

# Speed Controller / Valve with Adjusting Dial

## Flow Rate Control Valves with One-Touch Coupling

**Miniature**

Meter Out  
**MNSPS**

Material: Polybutylene Terephthalate  
Thread: Brass (Nickel Plating)

Part Number	Type	D	Nominal	A	B	C2	E	Wrench Flats H	Thread Size M	Mass (g)	Max. tightening torque (K·g·cm)	Unit Price	Volume Discount Rate
MNSPS	4	M3	M5	15.7	9.9	30.5	8.0	8	M3x0.5	8	3		
				15.7	9.9	30.5	8.0	8	M5x0.8	8	12		
				16.7	9.9	30.5	10.4	8	M5x0.8	10.4	12		

**Straight**

Meter Out  
**SPSNS**

Material: Polybutylene Terephthalate  
Thread: Brass (Nickel Plating)

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

For SPSNS, the tube connection port will not move.

**Miniature Straight**

Meter Out  
**MNSPJS**

Material: Polybutylene Terephthalate  
Thread: Brass (Nickel Plating)

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

**In-line**

**SPJNSC**

Material: Polybutylene Terephthalate  
Thread: Brass (Nickel Plating)

Part Number	Type	D	Color	A		B	Mass (g)	Unit Price	Volume Discount Rate
				Min	Max				
SPJNSC	4	B	Black	48.8	52.3	10	13.9		
				52	57	12	18.8		
				63	68	15	31		

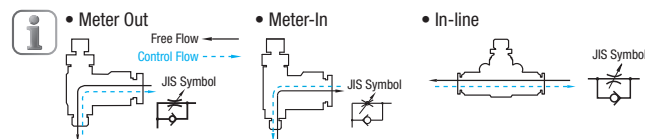
**Miniature In-Line**

**SPJNSK**

Material: Polybutylene Terephthalate  
Thread: Brass (Nickel Plating)

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

Ordering Example: Part Number - Nominal - Color  
SPSNS6 - M5 - W  
MNSPJS6 - M5 - W



Specifications

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

**Low-height**

Meter Out  
**SPCNLH**

Material: Body: SUS303  
Thread: Brass (Nickel Plating)  
For M3 only Body, Thread: SUS303

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

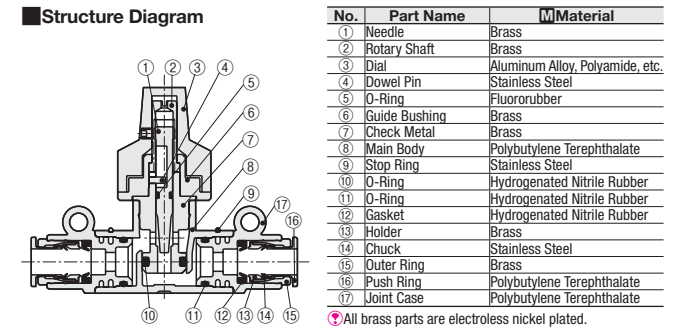
Specifications  
Applicable Fluid: Air  
Operating Temp. Range: -5 ~ 60°C  
Operating Pressure Range: 0.05~0.7MPa  
\*Operating pressure is set at ambient temperature (20°C).

**Valve with Adjusting Dial**

**NBDY**

Part Number	Type	D	A	B	E	F	H	d	J	K	L	Unit Price	Volume Discount Rate	
														1 - 4 pc(s)
NBDY	4	4	45.5	17	8.1	11.6	55	4.3	12	16.2	30.8			
												12	16.2	30.8
												15	19	41
												20	23	47
												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

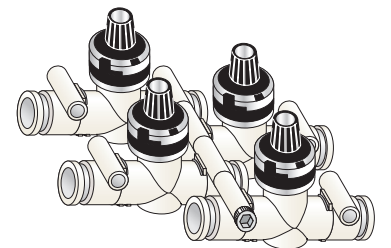
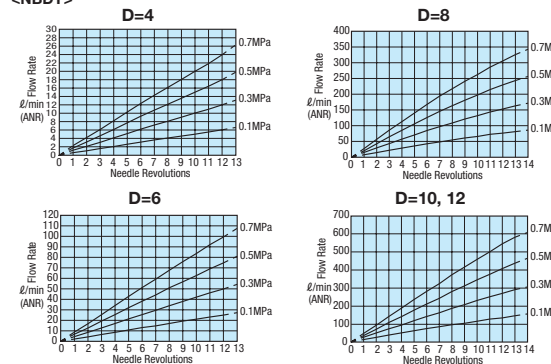


Features  
- Linear flow rate characteristics proportional to needle revolutions.  
- Dial display makes it easy to control value of flow rate.  
- Mounting part with 360° turn provides free mounting.  
- Slide locking lever provides easy locking.

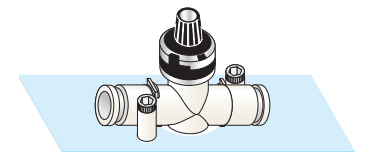
PRECAUTIONS  
- Throttle valves for controlling both right and left sides flow rate.  
- Not applicable as a stop valve which requires no leakage.  
- Fix the dial with slide locking lever after adjusting flow rate.  
- Tighten the mounting screw at 0.8N·m or lower.



Flow Rate Characteristics  
-NBDY-



Manifolds



Bottom Side Mounting Example