

Speed Controller

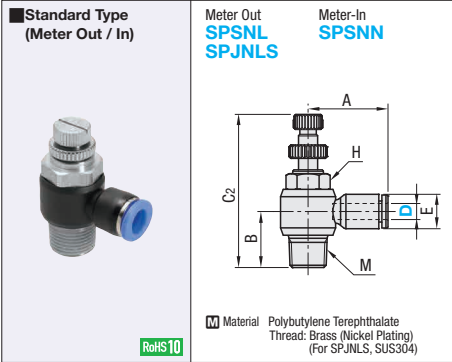
Flow Rate Control Valves with One-Touch Coupling

MISUMI C-VALUE Speed Controller

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.

Points of Comparison Versus Similar Products | Compared to the conventional high quality part, this is an economy part. It has not received RoHS Directive Inspection.

Similar Product Page **P.1513**

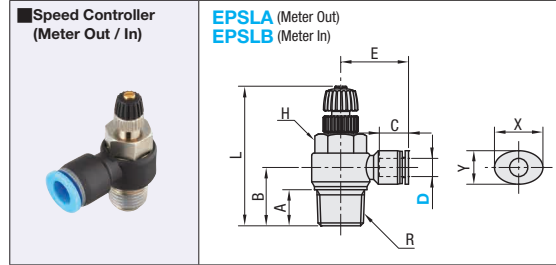


Part Number	Nominal	Color (*)	A	B	C ₂	E	Wrench Flats H	Thread Size M	Mass (g)	SPSNL SPSNN		SPJNLS	
										Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
SPSNL SPSNN (Meter Out / In)	4	M5	19.1(20.8)	10(12.4)	29.45(30.2)	9(10)	8	M5x0.8	9				
			20.9(23.1)	14.65(16.2)	40.05(38.4)	9(10)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

Ordering Example: Part Number - Nominal - Color
SPSNL4 - M5

Dimensions in () are for SPJNLS.
The picture and drawing indicate SPSNN and SPSNN.
For SPJNLS, refer to the CAD data.
For SPSNN (Meter-In), the ring is red.
* Color is applicable to SPJNLS only.

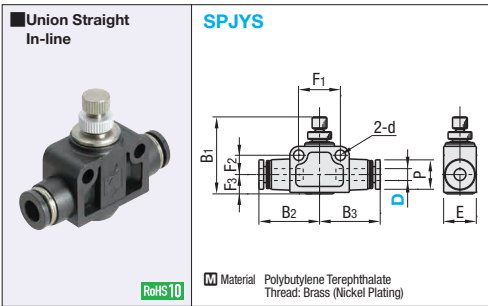
Specifications
Applicable Fluid: Air
Operating Temp. Range: 0 ~ 60°C
Operating Pressure Range: 0.05~0.7MPa



Part Number	Type	Applicable Tube O.D. D	Thread Size Nominal	L		A	B	E	C	H	X	Y	Unit Price	
				(MIN)	(MAX)								EPSLA	EPSLB
EPSLA (Meter Out) EPSLB (Meter In)	4	M5	M5	29	32	4	10.7	20	15	8	11.9	10.5		
				R1/8	38	44	8	15	22	15	10	11.9	10.5	
	6	M5	M5	29	32	4	12	22	15	8				
				R1/8	38	44	8	15	23	15	10	14	13	
	8	M5	M5	44	51	11	19	25	15	14				
				R1/4	44	51	11	20	28	17	14	16	14	
	10	M5	M5	44	51	11	21	23	21	14				
				R1/4	44	51	11	21	23	21	14	20	17	
	12	M5	M5	49	55	12	23	33	21	19				
				R3/8	49	55	12	24	35	22	19	23	21	

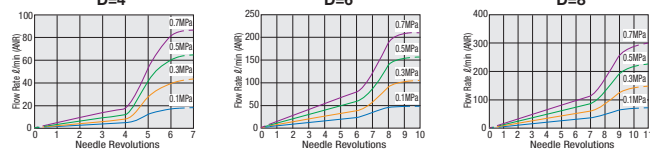
Ordering Example: Part Number - Thread Nominal
EPSLA8 - 1

*marked sizes are only available for Meter Out. There are no Meter-In for these sizes.

