

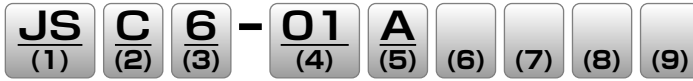
Speed Controller

Push-In fitting type one-way flow control valve

⚠ 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.

Control·Air Prep.

Model Designation (Example) *Please see page 121-122 for the combinations of applicable tube dia. and thread size.



(1) Speed Controller

(2) Type

Code	C	S	MU	M
Type	Elbow	Free	Small Union Straight	Universal

(3) Tube dia. (øD)

Code	mm size (mm)							inch size (inch)							
	180	2	3	4	6	8	10	12	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Tube O.D.	ø1.8	ø2	ø3	ø4	ø6	ø8	ø10	ø12	ø1/8	ø5/32	ø3/16	ø1/4	ø5/16	ø3/8	ø1/2

*1. Tube dia. ø1.8mm, 2mm and 3mm of Small Union Straight type are only available in low-flow type, which requires "L" in (7).

*2. Tube dia. ø1.8mm and 2mm are only available in low-flow type.

(4) Thread size (R) (No code entry for Small Union Straight type : JSMU)

Code	Metric thread		Taper pipe thread				Unified fine thread	National pipe thread tapered			
	M3	M5	O1	O2	O3	O4	U10	N1	N2	N3	N4
Thread size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

*M3 thread is only available in standard and low-flow type.

(5) Control direction (No code entry for Small Union Straight type : JSMU)

Code	A	B
	Meter-out control	Meter-in control
Control direction		
	Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side.	Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.
Identification	Color of lock nut : Silver (Large-flow type: Blue) 	Color of lock nut : Black

(6) Low cracking pressure type (No code entry for Small Union Straight, High/Low-flow type)

Code	No code	K
Check valve specifications	Standard	Low cracking pressure type (Check valve opening pressure: 0.02MPa, Operating pressure range: 0.05 to 0.5MPa)

(7) Flow type (Please select the flow type by referring to the characteristics on the next page.)

Code	No code	H(*)	L
Type	Standard	High-flow	Low-flow
Marking on needle	A, B, AK, BK	AG	AT, BT (No marking for ø1.8, ø2, ø3mm)

*The High-flow type comes with meter-out control (A) only.

(8) Body color + Packaging option (Optional)

Code	No code	-C	W	W-C
Check valve specifications	Standard	Clean-room package	Light-gray	Light-gray + Clean-room package
Appearance spec.				
Release-ring color (2)	Black	Light-blue	Light-gray	Light-gray
Resin body color	Black		Light-gray	

Release-ring shape

- Tube O.D. : ø1.8mm ■ Tube O.D. : ø2mm
 - ◀ Round shape(One cut)
 - ◀ Round shape(Two cuts)
- Tube O.D. : ø3, ø4, ø6mm ø1/8, ø5/32, ø3/16, ø1/4in.
 - ◀ Oval shape
- Tube O.D. : ø8, ø10, ø12mm ø5/16, ø3/8, ø1/2in.
 - ◀ Round shape

*1. Clean-room package is not available for High-flow type.

*2. Release-ring color is white for all the above specifications of inch size.

*3. There is no option "W-C" for inch-size product since it is the same product as "-C".



(9) Wrench size specification

Code	No code	U
Wrench size specification	mm spec.	inch spec.

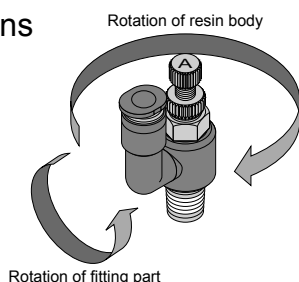
Speed Controller

Characteristics

Standard type, Free

The tubing lead-out directions are flexible.

Resin body and fitting are rotatable.

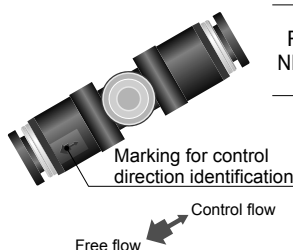


Thread size (Code)	Tube dia. (mm)	Controlled flow (l/min(ANR))	Needle rotation	Primary Pressure (MPa)
M3×0.5(M3)	ø3, ø4	63	7	0.5
M5×0.8(M5)	ø3, ø4, ø6	72	7	
10-32UNF(U10)	ø4, ø6, ø8	167	12	
R1/8(O1) NPT1/8(N1)			12	
R1/4(O2)	ø6	278	12	
NPT1/4(N2)	ø8, ø10	272	13	
			13	
			13	
R3/8(O3) NPT3/8(N3)	ø6	571	13	
ø8	911			
ø10	960			
R1/2(O4) NPT1/2(N4)	ø8, ø10, ø12	1,200	13	
				1,543
				1,686

Standard type, Small Union Straight

The check valve operates at a low pressure of 0.005MPa.

*Not including Low-flow type.



Easier to identify the control direction.

A marking on the top of resin body (needle side) indicates the control direction.

*Not including Low-flow type.

