.8	7.6	JSS4-M5_L[C]
JSS4-01④L⑤		R1/8	8	41	35.9	37	31.9	10.7	26.8									14.4
JSS6-M5④L⑤	6	M5×0.8	2.9 [3.2]	33.4	29.9	30.5 [30.2]	27 [26.7]	6.7 [6.4]	24.2 [23.9]	10.5	9.8	11.6	10.5	8	-	-	8.4	JSS6-M5_L[C]
JSS6-01④L⑤		R1/8	8	41	35.9	37	31.9	10.7	28.2									18.4
JSS6-02④L⑤	R1/4	11.1	48.7	42.6	42.6	36.5	11.9	29.4	-	14.7	14	-	-	-	-	36	JSS6-02_L	
JSS8-01④L⑤	8	R1/8	8	41	35.9	37	31.9	10.7	36.4	14.5	14.4	18.1	15.5	10	13.8	-	22	JSS8-01_L
JSS8-02④L⑤		R1/4	11.1	48.7	42.6	42.6	36.5	11.9	37.6									18.4
JSS10-02④L⑤	10	R1/4	11.1	48.7	42.6	42.6	36.5	11.9	40.9	17.5	18.4	20.2	18	14	16.8	-	42	JSS10-02_L

※ 1. ④ in Model code / Replaced with " A" for Meter-out (Exhaust), "B" for Meter-in (Supply) control

※ 2. ⑤ in Model code / No entry for Black body color

Replaced with " W" for Light-gray color, "-C" for Cleanroom, "W-C" for Light-gray color+Cleanroom

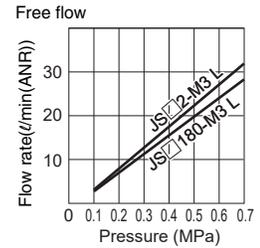
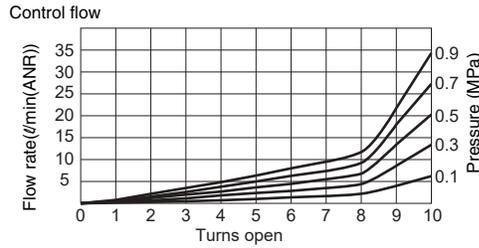
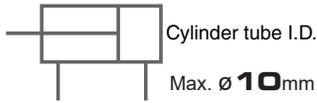
※ 3. L1、L2 dimensions of taper thread are of those of after installation

※ 4. The dimensions in [] is those of clean room type

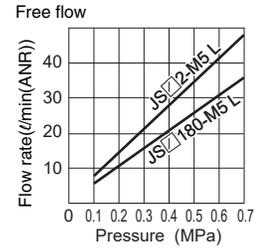
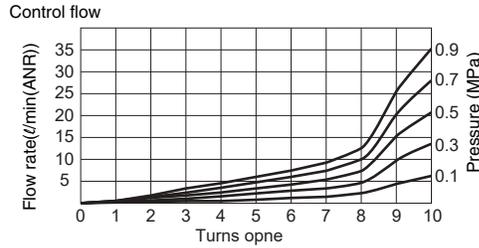
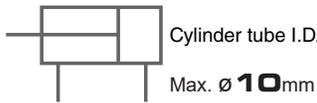
Flow characteristic

Small Sized Elbow/Banjo and Small sized Universal

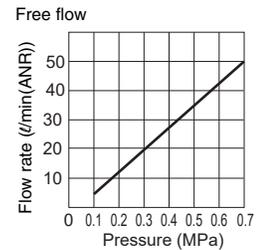
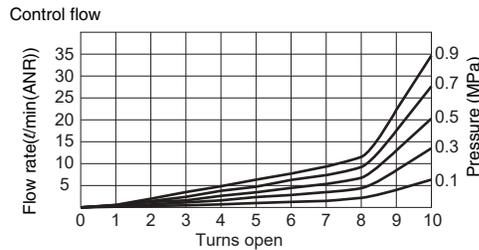
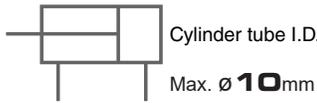
JSC180-M3 L JSS180-M3 L
 2-M3 L 2-M3 L



