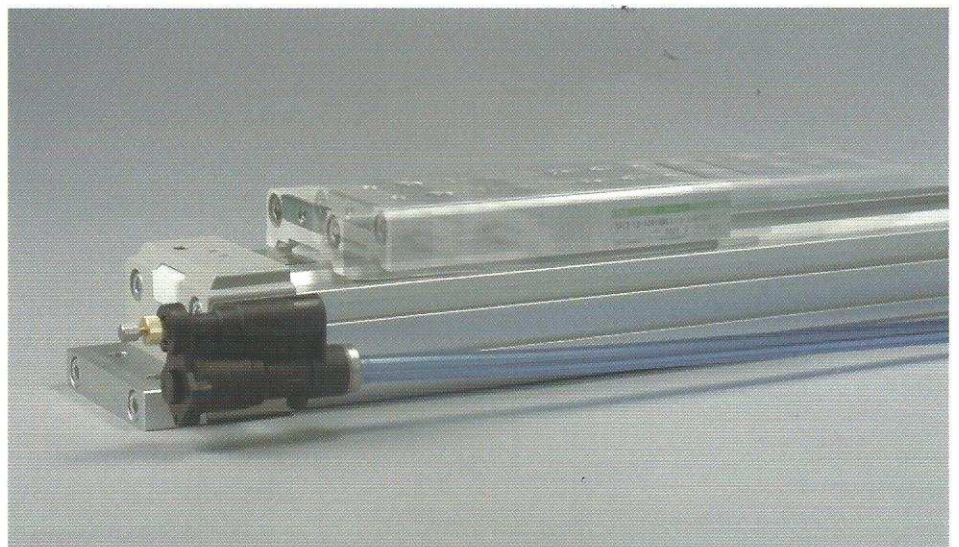


Cushion Controller

(The former Production Name: Super Speed Controller)



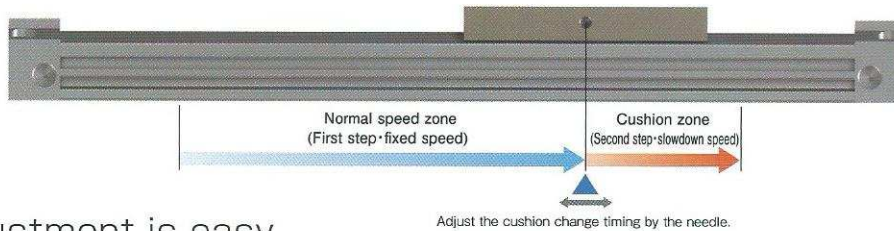
**Cylinder cushion (Decrease speed regulation)
can be done by one needle
with new original mechanism
development of THD**



As we realized the two steps of cylinder speed, we can control the same as the shock absorber.

Characteristics

- Contribution to the simplified mechanical equipment.
- Reduction of collision noise & vibration of cylinder.
- Resolution of oil drop at shock absorber.



The adjustment is easy.

- We fixed the second step slowdown of cylinder. And we can set it freely after we regulate the only one needle for the change timing.

We can make the cycle time short.

- The first step cylinder speed is high speed(normal speed) by the direct flow. The second step is the reduction setting by the flow control.

We can adjust the change timing of the cylinder speed.

- After adjusting the change timing of the cylinder speed, you can slowdown from the cylinder middle position.
- When you slowdown from the cylinder middle position, you can control the cylinder middle stop. (※ You need the mechanical stopper in case of this.)

It is possible to use with the shock absorber.

Variation

By the construction of simple fixed type constant flow, we can prepare with three kind of inside orifice diameter. Then you can select High/Middle/Low of cushion zone. (Please refer to the below illustration.)

Panel attached type

(The most suitable for the concentrated control of multiple air cylinder.)

Cylinder direct attached type

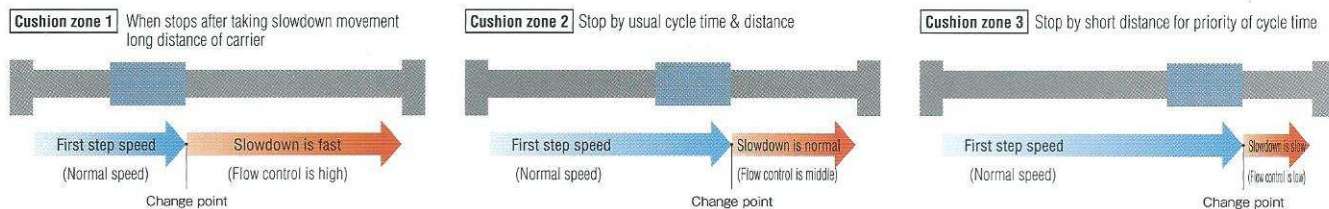
(The most suitable for the fixed certification of control equipment speed.)

Relay type

(You can attach this easily after cutting the air tube and the direction is free for 360° rotation at connection unit.)

For example of cushion zone(the second step)

In case of the stop at the cylinder end. (Change position determination by all adjustment needle.)



※ For control first step speed, please control it by the speed controller.

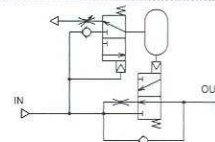
When use both the cushion controller(slowdown) and speed controller, please attach them between the cylinder and the cushion controller.

When the direct type, please exchange it to the panel attached type or the relay type.

