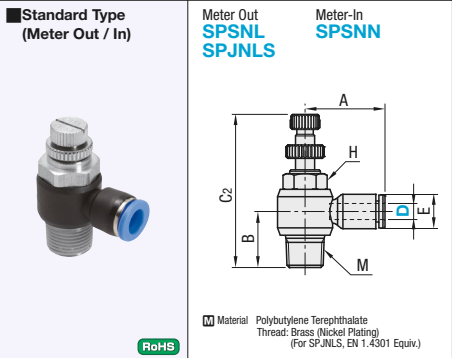


Speed Controller

Flow Rate Control Valves with One-Touch Coupling



Points of Comparison Versus Similar Products | Compared to the C-VALUE part, the adjustment finger part is made of metal and is strong enough for repeated adjustments. It has also been plated to improve corrosion-resistant properties.



Ordering Example

Part Number - Nominal - Color
SPSNL4 - M5

Part Number	Nominal	Color (*)	A	B	C2	E	Wrench Flats H	Thread Size M	Mass (g)	SPSNL Unit Price	SPSNL Volume Discount Rate	SPJNLS Unit Price	SPJNLS Volume Discount Rate
Type	D									1 ~ 9 pc(s)	10 ~ 30	1 ~ 9 pc(s)	10 ~ 30
SPSNL (Meter Out) SPSNN (Meter In)	4	M5	19.1(20.8)	10(12.4)	29.45(30.2)	9(10)	8	M5x0.8	9				
	1		20.9(23.1)	14.65(16.2)	40.05(38.4)	9(10)	10(13)	R1/8	21				
	6	M5	20.95(22.3)	11.2(12.2)	29.45(30.2)	11.2(12.5)	8	M5x0.8	10				
	1		21.95(24.1)	14.65(15.7)	40.05(38.4)	11.2(12.5)	10(13)	R1/8	22				
	2		23.95(25.8)	18.2(20.0)	48(45.7)	11.2(12.5)	14(16)	R1/4	38(40)				
	1	B (Black)	25.1(25.3)	15.65(15.4)	40.05(38.4)	13.6(14.5)	10(13)	R1/8	23				
	2	W (White)	27.6(27.2)	19.3(19.0)	48(45.7)	13.6(14.5)	14(16)	R1/4	41				
	8		28.6(29.5)	21.4(21.3)	54.2(52.4)	13.6(14.5)	19	R3/8	71(65)				
	3		29.6(29.9)	20.8(19.0)	48(45.7)	16.3(17.5)	14(16)	R1/4	46(44)				
	2		30(31.7)	23(21.8)	54.2(52.4)	16.3(17.5)	19	R3/8	74(68)				
	10		32.9(33.9)	26.5(25.2)	59.8(58.8)	16.3(17.5)	24	R1/2	106(112)				
	3		35.9(32.0)	24.7(21.7)	54.2(52.4)	19.7(20.0)	19	R3/8	77(69)				
	4		38.9(35.2)	28.2(25.7)	59.8(58.8)	19.7(20.0)	24	R1/2	109(113)				

Dimensions in () are for SPJNLS.

The picture and drawing indicate SPSNL and SPSNN.

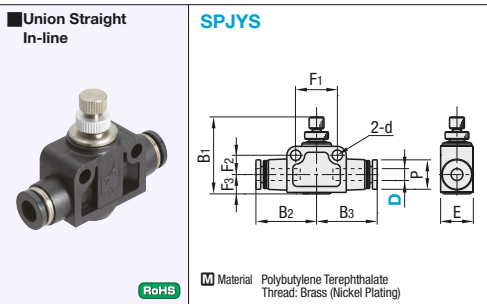
For SPJNLS, refer to the CAD data.

For SPSNN (Meter-In), the ring is red.

* Color is applicable to SPJNLS only.

Specifications

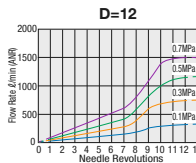
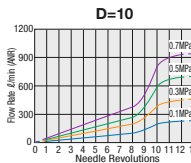
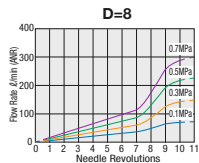
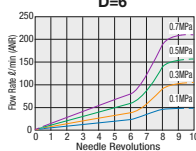
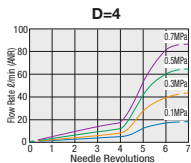
Applicable Fluid	Air
Operating Temp. Range	0 ~ 60°C
Operating Pressure Range	0.05~0.7MPa



Ordering Example

Part Number
SPJYS10

Part Number	B1	B2	B3	P	E	d	F1	F2	F3	Mass (g)	Unit Price	Volume Discount Rate
Type	D	Max.	Min.							1 ~ 9 pc(s)	10 ~ 30	
SPJYS	4	28.6	25.9	20.4	10.5	3.2	14	6.5	6.5	13		
	6	41.5	35.7	24.9	13	15	4.3	20	8.5	11		
	8	46	39.8	27.4	15	18	4.3	22	9.5	12		
	10	55.6	48	31.7	18	21	4.3	26	11	12		
	12	55.9	48.4	37.2	21	28	4.3	32	13	16		



Specifications

Applicable Fluid	Air
Operating Temp. Range	0 ~ 60°C
Operating Pressure Range	0.1~0.9MPa
Check Valve Operating Pressure	0.05MPa

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



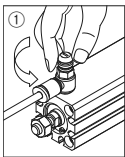
Example

Speed Adjusting Method

* It is necessary to adjust on both the cylinder rod push-out side and return side.