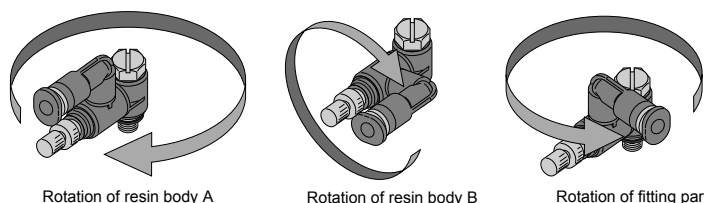
Universal type

Best suitable for speed control of pen-type cylinders.

Universal type is suitable for space-saving piping.

The tube lead-out directions are free.

Resin body A, B and the fitting part are rotatable.



High-flow type

Suitable for High Speed Cylinder.

High flow type with same size as standard type.

Thread size (Code)	Tube dia. (mm)	Controlled flow (l/min(ANR))	Needle rotation	Primary Pressure (MPa)
R1/8(O1) NPT1/8(N1)	ø6, ø8	300	10	0.5
R1/4(O2) NPT1/4(N2)		511	12	
R3/8(O3) NPT3/8(N3)	ø8, ø10	787	11	
		1,164		
R1/2(O4) NPT1/2(N4)	ø10, ø12	1,422	12	
		2,000		

Low-flow type

Suitable for Low Speed Cylinder.

Since free flow rates are equivalent to those of standard type, return strokes can be driven at high speed.

A wide variety of shapes for low-flow type.

Thread size (Code)	Tube dia. (mm)	Controlled flow (l/min(ANR))	Needle rotation	Primary Pressure (MPa)
M3×0.5(M3)	ø1.8, ø2, ø3	20	10	0.5
	ø4	35		
M5×0.8(M5)	ø1.8, ø2	20		
	ø3	35		
	ø4, ø6	6.5		
R1/8(O1)	ø4, ø6, ø8, ø10	13		
R1/4(O2)	ø6, ø8, ø10	41		

Clean-room package (Optional)

Best suitable for piping in clean environment.

Fluorine-based grease is used on O-ring for clean-room package.

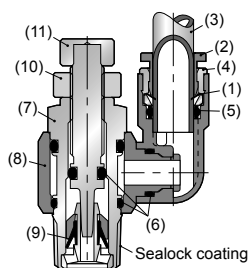
Products are packed in a clean room equivalent to ISO class 6 after washed by clean air.

Specifications

Standard type		High-flow type		Low-flow type		
Type	Elbow, Free, Universal	Small Union Straight	Fluid medium	Air	Fluid medium	Air
Fluid medium	Air		Operating pressure range	0.1 to 0.7 MPa	Operating pressure range	0.1 to 0.9 MPa
Operating pressure range	0.1 to 0.9 MPa (Low cracking pressure type: 0.05 to 0.5MPa)	0.05 to 1.0 MPa	Check valve opening pressure	0.05 MPa	Check valve opening pressure	0.05 MPa
Check valve opening pressure	0.05 MPa (Low cracking pressure type: 0.02MPa)	0.005 MPa	Operating temp. range	0 to 60°C (No freezing)	Operating temp. range	0 to 60°C (No freezing)
Operating temp. range	0 to 60°C (No freezing)					

Sectional drawing

Standard type Free: JSS





No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	O-ring	NBR
(7)	Metallic body ^(*)	Nickel-plated brass
(8)	Resin body	PBT
(9)	Diaphragm	HNBR
(10)	Lock nut	Aluminum
(11)	Needle	Nickel-plated brass

*1. Metallic body with M3 thread is made of special stainless steel (Austenite or ferritic stainless steel).

*2. Gasket for metric or UNF thread of standard and low-flow type is made of SUS304+NBR or SPCC+NBR. For metric thread of clean-room packaging, gasket is made of POM.



