

Series SP

Speed Controllers

Speed Controllers



Features

- EASY CONTROL OF AIR FLOW SPEED AND AIR FLOW RATE
- TUBE DIRECTION AND ANGLE ARE CONTROLLED ACCORDING TO PIPING AS THE MAIN BODY CAN ROTATE UP TO 360 AFTER ASSEMBLY
- NEEDLE ROTATION CAN BE INCREASED 10-12 TIMES FOR EASY SPEED AND REGULAR SPEED CONTROL
- NICKEL BODY PLATING AS A STANDARD SPECIFICATION

How to Order

SP 2 2 0 1F - 02 - 08 S-W

1 2 3 4 5 6 7

1 Body Size

- 1 : M5
- 2 : R 1/8, 1/4
- 3 : R 3/8
- 4 : R 1/2

2 Type

- 2 : Elbow
- 0 : Union

3 Controlled Method

- 0 : Meter-Out
- 1 : Meter-In

4 With One-Touch Fittings

5 Port Size

- M5 : M5 x 0.8
- 01 : R 1/8
- 02 : R 1/4
- 03 : R 3/8
- 04 : R 1/2

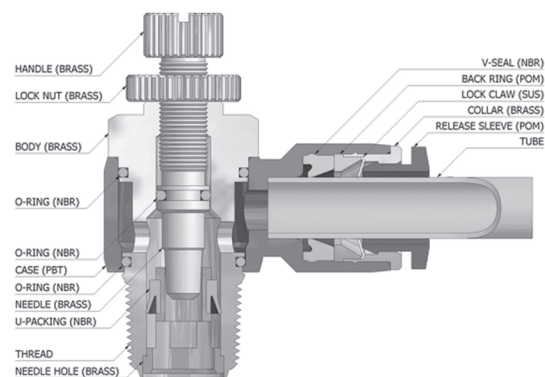
6 Applicable Tube O. D.

- 04 : Ø4
- 06 : Ø6
- 08 : Ø8
- 10 : Ø10
- 12 : Ø12

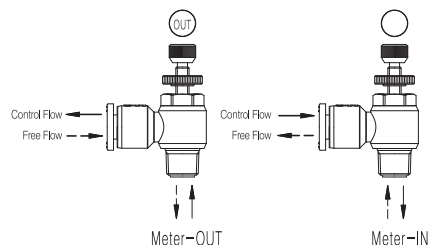
7 Sealant Screw

- S : Sealant

Structural Diagram



Controlled Method(Meter-Out/-In)



Standard Specifications

Fluid Type	Air
Max. Operating Pressure	0~150psi (0~9.9kgf/cm ²)
Ambient and Fluid Temperature	0~60 °C
Applicable Tube O.D	Ø4, Ø6, Ø8, Ø10, Ø12

