

Q Troubled by unintended setting change ?

A Slot-head Speed Controller **JSD**

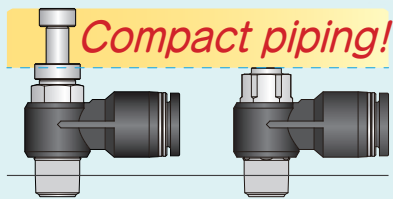
can help you!

- It prevents unnecessary manual adjustments during the operations.

Design without an external needle for speed adjustment.
Use a slot screwdriver to adjust the needle.

- Approx. 2/3 height of the conventional speed controller.*

Suitable for a small space.



*Compared to the max. height of the conventional speed controller.

Specifications

Type	Elbow · Free
Fluid medium	Air
Operating pressure range	14.5~130psi (0.1~0.9MPa)
Check valve opening pressure	7.25psi (0.05MPa)
Operating temp. range	32~140° F (0~60°C)

- 2 types are available.

360° rotatable resin body (Elbow type).
360° rotatable resin body and push-in fitting part (Free type).
Free direction for piping.

Rotation of the resin body

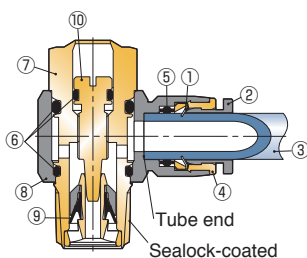
Elbow type

Rotation of the resin body

Free type

Rotation of the push-in fitting part

Construction



No.	Parts name	Material
①	Lock claws	Stainless steel
②	Release ring	POM
③	Tube	Polyurethane or nylon
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 : Special stainless steel (Austenite or ferritic stainless steel with SUS303 equivalent corrosivity)

*2. Gasket for metric thread : SUS304+NBR or SPCC+NBR for standard spec. POM for cleanroom packaging.

Model designation (Example)

JSD **C**_① **6**_② - **N1**_③ **A**_④ **U**_⑤

Slot-head speed controller

⑤. Specification / Packaging option (*Metric thread and Taper thread only)

Code	No code	W	-C	W-C
Specification	Standard	color: Light-Gray	Cleanroom	Cleanroom&Light-Gray
Color	Release ring (Material)	Black (POM)	Light-Blue (POM)	Light-Gray (POM)
	Resin body color (Material)	Black (PBT) Light-Gray (PBT)		

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

*2. Clean-room packaging, Light-Gray, and clean-room & light-gray spec. are make-to-order items.

*3. Release ring color for inch size (with any specification) is white.

INCH-NPT thread (*Metric thread and Taper thread is blank)

④. Control direction

Code	A	B
Control direction	Meter-out control	Meter-in control
	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.	
	Metric thread	
Identification	A or B marking on its upper plug and a JIS symbol on its resin body.	
	Taper pipe thread	

③. Thread size (R)

	Metric thread		Taper pipe thread				Unified thread	NPT thread			
Code	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	No.10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

②. Tube dia. (øD)

Code	mm size						inch size			
	3	4	6	8	10	12	1/8	1/4	5/16	3/8
Tube O.D.(mm)	ø3	ø4	ø6	ø8	ø10	ø12	ø3.2	ø6.35	ø7.94	ø9.53

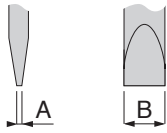
①. Type

C : Elbow S : Free

How to adjust the speed

Use a slot screwdriver to adjust the speed of actuators with slot-head speed controller.
Refer to the table below for size of slot screwdrivers.

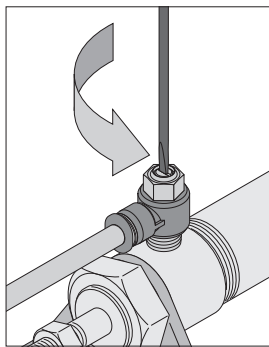
● The tip of a slot screwdriver



Thread size (R)	A Max. thickness of the applicable slot screwdriver tip (mm)	B Max. width of the applicable slot screwdriver tip (mm)
M3×0.5, M5×0.8, U10	0.7	3.5
01, N1	0.8	4
02, N2	1.2	5
03, N3	1.2	7
04, N4	1.6	11

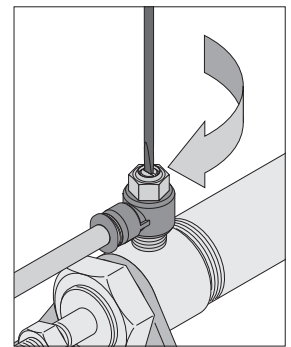
①. Increasing speed

Turn the needle in the counterclockwise direction from a fully closed state to increase the speed of an actuator.



②. Reducing speed

Turn the needle in the clockwise direction to reduce the speed of an actuator.

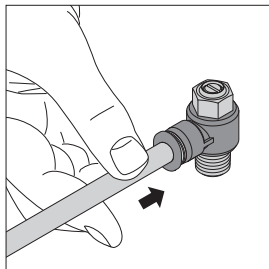


How to insert and disconnect

1. How to insert and disconnect tubes

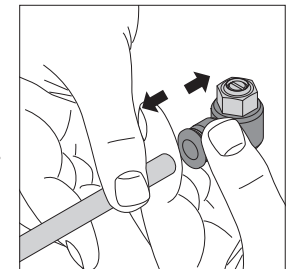
①. Tube insertion

Insert a tube into Push-In Fitting up to the tube end. Lock-claws bite the tube and fix it automatically, then the elastic sleeve seals around the tube.