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





Standard type

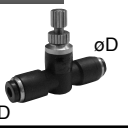
Type	Model code JSCøD-R ⁵ (K) ⁸	Applicable cylinder tube I.D. (mm)	Model code JSCøD-R ⁵ (K)U	Applicable cylinder tube I.D. (mm)	Type	Model code JSSøD-R ⁵ (K) ⁸	Applicable cylinder tube I.D. (mm)	Model code JSSøD-R ⁵ (K)U	Applicable cylinder tube I.D. (mm)
Elbow JSC 	JSC3-M3 ⁵ ⁸	ø16	JSC ¹ / ₈ -U10 ⁵ U	max. ø20	Free JSS 	JSS3-M3 ⁵ ⁸	ø16	JSS ¹ / ₈ -U10 ⁵ U	max. ø20
	JSC3-M3 ⁵ K ⁸		JSC ¹ / ₈ -U10 ⁵ KU	max. ø16		JSS3-M3 ⁵ K ⁸		JSS ¹ / ₈ -U10 ⁵ KU	max. ø16
	JSC3-M5 ⁵ ⁸	ø16	JSC ¹ / ₈ -N1 ⁵ U	max. ø32		JSS3-M5 ⁵ ⁸	ø20	JSS ³ / ₃₂ -U10 ⁵ U	max. ø20
	JSC3-M5 ⁵ K ⁸		JSC ¹ / ₈ -N1 ⁵ KU	max. ø32		JSS3-M5 ⁵ K ⁸		JSS ³ / ₃₂ -U10 ⁵ KU	max. ø16
	JSC4-M3 ⁵ ⁸	ø16	JSC ⁵ / ₃₂ -U10 ⁵ U	max. ø20		JSS4-M3 ⁵ ⁸	ø16	JSS ⁵ / ₃₂ -N1 ⁵ U	max. ø32
	JSC4-M3 ⁵ K ⁸		JSC ⁵ / ₃₂ -U10 ⁵ KU	max. ø16		JSS4-M3 ⁵ K ⁸		JSS ⁵ / ₃₂ -N1 ⁵ KU	max. ø32
	JSC4-M5 ⁵ ⁸	ø20	JSC ⁵ / ₃₂ -N1 ⁵ U	max. ø32		JSS4-M5 ⁵ ⁸	ø20	JSS ³ / ₁₆ -U10 ⁵ U	max. ø20
	JSC4-M5 ⁵ K ⁸		JSC ⁵ / ₃₂ -N1 ⁵ KU	max. ø32		JSS4-M5 ⁵ K ⁸		JSS ³ / ₁₆ -U10 ⁵ KU	max. ø16
	JSC4-01 ⁵ ⁸	ø32	JSC ³ / ₁₆ -U10 ⁵ U	max. ø20		JSS4-01 ⁵ ⁸	ø32	JSS ³ / ₁₆ -N1 ⁵ U	max. ø32
	JSC4-01 ⁵ K ⁸		JSC ³ / ₁₆ -U10 ⁵ KU	max. ø16		JSS4-01 ⁵ K ⁸		JSS ³ / ₁₆ -N1 ⁵ KU	max. ø32
	JSC6-M5 ⁵ ⁸	ø20	JSC ³ / ₁₆ -N1 ⁵ U	max. ø32		JSS6-M5 ⁵ ⁸	ø20	JSS ³ / ₁₆ -N2 ⁵ U	max. ø40
	JSC6-M5 ⁵ K ⁸		JSC ³ / ₁₆ -N1 ⁵ KU	max. ø32		JSS6-M5 ⁵ K ⁸		JSS ³ / ₁₆ -N2 ⁵ KU	max. ø40
	JSC6-01 ⁵ ⁸	ø32	JSC ³ / ₁₆ -N2 ⁵ U	max. ø40		JSS6-01 ⁵ ⁸	ø32	JSS ¹ / ₄ -U10 ⁵ U	max. ø20
	JSC6-01 ⁵ K ⁸		JSC ³ / ₁₆ -N2 ⁵ KU	max. ø40		JSS6-01 ⁵ K ⁸		JSS ¹ / ₄ -U10 ⁵ KU	max. ø20
	JSC6-02 ⁵ ⁸	ø40	JSC ³ / ₁₆ -N3 ⁵ U	max. ø63		JSS6-02 ⁵ ⁸	ø40	JSS ¹ / ₄ -N1 ⁵ U	max. ø32
	JSC6-02 ⁵ K ⁸		JSC ¹ / ₄ -U10 ⁵ U	max. ø20		JSS6-02 ⁵ K ⁸		JSS ¹ / ₄ -N1 ⁵ KU	max. ø32
	JSC6-03 ⁵ ⁸	ø63	JSC ¹ / ₄ -U10 ⁵ KU	max. ø20		JSS8-01 ⁵ ⁸	ø32	JSS ¹ / ₄ -N2 ⁵ U	max. ø40
	JSC8-01 ⁵ ⁸		JSC ¹ / ₄ -N1 ⁵ KU	max. ø32		JSS8-01 ⁵ K ⁸		JSS ¹ / ₄ -N2 ⁵ KU	max. ø40
	JSC8-01 ⁵ K ⁸	ø32	JSC ¹ / ₄ -N2 ⁵ KU	max. ø40		JSS8-02 ⁵ ⁸	ø40	JSS ⁵ / ₁₆ -N1 ⁵ U	max. ø32
	JSC8-02 ⁵ ⁸		JSC ¹ / ₄ -N3 ⁵ U	max. ø63		JSS8-02 ⁵ K ⁸		JSS ⁵ / ₁₆ -N1 ⁵ KU	max. ø32
	JSC8-02 ⁵ K ⁸	ø40	JSC ¹ / ₄ -N4 ⁵ U	max. ø80		JSS8-03 ⁵ ⁸	ø63	JSS ⁵ / ₁₆ -N2 ⁵ U	max. ø40
	JSC8-03 ⁵ ⁸		JSC ⁵ / ₁₆ -N1 ⁵ U	max. ø32		JSS10-02 ⁵ ⁸		JSS ⁵ / ₁₆ -N2 ⁵ KU	max. ø40
