

Speed Controller Push-lock type with Indicator

one-way flow control valve with indicator and push-lock knob

Safety instructions for this product

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)

JSG (1)	C (2)	6 (3)	-	01 (4)	A (5)	(6)	(7)	W (8)
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(1) Speed Controller Push-lock type with Indicator

(2) Type

Code	C	S	U
Type	Elbow	Free	Union straight

(3) Tube dia. (øD)

Code	mm size (mm)						inch size (inch)					
	3	4	6	8	10	12	1/8	5/32	1/4	5/16	3/8	1/2
Tube O.D.	ø3	ø4	ø6	ø8	ø10	ø12	ø1/8	ø5/32	ø1/4	ø5/16	ø3/8	ø1/2

(4) Thread size (R) (No entry for JSGU: Union straight type)

Code	Metric thread		Taper pipe thread				Unified fine thread	National pipe thread tapered			
	M3	M5	01	02	03	04	U10	N1	N2	N3	N4
Thread size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(5) Control direction (No entry for Union straight type)

Code	A	B
Control direction	Meter-out control 	Meter-in control
	Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side.	Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.
Identification	Color of push-lock knob : Light-gray 	Color of push-lock knob : Light-blue

(6) Low cracking pressure type

Code	No code	K
Specifications	Standard spec.	Low cracking pressure type (Check valve opening Prs.: 0.02MPa, Operating Prs. range: 0.05 to 0.5MPa)
Identification	No engraving	Letter "K" engraved

(7) Flow rate type

Code	No code	L (※)
Type	Standard	Low-flow
Identification	No engraving	Letter "L" engraved

*Flow characteristics that the low flow range of the standard type can be adjusted linearly.

(8) Body color + Packaging option (Optional)

Code	W	-C	W-C
Packaging spec.	Standard package	Clean-room package	Clean-room package
Body color	Light-gray		
Release-ring color*1,2	Light-gray	Light-blue	Light-gray
Appearance spec.			

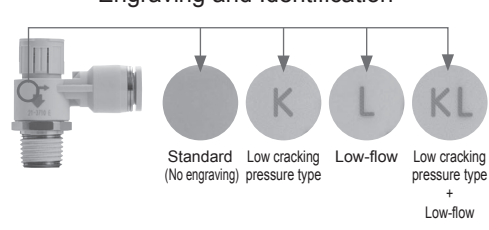
*1. Release-ring color is white for all the above specifications of inch size.

*2. There is no option "W-C" for inch-size product since it is the same product as "-C".

*3. There is no black color for body color.



Engraving and Identification



Release-ring shape

■ Tube O.D. : ø3, ø4, ø6mm
ø1/8, ø5/32, ø1/4in.
◀ Oval shape

■ Tube O.D. : ø8, ø10, ø12mm
ø5/16, ø3/8, ø1/2in.
◀ Round shape

Speed Controller Push-lock type with Indicator

Characteristics

Speed can be adjusted by dial display.

Scales are on the side (upper/lower windows) and on the top. (*)

Side scale lower window



Side scale upper window



Top scale



*Models with metric thread and O.D. 4 in-line models do not have the top scale.

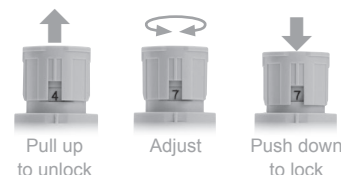
Push-Lock type knob -Easy to handle.

Flow rate can be set by 30 steps in one turn. (However, the number of rotation is visible every 1/2 turn.)

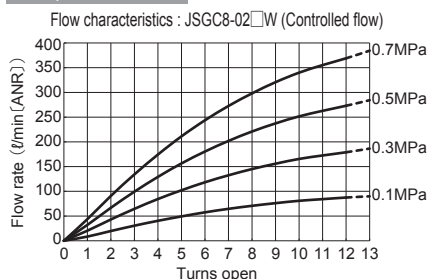
Linear flow characteristic: Flow rate changes linearly in proportion to the turns of knob.

The low flow type which enables fine adjustments is provided. (*)

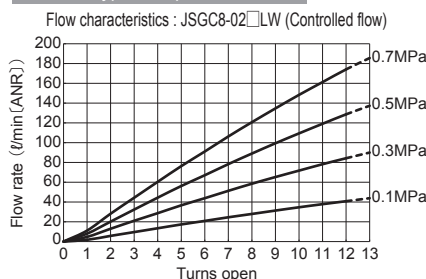
*The flow rate range is different from our Speed Controller Low-flow type.



