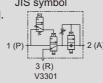


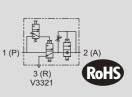
Slow start valve standard white Series

V3301-W/V3321-W Series

To maintain safety at starting and stopping.

Port size: Rc1/4 to Rc1/2





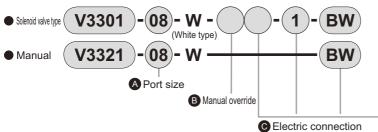
Specifications

Descri	ptions			V3301-W/V3321-W			
Operating method			Pilot operated soft spool valve				
Working fluid	t		Compressed air (excluding ultra dry compressed air) Note 1				
Working pressure	e range N	1Pa	0.2 to 1.0				
Withstanding pr	essure N	1Pa	1.5				
Ambient temperatu	re range	°C		5 to 60			
	1 (P) /2 (A)	port	Rc1/4	Rc3/8	Rc1/2		
Port size	3 (R) po	rt	Rc3/8				
	Gauge p	ort	Rc1/4				
Effective sectional area	Low speed air :	supply	6				
mm ²	High speed air	supply	40	64	76		
	High speed ex	haust	50	74	78		
Response time			0.2sec. or less				
Lubrication			Oil-free Note 2				
Weight		g	V3301-W: 635 V3321-W: 515				
Solenoid valve specifications			V3301-W				
Rated voltage V		100 AC (50/60Hz)	200 AC (50/60Hz)	24 DC			
Starting curr	ent	Α	0.076/0.058	0.038/0.030	0.092		
Holding current A		0.038/0.029	0.019/0.015	0.092			
Power consumption W		2.2/1.7	2.2/1.7	2.2			
Temperature rises K			40 or less				
Voltage fluctuation range			±10%				
Insulation class			Class B				
Electric connection			Grommet lead wire, terminal box				

Note 1: Contact CKD when using ultra dry compressed air.

Note 2: Use the turbine oil Class 1 ISO VG32 if lubricated.

How to order



Descriptions			
A Port size			
1 (P) /2 (A) port			
Rc1/4			
Rc3/8			
Rc1/2			

ĺ	B Manual override		
	Blank	Non-locking	
	M1	Locking	

© Electric connection			
Blank	Grommet lead wire		
s	Grommet lead wire with surge suppressor		
В	Terminal box		
LS	Terminal box with surge suppressor and indicator light		

D Voltage		
1	100 VAC 50/60Hz	Standard
2	200 VAC 50/60Hz	Stan
3	24 VDC	
4	12 VDC	Option
5	110 VAC 50/60Hz	Opt
6	220 VAC 50/60Hz	

Attachment (attached)		
Blank	Without attachment	
BW	C type bracket	
G49P	Pressure gauge: G49D-8-P10	
S	Silencer	

Voltage

Attachment (attached)



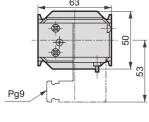
A Select the reverse regulator (R*100-W) or reverse filter regulator (W*100-W) when installing the V3301-W or V3321-W onto the primary side of the regulator or filter regulator.

V3301-W/V3321-W Series

Dimensions

Dimensions

● V3301-W



(63)

Lead wire /

2-A

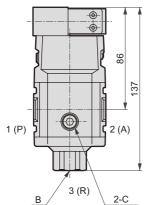
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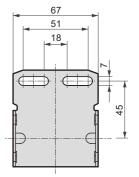
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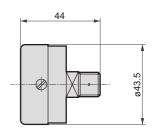


	Α	В	С
V3301-08-W	Rc1/4		
V3301-10-W	Rc3/8	Rc3/8	Rc1/4
V3301-15-W	Rc1/2		

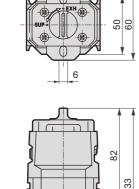
Bracket: B320

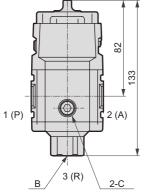


● Pressure gauge: G49D-8-P10



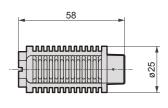
● V3321-W





	Α	В	С
V3321-08-W	Rc1/4		
V3321-10-W	Rc3/8	Rc3/8	Rc1/4
V3321-15-W	Rc1/2		

Silencer: SLW-10A



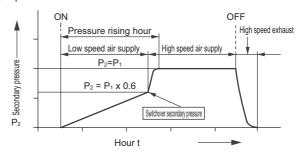
V3301-W/V3321-W Series

Operational explanation (refer to the operation characteristics)

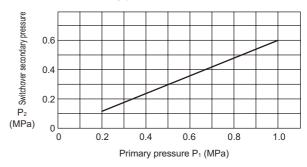
The slow start valve turns on when the solenoid valve is energized or the manual section is set to SUP. The valve turns off when the solenoid valve is deenergized or the manual section is set to EXH.

- (1) First, when the main unit is turned on, the low-speed supply path opens, and the compressed air starts to flow to the secondary side. The secondary pressure gradually starts to rise. The operable cylinders in the unit will start moving at a low speed and thus will not pop out.
- (2) Next, when the secondary pressure exceeds 60% of the primary pressure, the high-speed supply path opens. The secondary pressure suddenly rises to the same pressure as the primary pressure. (Fully open state)
- (3) When the main unit is turned off, high-speed exhaust will start, and the residual pressure in the device will be exhausted.

Operation characteristics



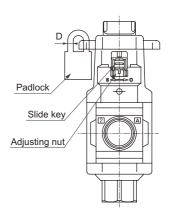
Switchover secondary pressure



Adjustment method of slow start (refer to the side view)

- (1) Press the slide key up and release the adjustment nut lock.
- (2) Turn the main unit on, and confirm the cylinder operation speed and secondary pressure rise time. Then turn the main unit off.
- (3) Turn the adjustment nut as explained below, and adjust the state. Cylinder pops out → Turn to the S side Low speed operation time is too long \rightarrow Turn to the O side Repeat steps (2) and (3) as necessary, and adjust to the optimum state.
- (4) Align the adjustment nut keyway to the projection on the slide key.
- (5) Press down the slide key and lock the adjustment nut.
- (6) Confirm that the main unit is off.

Side view



Safety precautions

- Note 1: This valve is dedicated for starting and stopping (including emergency stop) the device. As a rule, this valve should not be used for repeated cylinder operation or as a normal 3-way valve.
- Note 2: If the minimum operating pressure of the cylinder, which is to be kept from popping out, is less than 50% of the working pressure, popping out will not be prevented.
- Note 3: The manual override is locked with the manual valve type. Select a padlock with a D dimension of 3.8 to 5.8 mm.
- Note 4: Connect a silencer or exhaust filter, etc., to the exhaust port for safety and sound absorption.