No. IFP 17-04e

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

2-stage Speed Controller

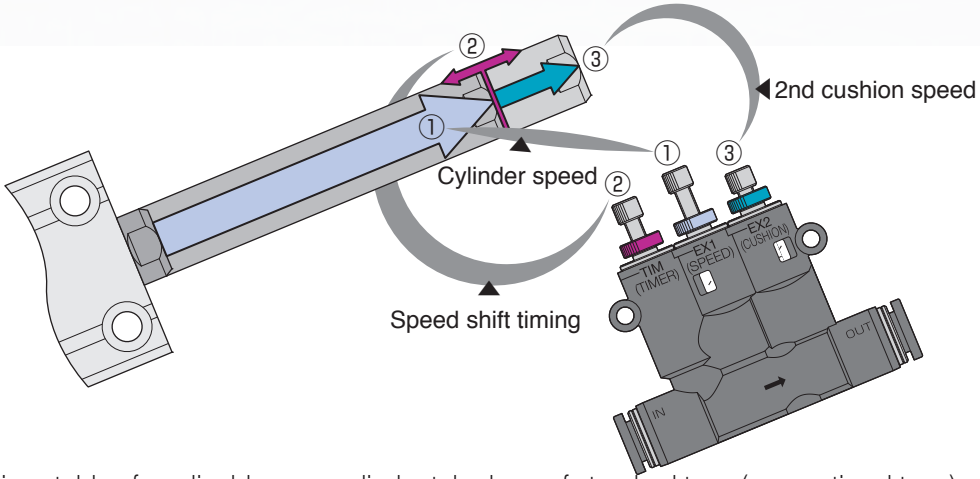
New Lineup

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.: ϕ10mm and ϕ3/8 inch size are added. Max. cylinder tube bore. : ϕ50mm.
- Large flow type, that can be used for applicable cylinder tube bore of one size up, are added. (Tube size: ϕ4, ϕ6, ϕ8mm) 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)			Large flow type	
Model code	Applicable max. cylinder tube bore (mm)		Model code	Applicable max. cylinder tube bore (mm)
BJSU4	ø20	→	BJSU4H	ø25 (Available for one size up, compared to conventional type.)
BJSU6	ø25	→	BJSU6H	ø32 (Available for one size up, compared to conventional type.)
BJSU8	ø32	→	BJSU8H	ø50 (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

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

Secifications

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

Model Designation of Accessory (Example)

BJS B 6 ①

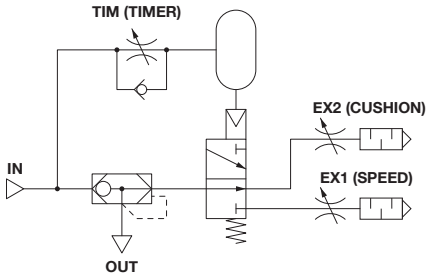
① Tube dia.

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

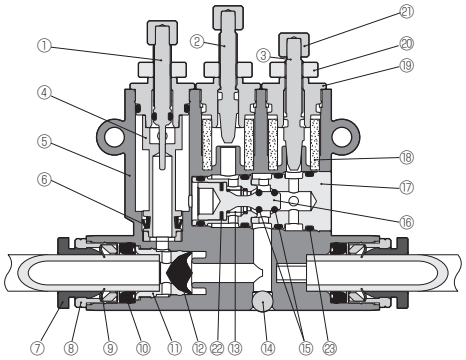
Bracket

2-stage Speed Controller

Pneumatic Symbol



Construction

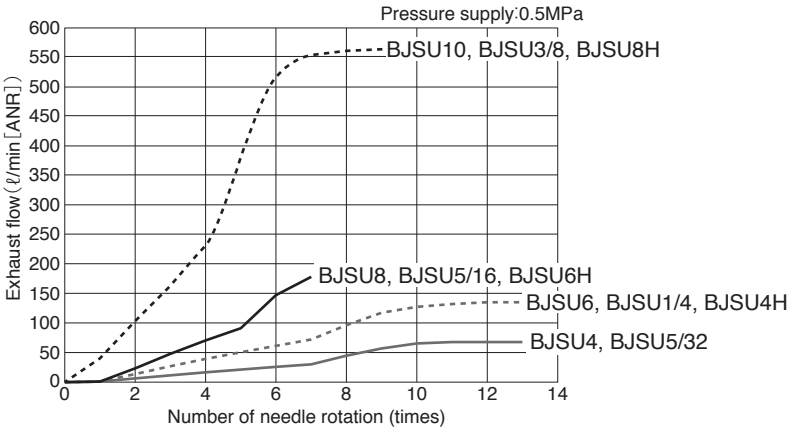


No.	Parts	Material
①	Timer (TIM) needle	Special stainless steel
②	Speed (EX1) needle	Electroless nickel-plated brass
③	Cushion (EX2) needle	Electroless nickel-plated brass
④	Inner ring	Electroless nickel-plated brass
⑤	Resin body	PBT
⑥	Diaphragm	HNBR
⑦	Release-ring	POM
⑧	Guide-ring	Electroless nickel-plated 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)
Standard type	BJSU4	ø20
	BJSU6	ø25
	BJSU8	ø32
	BJSU10	ø50
	BJSU5/32	ø20
	BJSU1/4	ø25
	BJSU5/16	ø32
	BJSU3/8	ø50
Large flow type	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.