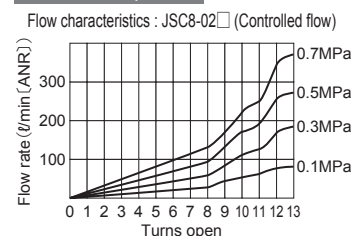
With push-lock knob



Low-flow type with push-lock knob



Conventional product



Compact and low profile.

The direction of air flow is identified by the knob color.

Free type with flexible tubing direction is also available.

Rotatable resin body and Fitting.



NEW Low cracking pressure type is added.

Best suitable for use with spring return single acting cylinders.

● Clean-room package spec. (Optional)

NEW Best suitable for flow control in clean environment.

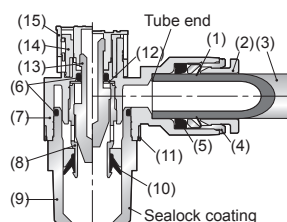
Fluorine-based grease is applied. Washed by clean air and packed in ISO class 6 equivalent clean-room.

Specifications

Fluid medium	Air
Operating pressure range	0.1 to 1.0MPa (Low cracking pressure type: 0.05 to 0.5MPa)
Check valve opening pressure	0.05MPa (Low cracking pressure type: 0.02MPa)
Operating temp. range	0 to 60°C (No freezing)

Sectional drawing

Elbow type : JSGC



- *1. Metallic body with M3 thread is made of special stainless steel (Austenite or ferritic stainless steel).
 *2. For thread size : 04 (R1/2) and N4 (NPT1/2) only.
 *3. The material of gasket for metric thread or UNF thread is SUS304+NBR.

No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	O-ring	NBR
(7)	Resin body	PBT
(8)	Metallic body	Nickel-plated brass
(9)	Thread body (*1)	Nickel-plated brass
(10)	Diaphragm	HNBR
(11)	Retainer (*2)	Nickel-plated brass
(12)	Collar (*2)	POM
(13)	Needle	Brass
(14)	Indicator	PBT
(15)	Knob	POM