	JSC8-04 ⁵ ⁸	ø80	JSC ⁵ / ₁₆ -N1 ⁵ KU	max. ø32		JSS10-02 ⁵ K ⁸	ø40	JSS ⁵ / ₁₆ -N3 ⁵ U	max. ø63
	JSC10-02 ⁵ ⁸		JSC ⁵ / ₁₆ -N2 ⁵ U	max. ø40		JSS10-03 ⁵ ⁸		JSS ³ / ₈ -N2 ⁵ U	max. ø40
	JSC10-02 ⁵ K ⁸	ø40	JSC ⁵ / ₁₆ -N2 ⁵ KU	max. ø40		JSS12-03 ⁵ ⁸	ø63	JSS ³ / ₈ -N2 ⁵ KU	max. ø40
	JSC10-03 ⁵ ⁸		JSC ⁵ / ₁₆ -N3 ⁵ U	max. ø63		JSS12-04 ⁵ ⁸		JSS ³ / ₈ -N3 ⁵ U	max. ø63
	JSC10-04 ⁵ ⁸	ø100	JSC ⁵ / ₁₆ -N4 ⁵ U	max. ø80		JSS ¹ / ₈ -M3 ⁵ ⁸	ø16	JSS ¹ / ₂ -N3 ⁵ U	max. ø63
	JSC12-03 ⁵ ⁸		JSC ³ / ₈ -N2 ⁵ KU	max. ø40		JSS ¹ / ₈ -M3 ⁵ K ⁸		JSS ¹ / ₂ -N4 ⁵ U	max. ø100
	JSC12-04 ⁵ ⁸	ø100	JSC ³ / ₈ -N4 ⁵ U	max. ø100		JSS ¹ / ₈ -M5 ⁵ ⁸	ø20		
	JSC ¹ / ₈ -M3 ⁵ ⁸		ø16	JSC ¹ / ₂ -N3 ⁵ U		max. ø63		JSS ¹ / ₈ -M5 ⁵ K ⁸	ø16
	JSC ¹ / ₈ -M3 ⁵ K ⁸	ø20		JSC ¹ / ₂ -N4 ⁵ U		max. ø100	JSS ¹ / ₄ -M5 ⁵ ⁸	ø20	
	JSC ¹ / ₈ -M5 ⁵ ⁸		ø16				JSS ¹ / ₄ -M5 ⁵ K ⁸		ø20
JSC ¹ / ₄ -M5 ⁵ ⁸	ø20				JSS ¹ / ₄ -01 ⁵ ⁸	ø32			
JSC ¹ / ₄ -M5 ⁵ K ⁸		ø32			JSS ¹ / ₄ -01 ⁵ K ⁸		ø32		
JSC ¹ / ₄ -01 ⁵ ⁸	ø40				JSS ¹ / ₄ -02 ⁵ ⁸	ø40			
JSC ¹ / ₄ -01 ⁵ K ⁸		ø40			JSS ¹ / ₄ -02 ⁵ K ⁸		ø40		
JSC ¹ / ₄ -02 ⁵ ⁸	ø40				JSS ⁵ / ₁₆ -01 ⁵ ⁸	ø32			
JSC ¹ / ₄ -02 ⁵ K ⁸		ø32			JSS ⁵ / ₁₆ -01 ⁵ K ⁸		ø32		
JSC ⁵ / ₁₆ -01 ⁵ ⁸	ø40				JSS ⁵ / ₁₆ -02 ⁵ ⁸	ø40			
JSC ⁵ / ₁₆ -01 ⁵ K ⁸		ø63			JSS ⁵ / ₁₆ -02 ⁵ K ⁸		ø40		
JSC ³ / ₁₆ -02 ⁵ ⁸	ø40				JSS ⁵ / ₁₆ -03 ⁵ ⁸	ø63			
JSC ³ / ₁₆ -02 ⁵ K ⁸		ø63			JSS ³ / ₈ -02 ⁵ ⁸		ø40		
JSC ³ / ₁₆ -03 ⁵ ⁸	ø40				JSS ³ / ₈ -02 ⁵ K ⁸	ø40			
JSC ³ / ₁₆ -02 ⁵ ⁸		ø40			JSS ³ / ₈ -03 ⁵ ⁸		ø63		
JSC ³ / ₁₆ -02 ⁵ K ⁸	ø63								
JSC ³ / ₁₆ -03 ⁵ ⁸		ø63							
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JSC ³ / ₁₆ -02 ⁵ K ⁸		ø63							
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JSC ³ / ₁₆ -02 ⁵ ⁸		ø40							
JSC ³ / ₁₆ -02 ⁵ K ⁸	ø63								
JSC ³ / ₁₆ -03 ⁵ ⁸		ø63							
JSC ³ / ₁₆ -02 ⁵ ⁸	ø40								
JSC ³ / ₁₆ -02 ⁵ K ⁸		ø63							
JSC ³ / ₁₆ -03 ⁵ ⁸	ø63								
JSC ³ / ₁₆ -02 ⁵ ⁸		ø40							
JSC ³ / ₁₆ -02 ⁵ K ⁸	ø63								
JSC ³ / ₁₆ -03 ⁵ ⁸		ø63							
JSC ³ / ₁₆ -02 ⁵ ⁸	ø40								
JSC ³ / ₁₆ -02 ⁵ K ⁸		ø63							
JSC ³ / ₁₆ -03 ⁵ ⁸	ø63								
JSC ³ / ₁₆ -02 ⁵ ⁸		ø40							
JSC ³ / ₁₆ -02 ⁵ K ⁸	ø63								
JSC ³ / ₁₆ -03 ⁵ ⁸		ø63							
JSC ³ / ₁₆ -02 ⁵ ⁸	ø40								
JSC ³ / ₁₆ -02 ⁵ K ⁸		ø63							
JSC ³ / ₁₆ -03 ⁵ ⁸	ø63								
JSC ³ / ₁₆ -02 ⁵ ⁸		ø40							
JSC ³ / ₁₆ -02 ⁵ K ⁸	ø63								
JSC ³ / ₁₆ -03 ⁵ ⁸		ø63							
JSC ³ / ₁₆ -02 ⁵ ⁸	ø40				</				


