


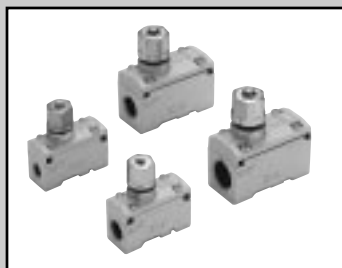
Speed control valve Medium bore size type

SC1 Series

Light weight enables disassembly while piped.

● Port size: Rc1/8 to Rc1/2

JIS symbol 

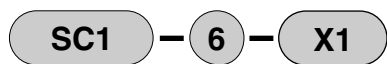


Specifications

Descriptions	SC1-6	SC1-8	SC1-10	SC1-15
Working fluid	Compressed air			
Max. working pressure MPa	1.0			
Min. working pressure MPa	0.05			
Withstanding pressure MPa	1.5			
Fluid temperature °C	5 to 60 (no freezing Note 2) (5°C to 120°C for heat resistance / ozone specifications)			
Ambient temperature °C	0 to 60 (no freezing) (5°C to 120°C for heat resistance / ozone specifications)			
Port size Rc	1/8	1/4	3/8	1/2
Product weight g	100	95	205	195
Applicable cylinder bore size mm	ø20 to ø50	ø32 to ø75	ø50 to ø140	ø80 to ø160
Number of needle turn	10	10	10	10
Free flow	Flow ℓ/min. (ANR)	730	930	2600
	Effective sectional area mm ²	11	14	39
Controlled flow	Flow ℓ/min. (ANR)	530	870	1500
	Effective sectional area mm ²	8	13	22

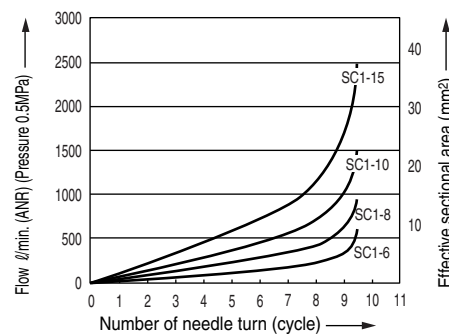
Note 1: Flow rate is the atmospheric pressure conversion value at pressure 0.5MPa.
 Note 2: Freezing could occur by adiabatic expansion depending on air quality (dew point).

How to order



Symbol	Descriptions
A Port size	
6	Rc1/8
8	Rc1/4
10	Rc3/8
15	Rc1/2
B Option	
Blank	No option
X1	Heat resistance (120°C or less)/ ozone specifications
P6	Copper and PTFE free

Flow characteristics

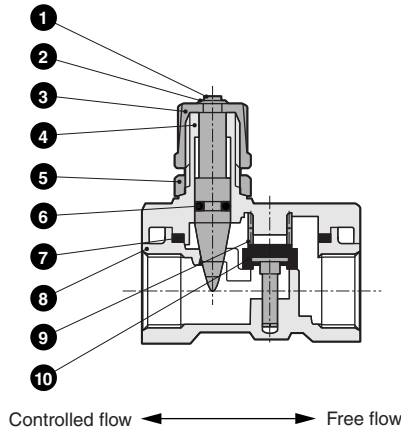


Clean room specifications (catalog No. CB-033SA)

● Dust generation preventing structure for use in cleanrooms

SC1..... P7*

Internal structure and parts list



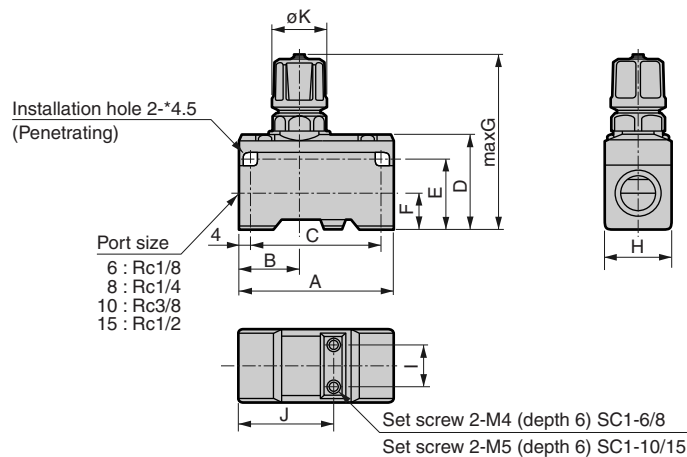
No.	Parts name	Material
1	Needle	Brass
2	E Snap ring	Steel
3	Knob	Zinc alloy die casting
4	Needle guide	Aluminum alloy die-casting
5	Lock nut	Zinc alloy die casting
6	O ring	Nitrile rubber (fluoro rubber)
7	Gasket	Nitrile rubber (fluoro rubber)
8	Body	Aluminum alloy die-casting
9	Spring	Stainless steel
10	Valve seat	Brass, nitrile rubber (brass, fluoro rubber)

Note 1: Materials in () are for heat resistance / ozone specifications

Dimensions



SC1



Model no.	A	B	C	D	E	F	G	H	I	J	K
SC1-6/8	50	20	42	31	23	11	67	22	12	31	19
SC1-10/15	63	21	55	40	31	15	83	30	18	37	23

Safety Precautions

- When using in low pressure range (0.05MPa or less), when piping, etc. before and after the product are restricted excessively, when cylinder speed is rapid, or when differential pressure is small, vibration and sound are easily generated.
- When tightening, do not tighten needle or lock nut section excessively. (Tightening torque approx. 3N·m)

Refrigerating type dryer
Desiccant type dryer
High polymer membrane type dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

Medium bore size type
Speed control valve