

Speed controller, elbow with push-in fitting

# SC3W-FP1 Series

● Port size: M5, R1/8 to R1/2

JIS symbol



(Meter-out)



(Meter-in)



Pneumatic, Vacuum and Auxiliary Components  
Catalog No. CB-024SA

## Specifications

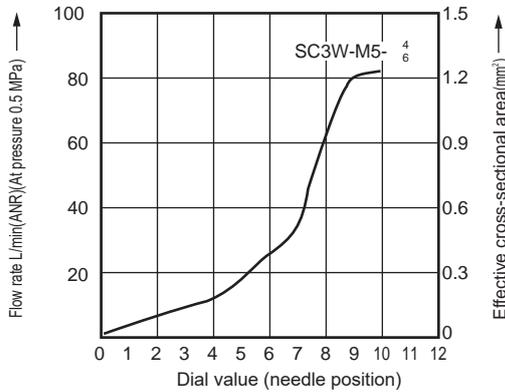
Item	SC3W-M5		SC3W-6			SC3W-8			SC3W-10				SC3W-15	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Applicable tube bore	ø4	ø6	ø4	ø6	ø8	ø6	ø8	ø10	ø6	ø8	ø10	ø12	ø10	ø12
Working fluid	Compressed air													
Max. working pressure	1.0													
Min. working pressure	0.05													
Proof pressure	1.5													
Fluid temperature	5 to 60 (no freezing. *2)													
Ambient temperature	0 to 60 (no freezing)													
Port size	M5		R 1/8			R 1/4			R 3/8				R 1/2	
Weight	8.8	9.6	25	26	27	50	51	54	63.7	75	78	81	134	138
Dial value (needle position)(times)	10End		10 and over			13 and over			13 and over				14 and over	
Free flow	Flow rateL/min (ANR)		87	210	270	270	470	500	530	650	1000	1100	1500	1600
	Effective cross-sectional area mm <sup>2</sup>		1.3	3.2	4.0	4.0	7	7.5	8	10	15	16	22	24
Controlled flow	Flow rateL/min (ANR)		80	190	240	240	430	470	470	650	930	1000	1500	1600
	Effective cross-sectional area mm <sup>2</sup>		1.2	2.8	3.6	3.6	6.5	7	7.0	10	14	15	22	24

\*1: Flow rate is the atmospheric pressure conversion value at pressure 0.5 MPa.

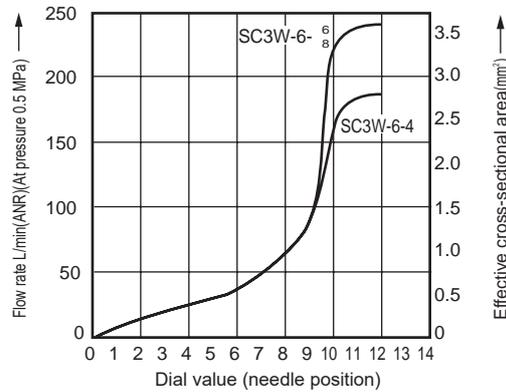
\*2: Freezing may occur due to adiabatic expansion depending on the air quality (dew point).

## Flow characteristics

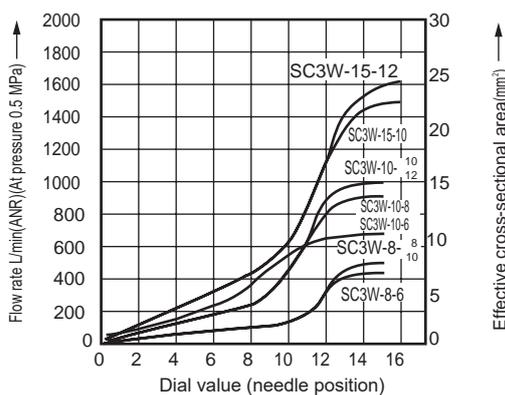
● Standard (port size M3, M5)



● Standard (port size 6)



● Standard (port size 8, 10, 15)



# SC3W-FP1 Series

How to order/Internal structure and parts list

## How to order

**SC3W** - **M5** - **4** - **I** - **FP1**

Model No.