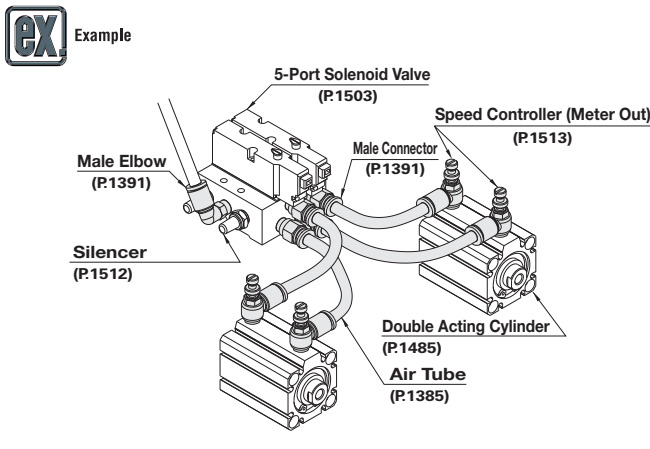


Part Number	Type	B ₁		B ₂	B ₃	P	E	d	F ₁	F ₂	F ₃	Mass (g)	Unit Price	Volume Discount Rate
		Max.	Min.											
SPJYS	4	28.6	25.9	20.4	20.4	10.5	11	3.2	14	6.5	13			
	6	41.5	35.7	24.9	24.9	13	15	4.3	20	8.5	11	29		
	8	46	39.8	27.4	27.4	15	18	4.3	22	9.5	12	43		
	10	55.6	48	31.7	31.7	18	21	4.3	26	11	12	71		
	12	55.9	48.4	37.2	37.2	21	28	4.3	32	13	16	115		

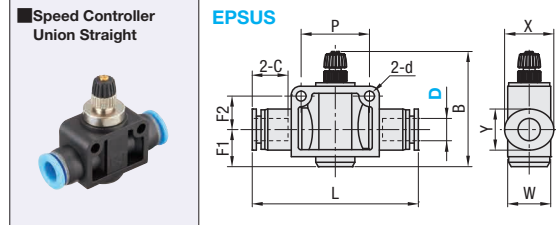
Ordering Example: Part Number
SPJYS10



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).

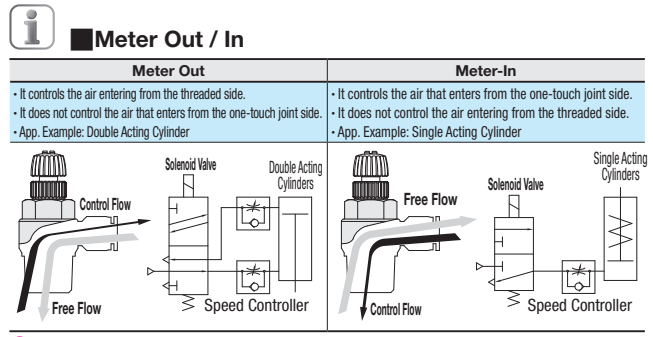


Speed Adjusting Method
* It is necessary to adjust on both the cylinder rod push-out side and return side.
① When Increasing the Speed (Clockwise)
1. Close all needles.
2. Rotate anti-clockwise to increase the speed. Rotate slowly.
3. When desired speed is reached, tighten the Lock Nut.
② When Decreasing the Speed (Clockwise)
1. Rotate clockwise to decrease speed.
2. When desired speed is reached, tighten the Lock Nut.



Part Number	Type	Applicable Tube O.D. D	B		L	P	C	F ₁	F ₂	W	X	Y	d	Unit Price
			(MIN)	(MAX)										
EPSUS	4	28	31	40	14	14	6.5	6.5	12	12	11	3.2		
	6	41	48	48	20	16	11	9	15	14	13	4.3		
	8	44	52	52	22	17	12	10	18	16	14	4.3		
	10	48	55	55	26	20	13	11	21	20	17	4.3		
	12	52	58	58	32	22	16	13	28	23	21	4.3		

Ordering Example: Part Number
EPSUS10



Meter Out Type has "OUT" printed on the unit.

Speed Controller Part Diagram

No.	Part Name	Material	No.	Part Name	Material
①	Elastic Sleeve	NBR	⑧	Diaphragm	NBR
②	Lock Pawl	Stainless Steel	⑨	Resin Body	PBT
③	Release Ring	POM	⑩	O-Ring	NBR
④	Tube	PU / Nylon, etc.	⑪	Metal Body	Brass
⑤	Guide Ring	Zinc	⑫	Lock Nut	Aluminum
⑥	Seal Coating	PTFE	⑬	Needle	Brass
⑦	Metal Body	Brass	⑭	Leveling Nut	PA66

* If the thread size is M5, fit an O-Ring (NBR) to the base of the thread.

Tightening Torque Table

Type of Thread	Thread Size (symbol)	Tightening Torque	
		(kgf.cm)	(N)
Metric Thread	M5	15~19	1.4~1.8
	R1/8(1)	70~90	7~9
	R1/4(2)	120~140	12~14
	R3/8(3)	220~240	22~24
Taper thread (R)	R1/2(4)	280~300	27~29

Precautions for Use
(One-Touch Coupling / Speed Controller)
• Do not excessively twist, bend or pull on the joint body as it could cause damage.
When tightening threads, refer to the tightening torque table above.
Over-tightening could cause thread breakage and gasket deformation, which could cause leaks.
Under-tightening could result in looseness in the threaded sections, which could cause leaks.
(Speed Controller)
• Do not use for the purpose of making the flow rate zero.