Specifications

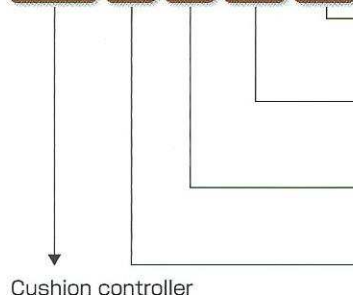
Use fluid	compression air
Use compressure range	0.3~0.7 Mpa
Use temperature range	0~60°C(without frozen)

Air pressure symbol



Meter out control

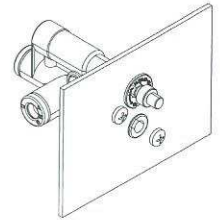
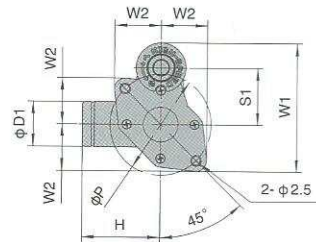
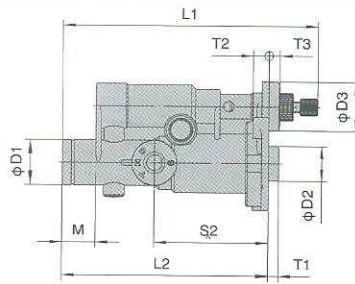
Order indication symbol



Symbol	1	2	3	
Cushion zone(distance)	High(long)	Middle	Low(short)	
Symbol	01	02		
Male screw size (Cylinder direct attached type only)	R1/8	R1/4		
Symbol	4	6	8	10
Tube external ϕ (mm)	$\phi 4$	$\phi 6$	$\phi 8$	$\phi 10$
Applicable cylinder tube inner ϕ (mm)	$\phi 16 \sim \phi 32$	$\phi 25 \sim \phi 63$	$\phi 32 \sim \phi 80$	$\phi 63 \sim \phi 125$
Symbol	No symbol	L	U	
Shape	Panel attached type	Cylinder direct attached type	Relay type	

External measurement figure

Panel attached type

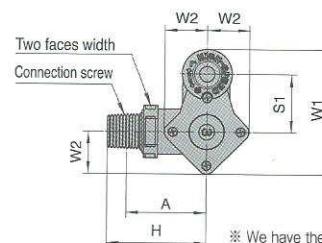
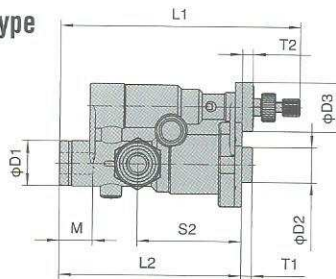


※ Fix to the panel installation (panel thickness 2.0mm) with accessory M3 tapping screw.

Type	Tube external diameter	φD1	φD2	φD3	L1 max	L2	T1	T2	T3
SPC- 4	4	11.1	10	14.3	77.3	58.4	3	4.5	3.3
SPC- 6	6	13			78.2	59.3			
SPC- 8	8	15.4			81.5	62.5			
SPC-10	10	17.2			82.4	63.4			

Type	S1	S2	W1	W2	H	φP	M	Weight(g)
SPC- 4	16.4	32.7	36.9	13.3	21.8	29	8.5	35
SPC- 6					22.7		9.5	37
SPC- 8	18.9	35.5	40.8	14.7	27.4	33	10.9	49
SPC-10		35.3			28.9		11.8	50

Cylinder direct attached type

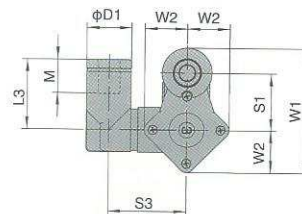
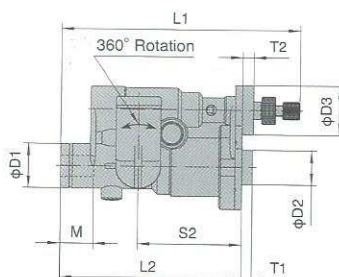


※ We have the metal specifications at the connection screw part too.

Type		Tube external diameter	Connection screw	Two faces width	φD1	φD2	φD3	L1 max	L2
SPCL- 4	- 01	4	1/8	13	11	10	14.3	72.2	50.8
	- 02		1/4	14					
SPCL- 6	- 01	6	1/8	13	13			73.5	52.1
	- 02		1/4	14					
SPCL- 8	- 01	8	1/8	13	15			75.9	54.5
	- 02		1/4	14					
SPCL- 10	- 01	10	1/8	13	16.8			82.6	61.2
	- 02		1/4	14					

Type		T1	T2	S1	S2	W1	W2	H	A	M	Weight(g)
SPCL- 4	- 01	3	3.3	16.4	29.8	35.7	12.2	28.6	22.8	8.5	29
	- 02							30.1	24.6		32
SPCL- 6	- 01							28.6	22.8	9.5	30
	- 02							30.1	24.6		33
SPCL- 8	- 01							28.6	22.8	10.9	31
	- 02							30.1	24.6		34
SPCL- 10	- 01							28.6	22.8	11.8	33
	- 02							30.1	24.6		36

Relay type



Type	Tube external diameter	φD1	φD2	φD3	L1 max	L2	L3	M
SPCU- 4	4	11	10	14.3	72.2	50.8	18.7	8.5
SPCU- 6	6	13			73.5	52.1	20.0	9.5
SPCU- 8	8	15			75.9	54.5	22.9	10.9
SPCU- 10	10	16.8			82.6	61.2	24.5	11.8

Type	T1	T2	S1	S2	S3	W1	W2	Weight(g)
SPCU- 4	3	3.3	16.4	29.8	24.3	35.7	12.2	31
SPCU- 6					24.4			33
SPCU- 8					25.3			35
SPCU- 10					26.4			38