


Flow Rate Controllers / Valves with Adjusting Dial


Low-Height / Union Straight

Flow Rate Controller – Low-Height




RoHS 10

Flow Rate Controller – Union Straight In-Line

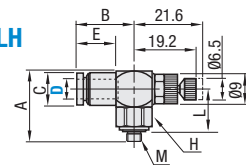


RoHS 10

Valve with Adjusting Dial

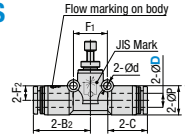


Meter-Out SPCNLH



Material: Body: 303 Stainless Steel
Thread: Brass (Nickel Plating)
***M3 Only Body/Thread: 303 Stainless Steel**

SPJYS

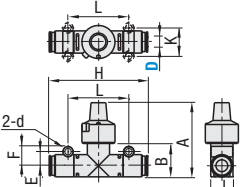


Flow Marking on Body
Free Flow ← Control Flow

JIS Mark

Material: Electroless Nickel Plating
Thread: Brass (Nickel Plating)

NBDY



Part Number Type	D	Nominal	A	B	C	E	Wrench Flats H	L	Thread Size M	Mass (g)
SPCNLH	4	M3	22.0	16.4	8	11.5	8	13.5	M3 x 0.5	17.8
		M5	21.5	16.4	8	11.5		12.5	M5 x .8	17.9
	6	M5	23.5	16.5	10	12.6	10	13.5	R1/8	21.7
		M5	22.5	16.5	10	12.6		16.0	M5 x 0.8	21.2

Part Number Type	D	Max.	B ₁ Min.	B ₂	OP	T	C	Od	F ₁	F ₂	Mass (g)
SPJYS	4	21	18.6	21	10	10.5	14.9	3.2	12.7	4.8	8.9
	6	25.4	21.6	24.4	12.5	13.1	17	3.2	14.8	6.2	14
	8	28.5	24.9	28	14.8	15.4	18.1	3.2	18.2	7.2	25
	10	32.6	28.9	31.8	18.2	19.7	20.2	4.2	22.2	8.7	46
12	35.2	31.5	21.2	21.5	22.7	23.4	4.2	25.7	10.2	65	

Part Number Type	D	A	B	E	F	H	d	J	K	L
NBDY	4	45.5	17	8.1	11.6	55	4.3	12	16.2	30.8
	6	45.5	17	8.1	11.6	49.5		12	16.2	30.8
	8	50	22.5	9.5	13.1	66.5		15	19	41
	10	58	29	11.5	15.1	75		20	23	47
12	58	29	11.5	15.1	79	20	23	47		

Part Number Example
 SPCNLH4 - M5
 SPJYS10 - M5
 NBDY8

SPCNLH / SPJYS Specifications

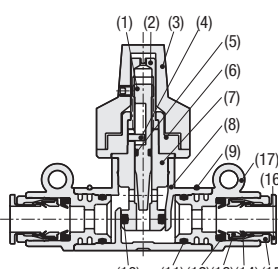
Applicable Fluid	Air
Operating Temperature Range	-5~60°C
Operating Pressure Range	0.05~0.7 MPa

*Operating pressure is set at ambient temperature (20°C).

NBDY Specifications

Applicable Fluid	Air / N ₂ Gas / Vacuum
Operating Temperature Range	5~60°C (Non-Freezing)
Max. Operating Pressure	0.7MPa
Negative-pressure	-100kPa
Guaranteed Withstand Pressure	1.5 mPa

