

Dear PISCO customers,

**Metal body design changes and spec. unification of Speed Controller and Throttle Valve**

We are going to execute the following design changes and specification unification on Speed Controller and Throttle Valves. We are very sorry for the inconvenience caused by this but hope you understand and welcome our new sales strategy.

Thank you.

**1. Subject models**

All models of Speed Controller and Throttle valve including Clean-room package specification

Note: Please refer to an attached sheet (Document 1) for subject series.

**2. Changes**

1) Unification of model code and appearance color

A. Model code (Revision of optional code alignment and usage hyphen)

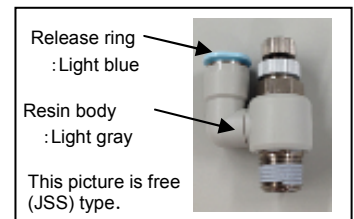
Example : Running code/JSC4-M5AC ⇒ New code/JSC4-M5A-C

(A hyphen is placed before C which means clean-room spec.)

\*Note: Please refer to the following appendix (Document 2) for the details.

B. Appearance color for Clean-room package specification

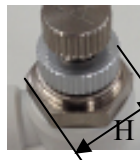
- Resin body color : Light gray
- Release ring color : Light blue



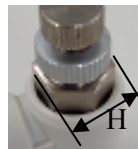
2) Metal body design change(Including lock nut design change for some models)

A. According to the metal body design change, the width across flat of a hexagon (wrench size) dimension is going to change as well. \*Note: Please refer the following appendix (Document 3) for the details.

【Running model】



【New model】



※The H dimension becomes shorter except M5 thread models.

B. As for M5 thread size models, the lock nut diameter is going to change from  $\varnothing 7\text{mm}$  to  $\varnothing 8\text{mm}$ .

3) Gasket material change for metric thread

(Current material) • Standard type : SUS304+NBR or SPCC+NBR

• Clean-room package specification : POM

(New material Unified to PPS

\*Note: Gasket becomes thinner except Clean-room package specification.

Please refer to the following appendix (Document 4) for the details.

**3. Date of implementation:** These changes shall be implemented sequentially from July 1, 2014

Please contact the sales office below for inquiries.

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**Document 1, Subject series**

— :No change

Series	1) A. Model code Unification	1) B. Appearance color Unification	2) Metal body design change	3) Gasket material change
Speed Controller (*1)	All models	Clean-room package spec.	Clean-room package spec. of JSC elbow type	All models with metric thread(*1)
Speed Controller Constant Flow	-	-	-	-
Speed Controller SUS303 like Corrosivity	-	-	-	-
Speed Controller PP series	-	-	-	-
Speed Controller Anti –Spatter series	-	-	-	-
Speed Controller Brass series	-	-	-	-
Throttle Valve	All models	Clean-room package spec.	Clean-room package spec. of JNC elbow type	All models with metric thread(*1)
Throttle Valve SUS316	-	-	-	-
Throttle Valve PP series	-	-	-	-
Throttle Valve Brass series	-	-	-	-

(\*1) The following Low flow type speed controllers are not subject to the change.

JSC180-M3 □L, JSC180-M5□L, JSC2-M3□L, JSC2-M5□L, JSC3-M3□L, JSC3-M5□L, JSC4-M3□L

**Document2, Model Designation**

**Optional code order**

JSC6-01A(K)



Standard model code

Optional code

① Appearance color

Specification	Code
Standard	No entry
Light-Gray	W

③ Lubrication

Specification	Code
Standard	No entry
Non-purple spec. <b>Note 3)</b>	-P
Oil-free spec.	-D

② Rubber material

Specification	Code
Standard	No entry
FKM <b>Note 1)</b>	-F
EPDM	-E
HNBR <b>Note 2)</b>	-HN

④ Package Specification

Specification	Code
Standard package	No Entry
Clean-room package spec.	-C

Note1) Spring return specification is not available. When M3 thread model is selected, spring return specification is not available either.

Note2) Spring return specification is not available.

Note3) Non-purple specification is not available with FKM (-F) rubber specification.

