

A speed controller that enables same control as the cylinder with shock absorber.

2-stage Speed Controller

**New
Lineup**

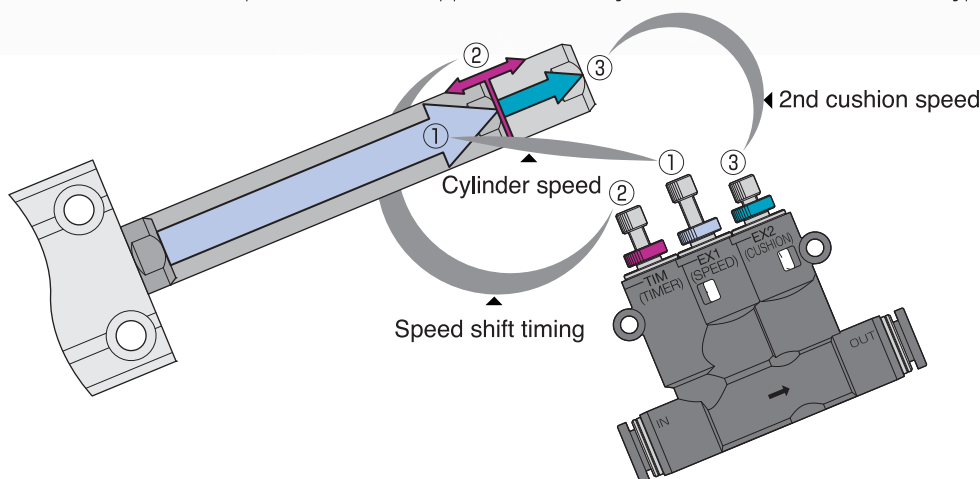


Patent no. 5578502

Characteristics

■ **The new variation** of 2-stage speed controller, that enables the 2-stage control of cylinder speed by three needle operations, will be introduced.

- ▶ Applicable tube dia.: $\phi 10$ mm and $\phi 3/8$ inch size are added. Max. cylinder tube bore. : $\phi 50$ mm.
- ▶ Large flow type, that can be used for applicable cylinder tube bore of one size up, are added. (Tube size: $\phi 4$, $\phi 6$, $\phi 8$ mm)
Please refer to the below comparison table of applicable max. cylinder tube bore of standard type and large flow type.



■ Comparison table of applicable max. cylinder tube bore of standard type (conventional type) and large flow type

Standard type (conventional model)	
Model code	Applicable max. cylinder tube bore (mm)
BJSU4	$\phi 20$
BJSU6	$\phi 25$
BJSU8	$\phi 32$



Large flow type	
Model code	Applicable max. cylinder tube bore (mm)
BJSU4H	$\phi 25$ (Available for one size up, compared to conventional type.)
BJSU6H	$\phi 32$ (Available for one size up, compared to conventional type.)
BJSU8H	$\phi 50$ (Available for two size up, compared to conventional type.)

■ Classified the three **rock nuts** by **color** according to the roles. It **enables reliable operation**.

Model Designation (Example)

BJS U 4H

① Tube dia.

	Standard type								Large flow type		
	mm				inch				mm		
Code	4	6	8	10	5/32	1/4	5/16	3/8	4H	6H	8H
Tube dia. (mm)	ø4	ø6	ø8	ø10	ø3.97	ø6.35	ø7.94	ø9.53	ø4	ø6	ø8
Max. Cylinder bore (mm)	ø20	ø25	ø32	ø50	ø20	ø25	ø32	ø50	ø25	ø32	ø50

Type: U (Union Straight)

2-stage Speed Controller

Model Designation of Accessory (Example)

BJS B 6

① Tube dia.