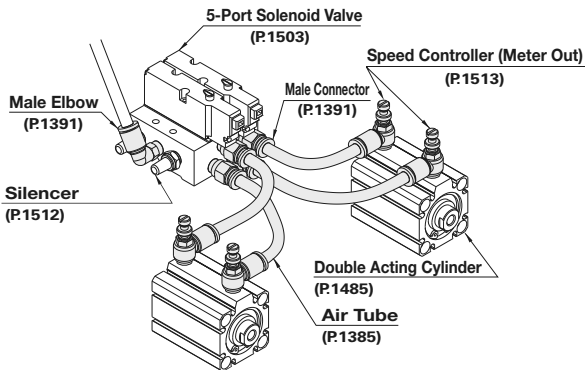
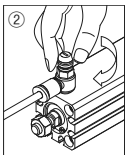
① When Increasing the Speed

1. Close all needles.
(Clockwise)
2. Rotate anti-clockwise to increase the speed.
Rotate slowly.
3. When desired speed is reached, tighten the Lock Nut.



② When Decreasing the Speed

1. Rotate clockwise to decrease speed.
2. When desired speed is reached, tighten the Lock Nut.



Speed Controller / Valve with Adjusting Dial

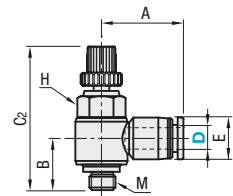
Flow Rate Control Valves with One-Touch Coupling

Miniature



RoHS

Meter Out MNSPS



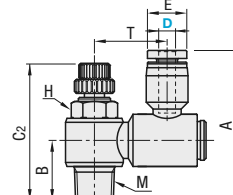
M Material: Polybutylene Terephthalate
Thread: Brass (Nickel Plating)

Straight



RoHS

Meter Out SPSNS



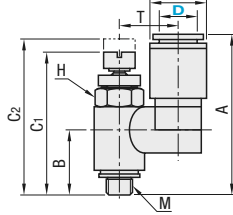
M Material: Polybutylene Terephthalate
Thread: Brass (Nickel Plating)

Miniature Straight



RoHS

Meter Out MNSPJS



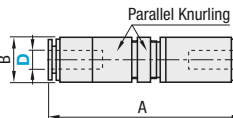
M Material: Polybutylene Terephthalate
Thread: Brass (Nickel Plating)

In-line



RoHS

SPJNSC



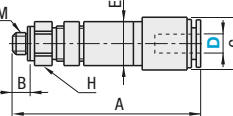
M Material: Polybutylene Terephthalate
Thread: Brass (Nickel Plating)

Miniature In-Line



RoHS

SPJNSK



M Material: Polybutylene Terephthalate
Thread: Brass (Nickel Plating)



Ordering Example

Part Number - Nominal - Color
SPSNS6 - M5
MNSPJS6 - M5 - W

Part Number Type	D	Nominal	A	B	C2	E	Wrench Flats H	Thread Size M	Mass (g)	Max. tightening torque (Kg-cm)	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~30
MNSPS	4	M3	15.7	9.9	30.5	8.0	8	M3x0.5	8	3		
		M5	15.7	9.9	30.5	8.0	8	M5x0.8	8	12		
	6	M5	16.7	9.9	30.5	10.4	8	M5x0.8	10.4	12		

Part Number Type	D	Nominal	A	B	C2	E	Wrench Flats H	T	Thread Size M	Mass (g)	Control Type	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~30
SPSNS	4	1	41.4	14.85	34.1	9.8	10	18.1	R1/8	34.1	Meter-Out		
		M5	35.2	11.4	29.12	11.9	8	15.9	M5x0.8	29.2			
	6	1	38.65	14.85	34.05	11.9	10	18.1	R1/8	34.1			
		2	42.2	18.4	42.4	11.9	14	20.1	R1/4	42.4			
	8	1	40.15	14.85	33.87	13.9	10	18.1	R1/8	33.9			
		2	49.2	18.4	42.32	13.9	14	20.18	R1/4	42.4			
		3	45.9	20.6	47.6	13.9	19	22.5	R3/8	47.7			
	10	2	46.4	18.4	42.32	16.9	14	20.1	R1/4	42.4			
		3	48.6	20.6	47.6	16.9	19	22.5	R3/8	47.7			

For SPSNS, the tube connection port will not move.

Part Number Type	D	Nominal	Color	A	B	C1	C2	E	Wrench Flats H	T	Thread Size M	Mass (g)	Control Type	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~30
MNSPJS	3.2	M5	W (White)	28	12.4	27.2	30.2	7.8	8	11.2	M5x0.8	13.2	Meter-Out		
	4	M3	B (Black)	28.3	11.4	25.1	27.6	7.9	7	9.3	M3x0.5	7.7			
		M5	W (White)	29	12.4	27.2	30.2	8.8	8	11.2	M5x0.8	14			
	6	M5	W (White)	30.6	12.4	27.2	30.2	10.8	8	11.2	M5x0.8	15			

Part Number Type	D	Color	A		B	Mass (g)	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~30
			Min	Max				
SPJNSC	4	B (Black)	48.8	52.3	10	13.9		
	6		52	57	12	18.8		
	8	W (White)	63	68	15	31		

Part Number Type	D	Color	A		B	C	E	Wrench Flats H	Thread Size M	Mass (g)	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~30
			Min	Max								
SPJNSK	4	B (Black)	39.8	43.3	4	10	10	9	M5x0.8	12.5		
	6	W (White)	42.8	46.3	4	12	10	9	M5x0.8	13.4		



• Meter Out

Free Flow
Control Flow

• Meter-In

JIS Symbol

• In-line

JIS Symbol



Specifications

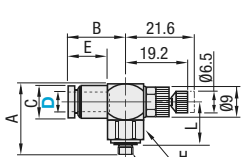
Applicable Fluid	Air
Operating Temp. Range	0 ~ 60°C
Operating Pressure Range	0.05~0.7MPa

Low-height



RoHS

Meter Out SPCNLH

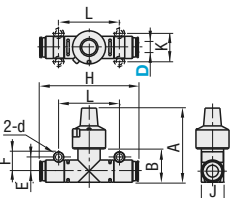


M Material: Body: EN 1.4305 Equiv.
Thread: Brass (Nickel Plating)
* For M3 only Body, Thread: EN 1.4305 Equiv.



