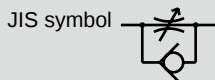




Speed controller Medium bore size Outdoor Series

SC1-W Series

● Port size: Rc1/4 to Rc1/2



Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	SC1-8-W	SC1-10-W	SC1-15-W
Working fluid	Compressed air		
Max. working pressure MPa	1.0 (≈145 psi, 10 bar)		
Min. working pressure MPa	0.05 (≈8 psi, 1 bar)		
Proof pressure MPa	1.5 (≈217 psi, 15 bar)		
Fluid temperature °C	5 (41°F) to 60 (140°F)		
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)		
Port size Rc	1/4	3/8	1/2
Weight g	95	205	195
Cylinder bore size mm	ø32 to ø75	ø50 to ø140	ø80 to ø160
Dial value (needle position)	10	10	10
Free flow	Flow rate l/min (ANR)	930	2600
	Effective cross-sectional area mm ²	14	39
Controlled flow	Flow rate l/min (ANR)	870	1500
	Effective cross-sectional area mm ²	13	22

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

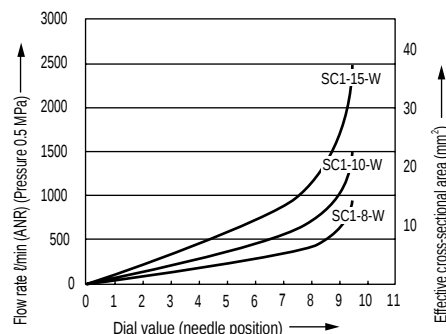
How to order

SC1 - 8 - W

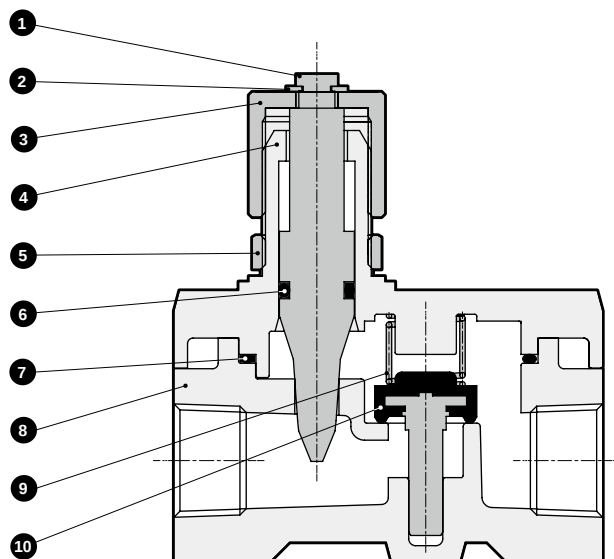
A Port size

Code	Description
A Port size	
8	Rc1/4
10	Rc3/8
15	Rc1/2

Flow characteristics



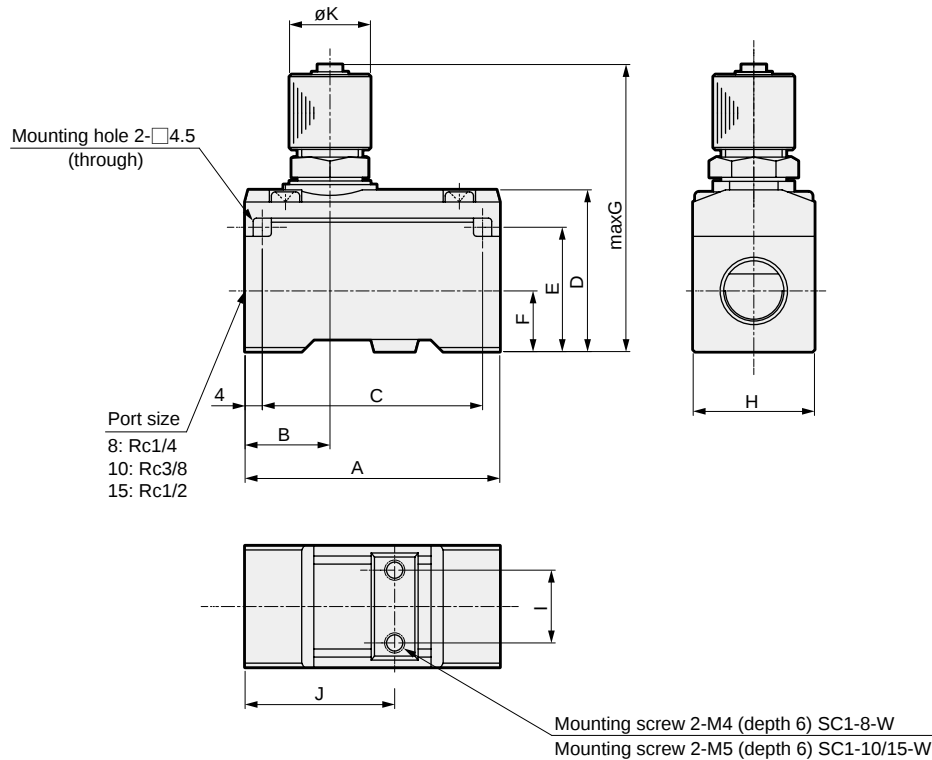
Internal structure and parts list



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

Dimensions

● SC1-W



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

Safety precautions

■ Design/selection

⚠ WARNING

- This product is for industrial use. Do not use for medical purposes, or in any equipment or circuit that concerns human life.

■ Working environment

- This product has outdoor specifications, but should not be used in the following environments.
 - When the ambient temperature and product temperature exceed the range of -10 to 60°C. (The product temperature is at risk of exceeding the ambient temperature when exposed to direct sunlight.)
 - Where air freezes.
 - In atmospheres containing corrosive gases, liquids and chemicals.
 - Locations with vibration or impact.

■ Mounting, installation and adjustment

⚠ CAUTION

- When tightening, do not tighten the needle or lock nut section excessively.
(Tightening torque approx. 3 N·m)

■ Use/maintenance

⚠ WARNING

- Do not disassemble.

⚠ CAUTION

- When operating in the low pressure range (0.05 MPa or less), or when the piping, etc., before and after the product is excessively constricted, note that vibrating sounds can be easily generated at fast cylinder speeds or low differential pressure.

■ Working fluids

- Use only compressed air. Air containing corrosive gases, fluids, or chemicals could result in body damage or rubber deterioration.

■ Others

- This product is guaranteed for outdoor use, but not corrosion resistance (no rust or discoloration).

⚠ CAUTION

- Do not apply a load to the product outside the parameters of use.
(Do not climb/step onto the product.)