Series SP

SP Controlled Graph

SN

SP2000

SP4000

SQ

SC

SP

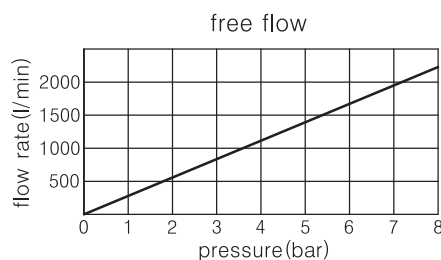
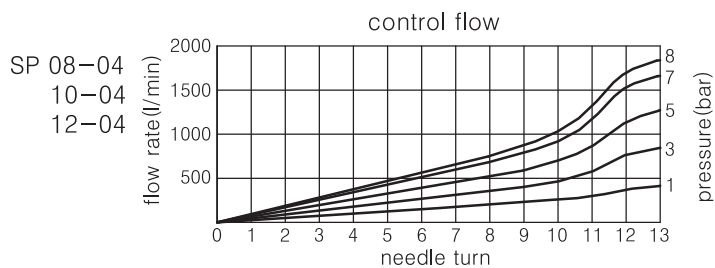
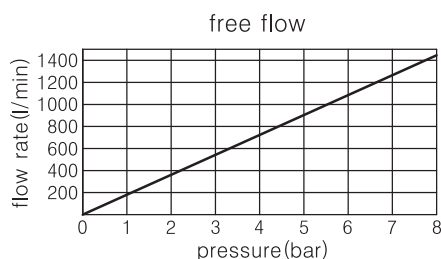
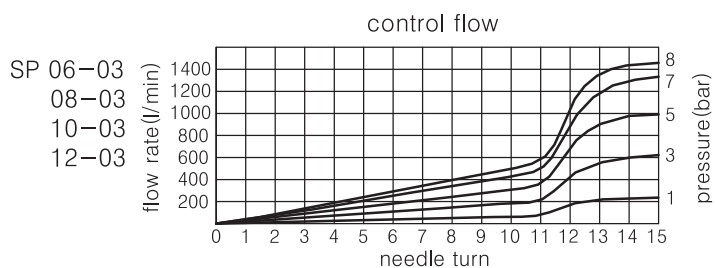
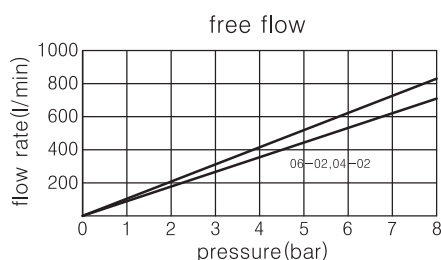
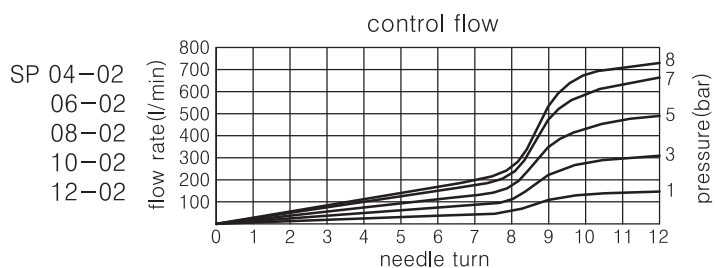
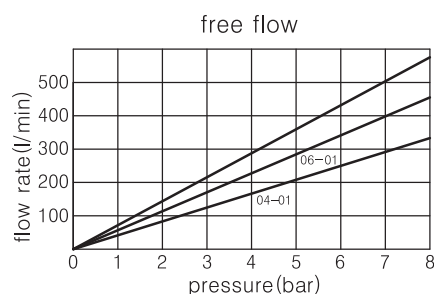
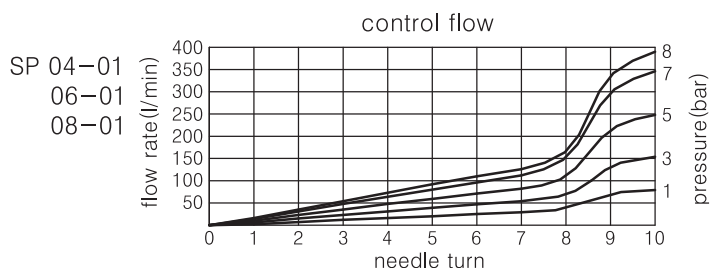
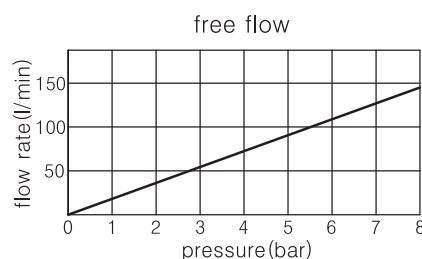
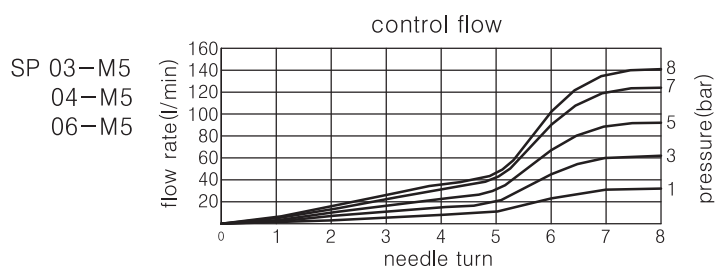
SHF·SHS

DC

SQ2

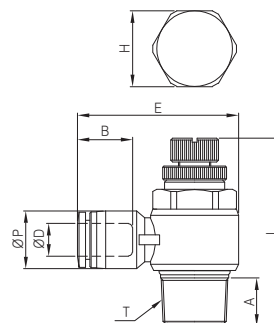
ST

SF



Series SP

SP



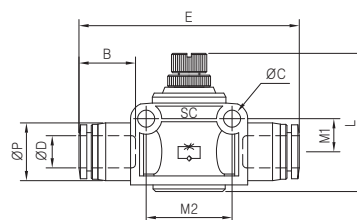
METRIC-BSPT(R)