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

Type	Model code JSGCøD-R[5][6][7][8]	Applicable cylinder tube I.D. (mm)		Model code JSGCøD-R[5][6][7][8]	Applicable cylinder tube I.D. (mm)	
		Standard [7]: No code	Low-flow [7]: L		Standard [7]: No code	Low-flow [7]: L
Elbow JSGC  øD R	JSGC3-M3[5][6][7][8]	ø20	ø12	JSGC ^{1/8} -U10[5][6][7][8]	ø20	ø12
	JSGC3-M5[5][6][7][8]	ø20	ø12	JSGC ^{1/32} -U10[5][6][7][8]	ø20	ø12
	JSGC4-M3[5][6][7][8]	ø20	ø12	JSGC ^{3/32} -N1[5][6][7][8]	ø25	ø25
	JSGC4-M5[5][6][7][8]	ø20	ø12	JSGC ^{1/8} -U10[5][6][7][8]	ø20	ø12
	JSGC4-01[5][6][7][8]	ø25	ø25	JSGC ^{1/16} -N1[5][6][7][8]	ø32	ø25
	JSGC6-M5[5][6][7][8]	ø20	ø12	JSGC ^{1/16} -N2[5][6][7][8]	ø40	ø25
	JSGC6-01[5][6][7][8]	ø32	ø25	JSGC ^{1/16} -N3[5][7][8]	ø160	ø50
	JSGC6-02[5][6][7][8]	ø40	ø25	JSGC ^{1/4} -U10[5][6][7][8]	ø20	ø12
	JSGC6-03[5][7][8]	ø63	ø50	JSGC ^{1/4} -N1[5][6][7][8]	ø32	ø25
	JSGC8-01[5][6][7][8]	ø32	ø25	JSGC ^{1/4} -N2[5][6][7][8]	ø40	ø25
	JSGC8-02[5][6][7][8]	ø40	ø25	JSGC ^{1/4} -N3[5][7][8]	ø160	ø50
	JSGC8-03[5][7][8]	ø63	ø50	JSGC ^{3/16} -N1[5][6][7][8]	ø32	ø25
	JSGC8-04[5][7][8]	ø80	ø63	JSGC ^{3/16} -N2[5][6][7][8]	ø40	ø25
	JSGC10-02[5][6][7][8]	ø40	ø25	JSGC ^{3/16} -N3[5][7][8]	ø180	ø50
	JSGC10-03[5][7][8]	ø63	ø50	JSGC ^{3/16} -N4[5][7][8]	ø200	ø160
	JSGC10-04[5][7][8]	ø100	ø63	JSGC ^{3/8} -N2[5][6][7][8]	ø40	ø25
	JSGC12-03[5][7][8]	ø63	ø50	JSGC ^{3/8} -N3[5][7][8]	ø180	ø50
	JSGC12-04[5][7][8]	ø100	ø63	JSGC ^{3/8} -N4[5][7][8]	ø200	ø160
	JSGC ^{1/8} -M3[5][6][7][8]	ø20	ø12	JSGC ^{1/2} -N3[5][7][8]	ø180	ø50
	JSGC ^{1/8} -M5[5][6][7][8]	ø20	ø12	JSGC ^{1/2} -N4[5][7][8]	ø250	ø160
	JSGC ^{3/32} -M3[5][6][7][8]	ø20	ø12			
	JSGC ^{3/32} -M5[5][6][7][8]	ø20	ø12			
	JSGC ^{3/32} -01[5][6][7][8]	ø25	ø25			
	JSGC ^{1/4} -M5[5][6][7][8]	ø20	ø12			
	JSGC ^{1/4} -01[5][6][7][8]	ø32	ø25			
	JSGC ^{1/4} -02[5][6][7][8]	ø40	ø25			
	JSGC ^{1/4} -03[5][7][8]	ø63	ø50			
	JSGC ^{3/16} -01[5][6][7][8]	ø32	ø25			
	JSGC ^{3/16} -02[5][6][7][8]	ø40	ø25			
	JSGC ^{3/16} -03[5][7][8]	ø63	ø50			
	JSGC ^{3/16} -04[5][7][8]	ø80	ø63			
	JSGC ^{3/8} -02[5][6][7][8]	ø40	ø25			
	JSGC ^{3/8} -03[5][7][8]	ø63	ø50			
	JSGC ^{3/8} -04[5][7][8]	ø100	ø63			
	JSGC ^{1/2} -03[5][7][8]	ø63	ø50			
	JSGC ^{1/2} -04[5][7][8]	ø100	ø63			
Type	Model code JSGUøD[6][7][8]	Applicable cylinder tube I.D. (mm)				
		Standard [7]: No code	Low-flow [7]: L			
Union straight JSGU  øD	JSGU4[6][7][8]	ø25	ø12			
	JSGU6[6][7][8]	ø32	ø25			
	JSGU8[6][7][8]	ø40	ø25			
	JSGU10[7][8]	ø63	ø50			
	JSGU12[7][8]	ø100	ø63			
	JSGU ^{3/32} [6][7][8]	ø25	ø12			
	JSGU ^{1/4} [6][7][8]	ø32	ø25			
	JSGU ^{3/16} [6][7][8]	ø40	ø25			
	JSGU ^{3/8} [7][8]	ø63	ø50			
	JSGU ^{1/2} [7][8]	ø100	ø63			



Notes

- *1. For [5] in model code, please select a control direction code, "A" for Meter-out and "B" for Meter-in control.
 *2. Applicable cylinder tube I.D. is based on the supply air pressure at 0.5MPa and cylinder speed at 500mm/sec.
 *3. Release ring color : White for inch type.



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag



Options

Code	[8] : -C	[8] : W-C
Specifications	Clean-room package	Light-gray release ring + Clean-room package

