

Slot-head Speed Controller

Flow control valve with recessed adjustment screw for tamper-proof.

⚠ Safety instructions for this product

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

Model Designation (Example)

JSD (1)	C (2)	6 (3)	- 01 (4)	A (5)	(6)	(7)
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(1) Slot-head Speed Controller

(2) Type

Code	C	S
Type	Elbow	Free

(3) Tube dia. (øD)

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

(4) Thread size (R)

	Metric thread		Taper pipe thread				Unified fine thread	Inch NPT			
Code	M3	M5	01	02	03	04	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

(5) Control direction

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	Grooved markings on three points on its upper plug, and a JIS symbol on its resin body.	
	No marking JIS symbol	Grooved markings (Three points) JIS symbol
	A or B marking on its upper plug and a JIS symbol on its resin body.	
	Marking (A) JIS symbol	Marking (B) JIS symbol

(6) Body color + Clean-room packaging specifications (Optional)

Code	No code	-C	W	W-C
Specifications	Standard	Clean-room package	Light-gray	Light-gray + Clean-room package
Appearance spec.				
Release-ring color*	Black	Light-blue	Light-gray	Light-gray
Resin body color	Black	Light-gray		

*1. Release-ring color for inch type : White for all the specifications

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

Code: **No code**
(Inch)



Code: **-C, W**
(Inch)



(7) Wrench size specification

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

Slot-head Speed Controller

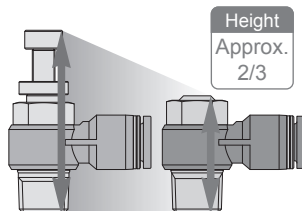
Characteristics

It prevents unnecessary manual adjustments during the operations.

Design without an external needle for flow adjustment.
Use a slot screwdriver to adjust the needle. (Flow adjustment)

Miniaturized.

Approx. 2/3 height of the Needle type.

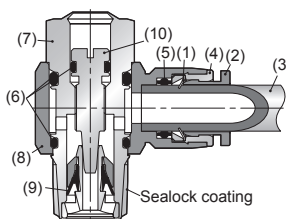


Specifications

Fluid medium	Air
Operating pressure range	0.1 to 0.9 MPa
Check valve opening pressure	0.05 MPa
Operating temp. range	0 to 60°C (No freezing)

Sectional drawing

Elbow type: JSDC



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 (*1)	Nickel-plated brass
(8)	Resin body	PBT
(9)	Diaphragm	HNBR
(10)	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 : SUS304+NBR or SPCC+NBR for standard spec. POM for clean-room packaging.