Unit : mm

MODEL	ØD (Tube Size)	T (Tube Size)	ØP	L		E	A	B	H (Hex.)	Weight (g)
				MIN	MAX					
SP1201F-M5-04	4	M5×0.8	10.5	27.1	29.1	25.4	3.6	14.9	8	9.0
SP2201F-01-04S		R 1/8		35.5	40.7	30.5	8.2		11	20.0
SP2201F-02-04S		R 1/4		40.3	46.6	34.5	11.0		15	36.0
SP1201F-M5-06	6	M5×0.8	12.5	27.1	29.1	27.8	3.6	16.4	8	10.0
SP2201F-01-06S		R 1/8		35.5	40.7	31.3	8.2		11	21.0
SP2201F-02-06S		R 1/4		40.3	46.6	35.3	11.0		15	37.0
SP3201F-03-06S		R 3/8		46.9	54.9	38.8	12.2		19	70.0
SP4201F-04-06S	8	R 1/2	14.5	54.0	60.1	44.9	16.5	18.7	24	108.0
SP2201F-01-08S		R 1/8		35.5	40.7	33.4	8.2		11	22.0
SP2201F-02-08S		R 1/4		40.3	46.6	37.4	11.0		15	38.0
SP3201F-03-08S		R 3/8		46.9	54.9	40.4	12.2		19	71.0
SP4201F-04-08S	10	R 1/2	17.5	54.0	60.1	46.3	16.5	20.1	24	109.0
SP2201F-02-10S		R 1/4		40.3	46.6	38.8	11.0		15	42.0
SP3201F-03-10S		R 3/8		46.9	54.9	42.1	12.2		19	73.0
SP4201F-04-10S	12	R 1/2	20.5	54.0	60.1	47.3	16.5	22.8	24	110.0
SP3201F-03-12S		R 3/8		46.9	54.9	45.2	12.2		19	75.0
SP4201F-04-12S		R 1/2		54.0	60.1	50.1	16.5		24	113.0

Note) The outer dimension of SP××01F(Meter-Out) and SP××11F(Meter-In) are the same.

SPF



METRIC-BSPT(R)

Unit : mm

MODEL	ØD (Tube Size)	ØP	L		E	ØC	B	M1	M2	Weight (g)
			MIN	MAX						
SP100F-04	4	10.5	26.4	28.9	44.8	3.2	14.9	5.6	15.4	13.0
SP200F-06	6	12.5	33.5	37.9	49.6	4.3	16.4	8.0	20.4	28.0
SP205F-08	8	14.8	35.5	41.5	56.4	4.4	18.7	8.5	22.0	45.0
SP300F-10	10	17.5	40.7	48.7	61.4	4.3	20.1	10.3	28.1	84.0
SP300F-12	12	20.5	45.0	53.5	70.3	4.4	22.8	12.1	32.0	123.0

Series **SP**

Speed Controllers

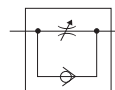
Speed Controllers



Features

- MINIMIZES INSTALLATION TIME AND COST
- BODY SWIVELS 360°
- SPEED CAN BE ACCURATELY CONTROLLED EVEN AT LOW SPEEDS
- CONSTANT SPEED IS EASILY SET

Symbol



How to Order

SPM 1 2 0

1 2 3 4

1 Speed Controller
(Threaded Elbow Type)

2 Port Size
1 : R(c)1/8
2 : R(c)1/4
3 : R(c)3/8
4 : R(c)1/2

3 Type
2 : Direct connection type

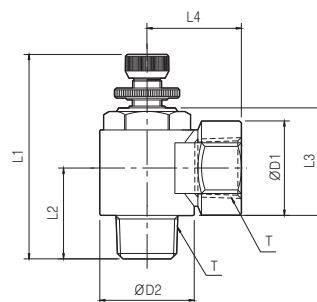
4 Controlled Method
0 : Meter-Out
1 : Meter-In

Standard Specifications

Type		SPM12□	SPM22□	SPM32□	SPM42□
Port Size	Cylinder	R(c)1/8	R(c)1/4	R(c)3/8	R(c)1/2
	Tube	R(c)1/8	R(c)1/4	R(c)3/8	R(c)1/2
Proof Pressure		1.05MPa(149.3psi)			
Max. Operating Pressure		0.7MPa(99.5psi)			
Min. Operating Pressure		0.1MPa(14.2psi)			
Ambient and Fluid Temperature		5~60°C (41~140°F)			
Number of Needle Rotations		8 turns			
Weight(g)		36	74	141	238

Series SP

SPM



METRIC-BSPT(R)

Unit : mm

MODEL	T	L1	L2	L3	L4	D1	D2
SPM120	R(c)1/8	46.4	18.3	18.7	17	14	15
SPM220	R(c)1/4	49.4	23.1	23.2	22	20	20
SPM320	R(c)3/8	58.5	25	29.6	26	26	26
SPM420	R(c)1/2	63.9	27.7	28.3	38.5	27.5	28.3

※ SPM × ×0(Meter-Out) and SPM× ×1(Meter-In) are same dimension.