Speed Controller Push-lock type with Indicator

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

Type	Model code JSGSøD-R5678	Applicable cylinder tube I.D. (mm)	
		Standard 7: No code	Low-flow 7: L
Free JSGS   øD R	JSGS3-M35678	ø20	ø12
	JSGS3-M55678	ø20	ø12
	JSGS4-M35678	ø20	ø12
	JSGS4-M55678	ø20	ø12
	JSGS4-015678	ø25	ø25
	JSGS6-M55678	ø20	ø12
	JSGS6-015678	ø32	ø25
	JSGS6-025678	ø40	ø25
	JSGS8-015678	ø32	ø25
	JSGS8-025678	ø40	ø25
	JSGS8-03578	ø63	ø50
	JSGS10-025678	ø40	ø25
	JSGS10-03578	ø63	ø50
	JSGS12-03578	ø63	ø50
	JSGS12-04578	ø100	ø63
	JSGS ^{1/8} -M35678	ø20	ø12
	JSGS ^{1/8} -M55678	ø20	ø12
	JSGS ^{1/4} -M55678	ø20	ø12
	JSGS ^{1/4} -015678	ø32	ø25
	JSGS ^{1/4} -025678	ø40	ø25
	JSGS ^{5/16} -015678	ø32	ø25
	JSGS ^{5/16} -025678	ø40	ø25
	JSGS ^{5/16} -03578	ø63	ø50
	JSGS ^{3/8} -025678	ø40	ø25
	JSGS ^{3/8} -03578	ø63	ø50
	JSGS ^{3/8} -04578	ø100	ø63
	JSGS ^{1/2} -03578	ø63	ø50
	JSGS ^{1/2} -04578	ø100	ø63
	JSGS ^{1/8} -U105678	ø20	ø12
	JSGS ^{1/32} -U105678	ø20	ø12
	JSGS ^{5/32} -N15678	ø25	ø25
	JSGS ^{1/4} -U105678	ø20	ø12
	JSGS ^{1/4} -N15678	ø32	ø25
	JSGS ^{1/4} -N25678	ø40	ø25
	JSGS ^{5/16} -N15678	ø32	ø25
	JSGS ^{5/16} -N25678	ø40	ø25
	JSGS ^{5/16} -N3578	ø180	ø50
	JSGS ^{3/8} -N25678	ø40	ø25
	JSGS ^{3/8} -N3578	ø180	ø50
	JSGS ^{3/8} -N4578	ø200	ø160
	JSGS ^{1/2} -N3578	ø180	ø50
	JSGS ^{1/2} -N4578	ø250	ø160



Notes

- *1. For 5 in model code, please select a control direction code, "A" for Meter-out and "B" for Meter-in control.
- *2. Applicable cylinder tube I.D. is based on the supply air pressure at 0.5MPa and cylinder speed at 500mm/sec.
- *3. Release ring color : White for inch type.



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag



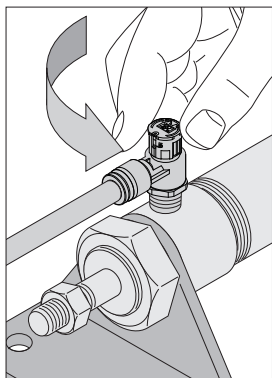
Options

Code	8 : -C	8 : W-C
Specifications	Clean-room package	Light-gray release ring + Clean-room package

■ How to adjust speed

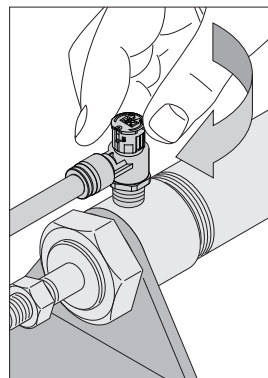
(1) Increasing speed

Pull up the adjustment knob to unlock. When the adjustment knob of Speed Controller is turned counterclockwise from the dial indication "0", the actuator speed will increase. Be sure to push down the adjustment knob to lock it at the desired speed so that the speed setting cannot be changed.



(2) Reducing speed

Pull up the adjustment knob to unlock. If the adjustment knob of Speed Controller is turned too far (if the speed is too fast), turn it clockwise to reduce the actuator speed. Be sure to push down the adjustment knob to lock it at the desired speed so that the speed setting cannot be changed.