RoHS

NBDY



Ordering Example

Part Number - Nominal
SPCNLH4 - M5
NBDY8

Part Number Type	D	Nominal	A	B	C	E	Wrench Flats H	L	Thread Size M	Mass (g)	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~30
SPCNLH	4	M3	22.0				8	13.5	M3x0.5	17.8		
		M5	21.5	16.4	8	11.5		12.5	M5x0.8	17.9		
		1	23.5					13.5	R1/8	21.7		
	6	M5	22.5				10	16.0	M5x0.8	21.2		
		1	26.0	16.5	10	12.6			R1/8	24.2		

Specifications

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

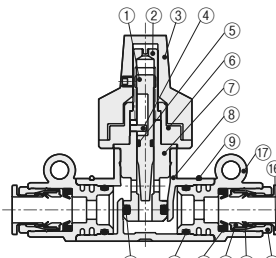
*Operating pressure is set at ambient temperature (20°C).

Part Number Type	D	A	B	E	F	H	d	J	K	L	Unit Price 1 ~ 4 pc(s)	Volume Discount Rate 5~10
NBDY	4	45.5	17	8.1	11.6	55		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	4.3	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		

Specifications

Applicable Fluid	Air / N2 Gas / Vacuum
Operating Temp. Range	5 ~ 60°C (Non-Freezing)
Max. Operating Pressure	0.7MPa
Negative-pressure	-100kPa
Guaranteed Withstand Pressure	1.5MPa

Structure Diagram



No.	Part Name	M Material
1	Needle	Brass
2	Rotary Shaft	Brass
3	Dial	Aluminum Alloy, Polyamide, etc.
4	Dowel Pin	Stainless Steel
5	O-Ring	Fluororubber
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

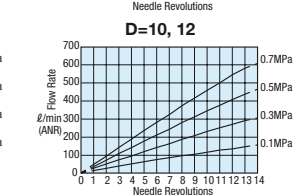
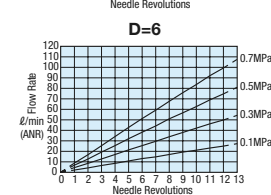
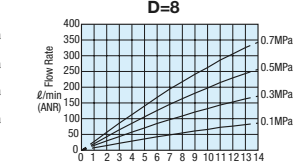
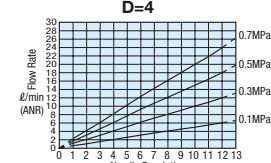
- Linear flow rate characteristics proportional to needle revolutions.
- Dial display makes it easy to control value of flow rate.
- Mounting part with 360° turn provides free mounting.
- Slide locking lever provides easy locking.

PRECAUTIONS

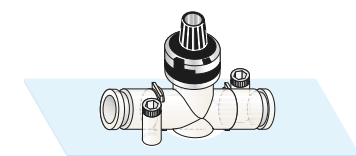
- Throttle valves for controlling both right and left sides flow rate.
- Not applicable as a stop valve which requires no leakage.
- Fix the dial with slide locking lever after adjusting flow rate.
- Tighten the mounting screw at 0.8N·m or lower.

Flow Rate Characteristics

<NBDY>



Manifolds



Bottom Side Mounting Example

Speed Controller

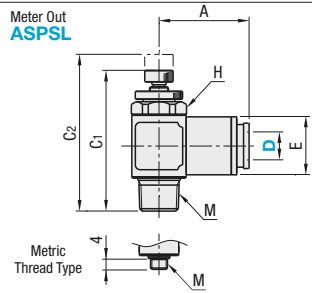
Stainless Steel / Heat Resistant / Clean

Stainless Steel



RoHS

Meter Out
ASPSL



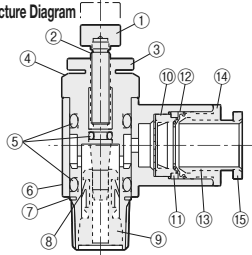
Specifications

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

Features

- Excels in corrosion resistance.

Structure Diagram



Part Number	Type	D	Nominal	A	C1	C2	E	Wrench Flats	Thread Size	Mass (g)	Unit Price	Volume Discount Rate
											1~9 pcs(s)	10~30
		4	M5	21	32.1	36.7	12	10	M5x0.8	25.9		
		1		23	37.9	43.4	14	13	R1/8	41.0		
		6	M5	22.5	32.1	36.7	12	10	M5x0.8	24.9		
		1		24.5	37.9	43.4	14	13	R1/8	40.5		
		2		26	47.1	53.3	17	16	R1/4	73.0		
		1		26	37.9	43.4	14	13	R1/8	39.2		
		8	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		
		2		30	47.1	53.3	17	16	R1/4	70.7		
		10	3	32	55.1	61.6	22	19	R3/8	134.0		
		12	3	33.5	55.1	61.6	22	19	R3/8	129.8		

For orders larger than indicated quantity, please check with WOS.