Speed Controller

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

Standard type					
Type	Model code JSMU ϕ D $\{8\}$	Applicable cylinder tube I.D. (mm)	Type	Model code JSM ϕ D-R $\{5\}$ (K)	Applicable cylinder tube I.D. (mm)
Small Union Straight JSMU 	JSMU4 $\{8\}$	ϕ 20	Universal JSM 	JSM4-M5 $\{5\}$ $\{8\}$	ϕ 20
	JSMU6 $\{8\}$	ϕ 32		JSM4-M5 $\{5\}$ K $\{8\}$	ϕ 16
	JSMU8 $\{8\}$	ϕ 50			
	JSMU10 $\{8\}$	ϕ 63			
	JSMU12 $\{8\}$	ϕ 80			
	JSMU $\frac{5}{32}$ $\{8\}$	ϕ 20			
	JSMU $\frac{1}{4}$ $\{8\}$	ϕ 32			
	JSMU $\frac{5}{16}$ $\{8\}$	ϕ 50			
	JSMU $\frac{3}{8}$ $\{8\}$	ϕ 63			
	JSMU $\frac{1}{2}$ $\{8\}$	ϕ 80			

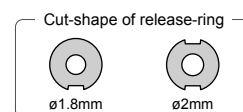
Low-flow type					
Type	Model code JSC ϕ D-R $\{5\}$ L $\{8\}$ (U)	Applicable cylinder tube I.D. (mm)	Type	Model code JSS ϕ D-R $\{5\}$ L $\{8\}$	Applicable cylinder tube I.D. (mm)
Elbow JSC 	JSC180-M3 $\{5\}$ L $\{8\}$	ϕ 10	Free JSS 	JSS180-M3 $\{5\}$ L $\{8\}$	ϕ 10
	JSC180-M5 $\{5\}$ L $\{8\}$	ϕ 10		JSS180-M5 $\{5\}$ L $\{8\}$	ϕ 10
	JSC2-M3 $\{5\}$ L $\{8\}$	ϕ 10		JSS2-M3 $\{5\}$ L $\{8\}$	ϕ 10
	JSC2-M5 $\{5\}$ L $\{8\}$	ϕ 10		JSS2-M5 $\{5\}$ L $\{8\}$	ϕ 10
	JSC3-M3 $\{5\}$ L $\{8\}$	ϕ 10		JSS3-M3 $\{5\}$ L $\{8\}$	ϕ 10
	JSC3-M5 $\{5\}$ L $\{8\}$	ϕ 12		JSS3-M5 $\{5\}$ L $\{8\}$	ϕ 12
	JSC4-M3 $\{5\}$ L $\{8\}$	ϕ 12		JSS4-M3 $\{5\}$ L $\{8\}$	ϕ 12
	JSC4-M5 $\{5\}$ L $\{8\}$	ϕ 6		JSS4-M5 $\{5\}$ L $\{8\}$	ϕ 6
	JSC4-01 $\{5\}$ L $\{8\}$	ϕ 8		JSS4-01 $\{5\}$ L $\{8\}$	ϕ 8
	JSC6-M5 $\{5\}$ L $\{8\}$	ϕ 6		JSS6-M5 $\{5\}$ L $\{8\}$	ϕ 6
	JSC6-01 $\{5\}$ L $\{8\}$	ϕ 8		JSS6-01 $\{5\}$ L $\{8\}$	ϕ 8
	JSC6-02 $\{5\}$ L $\{8\}$	ϕ 16		JSS6-02 $\{5\}$ L $\{8\}$	ϕ 16
	JSC8-01 $\{5\}$ L $\{8\}$	ϕ 8		JSS8-01 $\{5\}$ L $\{8\}$	ϕ 8
	JSC8-02 $\{5\}$ L $\{8\}$	ϕ 16		JSS8-02 $\{5\}$ L $\{8\}$	ϕ 16
	JSC10-02 $\{5\}$ L $\{8\}$	ϕ 16		JSS10-02 $\{5\}$ L $\{8\}$	ϕ 16
	JSC $\frac{1}{4}$ -N1 $\{5\}$ LU	ϕ 8			
	JSC $\frac{1}{4}$ -N2 $\{5\}$ LU	ϕ 16			


Type	Model code JSMU ϕ DL $\{8\}$	Applicable cylinder tube I.D. (mm)
Small Union Straight JSMU 	JSMU180L $\{8\}$	ϕ 10
	JSMU2L $\{8\}$	ϕ 10
	JSMU3L $\{8\}$	ϕ 12


High-flow type		
Type	Model code JSC ϕ D-RAH $\{8\}$ (U)	Applicable cylinder tube I.D. (mm)
Elbow JSC 	JSC6-01AH $\{8\}$	ϕ 40
	JSC6-02AH $\{8\}$	ϕ 50
	JSC8-01AH $\{8\}$	ϕ 40
	JSC8-02AH $\{8\}$	ϕ 63
	JSC8-03AH $\{8\}$	ϕ 80
	JSC10-02AH $\{8\}$	ϕ 63
	JSC10-03AH $\{8\}$	ϕ 100
	JSC12-03AH $\{8\}$	ϕ 100
	JSC12-04AH $\{8\}$	ϕ 100
	JSC $\frac{1}{4}$ -02AH $\{8\}$	ϕ 50
	JSC $\frac{1}{4}$ -03AH $\{8\}$	ϕ 80
	JSC $\frac{1}{4}$ -N1AHU	ϕ 40
	JSC $\frac{1}{4}$ -N2AHU	ϕ 50
	JSC $\frac{3}{8}$ -N2AHU	ϕ 63
	JSC $\frac{3}{8}$ -N3AHU	ϕ 100

Notes

- *1. For $\{5\}$ in model code, please select a control direction code, "A" for Meter-out and "B" for Meter-in control.
- *2. Applicable cylinder tube I.D. is based on the supply air pressure at 0.5MPa and cylinder speed at 500mm/sec.
- *3. Tube dia. ϕ 1.8 and ϕ 2mm do not have tube size indication on release-ring. Tube size can be identified by cut-shape of release-ring.