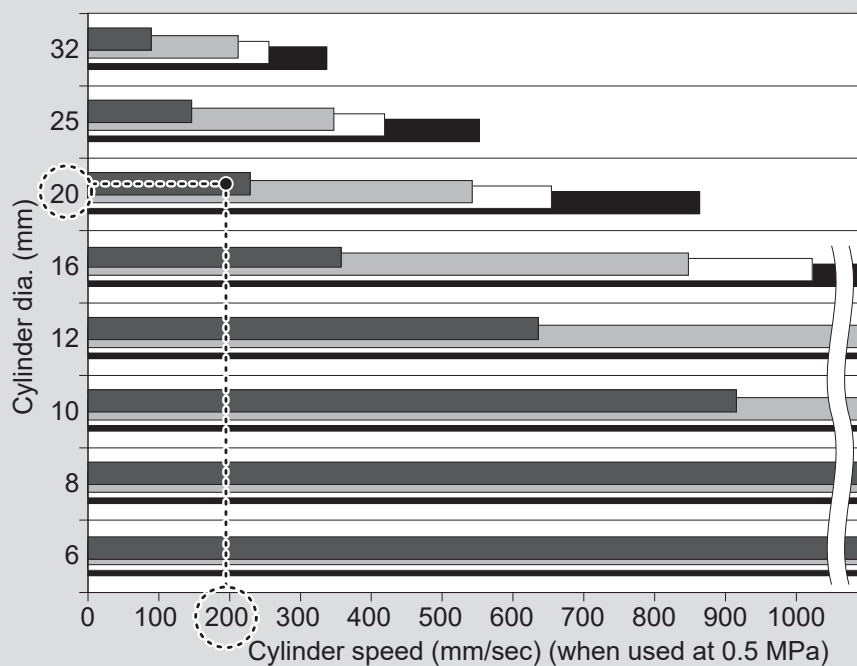


Speed Controller Selection by Cylinder Size

Ex.) For use with cylinder I.D. 20 mm and cylinder speed 200 mm/sec.

■ □ ■ indicate models available for selection.

■ indicates models that may not meet the required cylinder speed due to insufficient flow rate depending on conditions.

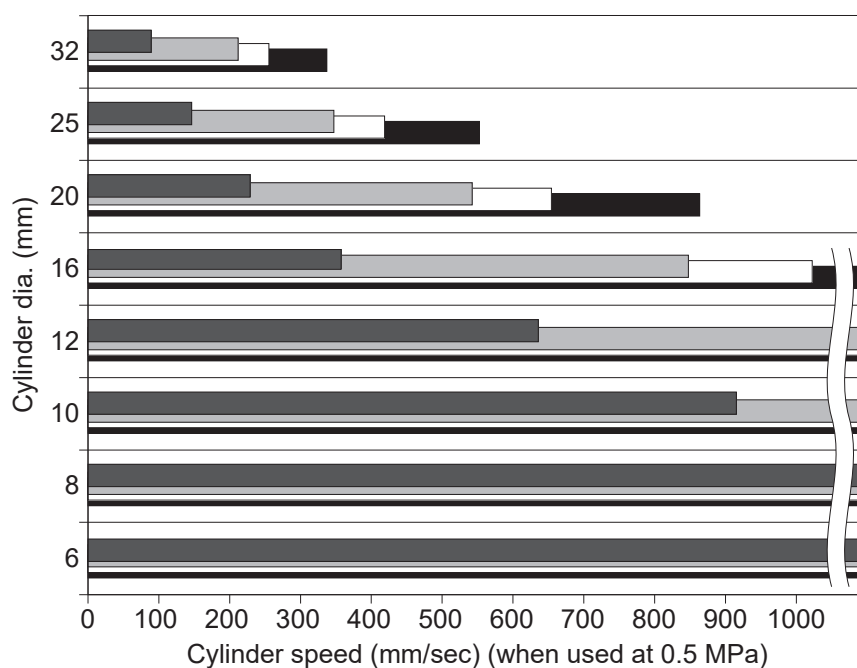


■ JSGC□-M3L, JSGC□-M5L
JSGS□-M3L, JSGS□-M5L
JSGU4L
■ JSGC□-M3, JSGS□-M3
□ JSGC□-M5, JSGS□-M5
■ JSGU4

JSGC□-M3(L), JSGC□-M5(L)

JSGS□-M3(L), JSGS□-M5(L)