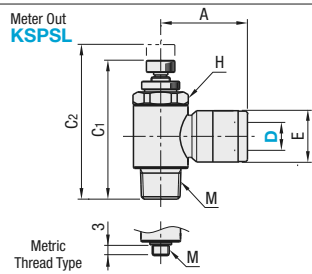
No.	Part Name	Material	No.	Part Name	Material
①	Handle	EN 1.4401 Equiv.	⑨	Check Part	EN 1.4401 Equiv.
②	Spindles	EN 1.4401 Equiv.	⑩	Gasket	Fluorine
③	Lock Nut	EN 1.4401 Equiv.	⑪	Chuck Holder	EN 1.4401 Equiv.
④	Rotary Shaft	EN 1.4401 Equiv.	⑫	Chuck	EN 1.4319 Equiv.
⑤	O-Ring	Fluorine	⑬	Push Ring A	EN 1.4401 Equiv.
⑥	Rotating Object	EN 1.4401 Equiv.	⑭	Outer Ring	EN 1.4401 Equiv.
⑦	E-Ring	Stainless Steel	⑮	Push Ring B	EN 1.4401 Equiv.
⑧	V Gasket	HNBR			

Heat-Resistant



RoHS

Meter Out
KSPSL



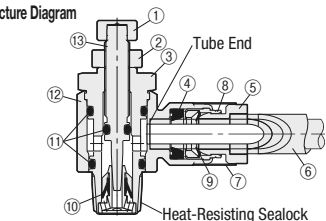
Specifications

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

Features

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

Structure Diagram



Part Number	Type	D	Nominal	A	C1	C2	E	Wrench Flats	Thread Size	Mass (g)	Unit Price	Volume Discount Rate
											1~9 pcs(s)	10~20
		4	M5	22.6	30	32.7	12.5	11	M5x0.8	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	M5x0.8	26		
		1		26.1	38.1	44.4	12.5	14	R1/8	43.4		
		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		
		8	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		
		2		31.2	46.9	53.3	18.6	17	R1/4	82.4		
		10	3	33.0	51.2	58.4	21.5	21	R3/8	127.7		
		12	3	36.1	51.2	58.4	21.6	21	R3/8	134		

For orders larger than indicated quantity, please check with WOS.

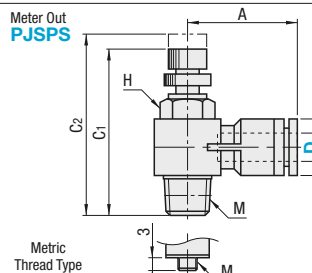
No.	Part Name	Material	No.	Part Name	Material
①	Knob	Brass (Electroless Nickel Plating)	⑧	Guide Ring	Brass (Electroless Nickel Plating)
②	Lock Nut	Brass (Electroless Nickel Plating)	⑨	Lock Pawl	Stainless Steel
③	Thread	Brass (Electroless Nickel Plating)	⑩	Diaphragm	H-NBR
④	Elastic Sleeve	H-NBR	⑪	O-Ring	H-NBR
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)			

Clean



RoHS

Meter Out
PJSPS



Specifications

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

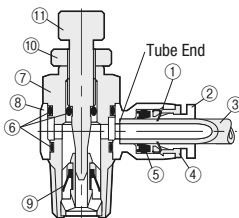
Features

- 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.

Structure Diagram



Part Number	Type	D	Nominal	A	C1	C2	E	Wrench Flats	Thread Size	Mass (g)	Unit Price	Volume Discount Rate
											1~9 pcs(s)	10~20
		4	M5	20.0	27	29.7	9.9	8	M5x0.8	7		
		1		21.5	34.4	40.5	10	12	R1/8	18		
		6	M5	24.1	27	29.7		8	M5x0.8	8		
		1		23.6	34.4	40.5	12.4	12	R1/8	19		
		2		25.6	41.4	47.6		16	R1/4	38		
		8	1	26.9	34.4	40.5		12	R1/8	22		
		2		28.4	41.4	47.6	14.4	16	R1/4	41		
		3		28.9	46.5	53.5		21	R3/8	69		
		2		31.1	41.4	47.6		16	R1/4	44		
		10	3	31.4	46.5	53.5	17.6	21	R3/8	71		
		12	3	37.1	46.5	53.5	21	21	R3/8	106		

No.	Part Name	Material
①	Lock Pawl	Stainless Steel
②	Release Ring	Polypropylene
③	Tube	-
④	Guide Ring	EN 1.4301 Equiv.
⑤	Elastic Sleeve	EPDM
⑥	O-Ring	EPDM
⑦	Metal Body	EN 1.4301 Equiv.
⑧	Resin Body	Polypropylene
⑨	Diaphragm	EPDM
⑩	Lock Nut	EN 1.4301 Equiv.
⑪	Needle	EN 1.4301 Equiv.

