

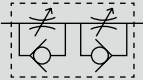
Miniature meter-in meter-out speed controller

SCD-M3/M5 Series

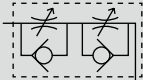
Compact, lightweight and thin body. Speed control valve for air supply and exhaust.

JIS symbol

● SCD-M*-S
(straight)



● SCD-M*-A
(adjustable)



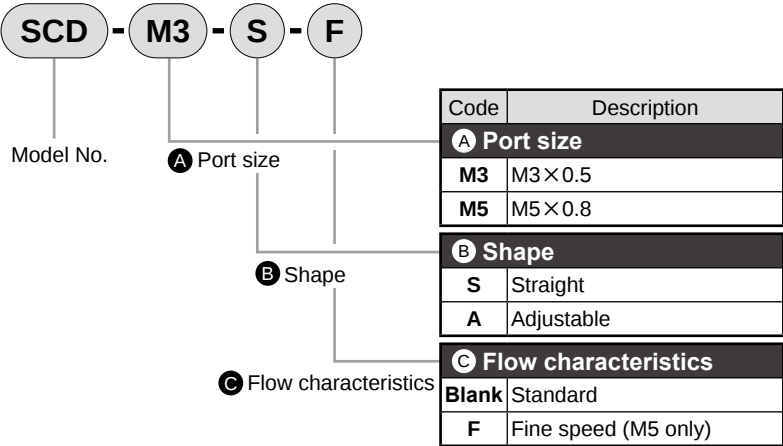
Specifications

Item	SCD-M3-S	SCD-M3-A	SCD-M5-S	SCD-M5-A	SCD-M5-S-F	SCD-M5-A-F
Working fluid	Compressed air					
Max. working pressure MPa	0.7 (≈100 psi, 7 bar)					
Min. working pressure MPa	0.1 (≈15 psi, 1 bar)					
Proof pressure MPa	1.05 (≈150 psi, 10.5 bar)					
Fluid temperature °C	5 (41°F) to 60 (140°F) (no freezing. *1)					
Ambient temperature °C	0 (32°F) to 60 (140°F) (no freezing)					
Port size	M3×0.5		M5×0.8			
Cylinder bore mm	ø4 to ø8		ø6 to ø25			
Dial value (needle position)	10				14	
Weight g	3.1	3.9	10	11.7	10.8	12.5
Control flow rate ℓ/min(ANR)	13		37		6.7	
Eff. X-sectional area mm ²	0.2		0.55		0.1	

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

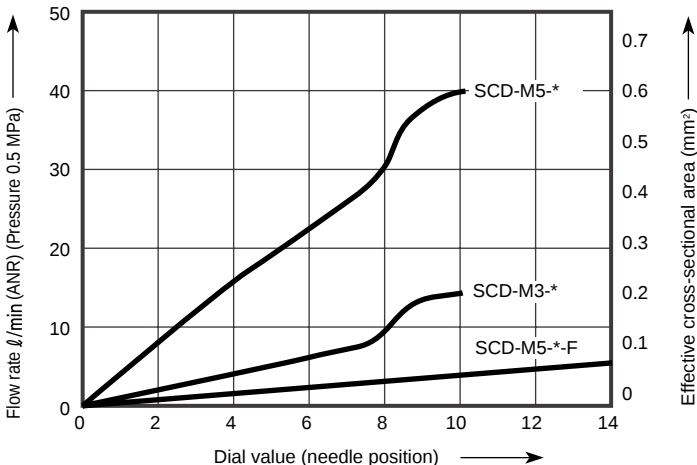
*2: Flow rate is the atmospheric pressure conversion at 0.5 MPa.

How to order



*1: For fine speed, the lock nut exterior is blue.

Flow characteristics

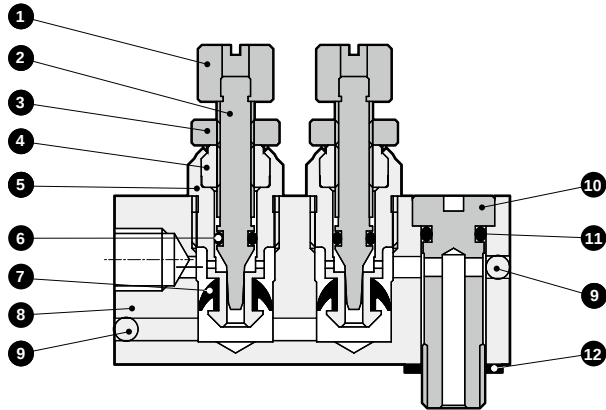


SCD-M3/M5 Series

Internal structure/external dimensions

Internal structure and parts list

● Adjustable



No.	Part name	Material
1	Knob	Aluminum alloy
2	Needle	Stainless steel
3	Lock nut	Aluminum alloy
4	Needle guide	Aluminum alloy (Fine speed is stainless steel)
5	Check bracket	Aluminum alloy
6	O-ring	Nitrile rubber
7	Packing	Hydrogenated nitrile rubber
8	Body	Aluminum alloy
9	Steel ball	Stainless steel
10	Bolt	Copper alloy
11	O-ring	Nitrile rubber
12	Gasket	Steel + nitrile rubber

*1: For the outside of handle, one side is painted with black.
(For adjustable, black indicates meter-in)

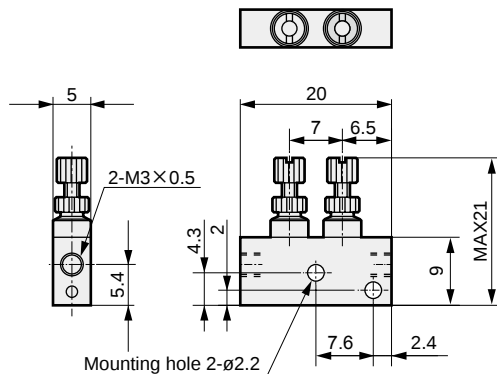
*2: The materials are the same for the straight (without 10 11 12).

*3: Copper alloy parts have electroless nickel plating.

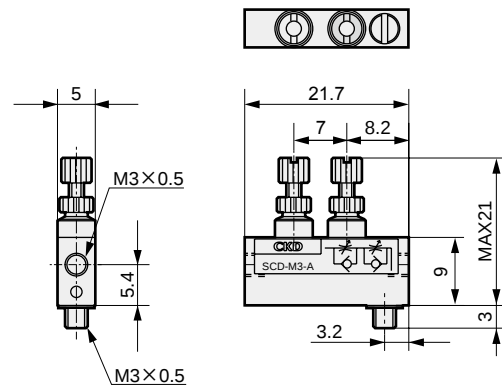
Dimensions



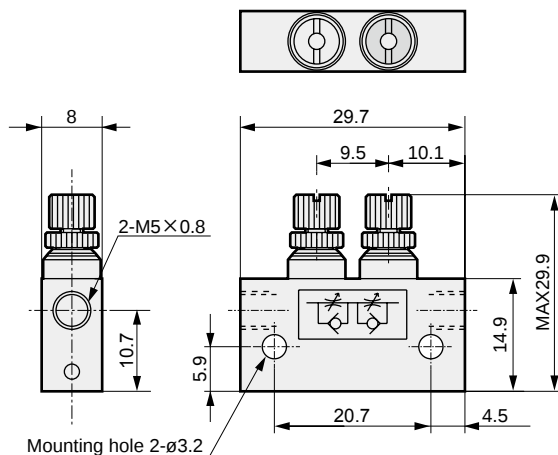
● SCD-M3-S (straight)



● SCD-M3-A (adjustable)



● SCD-M5-S (straight)



● SCD-M5-A (adjustable)