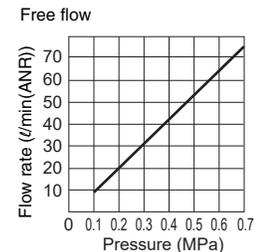
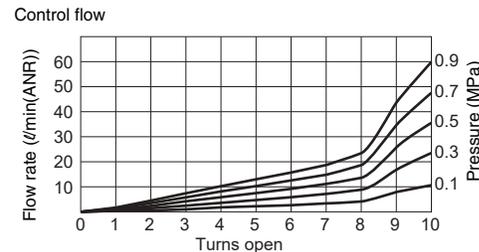
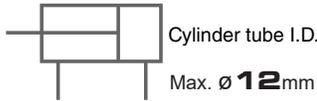
JSC180-M5 L JSS180-M5 L
 2-M5 L 2-M5 L



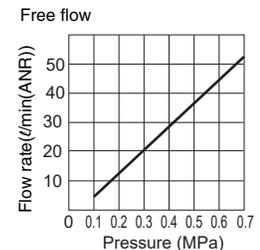
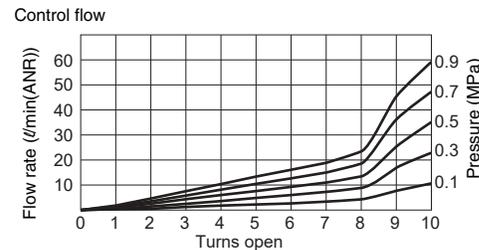
JSC3-M3 L JSS3-M3 L