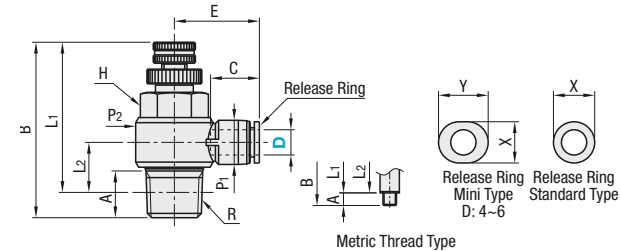
Throttle Valves

Throttle Valves Elbow



RoHS

SEJC



Part Number	Type	D	Nominal	R	A	Max	Min	L1	Max	Min	L2	P1	P2	C	E	Opposite Side H	X	Y	Mass (g)	Unit Price	Volume Discount Rate
																				1~9 pcs(s)	10~30
		4	M5	M5x0.8	2.9	29.7	27	26.8	24.1	6.7		8	9.8	11	15.4	8	7.8	9.8	7.9		
		1		R1/8	8	41.3	35.2	37.3	31.2	10.7		14.4	14.4		17.7	10			18		
		6	M5	M5x0.8	2.9	29.7	27	26.8	24.1	7.58		9.8	9.8	11.6	17.5	8	9.8	11.8	8.6		
		1		R1/8	8	41.3	35.2	37.3	31.2	10.7		10.5	14.4		18.3	10			19		
		2		R1/4	11.1	48.7	41.9	42.7	35.9	11.9			18.4		20.2	14			37		
		1		R1/8	8	41.3	35.2	37.3	31.2	11.9			14.4		26.9	10			22		
		8	2	R1/4	11.1	48.7	41.9	42.7	35.9	13.2		14.4	18.4	18.1	28.4	14	13.8	-	40		
		10	2	R1/4	11.1	48.7	41.9	42.7	35.9	14.8		17.6	18.4	20.2	30.9	14	16.8	-	44		

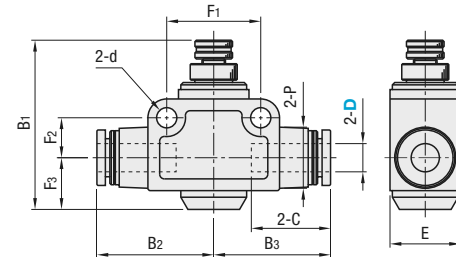
For orders larger than indicated quantity, please check with WOS.

Throttle Valves Unions



RoHS

SEJR



Part Number	Type	D	Max	Min	B2	B3	P	E	C	d	F1	F2	F3	Mass (g)	Unit Price	Volume Discount Rate
															1~9 pcs(s)	10~30
		4	28.6	25.9	20.4	20.4	10.5	11	14.9	3.2	14	6.5	6.5	13		
		6	41.6	36.1	24.9	24.9	13	15	16.9	4.3	20	8.5	11	30		
		8	46.2	40.6	27.4	27.4	15	18	18.4	4.3	22	9.5	12	45		
		10	52.2	45.7	31.7	31.7	18	21	20.7	4.3	26	11	12	75		

For orders larger than indicated quantity, please check with WOS.



Part Number - Nominal
Example SEJC4 - M5



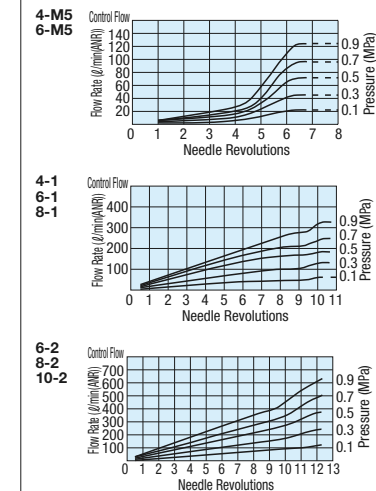
Features / Specifications

- Features: Regardless of free flow or control flow, air can be controlled from either right or left side.

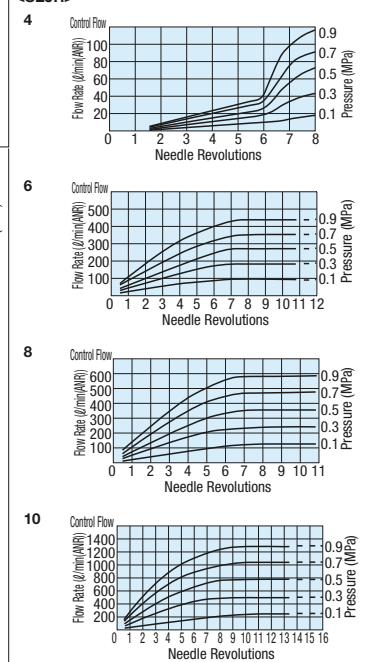
Applicable Fluid	Air
Operating Temp. Range	0 ~ 60°C
Operating Pressure Range	0~0.9MPa

Flow Rate Characteristics

<SEJC>



<SEJR>



Regulator / Quick Exhaust Valves

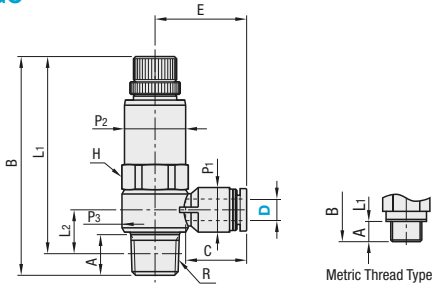
Elbow / Unions / Elbow with Gauge / Unions with Gauge

Elbow

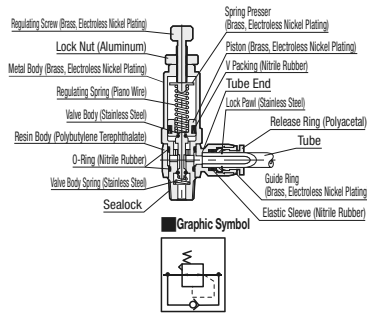


RoHS

RGC



Structure Diagram (Elbow: RGC)