②. Tube disconnection

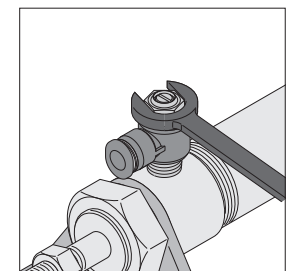
The tube is disconnected by pushing release-ring to release Lock-claws. Make sure to stop air supply before the tube disconnection.



2. How to tighten thread

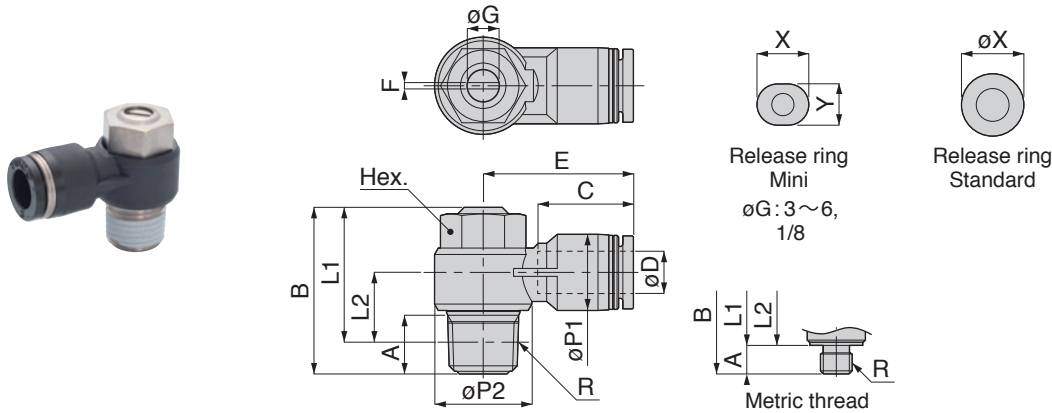
Use a spanner to tighten a hexagonal-column. When tightening thread, refer to the table below.

Thread type	Thread size	Tightening torque
Metric thread	M3×0.5	0.7N·m
	M5×0.8	1 ~ 1.5N·m
Taper pipe thread	R1/8	4.5 ~ 6.5N·m
	R1/4	7 ~ 9N·m
	R3/8	12.5 ~ 14.5N·m
	R1/2	20 ~ 22N·m
Unified thread	No.10-32NPT	1 ~ 1.5N·m
	1/16-27NPT	4.5 ~ 6.5N·m
National pipe thread taper	1/8-27NPT	4.5 ~ 6.5N·m
	1/4-18NPT	7 ~ 9N·m
	3/8-18NPT	12.5 ~ 14.5N·m
	1/2-14NPT	20 ~ 22N·m



*These values may differ for some products. Refer to each specification as well.

JSDC Elbow(mm-R, inch-R)



Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	Tube end C	E	F	øG	Hex.	X (øX)	Y	Weigh (g)	List price (JPY)	
																	Std.	Cleanroom
JSDC3-M3 [4][5]	3	M3×0.5	2.5[2.2]	21.7	19.2[19.5]	6.6[6.9]	8	9.8	11	15.4	0.7	3.5	8	9.8	7.8	5.6	1,370	1,580
JSDC3-M5 [4][5]		M5×0.8	2.9[3.2]	22.2	19.3[19]	6.7[6.4]											6.3	950
JSDC4-M3 [4][5]	4	M3×0.5	2.5[2.2]	21.7	19.2[19.5]	6.6[6.9]	8	9.8	11	15.4	0.7	3.5	8	9.8	7.8	5.6	1,370	1,580
JSDC4-M5 [4][5]		M5×0.8	2.9[3.2]	22.2	19.3[19]	6.7[6.4]											6.3	950
JSDC4-01 [4][5]	4	R1/8	8	28.4	24.4	10.7	14.4	11.6	17.7	0.8	4	10	11.8	9.8	7.8	16	1,250	1,440
JSDC6-M5 [4][5]		M5×0.8	2.9[3.2]	22.2	19.3[19]	7.5[7.2]											10.5	14.4
JSDC6-01 [4][5]	R1/8	8	28.4	24.4	10.7	14.4	18.3	0.8	4	10	16	1,350	1,560					
JSDC6-02 [4][5]	R1/4	11.1	33	27	11.9	11.9	18.4	20.2	1.2	5	16	37	1,450	1,670				
JSDC6-03 [4][5]	R3/8	13.2	38.9	32.6	15.4	14.4	22	17	29	7	19	-	63	1,850	2,130			
JSDC8-01 [4][5]	8	R1/8	8	28.4	24.4	11.9	14.4	18.1	26.9	0.8	4	10	13.8	-	-	19	1,450	1,670
JSDC8-02 [4][5]		R1/4	11.1	33	27	13.2											18.4	28.4
JSDC8-03 [4][5]	R3/8	13.2	38.9	32.6	15.4	15.4	22	28.9	7	19	64	1,950	2,250					
JSDC8-04 [4][5]	R1/2	16	47.2	39	18	18	28	31	1.6	11	24	113	2,100	2,420				
JSDC10-02 [4][5]	10	R1/4	11.1	33	27	14.8	17.6	22	20.2	30.9	1.2	5	16	16.8	-	43	1,750	2,020
JSDC10-03 [4][5]		R3/8	13.2	38.9	32.6	16.7											22	31.2
JSDC10-04 [4][5]	R1/2	16	47.2	39	18	18	28	33.6	1.6	11	24	116	2,200	2,530				
JSDC12-03 [4][5]	12	R3/8	13.2	38.9	32.6	18.4	21	22	23.4	36.9	1.2	7	19	19.8	-	70	2,150	2,480
JSDC12-04 [4][5]		R1/2	16	47.2	39	19.7											28	36.4
JSDC1/8-M3 [4][5]	1/8	M3×0.5	2.5[2.2]	21.7	19.2[19.5]	6.6[6.9]	8	9.8	11	15.4	0.7	3.5	8	9.8	7.8	5.7	1,370	1,580
JSDC1/8-M5 [4][5]		M5×0.8	2.9[3.2]	22.2	19.3[19]	6.7[6.4]											6.4	950
JSDC1/4-M5 [4][5]	1/4	M5×0.8	2.9[3.2]	22.2	19.3[19]	8.4[8.1]	12.4	14.4	17	24	0.7	3.5	8	11.8	-	8.5	1,150	1,330
JSDC1/4-01 [4][5]		R1/8	8	28.4	24.4	10.9											14.4	23.5
JSDC1/4-02 [4][5]	R1/4	11.1	33	27	12.2	12.2	18.4	25.5	1.2	5	16	38	1,450	1,670				
JSDC5/16-01 [4][5]	5/16	R1/8	8	28.4	24.4	11.9	14.4	18.4	18.1	26.9	0.8	4	10	13.8	-	19	1,450	1,670
JSDC5/16-02 [4][5]		R1/4	11.1	33	27	13.2											14.4	28.4
JSDC5/16-03 [4][5]	R3/8	13.2	38.9	32.6	15.4	15.4	22	28.9	7	19	63	1,950	2,250					
JSDC3/8-02 [4][5]	3/8	R1/4	11.1	33	27	14.8	17.6	18.4	20.2	30.9	1.2	5	16	16.8	-	43	1,750	2,020
JSDC3/8-03 [4][5]		R3/8	13.2	38.9	32.6	16.7											22	31.2