JSC3-M5 L JSS3-M5 L



JSC4-M3 L JSS4-M3 L





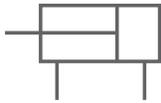
Flow Controller Series

Low Flow

Elbow/Banjo and Universal

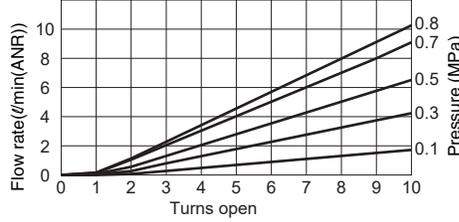
JSC 4-M5 L
6-M5 L

JSS 4-M5 L
6-M5 L

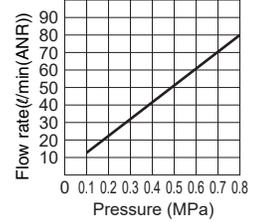


Cylinder tube I.D.
Max. \varnothing **6**mm

Control flow

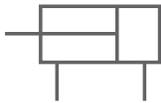


Free flow



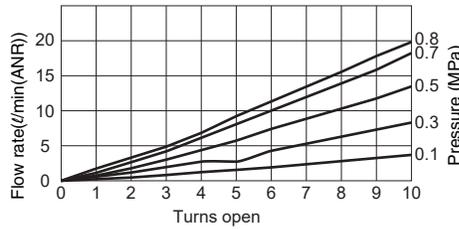
JSC 4-01 L
6-01 L
8-01 L

JSS 4-01 L
6-01 L
8-01 L

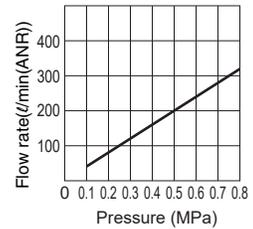


Cylinder tube I.D.
Max. \varnothing **8**mm

Control flow

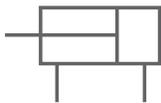


Free flow



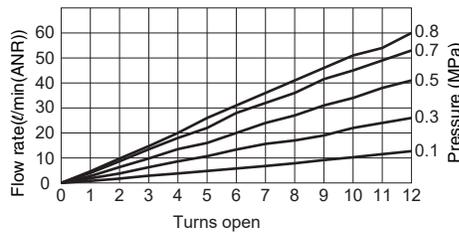
JSC 6-02 L
8-02 L
10-02 L

JSS 6-02 L
8-02 L
10-02 L

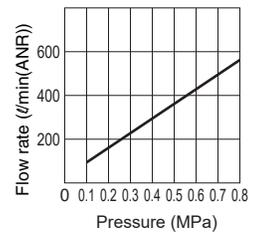


Cylinder tube I.D.
Max. \varnothing **16**mm

Control flow

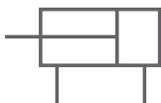


Free flow



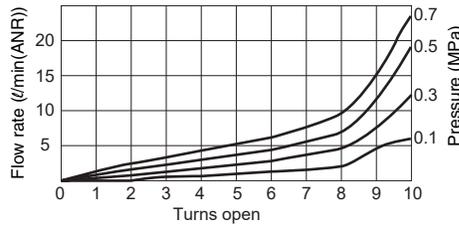
Small sized In-line Straight

JSMU180L
2L

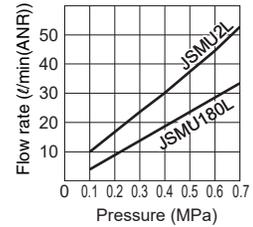


Cylinder tube I.D.
Max. \varnothing **10**mm

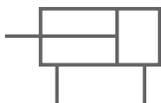
Control flow



Free flow

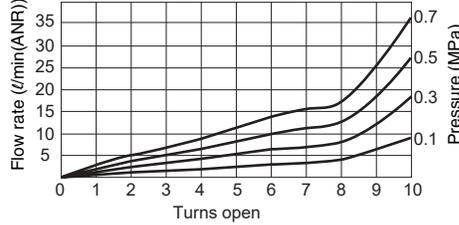


JSMU3L

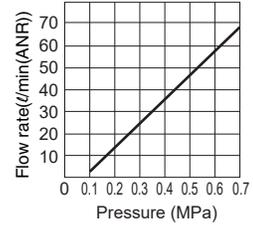


Cylinder tube I.D.
Max. \varnothing **12**mm

Control flow



Free flow

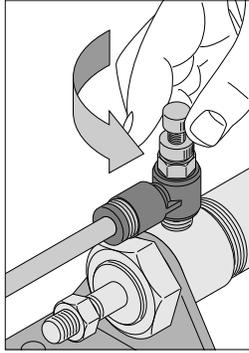


How to adjust the speed

1. Speed adjustment of actuators

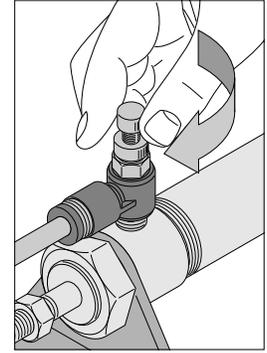
① Increasing speed

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

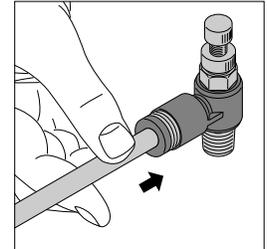


2. How to insert and disconnect

1. How to insert and disconnect tubings

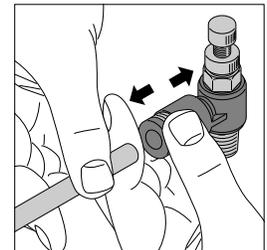
① Tubing insertion

Insert a tubing into Push-In Fitting up to the tube end. Lock-claws bite the tubing and grab it automatically, then the elastic sleeve seals around the tubing. Refer to "2. Instructions for Tubing Insertion" under "Common Safety Instructions for Fittings" .



② Tubing disconnection

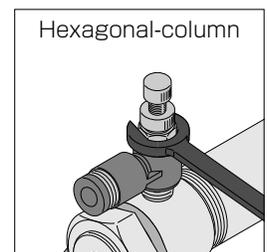
The tubing is disconnected by pushing release-ring to release Lock-claws. Make sure to stop air supply before the tube disconnection.



2. How to tighten thread

① Tightening thread

Use a wrench to tighten a hexagonal-column. Refer to "Table: Recommended tightening torque" under "2. Instructions for Installing Controllers" in "Common Safety Instructions for Controllers".



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

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.

Special Options

■ Characteristics

● *Color option*

Light-gray color option for resin body and release-ring.

● *Seal rubber material option*

Seal Rubber Selection: FKM or EPDM.

● *Oil-free option*

Suitable for Oil-free Environment.

● *Release-ring color option*

Changeable to Red Color

● *Non-purple option*

Suppress CU ion and F ion.

※ Note: With this option, Check Valve and Stop Fitting, etc. do not have marking on the brass parts. Be careful when piping.

Reference chart of Appearance Color Combination (For Controller)

Series	Resin color or Option	Tube dia.		Seal rubber material		Release-ring color	
				-F FKM		-R レッド	
Flow Controller & Needle (Throttle) Valve Standard	-	mm size					
		inch size					
	Light-gray	mm size					
		inch size					
	Clean-room pkg	mm size					
		inch size					
	Light-gray + Clean-room pkg	mm size					
		inch size					