Graphic Symbol



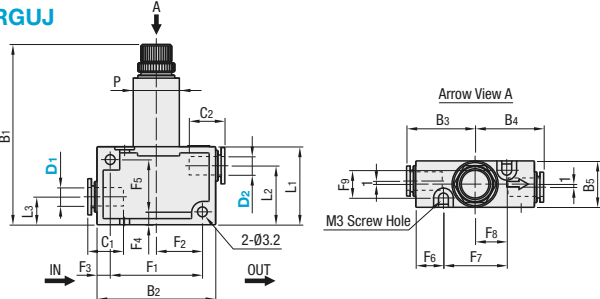
Part Number		Nominal	R	A	B		L1		L2	P1	P2	P3	C	E	Opposite Side H	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
Type	Tube O.D. (mm) D				Max	Min	Max	Min										
RGC	4	M5	M5x0.8	2.9	48.7	44.6	45.8	41.7	7.6	8	10	9.8	11	15.4	10	16		
		1	R1/8	7.8	60	56	56	52	10.5	10	14	14.4	14.9	21.4	14	36		
	6	M5	M5x0.8	2.9	48.7	44.6	45.8	41.7	8.4	10.5	10	9.8	11.6	17.5	10	16		
		1	R1/8	7.8	60	56	56	52	10.7	12.4	14	14.4	17	23.5	14	36		
	8	2	R1/4	11.3	64.8	60.8	58.8	54.8	12.2	14.4	14	14.4	18.1	25.5	17	59		
		1	R1/8	7.8	60	56	56	52	11.7	14.4	14	14.4	18.1	26.9	14	38		
	8	2	R1/4	11.3	64.8	60.8	58.8	54.8	13.2	17	17	18.4	18.1	28.4	17	60		
		1	R1/8	7.8	60	56	56	52	11.7	14.4	14	14.4	18.1	26.9	14	38		

Unions



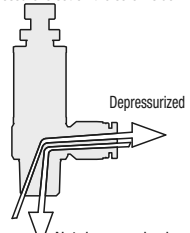
RoHS

RGUJ



Features

- As with a relief mechanism, the pressure will be reduced and flow out from the fitting side when the primary pressure is set on the screw side.



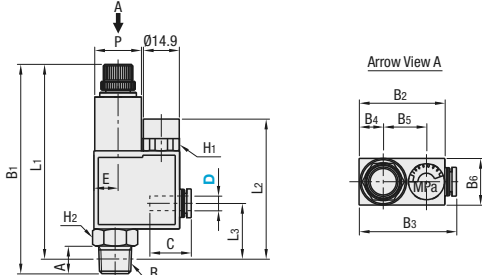
Part Number		D2	B1		B2	B3	B4	B5	L1	L2	L3	P	C1	C2	F1	F2	F3	F4	F5	F6	F7	F8	F9	Mass (g)	Unit Price 1 ~ 9 pc(s)	Volume Discount Rate 10~20	
Type	D1		Max	Min																							
RGUJ	4	4	63.3	58.8	38.6	21.9	21.9	15.1	25.4	19.2	9.1	15	11	11	30	15	4.3	4.2	17	9	20.6	10.3	9	36			
	6	4	63.3	58.8	38.6	22.3	21.9	15.1	25.4	19.2	9.1	15	11.6	11	30	15	4.3	4.2	17	9	20.6	10.3	9	37			
		6	63.3	58.8	38.6	22.3	22.3	15.1	25.4	19.2	9.1	15	11.6	11.6	30	15	4.3	4.2	17	9	20.6	10.3	9	37			
	8	6	67.5	63.2	47.6	28.5	28.6	19.2	29.5	21.3	9	19.2	19.6	17	39.6	19.8	4	4	21.5	12.1	23.4	11.7	13	61			
		8				28.5							19.6	19.6									62				

Elbow with Gauge



RoHS

RGCM



Arrow View A



Part Number		Nominal	R	A	B1		B2	B3	B4	B5	B6	L1		L2	L3	C	E	P	Opposite Side H1	Opposite Side H2	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
Type	Tube O.D. (mm) D				Max	Min						Max	Min										
RGCM	4	M5	M5x0.8	3	60.6	56.6	24.8	27.4	5.8	13.7	15.1	57.6	53.6	42.8	11.8	11	4.7	11	14	8	28		
		1	R1/8	7.8	81.8	77.4	32	36.2	7.8	15.8	15	77.8	73.4	51.6	18.6	15.9	7.3	15.2	14	12	55		
	6	M5	M5x0.8	3	60.6	56.6	24.8	27.8	5.8	13.7	15.1	57.6	53.6	42.8	11.8	11.6	4.7	11	14	8	28		
		1	R1/8	7.8	81.8	77.4	32	36.8	7.8	15.8	15	77.8	73.4	51.6	18.6	17	7.3	15.2	14	12	56		
	8	2	R1/4	11.3	90	85.7	35.1	39.9	9.9	17.7	19.1	84	79.7	57.3	22.8	18.1	8.7	19.1	16	16	84		
		1	R1/8	7.8	81.8	77.4	32	36.7	7.8	15.8	15	77.8	73.4	51.6	18.6	18.1	7.3	15.2	14	12	56		
	8	2	R1/4	11.3	90	85.7	35.1	39.8	9.9	17.7	19.1	84	79.7	57.3	22.8	18.1	8.7	19.1	12	16	85		
		1	R1/8	7.8	81.8	77.4	32	36.7	7.8	15.8	15	77.8	73.4	51.6	18.6	18.1	7.3	15.2	12	16	85		

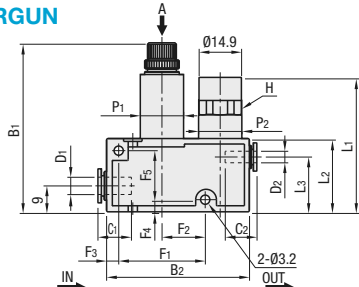
Ordering Example
Part Number - Nominal: D2
RGC4 - M5
RGCM4 - M5