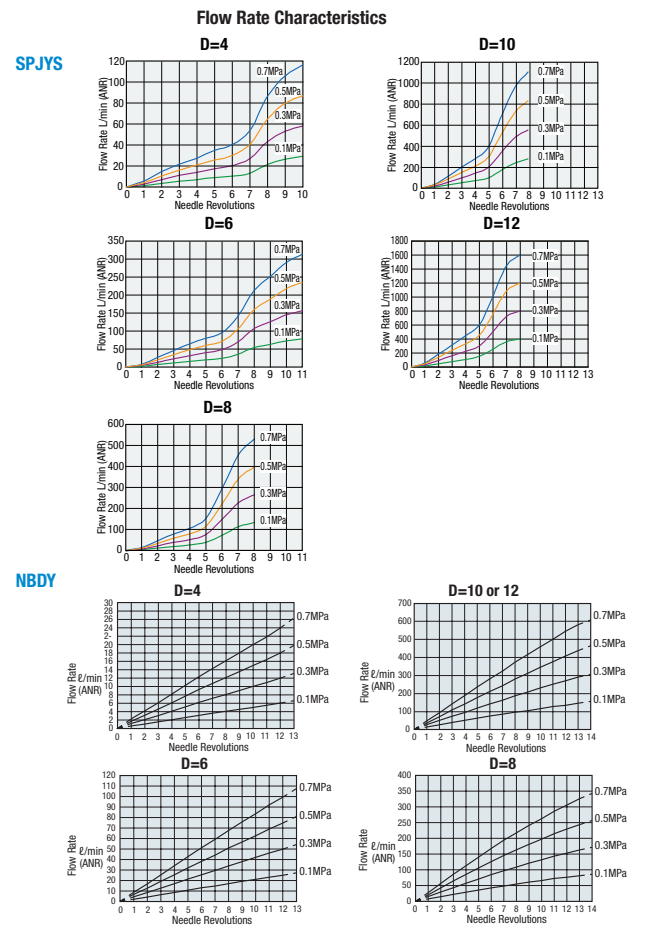
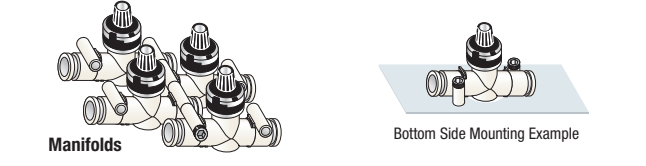
NBDY Structure Diagram



No.	Part Name	Material
(1)	Needle	Brass
(2)	Rotary Shaft	Brass
(3)	Dial	Aluminum Alloy, / Polyamide, / etc.
(4)	Dowel Pin	Stainless Steel
(5)	O-Ring	Fluorotubber
(6)	Guide Bushing	Brass
(7)	Check Metal	Brass
(8)	Main Body	Polybutylene Terephthalate
(9)	Stop Ring	Stainless Steel
(10)	O-Ring	Hydrogenated Nitrile Rubber
(11)	O-Ring	Hydrogenated Nitrile Rubber
(12)	Gasket	Hydrogenated Nitrile Rubber
(13)	Holder	Brass
(14)	Chuck	Stainless Steel
(15)	Outer Ring	Brass
(16)	Push Ring	Polybutylene Terephthalate
(17)	Joint Case	Polybutylene Terephthalate

⊕ All brass parts are electroless nickel plated.


- Features**
- Linear flow rate characteristics proportional to needle revolutions.
 - Dial display makes it easy to control value of flow rate.
 - Mounting part with 360° turn provides free mounting.
 - Slide locking lever provides easy locking.
- Precautions**
- Throttle valves for controlling both right and left sides flow rate.
 - Not applicable as a stop valve which requires no leakage.
 - Fix the dial with slide locking lever after adjusting flow rate.
 - Tighten the mounting screw at 0.8 N.m or lower.