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

Type	Model code JSDCøD-R[5][6]	Applicable cylinder tube I.D. (mm)	Model code JSDCøD-R[5]U	Applicable cylinder tube I.D. (mm)	Type	Model code JSDSøD-R[5][6]	Applicable cylinder tube I.D. (mm)	Model code JSDSøD-R[5]U	Applicable cylinder tube I.D. (mm)
Elbow JSDC 	JSDC3-M3[5][6]	ø16	JSDC ¹ / ₈ -U10[5]U	max. ø20	Free JSDS 	JSDS3-M3[5][6]	ø16	JSDS ¹ / ₈ -U10[5]U	max. ø20
	JSDC3-M5[5][6]	ø20	JSDC ⁵ / ₃₂ -U10[5]U	max. ø20		JSDS3-M5[5][6]	ø20	JSDS ⁵ / ₃₂ -U10[5]U	max. ø20
	JSDC4-M3[5][6]	ø16	JSDC ⁵ / ₃₂ -N1[5]U	max. ø32		JSDS4-M3[5][6]	ø16	JSDS ⁵ / ₃₂ -N1[5]U	max. ø25
	JSDC4-M5[5][6]	ø20	JSDC ¹ / ₄ -U10[5]U	max. ø20		JSDS4-M5[5][6]	ø20	JSDS ¹ / ₄ -U10[5]U	max. ø20
	JSDC4-01[5][6]	ø32	JSDC ¹ / ₄ -N1[5]U	max. ø32		JSDS4-01[5][6]	ø25	JSDS ¹ / ₄ -N1[5]U	max. ø32
	JSDC6-M5[5][6]	ø20	JSDC ¹ / ₄ -N2[5]U	max. ø40		JSDS6-M5[5][6]	ø20	JSDS ¹ / ₄ -N2[5]U	max. ø40
	JSDC6-01[5][6]	ø32	JSDC ¹ / ₄ -N3[5]U	max. ø63		JSDS6-01[5][6]	ø32	JSDS ¹ / ₄ -N3[5]U	max. ø63
	JSDC6-02[5][6]	ø40	JSDC ⁵ / ₁₆ -N1[5]U	max. ø32		JSDS6-02[5][6]	ø40	JSDS ⁵ / ₁₆ -N1[5]U	max. ø32
	JSDC6-03[5][6]	ø63	JSDC ⁵ / ₁₆ -N2[5]U	max. ø40		JSDS8-01[5][6]	ø32	JSDS ⁵ / ₁₆ -N2[5]U	max. ø40
	JSDC8-01[5][6]	ø32	JSDC ⁵ / ₁₆ -N3[5]U	max. ø63		JSDS8-02[5][6]	ø40	JSDS ⁵ / ₁₆ -N3[5]U	max. ø63
	JSDC8-02[5][6]	ø40	JSDC ⁵ / ₁₆ -N4[5]U	max. ø80		JSDS8-03[5][6]	ø63	JSDS ⁵ / ₁₆ -N4[5]U	max. ø80
	JSDC8-03[5][6]	ø63	JSDC ³ / ₈ -N2[5]U	max. ø40		JSDS10-02[5][6]	ø40	JSDS ³ / ₈ -N2[5]U	max. ø42
	JSDC8-04[5][6]	ø80	JSDC ³ / ₈ -N3[5]U	max. ø63		JSDS10-03[5][6]	ø63	JSDS ³ / ₈ -N3[5]U	max. ø63
	JSDC10-02[5][6]	ø40	JSDC ³ / ₈ -N4[5]U	max. ø100		JSDS12-03[5][6]	ø63	JSDS ³ / ₈ -N4[5]U	max. ø100
	JSDC10-03[5][6]	ø63	JSDC ¹ / ₂ -N3[5]U	max. ø63		JSDS12-04[5][6]	ø100	JSDS ¹ / ₂ -N3[5]U	max. ø63
	JSDC10-04[5][6]	ø100	JSDC ¹ / ₂ -N4[5]U	max. ø100		JSDS ¹ / ₈ -M3[5][6]	ø16	JSDS ¹ / ₂ -N4[5]U	max. ø100
	JSDC12-03[5][6]	ø63				JSDS ¹ / ₈ -M5[5][6]	ø20		
	JSDC12-04[5][6]	ø100				JSDS ¹ / ₄ -M5[5]	ø20		
	JSDC ¹ / ₈ -M3[5][6]	ø16				JSDS ¹ / ₄ -01[5][6]	ø32		
	JSDC ¹ / ₈ -M5[5][6]	ø20				JSDS ¹ / ₄ -02[5][6]	ø40		
	JSDC ¹ / ₄ -M5[5][6]	ø20				JSDS ⁵ / ₁₆ -01[5][6]	ø32		
	JSDC ¹ / ₄ -01[5][6]	ø32				JSDS ⁵ / ₁₆ -02[5][6]	ø40		
	JSDC ¹ / ₄ -02[5][6]	ø40				JSDS ⁵ / ₁₆ -03[5][6]	ø63		
	JSDC ⁵ / ₁₆ -01[5][6]	ø32				JSDS ³ / ₈ -02[5][6]	ø40		
	JSDC ⁵ / ₁₆ -02[5][6]	ø40				JSDS ³ / ₈ -03[5][6]	ø63		
	JSDC ⁵ / ₁₆ -03[5][6]	ø63							
	JSDC ³ / ₈ -02[5][6]	ø40							
	JSDC ³ / ₈ -03[5][6]	ø63							

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.

CAD data is available at PISCO website.

Packaging specifications

1 pc. /bag

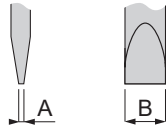
Options

Code	[6] : -C	[6] : W	[6] : W-C
Specifications	Clean-room package	Light-gray	Light-gray + Clean-room package

How to adjust speed

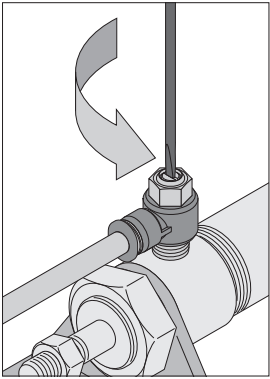
Use a flat head screwdriver to adjust the needle of Slot-head Speed Controller.
Refer to the table below for the size of the flat head screwdriver.

● Tip of flat head screwdriver



Thread size (R)	A Max. thickness of the applicable slot screwdriver tip (mm)	B Max. width of the applicable flat head screwdriver tip (mm)
M3 x 0.5, M5 x 0.8	0.7	3.5
01	0.8	4
02	1.2	5
03	1.2	7
04	1.6	11

(1) Increasing speed
When the needle of Speed Controller is turned counterclockwise from the fully closed position, the actuator speed will increase.



(2) Reducing speed
When the needle of Speed Controller is turned clockwise, the actuator speed will decrease.