 CAD data is available at PISCO website.

 Packaging specifications
1 pc. /bag

 Options

Code	$\{8\}$: -C	$\{8\}$: W	$\{8\}$: W-C
Specifications	Clean-room package	Light-gray	Light-gray + Clean-room package

*Universal (JSM) type and High-flow type are selectable only for resin body color: Light-gray specification

 Non-standard options (Details▶P.893)

- Seal rubber options(FKM, EPDM, HNBR)
- Copper free spec.
- Release ring color change (Red)
- ▶Contact us for the price.



Make to Order Production

Order Production Index

Based on the standard products, "Special specification option" on parts for matching operating environment or "Special appearance option" for matching a color for operating environment can be selected and ordered by just adding prearranged extension code of options.

*PISCO welcomes an inquiry of custom-made product, which is not listed in this catalog.
Please feel free to contact nearest PISCO office.

PISCO flexibly corresponds to non standard products that meet the needs of our customers.



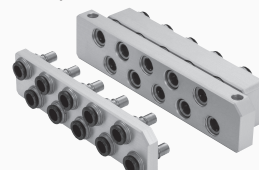
Visit PISCO web site for video about Non-standard products.
<https://www.pisco.co.jp/en/product/special/>



Tube penetration type
Tube Fitting



Tube Fitting unequal
port combinations



Multiple Coupling



Bulk Packaging (Tube Fitting,
Control, Vacuum Pad)

Make to Order Production

G thread spec.



Fittings with mm size tube diameter and parallel pipe thread are available. Contact us for inquiry.



● Applicable model

Fitting Tube Fitting, Tube Fitting Mini

Inch NPT spec.

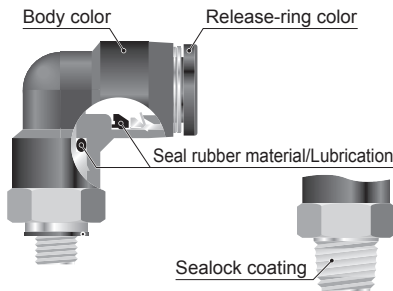


● Applicable model

Fitting	Tube Fitting, Tube Fitting Mini, Die Temperature Control Fitting, Rotary Joint, High Rotary Joint, Connector, Light Coupling
Control	Speed Controller, Speed Controller Large-flow type, Orifice Flow Speed Controller, Throttle (Needle) Valve, Quick Exhaust Valve, Orifice Fitting, Pressure Regulator Push-lock type, Pressure Controller, Check Valve, Pressure Gauge
Valve	Change Valve, Hand Valve, Ball Valve, Mechanical Valve



Special options



- ▶ Color option
Light-gray color option for resin body and release-ring.
- ▶ Seal rubber material option
Seal Rubber Selection: FKM, EPDM or HNBR.
- ▶ Oil-free option
Assembled without intentional use of oil, oil contamination into fluid medium can be prevented.
- ▶ ~~Non-purple option~~
~~Restraining generation of Cu ion or Fe ion from the product.~~
~~With this option, Check Valve and Stop Fitting, etc. do not have marking on the lower parts. Please refer to the piping.~~
- ▶ Release-ring color option
Changeable to Red Color

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

Model Designation (Example)

PL6-01	W	-F	-D	
(1)	(2)	(3)	(4)	(5)

(1) Model code (See the next page for available products.)

(2) Body color (Resin body color)

Code	W	No code
Color	Light gray	Standard

*When light-gray (W) is selected for body color, the metric (mm) size release-ring color is light-gray even for combination with any other options (except when red release-ring is specified). The color of release-ring of inch tube dia. is always white.

(3) Seal rubber material

Code	-F	-E	-HN	No code
Material	FKM	EPDM (Oil-free)	HNBR	Standard seal rubber

*1. For FKM (-F) specification, the color of metric (mm) size release-ring is brown, while inch tube dia. is white. FKM (-F) specification is not available with non-purple (-P) specification.
*2. For EPDM (-E) specification, the product is assembled as oil-free specification. The color of metric (mm) release-ring is yellow.
*3. EPDM (-E) specification can not be selected for the products with M3 or M6 threads or with inch tube dia.