Flow Rate Controller

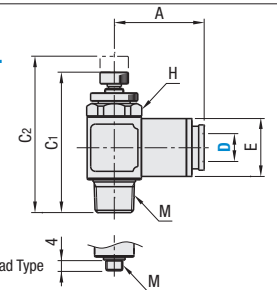
Stainless Steel / Heat-Resistant / Clean Environment

Flow Rate Controller (Stainless Steel) – Standard



RoHS 10

Meter Out ASPSL



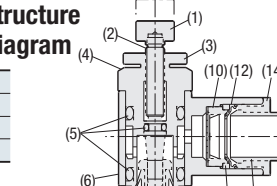
Metric Thread Type

Specifications


Applicable Fluid	Air
Operating Temperature Range	-10~60°C
Max. Operating Pressure	1.0 MPa
Operating Vacuum Level	-0.1MPa

Feature: Excels in corrosion resistance.

Structure Diagram

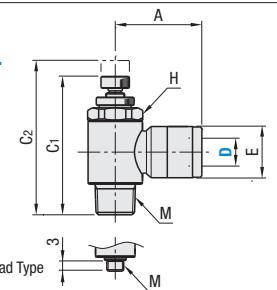


Flow Rate Controller (Heat-Resistant Type) – Standard



RoHS 10

Meter Out KPSPL



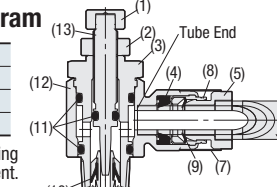
Metric Thread Type

Specifications


Applicable Fluid	Air
Operating Temperature Range	0~100°C
Operating Pressure Range	0~1.0 MPa
Check Valve Operating Pressure	0.05 mPa

Feature: Flow rate control valves suitable for using at high temperature and in spattering environment.

Structure Diagram

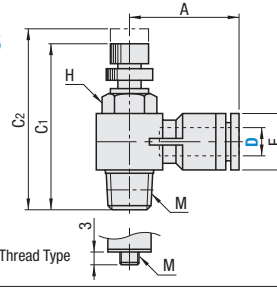


Flow Rate Controller (Clean Environment) – Standard



RoHS 10

Meter Out PJSPL



Metric Thread Type

Specifications

Applicable Fluid	Air
Operating Temperature Range	0~80°C
Operating Pressure Range	0~0.9MPa
Check Valve Operating Pressure	0.05 mPa

Features

- Material PP (Polypropylene) is used. Suitable for use in a clean environment.
- The body is semi-transparent, so fluid is viewable from outside.

Precautions for Use

- No oil permitted.
- Confirm if the tube is inserted to the tube end of the body.

Part Number Example
 ASPSL4 - 1

Check out misumiusa.com for the most current pricing and lead time.

Part Number Type	D	Nominal	A	C ₁	C ₂	E	Wrench Flats H	Thread Size M	Mass (g)
ASPSL	4	M5	21	32.1	36.7	12	10	M5 x 0.8	25.9
		1	23	37.9	43.4	14	13	R1/8	41.0
	6	M5	22.5	32.1	36.7	12	10	M5 x 0.8	24.9
		1	24.5	37.9	43.4	14	13	R1/8	40.5
	8	2	26	47.1	53.3	17	16	R1/4	73.0
		1	26	37.9	43.4	14	13	R1/8	39.2
	10	2	27.5	47.1	53.3	17	16	R1/4	71.8
		3	29.5	55.1	61.6	22	19	R3/8	133.0
	12	2	30	47.1	53.3	17	16	R1/4	70.7
		3	32	55.1	61.6	22	19	R3/8	134.0
	3	33.5	55.1	61.6	22	19	R3/8	129.8	

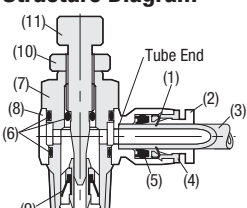
No.	Part Name	Material	No.	Part Name	Material
(1)	Handle	316 Stainless Steel	(9)	Check Part	316 Stainless Steel
(2)	Spindles	316 Stainless Steel	(10)	Gasket	Fluorine
(3)	Lock Nut	316 Stainless Steel	(11)	Chuck Holder	316 Stainless Steel
(4)	Rotary Shaft	316 Stainless Steel	(12)	Chuck	SUS301
(5)	O-Ring	Fluorine	(13)	Push Ring A	316 Stainless Steel
(6)	Rotating Object	316 Stainless Steel	(14)	Outer Ring	316 Stainless Steel
(7)	E-Ring	Stainless Steel	(15)	Push Ring B	316 Stainless Steel
(8)	V Gasket	HNBR Nitrile Rubber			