Example1) JSC6-01AW-D

... (① Appearance color) Light-Gray + (③ Lubrication) Oil-free specification

Example 2) JSC4-M5A-F-D-C

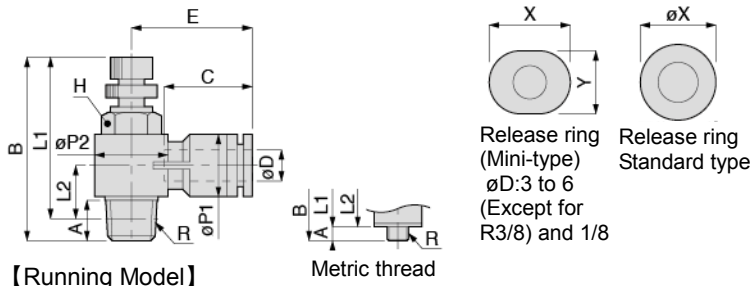
... (② Rubber material) FKM + (③ Lubrication) Oil-free spec. + (④ Package) Clean room package spec.

**Document 3, Dimension comparison**

**Metal body dimensional change and Gasket material change for metric thread**

  : Change

**Speed Controller Elbow (JSC), Clean-room package specification**

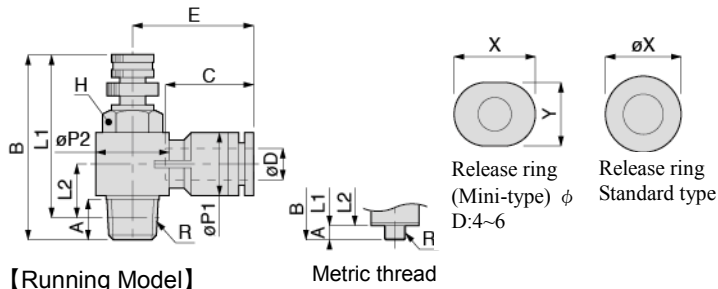


**【Running Model】**

**【New model】**

Model	Tube O.D.	Release ring		R	A	B		L1		L2	φP1	φP2	C	E	Hex.	Weight	Hex.	Weight
		X(øX)	Y			MAX	MIN	MAX	MIN									
	øD														H	(g)	H	(g)
JSC3-M5(K)-C	3	9.8	7.8	M5×0.8	3.2	29.7	27	26.5	23.8	6.4	8	9.8	11	15.4	8	-	8	7.3
JSC4-M5(K)-C	4	9.8	7.8	M5×0.8	3.2	29.7	27	26.5	23.8	6.4	8	9.8	11	15.4	8	7	8	7.2
JSC4-01(K)-C	4	9.8	7.8	R1/8	8	41.5	34.9	37.5	30.9	10.7	8	14.4	11	17.7	12	18	10	17
JSC6-M5(K)-C	6	11.8	9.8	M5×0.8	3.2	29.7	27	26.5	23.8	7.2	10.5	9.8	11.6	17.5	8	7.8	8	7.9
JSC6-01(K)-C	6	11.8	9.8	R1/8	8	41.5	34.9	37.5	30.9	10.7	10.5	14.4	11.6	18.3	12	19	10	18
JSC6-02(K)-C	6	11.8	9.8	R1/4	11.1	48.9	42.2	42.8	36.1	11.9	10.5	18.4	11.6	20.2	16	38	14	35
JSC6-03-C	6	11.8	-	R3/8	13.2	54.4	46.9	48	40.5	15.4	14.4	22	17	29	21	67	19	65
JSC8-01(K)-C	8	13.8	-	R1/8	8	41.5	34.9	37.5	30.9	11.9	14.4	14.4	18.1	26.9	12	22	10	21
JSC8-02(K)-C	8	13.8	-	R1/4	11.1	48.9	42.2	42.8	36.1	13.2	14.4	18.4	18.1	28.4	16	41	14	38
JSC8-03-C	8	13.8	-	R3/8	13.2	54.4	46.9	48	40.5	15.4	14.4	22	18.1	28.9	21	68	19	65
JSC8-04-C	8	13.8	-	R1/2	16	59.7	52.4	51.5	44.2	18	14.4	28	18.1	31	27	103	24	101
JSC10-02(K)-C	10	16.8	-	R1/4	11.1	48.9	42.2	42.8	36.1	14.8	17.6	18.4	20.2	30.9	16	44	14	41
JSC10-03-C	10	16.8	-	R3/8	13.2	54.4	46.9	48	40.5	16.7	17.6	22	20.2	31.2	21	71	19	69
JSC10-04-C	10	16.8	-	R1/2	16	59.7	52.4	51.5	44.2	18	17.6	28	20.2	33.6	27	106	24	104
JSC12-03-C	12	19.8	-	R3/8	13.2	54.4	46.9	48	40.5	18.4	21	22	23.4	36.9	21	74	19	72
JSC12-04-C	12	19.8	-	R1/2	16	59.7	52.4	51.5	44.2	19.7	21	28	23.4	36.4	27	109	24	107
JSC1/8-M5(K)-C	1/8	9.8	7.8	M5×0.8	3.2	29.7	27	26.5	23.8	6.4	8	9.8	11	15.4	8	-	8	7.3
JSC1/4-M5(K)-C	1/4	11.8	-	M5×0.8	3.2	29.7	27	26.5	23.8	8.1	12.4	9.8	17	24	8	-	8	9.5
JSC1/4-01(K)-C	1/4	11.8	-	R1/8	8	41.5	34.9	37.5	30.9	10.9	12.4	14.4	17	23.5	12	-	10	19
JSC1/4-02(K)-C	1/4	11.8	-	R1/4	11.1	48.9	42.2	42.8	36.1	12.2	12.4	18.4	17	25.5	16	-	14	36
JSC5/16-01(K)-C	5/16	13.8	-	R1/8	8	41.5	34.9	37.5	30.9	11.9	14.4	14.4	18.1	26.9	12	-	10	21
JSC5/16-02(K)-C	5/16	13.8	-	R1/4	11.1	48.9	42.2	42.8	36.1	13.2	14.4	18.4	18.1	28.4	16	-	14	38
JSC5/16-03-C	5/16	13.8	-	R3/8	13.2	54.4	46.9	48	40.5	15.4	14.4	22	18.1	28.9	21	-	19	65
JSC3/8-02(K)-C	3/8	16.8	-	R1/4	11.1	48.9	42.2	42.8	36.1	14.8	17.6	18.4	20.2	30.9	16	-	14	41
JSC3/8-03-C	3/8	16.8	-	R3/8	13.2	54.4	46.9	48	40.5	16.7	17.6	22	20.2	31.2	21	-	19	69