Unions with Gauge

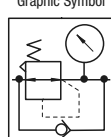


RoHS

RGUN



Regulator with Pressure Gauge Graphic Symbol



Part Number		Nominal	R	A	B1		B2	B3	B4	B5	L1	L2	L3	P1	P2	C1	C2	J	Opposite Side H	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~30
Type	No.				Max	Min																										
RGUN	4	4	63.4	58.9	49.5	21.8	32.9	15.1	46.6	25.4	19	15	15	11	11	11	1	14	30	15	4.2	4.2	17	9.1	20.2	10.1	10.1	9	47			
	6	6	63.4	58.9	49.5	22.2	32.9	15.1	46.6	25.4	19	15	15	11.6	11	11.6	1	14	30	15	4.2	4.2	17	9.1	20.2	10.1	10.1	9	47			
	8	8	67.4	63.2	59.7	28.5	40.7	19.2	48.5	29.4	21.3	19	15.2	18.1	17	18.1	0	14	39.7	19.8	3.9	4.1	21.3	12.2	23.2	9.1	11.6	13	74			
	8	8					40.6																									

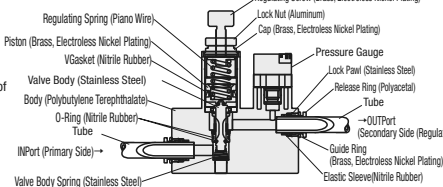
Features

- This is a compact type regulator with a pressure gauge.
- The gauge can be changed in direction by the hexagonal part (H part) of its body.

Precautions for Use

- Do not use the regulator in such a way that the pressure exceeds the preset level due to large secondary pressure fluctuations. It may result in equipment damage or malfunction. In the case of such a possibility, provide separate safety device.
- Set the pressure upward (clockwise). Downward setting (counterclockwise) does not provide accurate regulation.
- When the pressure has been set at the desired level, be sure to tighten the lock nut to hold the setting.

Structure Diagram



Specifications

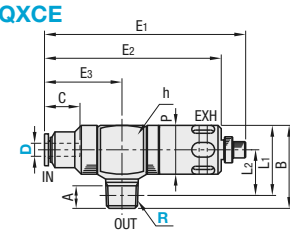
Applicable Fluid	Air
Operating Temp. Range	0 ~ 60°C
Operating Pressure Range	0 ~ 0.9MPa
Set Pressure Range	0.1 ~ 0.8MPa
Indicated Pressure Range	0 ~ 0.8MPa
Gauge Accuracy	±5% (Full Scale *)
*Displayed position differences when the displayed pressure has suddenly changed from 0 to Max. value of 0.8MPa.	

Quick Exhaust Valves - Standard (With Exhaust Throttle)



RoHS

EQXCE



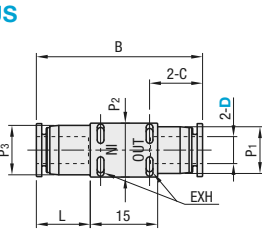
Material: Body: Aluminum
Needle: Brass (Electroless Nickel Plating)
Element: Polyvinyl Formal

Quick Exhaust Valves - Straight



RoHS

EQU



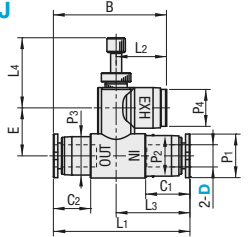
Material: Polybutylene Terephthalate

Quick Exhaust Valves - Unions (With Exhaust Throttle)



RoHS

EQEJ



Material: Polybutylene Terephthalate
Needle: Brass (Electroless Nickel Plating)
Element: Polyvinyl Formal

Quick Exhaust Valves - Standard

Part Number		R (PT)	Nominal	A	B	L1	L2	P	C	E1		E2	E3	Opposite Side H	Effective Sectional Area (mm²)		Mass (g)	Unit Price 1 - 9 pc(s).	Volume Discount Rate 10-20
Type	Tube O.D. (mm) D									Max	Min				IN→OUT	OUT→EX			
EQXCE	4	1 (R1/8)	1	8	25.5	21.5	14	15	10.9	66.7	61.8	54.3	23.8	15	4	8	23		
	6	1 (R1/8)	1	8	25.5	21.5	14	15	11.7	67	62.1	54.6	24.1	15	6	8	23		
		2 (R1/4)	1	11	31	25	16	18		77.4	71.6	63.1	28.1	18	9	15	35		
		1 (R1/8)	1	8	29	25	16	18	18.2	82.7	76.9	68.4	33.4	18	12	15	39		
	2 (R1/4)	1	11	31	25	16	18									41			
	8																		

Quick Exhaust Valves - Straight

Part Number												Effective Sectional Area (mm²)		Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
Type	Tube O.D. (mm) D	B	L	P1	P2	P3	C	IN→OUT	OUT→EX	Mass (g)					
EQU	4	34.6	11	8.4	10	9	11	1.8	1.8	3.3					
	6	37	12	10.4	12	11	11.6	4	4	4.9					

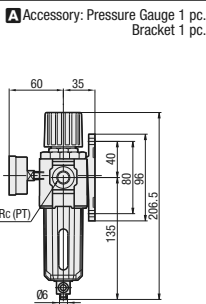
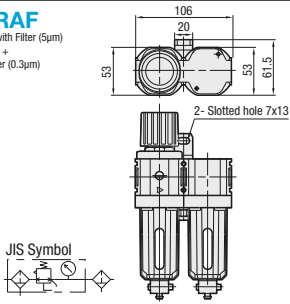
Conditioning Equipments / Pressure Gauge

Regulators with Pressure Gauge

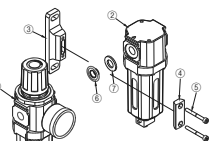


MSFRAF

Regulators with Filter (5µm)
Air Filter (0.3µm)



Structure Diagram



Accessory: Pressure Gauge 1 pc.
Bracket 1 pc.