Part Number Type	D	Nominal	A	C ₁	C ₂	E	Wrench Flats H	Thread Size M	Mass (g)
KPSPL	4	M5	22.6	30	32.7	12.5	11	M5 x 0.8	25.6
		1	24.8	38.1	44.4	12.5	14	R1/8	43.1
	6	M5	24.1	30	32.7	12.5	11	M5 x 0.8	26
		1	26.1	38.1	44.4	12.5	14	R1/8	43.4
	8	2	27.6	46.9	53.3	14.5	17	R1/4	68.9
		1	26.9	38.1	44.4	14.5	14	R1/8	45.8
	10	2	28.4	46.9	53.3	14.5	17	R1/4	69.1
		3	30.1	51.2	58.4	14.5	21	R3/8	106.5
	12	2	31.2	46.9	53.3	18.6	17	R1/4	82.4
		3	33.0	51.2	58.4	21.5	21	R3/8	127.7
	3	36.1	51.2	58.4	21.6	21	R3/8	134	

No.	Part Name	Material	No.	Part Name	Material
(1)	Knob	Brass (Electroless Nickel Plating)	(8)	Guide Ring	Brass (Electroless Nickel Plating)
(2)	Lock Nut	Brass (Electroless Nickel Plating)	(9)	Lock Pawl	Stainless Steel
(3)	Thread Body	Brass (Electroless Nickel Plating)	(10)	Diaphragm	H-NBR Nitrile Rubber
(4)	Elastic Sleeve	H-NBR Nitrile Rubber	(11)	O-Ring	H-NBR Nitrile Rubber
(5)	Release Ring	Brass (Electroless Nickel Plating)	(12)	Metal Body	Brass (Electroless Nickel Plating)
(6)	Tube	—	(13)	Needle	Brass (Electroless Nickel Plating)
(7)	Cover	Brass (Electroless Nickel Plating)			

Part Number Type	D	Nominal	A	C ₁	C ₂	E	Wrench Flats H	Thread Size M	Mass (g)	
PJSPL	4	M5	20.0	27	29.7	9.9	8	M5 x 0.8	7	
		1	21.5	34.4	40.5	10	12	R1/8	18	
	6	M5	24.1	27	29.7			8	M5 x 0.8	8
		1	23.6	34.4	40.5	12.4		12	R1/8	19
	8	2	25.6	41.4	47.6			16	R1/4	38
		1	26.9	34.4	40.5			12	R1/8	22
	10	2	28.4	41.4	47.6	14.4		16	R1/4	41
		3	28.9	46.5	53.5			21	R3/8	69
	12	2	31.1	41.4	47.6	17.6		16	R1/4	44
		3	31.4	46.5	53.5			21	R3/8	71
	3	37.1	46.5	53.5	21	21		21	R3/8	106

Structure Diagram



No.	Part Name	Material
(1)	Lock Pawl	Stainless Steel
(2)	Release Ring	Polypropylene
(3)	Tube	—
(4)	Guide Ring	304 Stainless Steel
(5)	Elastic Sleeve	EPDM Synthetic Rubber
(6)	O-Ring	EPDM Synthetic Rubber
(7)	Metal Body	304 Stainless Steel
(8)	Resin Body	Polypropylene
(9)	Diaphragm	EPDM Synthetic Rubber
(10)	Lock Nut	304 Stainless Steel
(11)	Needle	304 Stainless Steel

Tubes / Fittings / Nozzles / Suction Components

Tubes / Fittings / Nozzles / Suction Components