*1. [4] in model code : Replaced with "A" for Meter-out, "B" for Meter-in.

*2. [5] in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.

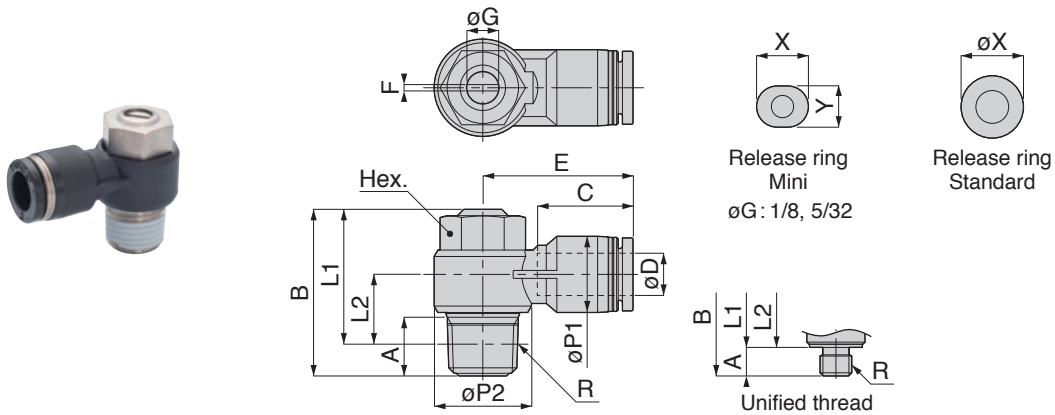
*3. "L1" and "L2" are reference values for height dimensions after tightening a taper thread.

*4. Value in [] is for cleanroom packaging.

*5. Dimension F represents max. thickness of the applicable slot screwdriver tip, and dimension G represents max. width of the applicable slot screwdriver tip (mm).

*6. List price of Light-Gray spec. is as the one of Standard spec, and Cleanroom & Light-Gray spec is same as Cleanroom spec.

JSDC Elbow (inch-NPT)