(4) Lubrication

Code	-D	-P	No code
Option	Oil-free	Non-purple	Standard

*1. The metric (mm) size release-ring color of oil-free (-D) specification is yellow, while inch tube dia. is white.
*2. The product with oil-free (-D) specification is assembled without intentional use of lubrication in standard process. Therefore the problem of reducing airtightness or increasing frictions of rubber parts may be resulted.
*3. ~~Non-purple (-P) specification is available with seal rubber material FKM. The Seal rubber selection for Non-purple option.~~

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

(5) Release-ring color

Code	-RR	No code
Color	Red	Standard

Reference Chart of Special Options

○: Available, ×: Not available

Product series	Standard specification						Special specification							
	Body color and Packaging/ Cleaning option	Resin body color	Release-ring color	Seal rubber material	Lubrication	Thread sealing	(1)	(2)			(3)		(4)	
							Light gray	FKM	EPDM	HNBR	Oil-free option	Non-purple	Red	
							-W ^{*1}	-F ^{*2}	-E ^{*3}	-HN	-D ^{*4}	-P ^{*2}	-RR	
Tube fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5}	○	○	○	○	○	
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6}	○	○	○		
	Clean-room pkg.	Light gray	Light blue				Fluorine-based grease	×	○	○ ^{*6}	○	○	×	
	Light gray + Clean-room pkg.	Light gray	Light gray				Oil-free option	Standard spec.	○	○	○	○	×	
	Clean wash + Clean-room pkg.	Light gray	Light blue					×	×	○ ^{*6}	Standard spec.	○	○	
Tube fitting Mini	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5,*10}	○ ^{*10}	○ ^{*10}	○	○	○	
	Light gray	Light gray	Light gray				Standard spec.	○ ^{*10}	○ ^{*6,*10}	○ ^{*10}	○	○	○	
	Clean-room pkg.	Light gray	Light blue				Fluorine-based grease	×	○ ^{*10}	○ ^{*6,*10}	○ ^{*10}	○	○	×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○	○ ^{*10}	○	○	○	×	
Tube Fitting SUS304	Standard	Black	Dark blue	FKM	Turbin oil	Sealock coating	×	Standard spec.	○ ^{*7}	○	○ ^{*7}	×	△ ^{*17}	
Tube Fitting Stainless SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	○	○	○ ^{*7,*15}	Standard spec.	○ ^{*7}	○	○	
	Clean wash + Clean-room pkg.	Black	Dark blue		Oil-free option	×	×	○	○	Standard spec.	Standard spec.	×	○	
Tube Fitting Anti-static	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○	○ ^{*8}	○	○ ^{*8}	○	△ ^{*17}	
Tube fitting Brass	Standard	—	—	HNBR	Turbin oil	Sealock coating	×	—	×	Standard spec.	○	○	×	
				FKM			Standard spec.	—	○	○	○	○		
Tube fitting Long	Standard	—	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5}	○	○	○	○	○	
Main block	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5}	○	○	△ ^{*17}	×	○	
	Light gray	Light gray	Light gray				Standard spec.	○	○	○	○	○		
Connector	Standard	Black	Black	NBR	Turbin oil	—	×	○ ^{*5}	○	○	○	×	○	
Speed controller ^{*14}	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*13}	○ ^{*10}	○	△ ^{*17}	○	○	
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6,*10}	○ ^{*10,*11}	○	○	○	
	Clean-room pkg.	Light gray	Light blue				Fluorine-based grease	×	○ ^{*10,*11,*12}	○ ^{*10}	○	○	○	×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○	○ ^{*10}	○	○	○	○	
Speed controller SUS303 equivalent corrosivity	Standard	Black	Dark blue	HNBR	Turbin oil	Sealock coating	○	○ ^{*11,*12}	○ ^{*7}	Standard spec.	△ ^{*17}	○	○	
Needle valve	Standard	Black	Black	NBR	Turbin oil	Sealock coating	×	○ ^{*5,*12}	○	○	△ ^{*17}	○	○	
	Light gray	Light gray	Light gray				Standard spec.	○	○ ^{*6}	○	○	○	○	
	Clean-room pkg.	Light gray	Light blue				Fluorine-based grease	×	○ ^{*12}	○	○	○	○	×
	Light gray + Clean-room pkg.	Light gray	Light gray				Standard spec.	○	○	○	○	○	○	
Orifice fitting	Standard	Black	Black	NBR	Turbin oil	Sealock coating	○	○	○	○	○	○ ^{*16}	○ ^{*9}	
Check valve (Metal type)	Standard	—	Black	NBR	Turbin oil	Sealock coating	×	○	×	×	△ ^{*17}	○	○	
Check valve (Resin type)		Light gray	Light gray				Standard spec.	○	○	○	○	○		
Check Valve for Low Operating Pressure	Standard	Light gray	Light gray	HNBR (Elastic sleeve)	Turbin oil	—	Standard spec.	○ (Elastic sleeve)	○ (Elastic sleeve)	Standard spec.	○	×	○	
				FKM (Valve packing)			Standard spec.	○ (Valve packing)	×	×	○	○		

*1. When light-gray (-W) is selected for body color, the release-ring color of metric (mm) tube dia. is light-gray even for combination with any other options, except when Red color (-RR) is selected. The color of release-ring of inch tube dia. is always white.

*2. Non-purple spec. option is not available with seal rubber material FKM.

*3. For EPDM (-E) specification of sealing material, the product is assembled as oil-free specification. The color of release-ring of metric (mm) tube size is yellow, except the combination with light-gray specification, which has light-gray release-ring. EPDM (-E) specification is not available for the products with M3 or M6 threads or inch tube dia.

*4. Release-ring color: Yellow (When with light-gray specification, the release-ring color is light-gray.)