### Throttle Valve (JNC), Clean-room package specification



**【Running Model】**

Metric thread

**【New Model】**

Model	Tube O.D. $\phi D$	Release ring		R	A	B		L1		L2	$\phi P1$	$\phi P2$	C	E	Hex. H	Weight (g)
		X( $\phi X$ )	Y			MAX	MIN	MAX	MIN							
JNC4-M5-C	4	9.8	7.8	M5x0.8	3.2	29.7	27	26.5	23.8	6.4	8	9.8	11	15.4	8	7.7
JNC4-01-C	4	9.8	7.8	R1/8	8	41.5	35.1	37.5	31.1	10.7	8	14.4	11	17.7	12	20
JNC6-M5-C	6	11.8	9.8	M5x0.8	3.2	29.7	27	26.5	23.8	7.2	10.5	9.8	11.6	17.5	8	8.3
JNC6-01-C	6	11.8	9.8	R1/8	8	41.5	35.1	37.5	31.1	10.7	10.5	14.4	11.6	18.3	12	20
JNC6-02-C	6	11.8	9.8	R1/4	11.1	49.2	42.1	43.1	36	11.9	10.5	18.4	11.6	20.2	16	40
JNC8-01-C	8	13.8	—	R1/8	8	41.5	35.1	37.5	31.1	11.9	14.4	14.4	18.1	26.9	12	23
JNC8-02-C	8	13.8	—	R1/4	11.1	49.2	42.1	43.1	36	13.2	14.4	18.4	18.1	28.4	16	43
JNC8-03-C	8	13.8	—	R3/8	13.2	55.5	47.3	49.1	40.9	15.4	14.4	22	18.1	28.9	21	73
JNC10-02-C	10	16.8	—	R1/4	11.1	49.2	42.1	43.1	36	14.8	17.6	18.4	20.2	30.9	16	46
JNC10-03-C	10	16.8	—	R3/8	13.2	55.5	47.3	49.1	40.9	16.7	17.6	22	20.2	31.2	21	76
JNC12-03-C	12	19.8	—	R3/8	13.2	55.5	47.3	49.1	40.9	18.4	21	22	23.4	36.9	21	80
JNC12-04-C	12	19.8	—	R1/2	16	60.2	52.6	52	44.4	19.7	21	28	23.4	36.4	27	123
JNC1/4-M5-C	1/4	11.8	—	M5x0.8	3.2	29.7	27	26.5	23.8	8.1	12.4	9.8	17	24	8	-
JNC1/4-01-C	1/4	11.8	—	R1/8	8	41.3	35.2	37.3	31.2	10.9	12.4	14.4	17	23.5	12	-
JNC1/4-02-C	1/4	11.8	—	R1/4	11.1	48.7	41.9	42.7	35.9	12.2	12.4	18.4	17	23.5	16	-
JNC5/16-01-C	5/16	13.8	—	R1/8	8	41.3	35.2	37.3	31.2	11.9	14.4	14.4	18.1	26.9	12	-
JNC5/16-02-C	5/16	13.8	—	R1/4	11.1	48.7	41.9	42.7	35.9	13.2	14.4	18.4	18.1	28.4	16	-
JNC5/16-03-C	5/16	13.8	—	R3/8	13.2	55	47.1	48.6	40.7	15.4	14.4	22	18.1	28.9	21	-
JNC3/8-02-C	3/8	16.8	—	R1/4	11.1	48.7	41.9	42.7	35.9	14.8	17.6	18.4	20.2	30.9	16	-
JNC3/8-03-C	3/8	16.8	—	R3/8	13.2	55	47.1	48.6	40.7	16.7	17.6	22	20.2	31.2	21	-