Unit : mm

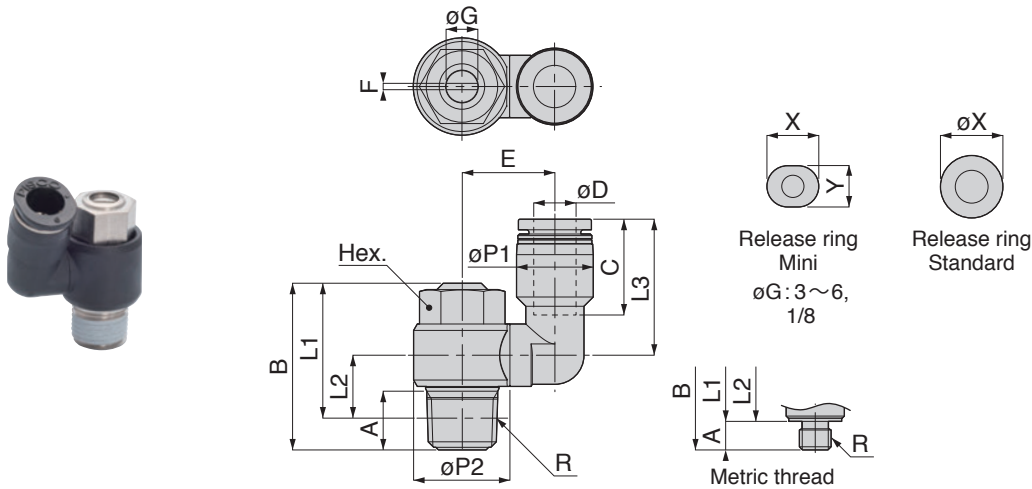
Model code	Tube O.D. øD	R	A	B	L1	L2	øP1	øP2	Tube end C	E	F	øG	Hex.	X (øX)	Y	Weigh (g)	List price (JPY)
JSDC1/8-U10 ^[4] U	1/8	No.10-32UNF	2.9	22.2	19.3	6.7	8	9.8	11	15.4	0.7	3.5	5/16	9.8	7.8	6.3	950
JSDC5/32-U10 ^[4] U	5/32	No.10-32UNF	2.9	22.2	19.3	6.7	8	9.8	11	15.4	0.7	3.5	5/16	9.8	7.8	6.6	950
JSDC5/32-N1 ^[4] U		1/8-27NPT	8	28.4	24.3	10.6		14.4		17.7	0.8	4	7/16			17	1,250
JSDC1/4-U10 ^[4] U	1/4	No.10-32UNF	2.9	22.2	19.3	8.4	12.4	9.8	17	24	0.7	3.5	5/16	11.8	-	8.4	1,150
JSDC1/4-N1 ^[4] U		1/8-27NPT	8	28.4	24.3	10.8		14.4		23.5	0.8	4	7/16			19	1,350
JSDC1/4-N2 ^[4] U		1/4-18NPT	11.1	33	27.2	12.4		18.4		25.5	1.2	5	5/8			38	1,450
JSDC1/4-N3 ^[4] U		3/8-18NPT	13.2	38.9	32.8	15.6		14.4		22		29	7			3/4	64
JSDC5/16-N1 ^[4] U	5/16	1/8-27NPT	8	28.4	24.3	11.8	14.4	14.4	18.1	26.9	0.8	4	7/16	13.8	-	20	1,450
JSDC5/16-N2 ^[4] U		1/4-18NPT	11.1	33	27.2	13.4		18.4		28.4	1.2	5	5/8			40	1,550
JSDC5/16-N3 ^[4] U		3/8-18NPT	13.2	38.9	32.8	15.6		22		28.9		7	3/4			64	1,950
JSDC5/16-N4 ^[4] U		1/2-14NPT	16	47.2	39.1	18		28		31	1.6	11	1			118	2,100
JSDC3/8-N2 ^[4] U	3/8	1/4-18NPT	11.1	33	27.2	15	17.6	18.4	20.2	30.9	1.2	5	5/8	16.8	-	43	1,750
JSDC3/8-N3 ^[4] U		3/8-18NPT	13.2	38.9	32.8	16.9		22		31.2		7	3/4			67	1,950
JSDC3/8-N4 ^[4] U		1/2-14NPT	16	47.2	39.1	18		28		33.6	1.6	11	1			121	2,200
JSDC1/2-N3 ^[4] U	1/2	3/8-18NPT	13.2	38.9	32.8	18.6	21	22	23.7	37.2	1.2	7	3/4	19.8	-	70	2,150
JSDC1/2-N4 ^[4] U		1/2-14NPT	16	47.2	39.1	19.7		28		36.7	1.6	11	1			123	2,250

*1. [4] in model code : Replaced with "A" for Meter-out, "B" for Meter-in.

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

*3. Dimension F represents max. thickness of the applicable slot screwdriver tip, and dimension G represents max. width of the applicable slot screwdriver tip (mm).

JSDS Free (mm-R, inch-R)



Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	L3	øP1	øP2	Tube end C	E	F	øG	Hex.	X (øX)	Y	Weigh (g)		List price (JPY)					
																	Std.	Cleanroom	Std.	Cleanroom				
JSDS3-M3 [4][5]	3	M3×0.5	2.5 [2.2]	21.7	19.2 [19.5]	6.6 [6.9]	16.1	8	9.8	11	10	0.7	3.5	8	9.8	7.8	6.1	1,370	1,580					
JSDS3-M5 [4][5]		M5×0.8	2.9 [3.2]	22.2	19.3 [19]	6.7 [6.4]											6.8	950	1,100					
JSDS4-M3 [4][5]	4	M3×0.5	2.5 [2.2]	21.7	19.2 [19.5]	6.6 [6.9]	16.1	8	9.8	11	10	0.7	3.5	8	9.8	7.8	6	1,370	1,580					
JSDS4-M5 [4][5]		M5×0.8	2.9 [3.2]	22.2	19.3 [19]	6.7 [6.4]											6.7	950	1,100					
JSDS4-01 [4][5]		R1/8	8	28.4	24.4	10.7											14.4	12.2	0.8	4	10	16	1,250	1,440
JSDS6-M5 [4][5]	6	M5×0.8	2.9 [3.2]	22.2	19.3 [19]	6.7 [6.4]	17.5	10.5	14.4	11.6	10.5	0.7	3.5	8	11.8	9.8	7.5	1,150	1,330					
JSDS6-01 [4][5]		R1/8	8	28.4	24.4	10.7											14.4	12.7	0.8	4	10	17	1,350	1,560
JSDS6-02 [4][5]		R1/4	11.1	33	27	11.9											18.4	14.7	1.2	5	16	37	1,450	1,670
JSDS8-01 [4][5]	8	R1/8	8	28.4	24.4	10.7	25.7	14.5	18.4	18.1	15.5	0.8	4	10	13.8	-	20	1,450	1,670					
JSDS8-02 [4][5]		R1/4	11.1	33	27	11.9											18.4	17.5	1.2	5	16	41	1,550	1,790
JSDS8-03 [4][5]		R3/8	13.2	38.9	32.6	15.6											22	20	7	19	65	1,950	2,250	
JSDS10-02 [4][5]	10	R1/4	11.1	33	27	11.9	29	17.5	18.4	20.2	18	1.2	5	16	16.8	-	44	1,750	2,020					
JSDS10-03 [4][5]		R3/8	13.2	38.9	32.6	15.6											30	22	20.5	7	19	68	1,950	2,250
JSDS12-03 [4][5]	12	R3/8	13.2	38.9	32.6	15.6	33.7	21	22	23.4	21	1.2	7	19	19.8	-	72	2,150	2,480					
JSDS12-04 [4][5]		R1/2	16	47.2	39	18											35.2	28	25	1.6	11	24	122	2,250
JSDS1/8-M3 [4][5]	1/8	M3×0.5	2.5 [2.2]	21.7	19.2 [19.5]	6.6 [6.9]	16.1	8	9.8	11	10	0.7	3.5	8	9.8	7.8	6.1	1,370	1,580					
JSDS1/8-M5 [4][5]		M5×0.8	2.9 [3.2]	22.2	19.3 [19]	6.7 [6.4]											6.8	950	1,100					
JSDS1/4-M5 [4][5]	1/4	M5×0.8	2.9 [3.2]	22.2	19.3 [19]	8.2 [7.9]	23	12.4	14.4	17	14.3	0.7	3.5	8	11.8	-	9.5	1,150	1,330					
JSDS1/4-01 [4][5]		R1/8	8	28.4	24.4	10.7											18.4	15.5	0.8	4	10	19	1,350	1,560
JSDS1/4-02 [4][5]		R1/4	11.1	33	27	11.9											18.4	17.5	1.2	5	16	39	1,450	1,670
JSDS5/16-01 [4][5]	5/16	R1/8	8	28.4	24.4	10.7	25.7	14.5	18.4	18.1	15.5	0.8	4	10	13.8	-	20	1,450	1,670					
JSDS5/16-02 [4][5]		R1/4	11.1	33	27	11.9											18.4	17.5	1.2	5	16	41	1,550	1,790
JSDS5/16-03 [4][5]		R3/8	13.2	38.9	32.6	15.6											22	20	7	19	65	1,950	2,250	
JSDS3/8-02 [4][5]	3/8	R1/4	11.1	33	27	11.9	29	17.5	18.4	20.2	18	1.2	5	16	16.8	-	44	1,750	2,020					
JSDS3/8-03 [4][5]		R3/8	13.2	38.9	32.6	15.6											30	22	20.5	7	19	68	1,950	2,250

*1. [4] in model code : Replaced with "A" for Meter-out, "B" for Meter-in.

*2. [5] in model code : Replaced with "W" for Light-Gray, "-C" for Cleanroom package, and "W-C" for Cleanroom & Light-Gray.

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

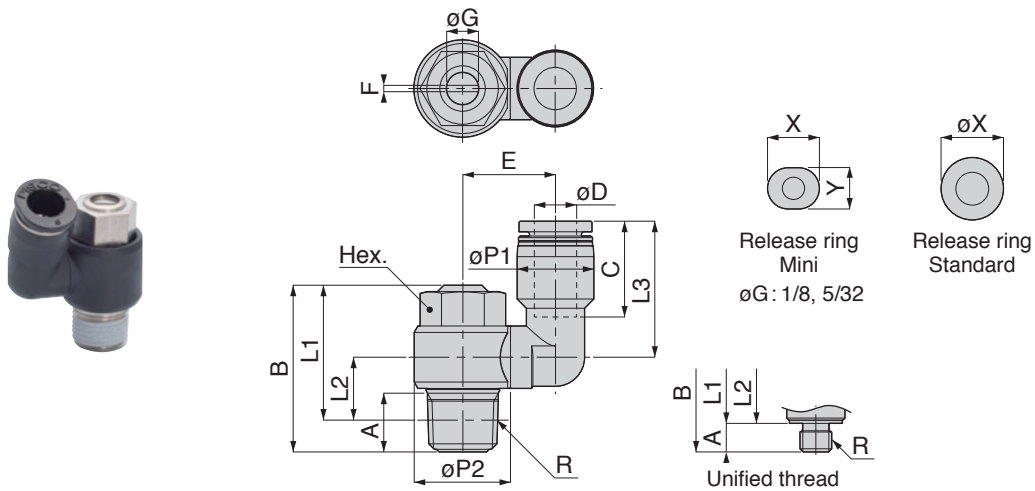
*4. Value in [] is for cleanroom packaging.

*5. Dimension F represents max. thickness of the applicable slot screwdriver tip, and dimension G represents max. width of the applicable slot screwdriver tip (mm).

*6. List price of Light-Gray spec. is as the one of Standard spec, and Cleanroom & Light-Gray spec is same as Cleanroom spec.

