2-stage Speed Controller 2-stage exhaust flow control valve with shock absorbing function (Patent  $\triangle$ Safety instructions for this product no. 5578502) Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website. Model Designation (Example) BJS 6 Model Designation of Accessory (Example)  $\overline{(2)}$   $\overline{(3)}$ (1)



- (2) Type
- U: Union Straight
- (3) Tube dia. (øD)

■Standard t	уре								■High-flow t	ype			
mm size (mm)				inch size (inch)				mm size (mm)		Appli			
Code	4	6	8	10	5/32	1/4	5/16	3/8	Code	<b>4</b> H	6H	8H	mode
Tube O.D.	ø4	ø6	ø8	ø10	ø5/32	ø1/4	ø5/16	ø3/8	Tube O.D.	ø4	ø6	ø8	

(1) (2)
) Bracket for 2-stage Speed Controller
<b>X A P P</b>

#### (2) Applicable model size

BJSB 6

(1

Code	4	6	8	10
Annliaghla	BJSU4	BJSU6	BJSU8	BJSU10 BJSU3/8 BJSU8H
	BJSU5/32	BJSU1/4	BJSU5/16	BJSU3/8
		BJSU4H	BJSU6H	BJSU8H

## Characteristics

#### The function of a shock absorber is built in the Speed Controller for double-acting actuators. Shock absorber is not required. With realized 2-stage exhaust flow adjustment, a similar control as a shock absorber becomes possible.

## Adjustment of shock absorbing function is possible.





### It is possible to shorten traveling (cycle) time as long as conventional shock absorbing (cushion) property is same.\*

\*Conventional shock absorbing property means shock absorbing by reducing the cylinder speed by a cylinder mounting type shock-absorber installed close to the stroke end. e.g. Actuate 80% of cylinder stroke at the speed of twice as fast as the regular speed of a conventional standard speed controller, then actuate the last 20% of the stroke at the regular speed.



Zinl Product

# 2-stage Speed Controller

#### High-flow type is available for tube size: ø4, ø6, ø8mm. Large flow type can be used for applicable cylinder tube bore of one size up.

# Adjustable the stroke of shock absorbing (cushion) property.

It is possible to apply the cushion property at the middle position of the cylinder that a shock absorber cannot reach.

## Two fixing methods are selectable.

·Fixing with a bracket



Bracket

# Specifications

Fluid medium	Air
Operating pressure range	0.2 to 1.0 MPa
Operating temp. range	0 to 60°C(No freezing)

# Sectional drawing



No,	Parts	Material			
(1)	Timer (TIM) needle	Special stainless steel			
(2)	Speed (EX1) needle	Nickel-plated brass			
(3)	Cushion(EX2) needle	Nickel-plated brass			
(4)	Inner ring	Nickel-plated brass			
(5)	Resin body	PBT			
(6)	Diaphragm	HNBR			
(7)	Release-ring	POM			
(8)	Guide ring	Nickel-plated brass			
(9)	Lock claws	Stainless steel			
(10)	Elastic sleeve	NBR			
(11)	Valve retainer	Aluminum			
(12)	Valve element	HNBR			
(13)	Spring	Stainless steel			
(14)	Stopper ball	Stainless steel			
(15)	Main spool O-ring	HNBR			
(16)	Main valve spool	Aluminum			
(17)	Main spool guide	Aluminum			
(18)	Silencer	PVF			
(19)	Needle guide	Nickel-plated brass			
(20)	Lock nut	Aluminum			
(21)	Knob	Nickel-plated brass			
(22)	Spool seal packing	HNBR(*)			
(23)	Fixed O-ring	NBR			
*NBR	for BJSU6 and BJSU8				

\*NBR for BJSU6 and BJSU8.

#### RoHS2 (2011/65/EU+EU2015/863) compliant

Туре	Model code BJSUøD	Applicable cylinder tube I.D. (mm)	Туре	Model code BJSUøDH	Applicable cylinder tube I.D. (mm)		
Union Straight	BJSU4	ø20	Union Straight	BJSU4H	ø25		
BJSU	BJSU6	ø25	High-flow type	BJSU6H	ø32		
	BJSU8	ø32	BJSU	BJSU8H	ø50		
	BJSU10	ø50					
	BJSU <sup>5</sup> / <sub>32</sub>	ø20					
OD OD	BJSU <sup>1</sup> /4	ø25	øD				
øD	BJSU <sup>5</sup> /16	ø32	øD				
()	BJSU <sup>3</sup> /8	ø50					
Accesso	nv/						
7,0000000	, y		Notes				
Type Model code		1. Applicable max. cylinder tube bore is the max. bore when using with pressure supply: 0.5MPa and cylinder speed:					
Bracket	BJSB4		500mm/sec.		, ,		
BJSB	BJSB6	*2. Release-ring color: White for inch type					
	BJSB8	CAD data is available at PISCO website.					
	BJSB10						
			Packaging specific 1 pc. /bag	ations			