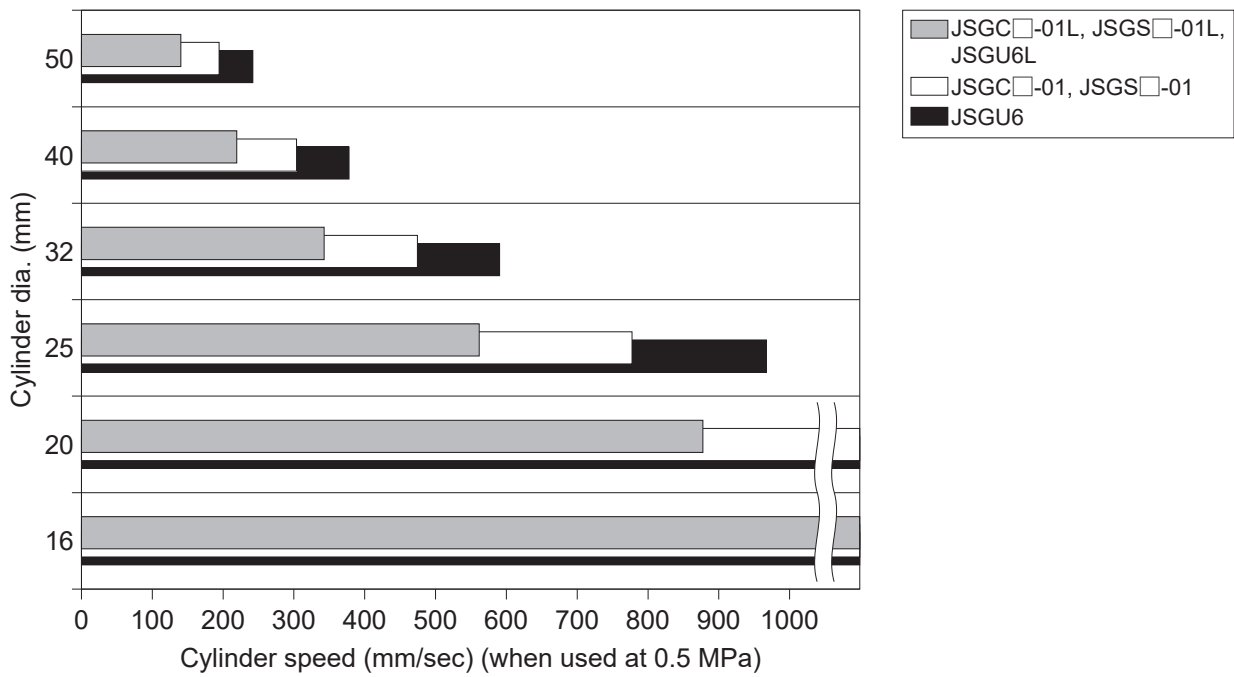
JSGU4(L)



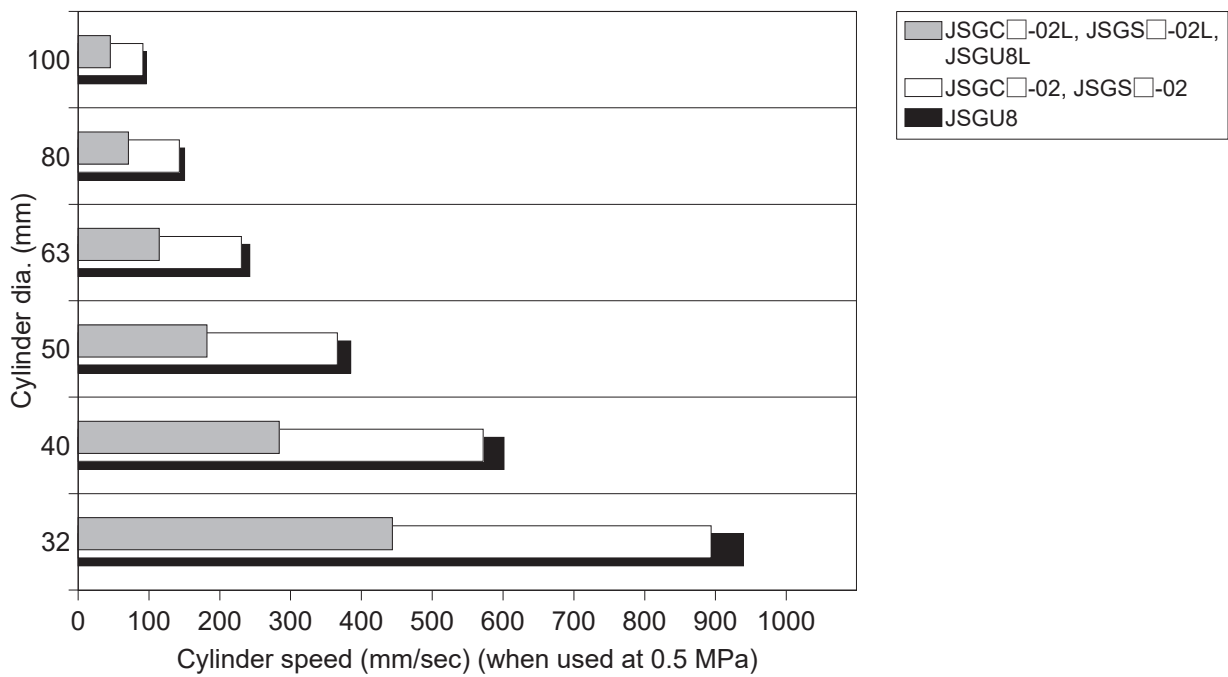
■ JSGC□-M3L, JSGC□-M5L
JSGS□-M3L, JSGS□-M5L
JSGU4L
■ JSGC□-M3, JSGS□-M3
□ JSGC□-M5, JSGS□-M5
■ JSGU4