JSDS Free (inch-NPT)

RoHS compliant
CAD 2D&3D



Unit : mm

Model code	Tube O.D. øD	R	A	B	L1	L2	L3	øP1	øP2	Tube end C	E	F	øG	Hex.	X (øX)	Y	Weigh (g)	List price (JPY)
JSDS1/8-U10 ^[4] U	1/8	No.10-32UNF	2.9	22.2	19.3	6.7	16.1	8	9.8	11	10	0.7	3.5	5/16	9.8	7.8	6.8	950
JSDS5/32-U10 ^[4] U	5/32	No.10-32UNF	2.9	22.2	19.3	6.7	16.1	8	9.8	11	10	0.7	3.5	5/16	9.8	7.8	7	950
JSDS5/32-N1 ^[4] U		1/8-27NPT	8	28.4	24.3	10.6			14.4		12.2	0.8	4	7/16			17	1,250
JSDS1/4-U10 ^[4] U	1/4	No.10-32UNF	2.9	22.2	19.3	8.2	23	12.4	9.8	17	14.3	0.7	3.5	5/16	11.8	-	9.5	1,150
JSDS1/4-N1 ^[4] U		1/8-27NPT	8	28.4	24.3	10.6			14.4		15.5	0.8	4	7/16			20	1,350
JSDS1/4-N2 ^[4] U		1/4-18NPT	11.1	33	27.2	12.1			18.4		17.5	1.2	5	5/8			39	1,450
JSDS5/16-N1 ^[4] U	5/16	1/8-27NPT	8	28.4	24.3	10.6	25.7	14.5	14.4	18.1	15.5	0.8	4	7/16	13.8	-	21	1,450
JSDS5/16-N2 ^[4] U		1/4-18NPT	11.1	33	27.2	12.1			18.4		17.5	1.2	5	5/8			41	1,550
JSDS5/16-N3 ^[4] U		3/8-18NPT	13.2	38.9	32.8	15.9			22		20	7	3/4	66			1,950	
JSDS3/8-N2 ^[4] U	3/8	1/4-18NPT	11.1	33	27.2	12.1	29	17.5	18.4	20.2	18	1.2	5	5/8	16.8	-	44	1,750
JSDS3/8-N3 ^[4] U		3/8-18NPT	13.2	38.9	32.8	15.9	30		22		20.5	7	3/4	69			1,950	
JSDS1/2-N3 ^[4] U	1/2	3/8-18NPT	13.2	38.9	32.8	15.9	34	21	22	23.7	21	1.2	7	3/4	19.8	-	72	2,150
JSDS1/2-N4 ^[4] U		1/2-14NPT	16	47.2	39.1	18.1	35.5		28		25	1.6	11	1			127	2,250

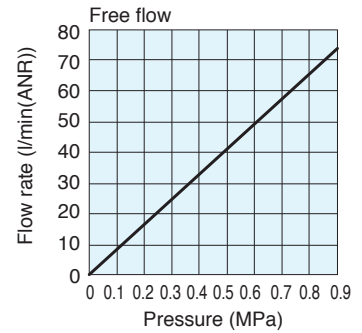
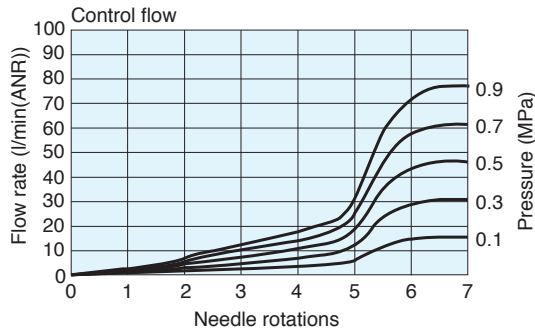
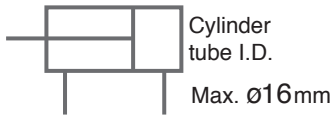
*1. [4] in model code : Replaced with "A" for Meter-out, "B" for Meter-in.

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

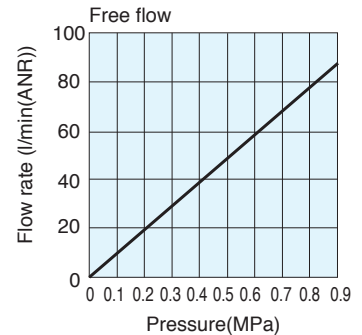
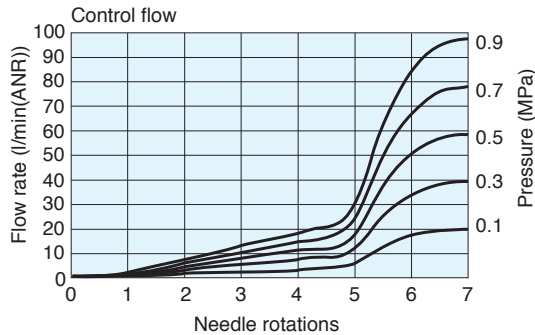
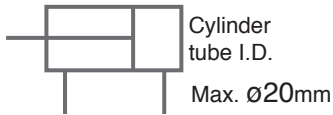
*3. Dimension F represents max. thickness of the applicable slot screwdriver tip, and dimension G represents max. width of the applicable slot screwdriver tip (mm).