Code	6	8	10
Applicable models	BJSU4H	BJSU6H	BJSU10 BJSU3/8 BJSU8H

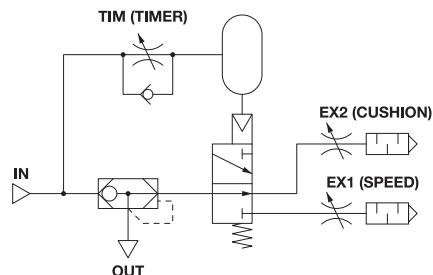
Bracket

2-stage Speed Controller

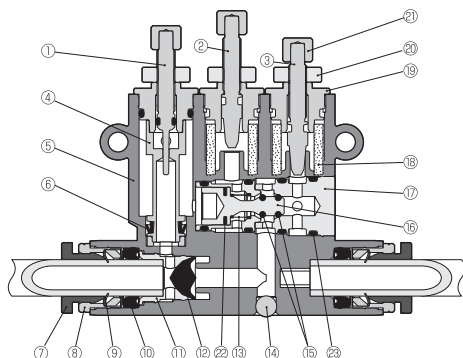
Specifications

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

Pneumatic Symbol



Construction



No.	Parts	Material
①	Timer (TIM) needle	Special stainless steel
②	Speed (EX1) needle	Electroless nickel-plated brass
③	Cushion (EX2) needle	Electroless nickel-plated brass
④	Inner ring	Electroless nickel-plated brass
⑤	Resin body	PBT
⑥	Diaphragm	HNBR
⑦	Release-ring	POM
⑧	Guide-ring	Electroless 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	Stainless steel (※1)
⑮	Main spool O-ring	HNBR
⑯	Main valve spool	Aluminum
⑰	Main spool guide	Aluminum
⑱	Silencer	PVF
⑲	Needle guide	Electroless nickel-plated brass
⑳	Lock nut (*3)	Aluminum
㉑	Knob	Electroless nickel-plated brass
㉒	Spool seal packing	NBR (※2)
㉓	Fixed O-ring	NBR

※1. Electroless nickel-plated brass for tube O.D ø10mm / ø3/8inch of standard type and ø8mm of large flow type.

※2. HNBR for tube O.D ø4mm and ø5/32inch.

※3. Classified the rock nut by color according to the roles of needles.

Needle	Timer needle (TIM)	Speed needle (EX1)	Cushion needle (EX2)
Rock nut color	Pink	Silver	Blue

Exhaust flow characteristic

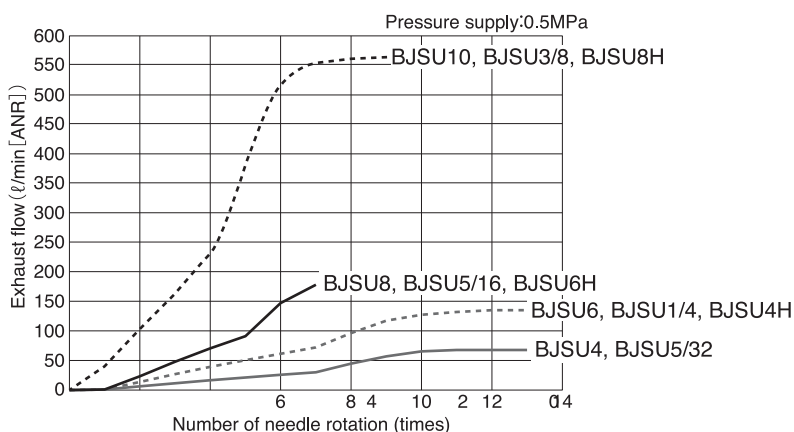


Table of applicable max. cylinder tube bore

Model code	Applicable max. cylinder tube bore (mm)
BJSU4	ø20
BJSU6	ø25
BJSU8	ø32
BJSU10	ø50
BJSU5/32	ø20
BJSU1/4	ø25
BJSU5/16	ø32
BJSU3/8	ø50
BJSU4H	ø25
BJSU6H	ø32
BJSU8H	ø50

Applicable max. cylinder tube bore is the max. bore when using with pressure supply: 0.5MPa and cylinder speed: 500mm/sec.

※Please contact PISCO for safety instructions and detailed specifications.



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