Speed Controller Selection by Cylinder Size

JSGC□-01(L)
JSGS□-01(L)
JSGU6(L)



JSGC□-02(L)
JSGS□-02(L)
JSGU8(L)

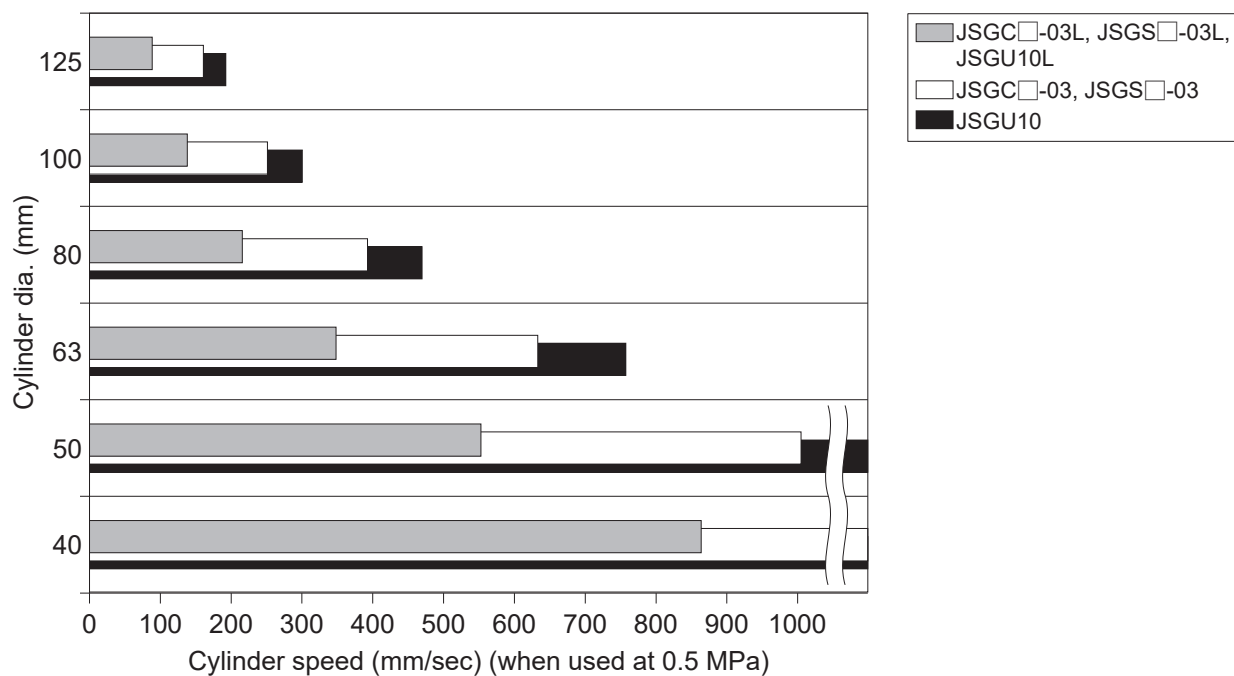


Speed Controller Selection by Cylinder Size

JSGC□-03(L)

JSGS□-03(L)

JSGU10(L)



JSGC□-04(L)

JSGS□-04(L)

JSGU12(L)