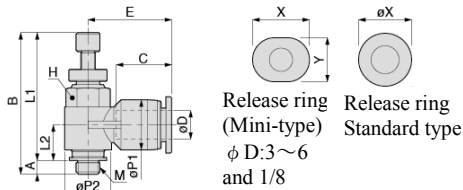
Hex. H	Weight (g)
8	7.9
10	18
8	8.6
10	19
14	37
10	22
14	40
19	71
14	44
19	74
19	78
24	119
8	11
10	20
14	39
10	22
14	40
19	71
14	44
19	74

**Document 4, Dimension comparison**

**Gasket change for metric thread (Material and Dimensional change)**

  : Change

**Speed Controller Elbow (JSC)**



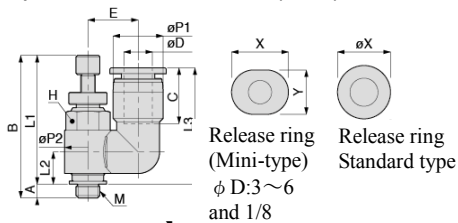
**[Running Model]**

Model	Tube O.D. øD	Release ring		M	A	B		L1		L2	øP1	øP2	C	E	Hex. H	Weight (g)
		X(øX)	Y			MAX	MIN	MAX	MIN							
JSC3-M3(K)	3	9.8	7.8	M3×0.5	2.5	29.2	26.5	26.7	24	6.6	8	9.8	11	15.4	8	6.6
JSC3-M5(K)	3	9.8	7.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	8	9.8	11	15.4	8	7.3
JSC4-M3(K)	4	9.8	7.8	M3×0.5	2.5	29.2	26.5	26.7	24	6.6	8	9.8	11	15.4	8	6.6
JSC4-M5(K)	4	9.8	7.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	8	9.8	11	15.4	8	7.2
JSC6-M5(K)	6	11.8	9.8	M5×0.8	2.9	29.7	27	26.8	24.1	7.5	10.5	9.8	11.6	17.5	8	7.9
JSC1/8-M3(K)	1/8	9.8	7.8	M3×0.5	2.5	29.2	26.5	26.7	24	6.6	8	9.8	11	15.4	8	6.6
JSC1/8-M5(K)	1/8	9.8	7.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	8	9.8	11	15.4	8	7.3
JSC1/4-M5(K)	1/4	11.8	—	M5×0.8	2.9	29.7	27	26.8	24.1	8.4	12.4	9.8	17	24	8	9.5

**[New Model]**

A	L1	L2	
			MAX
2.7	26.5	23.8	6.4
3.2	26.5	23.8	6.4
2.7	26.5	23.8	6.4
3.2	26.5	23.8	6.4
3.2	26.5	23.8	7.2
2.7	26.5	23.8	6.4
3.2	26.5	23.8	6.4
3.2	26.5	23.8	8.1