Flow characteristic (Reference)

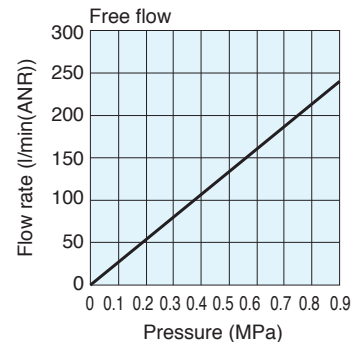
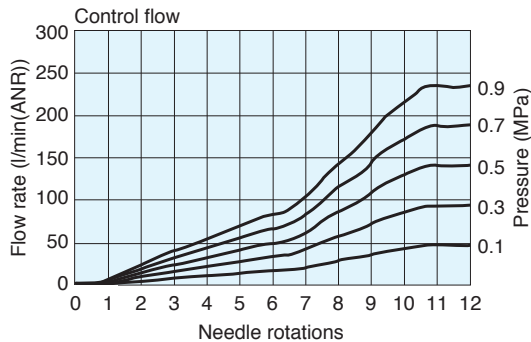
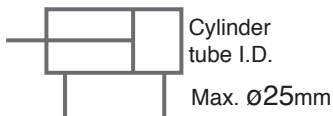
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4-M3 4-M3
1/8-M3 1/8-M3



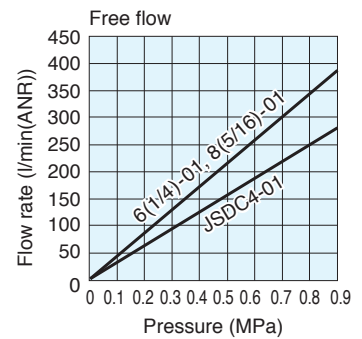
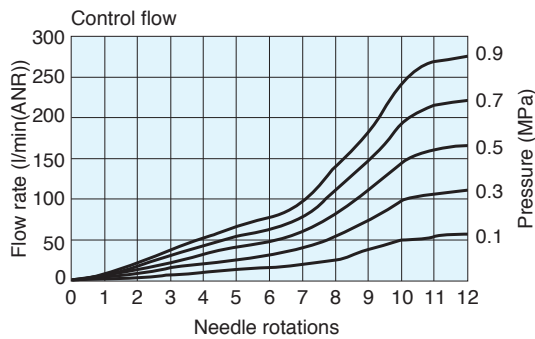
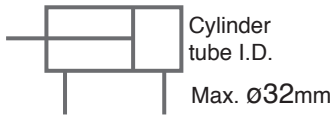
JSDC 3-M5 JSDS 3-M5
4-M5 4-M5
6-M5 6-M5
1/8-M5 1/8-M5
1/4-M5 1/4-M5



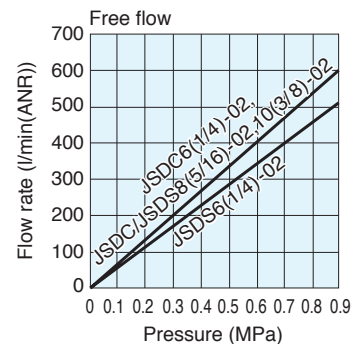
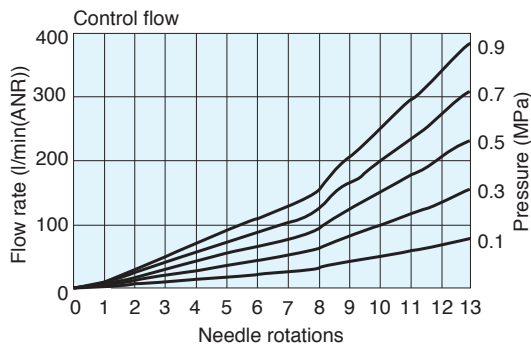
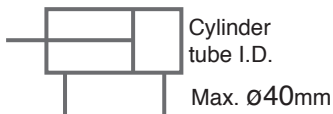
JSDS 4-01



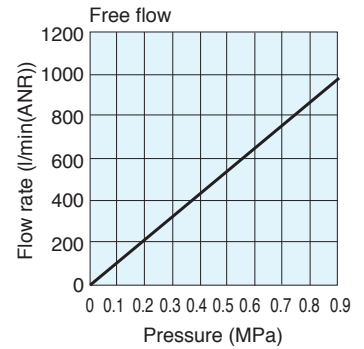
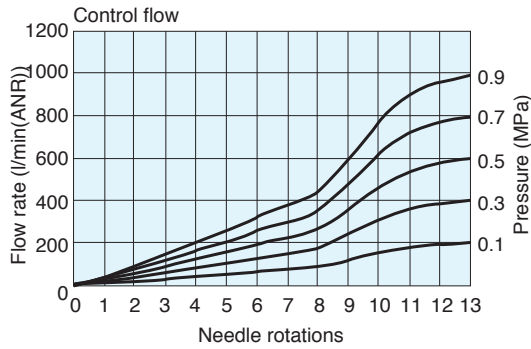
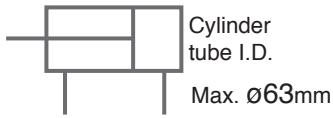
JSDC 4-01 JSDS 6-01
6-01 8-01
8-01 1/4-01
1/4-01 5/16-01
5/16-01



JSDC 6-02 JSDS 6-02
8-02 8-02
10-02 10-02
1/4-02 1/4-02
5/16-02 5/16-02
3/8-02 3/8-02

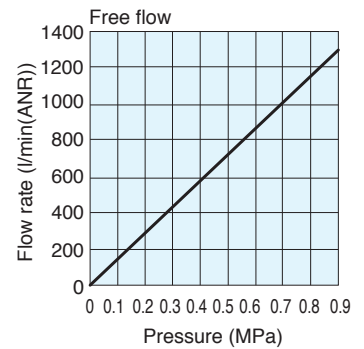
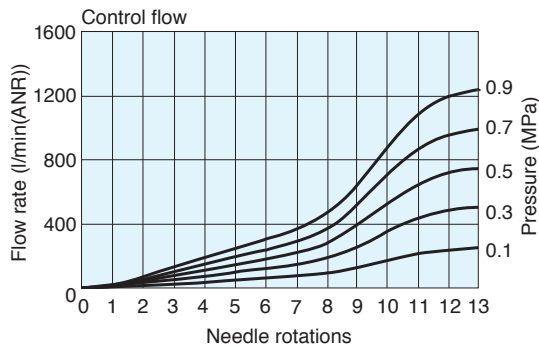
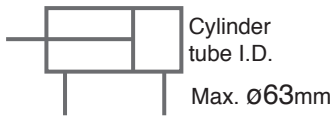