A Port size

B Applicable tube bore

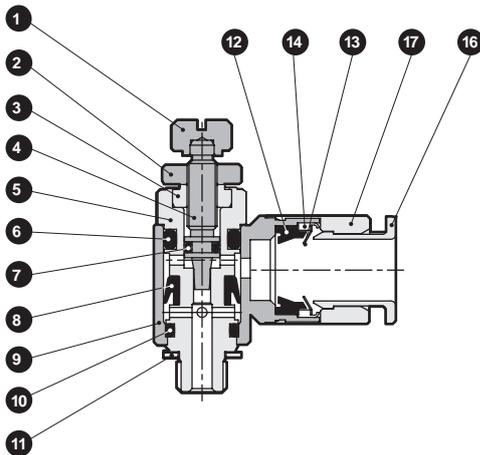
C Option

Code	Description					
<b>A Port size</b>						
M5	M 5 x 0.8					
6	R 1/8					
8	R 1/4					
10	R 3/8					
15	R 1/2					
<b>B Applicable tube bore</b>						
	Piping size					
	M5    6    8    10    15					
4	ø4	●	●			
6	ø6	●	●	●	●	
8	ø8		●	●	●	
10	ø10			●	●	●
12	ø12				●	●
<b>C Option</b>						
Blank	Meter-out					
I	Meter-in (Push ring color: black)					

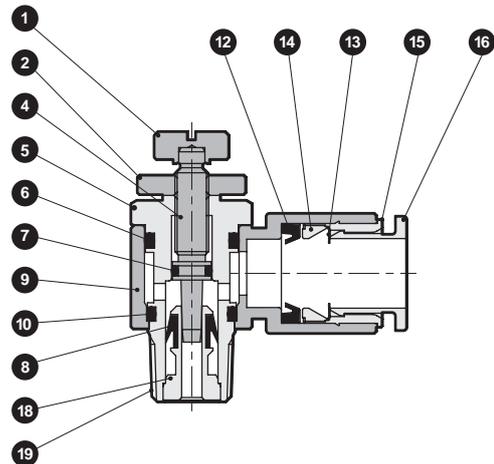
indicates not available.

## Internal structure and parts list

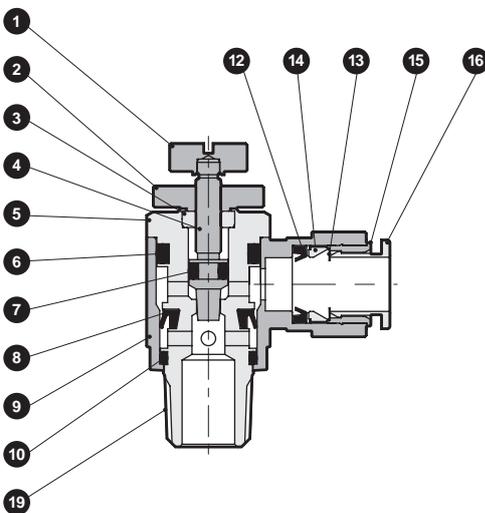
● Port size: M5



● Port size: 6, 10 (ø6 only)



● Port size: 8, 10, 15



Part No.	Part name	Material
1	Knob	Copper alloy
2	Lock nut	Copper alloy
3	Gland nut	Copper alloy
4	Needle	Stainless steel
5	Rotary shaft	Copper alloy
6	O-ring	Nitrile rubber
7	O-ring	Nitrile rubber
8	Packing	Hydrogenated nitrile rubber
9	Rotor	Polybutylene terephthalate (flame-resistant resin *2)
10	O-ring	Nitrile rubber
11	Gasket	Steel + nitrile rubber (M5 only)
12	Packing	Nitrile rubber
13	Chuck	Stainless steel
14	Chuck holder	M5    Copper alloy R1/8 to    Polyetherimide
15	Outer ring	Copper alloy
16	Push ring	Polybutylene terephthalate (flame-resistant resin *2)
17	Fitting body	Copper alloy
18	Check part	Copper alloy
19	Sealant	Fluorinated resin

\*1: All the copper alloy parts have electroless nickel plating.

\*2: UL94 Standards V-0 equivalent

For dimensions, refer to the SC3W Series in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".