*5. Release-ring color: Brown

*6. Release-ring color: Light-blue

*7. Release-ring color: Dark-blue

*8. Release-ring color: Black

*9. Release-ring color: Red is not available with body color Light-gray.

*10. Not available for Tube dia. ø1.8 mm and ø2 mm.

*11. Not available for Low cracking pressure type.

*12. Not available for the products with M3 thread.

*13. See *5, *10, *11 and *12.

*14. Applicable types: JSC, JSS and JSM for Standard series, JSC-H for High Flow series, JSC-L and JSS-L for Low Flow series, JKC and JKL for Constant Flow series.

*15. Gasket material for Metric thread : PPS





*16. Orifice bore 0.1 mm and 0.2 mm is not available.

*17. Contact us for inquiry.

Non-purple spec. option will no longer be available after March 31, 2025. Please see "Discontinuation notice of Non-purple spec. option" on the last page.

*Consult PISCO for any inquiry of special-made product, which is not listed in this catalog.

Reference Chart of Appearance Color Combination with Special Options (Fitting with Metal body)








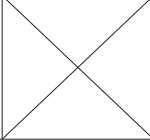







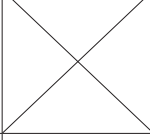







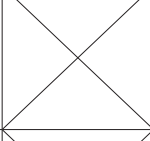



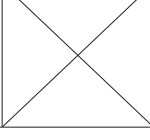
Product series	Resin color or Option	Tube dia. size		Seal rubber material		Lubrication	Release-ring color
				-F	-E	-D	-RR
				FKM	EPDM	Oil-free option	Red
Tube fitting Tube fitting Mini	-	mm size					
		inch size					
	Light gray	mm size					
		inch size					
	Clean-room pkg.	mm size					
		inch size					
	Light gray + Clean-room pkg.	mm size					
Tube fitting	Clean wash + Clean-room pkg.	mm size				Standard specification	
		inch size				Standard specification	
Tube Fitting SUS304	-	mm size		Standard specification			
Tube Fitting Stainless SUS303 equivalent corrosivity	-	mm size					
	Light gray	mm size					
	Clean wash + Clean-room pkg.	mm size				Standard specification	

Reference Chart of Appearance Color Combination with Special Options (Fitting with Resin body)

Product series	Resin color or Option	Tube dia. size	Seal rubber material		Lubrication	Release-ring color		
			-F	-E	-D	-RR		
			FKM	EPDM	Oil-free option	Red		
Tube fitting Tube fitting Mini	-	mm size						
		inch size						
	Light gray	mm size						
		inch size						
	Clean-room pkg.	mm size						
		inch size						
	Light gray + Clean-room pkg.	mm size						
	Tube fitting	Clean wash + Clean-room pkg.	mm size				Standard specification	
			inch size				Standard specification	
	Tube Fitting SUS304	-	mm size		Standard specification			
	Tube Fitting Stainless SUS303 equivalent corrosivity	-	mm size					
		Light gray	mm size					
Clean wash + Clean-room pkg.		mm size				Standard specification		

Make to Order Production

Reference Chart of Appearance Color Combination with Special Options (Controllers)

Product series	Resin color or Option	Tube dia. size		Seal rubber material		Release-ring color
				-F	-E	-RR
				FKM	EPDM	Red
Speed controller Throttle (needle) valve	-	mm size				
		inch size				
	Light gray	mm size				
		inch size				
	Clean-room pkg.	mm size				
		inch size				
	Light gray + Clean-room pkg.	mm size				

To: PISCO Distributers
 Attn: To Whom It May Concern
 Date: September 2024

Discontinuation notice of Non-purple spec. option

We would like to express our sincere gratitude for your continued patronage. We would like to inform you that the Non-purple spec., which was available as Special specification option, is discontinued, and its manufacturing and sales will be terminated as of the end of March, 2025. Thank you for your understanding.

Details

1. Discontinued option Make-to-order option, Special specification: Non-purple spec.
 Model code (Ex.): PL6-01-**P**
 **"-P" at the end of the model code

 Non-purple spec: For the Non-purple spec., fluorine ions and copper ions, which were undesirable in the manufacturing line of cathode ray tube televisions, are suppressed by not applying Sealock (fluorine-based thread sealant) to the products. Thus, Non-purple spec. is equivalent to No-Sealock spec.
2. Reason To update and expand applicable products by reviewing specifications to match the current situation.
3. Discontinuation Date **March 31, 2025**
4. Replacement Make-to-order option, Special specification: No-Sealock spec.
 Model code (Ex.): PL6-01-**NS**
 **"-NS" at the end of the model code
 *The list price remains the same.

		Thread sealant (Sealock)	Rubber material (Std. NBR)	Gasket material (Std. NBR)	Lubrication (Std. Turbine oil)	Marking	Applicable products
Discontinued	-P: Non-purple	Not applied	Fluorine materials are not selectable.			Not available	Some models of Tube Fitting
Replacement	-NS: No-Sealock	Not applied	Fluorine materials are selectable			Available	Tube Fitting, Speed Controller, Needle Valve, Check Valve, etc.

Please make inquiries to the following sales office.

Overseas Sales Department
 TEL: +81-265-76-7751 FAX: +81-265-76-3305
 E-mail: intl@pisco.co.jp URL: <https://pisco.co.jp/en/>