



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

Speed controller Medium bore size

# SC1-FP1 Series

● Port size: Rc1/8 to Rc1/2

JISCode



## Specifications

Item	SC1-6	SC1-8	SC1-10	SC1-15
Working fluid	Compressed air			
Max. working pressure MPa	1.0			
Min. working pressure MPa	0.05			
Proof pressure MPa	1.5			
Fluid temperature °C	5 to 60 (no freezing *2) (5°C to 120°C for heat-resistant/ozone-proof specifications)			
Ambient temperature °C	0 to 60 (no freezing) (5°C to 120°C for heat-resistant/ozone-proof specifications)			
Port size Rc	1/8	1/4	3/8	1/2
Weight g	100	95	205	195
Cylinder bore size mm	ø20 to ø50	ø32 to ø75	ø50 to ø140	ø80 to ø160
Dial value (needle position)	10	10	10	10
Free flow	Flow rate L/min (ANR)	730	930	2600
	Effective cross-sectional area mm <sup>2</sup>	11	14	39
Controlled flow	Flow rate L/min (ANR)	530	870	1500
	Effective cross-sectional area mm <sup>2</sup>	8	13	22

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

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

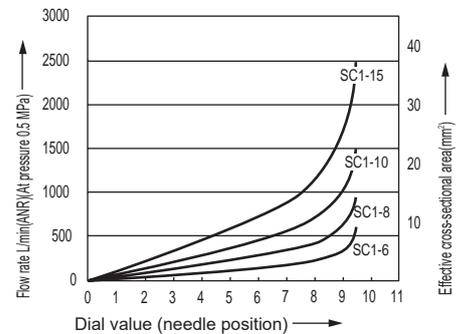
## How to order

SC1 - 6 - FP1

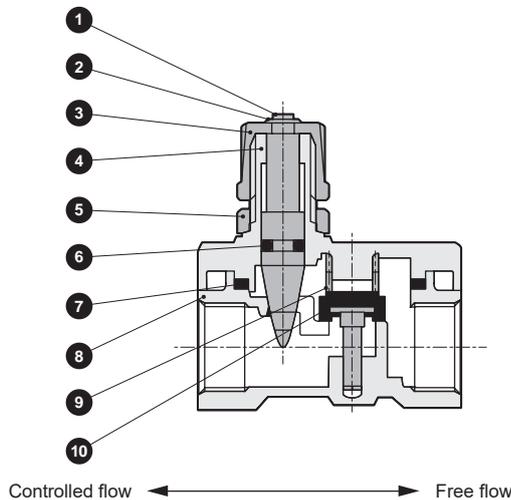
A Port size

Code	Description
<b>A Port size</b>	
6	Rc1/8
8	Rc1/4
10	Rc3/8
15	Rc1/2

## Flow characteristics



## Internal structure and parts list



Controlled flow ← → Free flow

Part No.	Part name	Material
1	Needle	Copper alloy
2	E type snap ring	Steel
3	Knob	Zinc die-casting
4	Needle guide	Aluminum die-casting
5	Lock nut	Zinc die-casting
6	O-ring	Nitrile rubber
7	Gasket	Nitrile rubber
8	Body	Aluminum die-casting
9	Spring	Stainless steel
10	Valve seat	Copper alloy/nitrile rubber

For dimensions, refer to the SC1 Series in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".

Electric actuator  
 Pneumatic cylinders  
 Assistive device  
 Pneumatic valves  
 FRL/Auxiliary Components  
 Electronic Component  
 Vacuum components  
 Main line components  
 Fluid control valves  
 Main line components  
 Anti-bacterial/bacteria-removing filter  
 Vacuum components  
 Fluid control valves