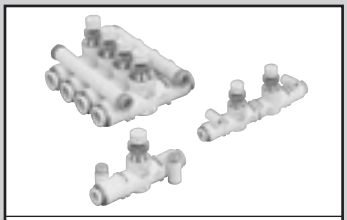
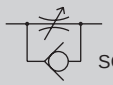


Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Speed controller Line type with push-in fitting

SCL2-FP1 Series

● Port size: ø4, ø6, ø8, ø10, ø12

JISCode  SCL2 Series

RoHS CAD

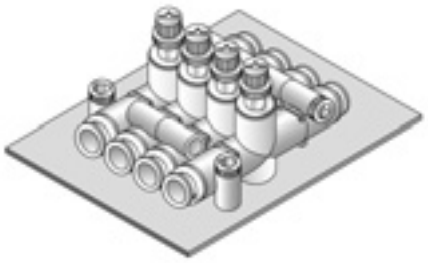
Overview

● The SCL2 Series is an inline speed controller useful for remote or centralized actuator control.

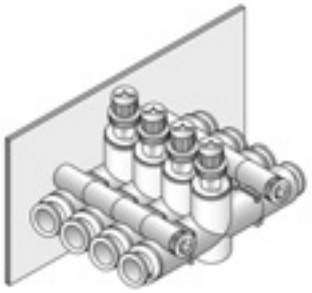
Features

Unrestricted mounting

The mounting area rotates by 360°, enabling mounting and installation method to be from base, side, or panel. Mounting brackets are not required.



Example of base mounting



Example of wall mounting

Example of panel mounting

Large flow rate with compact

The max. flow rate achieved even with a compact body extends the selection range for cylinder size and speed control.

Push-in connection

Push-in fittings simplify tubing connections.

Ozone-resistant materials as standard

Ozone-resistant materials are used as standard for check packing to prevent deterioration of product.

Flame-resistant resin as standard

(UL94 Standards V-0 equivalent)

Specifications

● Speed controller Line type SCL2

Model No.			SCL2-04	SCL2-06	SCL2-08		SCL2-10		
Applicable tube bore		mm	ø4	ø6	ø6	ø8	ø8	ø10	ø12
Working fluid			Compressed air						
Max. working pressure		MPa	1.0						
Min. working pressure		MPa	0.1						
Proof pressure		MPa	1.5						
Fluid temperature		°C	5 to 60 (no freezing *2)						
Ambient temperature		°C	0 to 60 (no freezing)						
Weight		g	11.5	16	32	33	53	57	59
Dial value (needle position)			12 [15]						
Free flow	Flow rate	L/min (ANR)	130	300	400	550	900	1100	1200
	Effective cross-sectional area	mm²	1.9	4.5	6	8	13.5	16.5	18
Controlled flow	Flow rate	L/min (ANR)	130	300	400	550	900	1100	1200
	Effective cross-sectional area	mm²	1.9	4.5	6	8	13.5	16.5	18

*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).

⚠ Refer to (Pneumatic, Vacuum and Auxiliary components (CB-024SA)) for the safety precautions of the SCL2 Series.

How to order

● Speed controller Line type

SCL2 - 04 - H44 - FP1

Model No.

Ⓐ Body size

Ⓑ Applicable tube bore

Code	Description
Ⓐ Body size	
04	M5 thread equivalent
06	1/8 thread equivalent
08	1/4 thread equivalent
10	3/8 thread equivalent
Ⓑ Applicable tube bore	
H44	ø4
H66	ø6
H88	ø8
H1010	ø10
H1212	ø12

Refer to the table at right for body size, compatible tube O.D., and flow characteristic combinations.