**Speed Controller Free (JSS)**



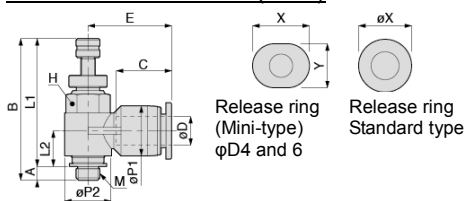
**[Running Model]**

Model	Tube O.D. øD	Release ring		M	A	B		L1		L2	L3	øP1	øP2	C	E	Hex. H	Weight (g)
		X(øX)	Y			MAX	MIN	MAX	MIN								
JSS3-M3(K)	3	7.8	9.8	M3×0.5	2.5	29.2	26.5	26.7	24	6.6	22.7	8	9.8	11	10	8	7
JSS3-M5(K)	3	7.8	9.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	22.8	8	9.8	11	10	8	7.7
JSS4-M3(K)	4	7.8	9.8	M3×0.5	2.5	29.2	26.5	26.7	24	6.6	22.7	8	9.8	11	10	8	6.5
JSS4-M5(K)	4	7.8	9.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	22.8	8	9.8	11	10	8	7.7
JSS6-M5(K)	6	9.8	11.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	24.2	10.5	9.8	11.6	10.5	8	8.4
JSS1/8-M3(K)	1/8	7.8	9.8	M3×0.5	2.5	29.2	26.5	26.7	24	6.6	22.7	8	9.8	11	10	8	7
JSS1/8-M5(K)	1/8	7.8	9.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	22.8	8	9.8	11	10	8	7.7
JSS1/4-M5(K)	1/4	11.8	—	M5×0.8	2.9	29.7	27	26.8	24.1	8.2	31.2	12.4	9.8	17	14.3	8	11

**[New Model]**

A	L1	L2	
			MAX
2.7	26.5	23.8	6.4
3.2	26.5	23.8	6.4
2.7	26.5	23.8	6.4
3.2	26.5	23.8	6.4
3.2	26.5	23.8	6.4
2.7	26.5	23.8	6.4
3.2	26.5	23.8	6.4
3.2	26.5	23.8	7.9

**Throttle Valve Elbow (JNC)**



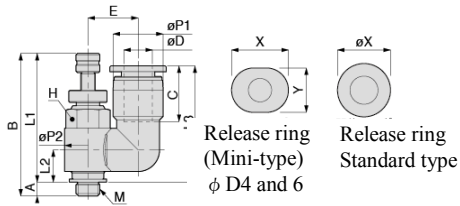
**[Running Model]**

Model	Tube O.D. øD	Release ring		M	A	B		L1		L2	øP1	øP2	C	E	Hex. H	Weight (g)
		X(øX)	Y			MAX	MIN	MAX	MIN							
JNC4-M5	4	9.8	7.8	M5×0.8	2.9	29.7	27	26.8	24.1	6.7	8	9.8	11	15.4	8	7.9
JNC6-M5	6	11.8	9.8	M5×0.8	2.9	29.7	27	26.8	24.1	7.5	10.5	9.8	11.6	17.5	8	8.6
JNC1/4-M5	1/4	11.8	—	M5×0.8	2.9	29.7	27	26.8	24.1	8.4	12.4	9.8	17	24	8	11

**[New Model]**

A	L1	L2	
			MAX
3.2	26.5	23.8	6.4
3.2	26.5	23.8	7.2
3.2	26.5	23.8	8.1

**Throttle Valve Free(JNS)**



**【Running Model】**

Model	Tube O.D.	Release ring		M	A	B		L1		L2	L3	φP1	φP2	C	E	Hex.	Weight
		X(φX)	Y			MAX	MIN	MAX	MIN								
JNS4-M5	4	9.8	7.8	M5x0.8	2.9	29.7	27	26.8	24.1	6.7	16.1	8	9.8	11	10	8	8.3
JNS6-M5	6	11.8	9.8	M5x0.8	2.9	29.7	27	26.8	24.1	6.7	17.5	10.5	9.8	11.6	10.5	8	9.1
JNS1/4-M5	1/4	11.8	—	M5x0.8	2.9	29.7	27	26.8	24.1	8.2	23	12.4	9.8	17	14.3	8	12

**【New Model】**

A	L1		L2
	MAX	MIN	
3.2	26.5	23.8	6.4
3.2	26.5	23.8	7.9