JSDC 6-03



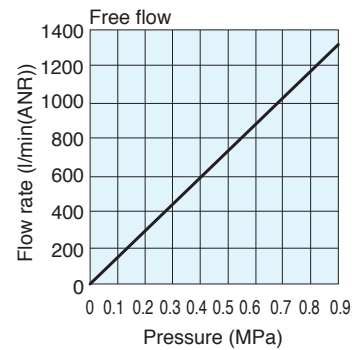
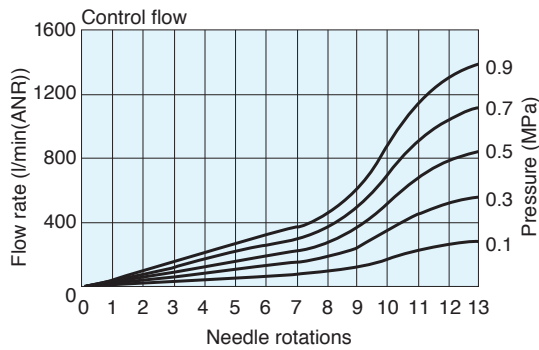
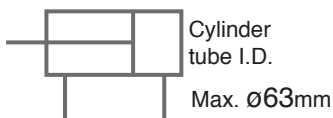
JSDC 8-03
5/16-03

JSDS 8-03
10-03
5/16-03
3/8-03

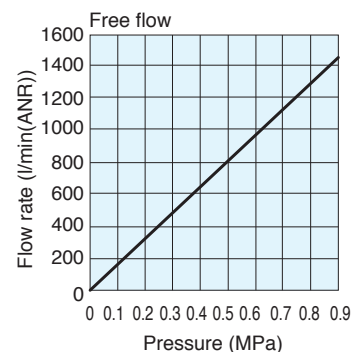
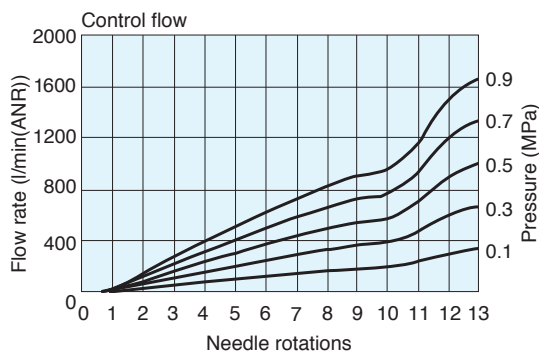
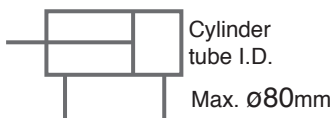


JSDC 10-03
12-03
3/8-03

JSDS 12-03

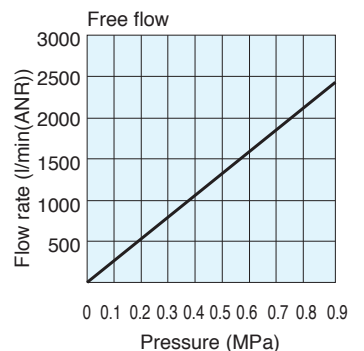
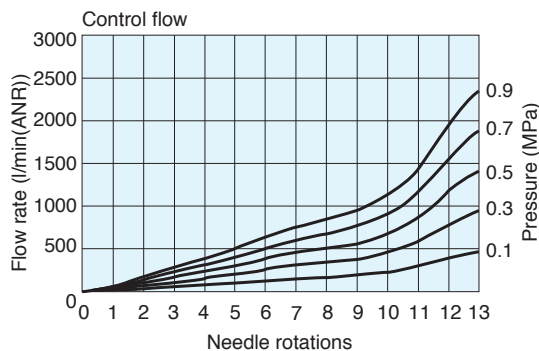
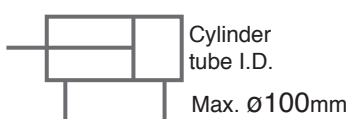


JSDC 8-04



JSDC 10-04
12-04

JSDS 12-04



Detailed Safety Instructions

⚠ 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.
3. Flow rate may be changed by needle rotation when using slot-head speed controller at the place having vibrations or shocks. Use conventional speed controller having lock-nut on the needle.
4. Although the speed controller is equipped with retaining structure of fully opened needle, excessive rotation of the needle may cause a breakage. Check the allowable number of needle rotation of the controller.

⚠ Caution

1. Slot-head speed controller is designed to tolerate some air leakage. Do not use the products for the application which requires no leakage.
2. As for Push-in fitting, the functional part where tube is inserted may slightly slide due to an internal pressure change and this may generate dusts. Avoid using the products in the clean room of ISO class from 1 to 5. Under the vibrating condition, check the amount of dust generated from the fitting and tubes, by using actual facilities.

NIHON PISCO CO.,Ltd.

40th
Anniversary

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