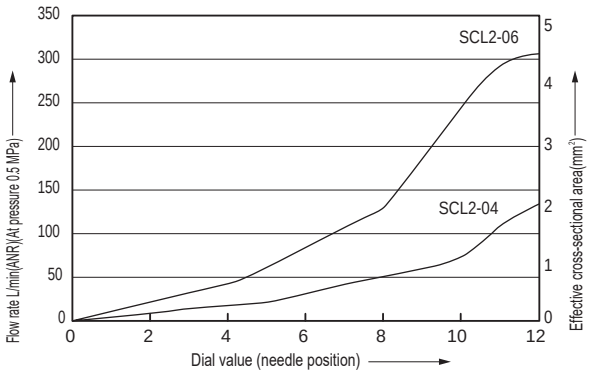
Combination of body size, compatible tube O.D., and flow characteristics

Ⓑ Applicable tube bore			Ⓐ Body size 04	06	08	10
	H44	ø4	●			
	H66	ø6		●	●	
	H88	ø8			●	●
	H1010	ø10				●
	H1212	ø12				●

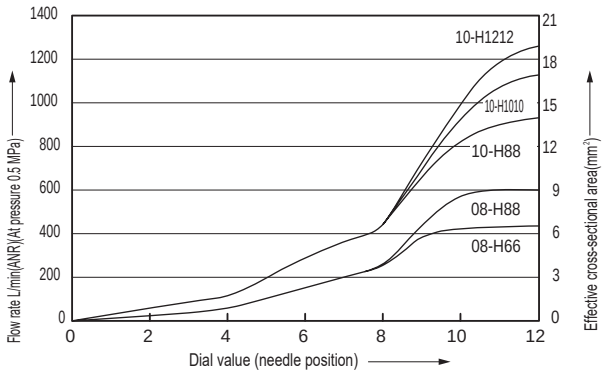
● Flow characteristics "standard"
Not available

Flow characteristics

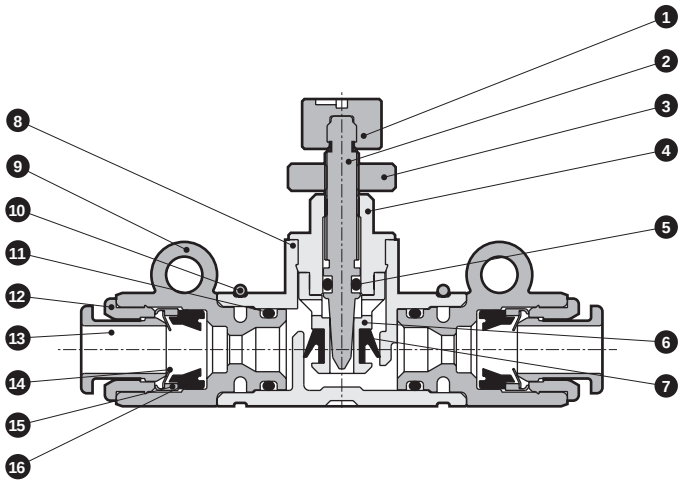
● Standard
SCL2-04, SCL2-06



● Standard
SCL2-08, SCL2-10



Internal structure and parts list



Part No.	Part name	Material
1	Knob	Polybutylene terephthalate
2	Needle	Copper alloy
3	Lock nut	Copper alloy
4	Guide ring	Copper alloy
5	O-ring	Nitrile rubber
6	Check bracket	Copper alloy
7	Check packing	Hydrogenated nitrile rubber
8	Body	Polybutylene terephthalate
9	Joint case	Polybutylene terephthalate
10	Stopper ring	Stainless steel
11	O-ring	Nitrile rubber
12	Outer ring	Copper alloy
13	Push ring	Polybutylene terephthalate
14	Chuck	Stainless steel
15	Holder	Copper alloy or polyetherimide
16	Packing	Nitrile rubber

*1 All the copper alloy parts have electroless nickel plating.
*2 All resin parts are flame-resistant. (UL94 Standards V-0 equivalent)

For dimensions, refer to the SCL2 Series in "Pneumatic, Vacuum and Auxiliary Components (CB-024SA)".