Part Number	No.	Rc (PT)	Noml. Filtration Rating (µm)	Operating Pressure MPa	Pressure Setting Range MPa	Pressure Resistance MPa	Ambient Temperature Range (°C)	Applicable Fluid	Mass (g)	Unit Price
MSFRAF	8A 10A	1/4 3/8	5+0.3	0.05~1.0	0.05~0.85	1.5	5~60	Air	780	1 ~ 4 pc(s).

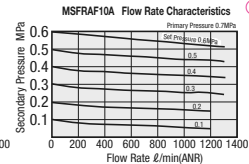
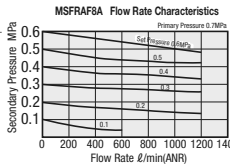
Characteristic Data

This graph shows that when the primary pressure is constant at 0.7 MPa, the secondary set pressure drops according to the flow rate used.

Component List

No.	Name	Material
(1)	Regulators with Filter	MSFR
(2)	Air Filters	MSAF 0.3µm
(3)	Bracket	EN AC-46100 Equiv.
(4)	Attachment	EN AC-46100 Equiv.
(5)	Hex Socket Head Cap Screw	EN 1.7220 Equiv.
(6)	#1 Gasket	NBR
(7)	#2 Gasket	NBR

The drain valve automatically drains when the pressure becomes 0.05 MPa or less.



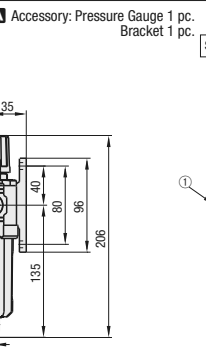
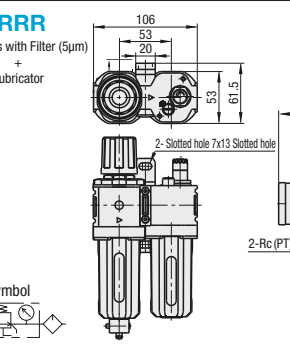
For orders larger than indicated quantity, please check with WOS.

Regulators with Filter

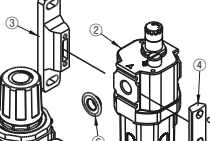


MSFRRR

Regulators with Filter (5µm)
+ Lubricator



Structure Diagram



Accessory: Pressure Gauge 1 pc.
Bracket 1 pc.

Part Number	No.	Rc (PT)	Noml. Filtration Rating (µm)	Operating Pressure MPa	Pressure Setting Range MPa	Pressure Resistance MPa	Oil Capacity (cm³)	Min. Dripping Flow Rate (l/min)	Recommended Oil	Ambient Temperature Range (°C)	Applicable Fluid	Mass (g)	Unit Price
MSFRRR	8A 10A	1/4 3/8	5	0.05~1.0	0.05~0.85	1.5	55	50 60	Turbine Oil 1 Type (ISO VG32)	5~60	Air	780	1 ~ 4 pc(s).

Min. Dripping Flow Rate shows the flow rate when the primary pressure is at 0.5 MPa. (ANR)

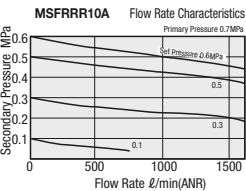
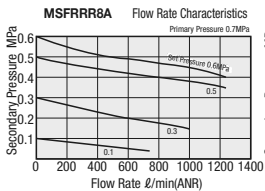
Characteristic Data

This graph shows that when the primary pressure is constant at 0.7 MPa, the secondary set pressure drops according to the flow rate used.

Component List

No.	Name	Material
(1)	Regulators with Filter	MSFR
(2)	Lubricator	MSRR
(3)	Bracket	EN AC-46100 Equiv.
(4)	Attachment	EN AC-46100 Equiv.
(5)	Hex Socket Head Cap Screw	EN 1.7220 Equiv.
(6)	Gasket	NBR

The drain valve automatically drains when the pressure becomes 0.05 MPa or less.

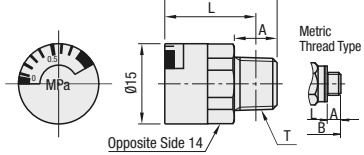


For orders larger than indicated quantity, please check with WOS.

Pressure Gauge - Straight



GPCS

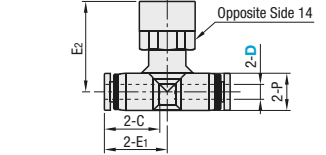


Part Number	T	A	B	L	Mass (g)	Unit Price
GPCS	1 2 5	R1/8 R1/4 M5x0.8	8 11 3	21 24 13.5	17 16.5 6	10~20

Pressure Gauge - Union Straight



GPUS



Part Number	P	C	E1	E2	Mass (g)	Unit Price
GPUS	4 6 8	10 13 15	15 17 18.5	17 20 22	12.5 15.5 20	10~20



Specifications

Applicable Fluid	Air
Indicated Pressure Range	0~0.8MPa
Accuracy	±5% (Full Scale *)
Operating Temp. Range	0 ~ 60°C
Scale Angle	150°
Cap	Acrylic
Material	Metal Body: Brass (Nickel Plating) Resin Body: PBT

*Displayed position differences when the displayed pressure has suddenly changed from 0 to Max. value of 0.8MPa.
• GPUS can be changed in direction using the hexagonal part of its body.



Ordering Example
Part Number
MSFRAF8A
Part Number
GPCS2