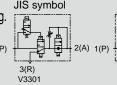
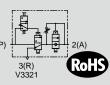
Slow start valve Standard White Series

V3301-W/V3321-W Series

Ensuring safety when starting and stopping.

Port size: Rc1/4 to Rc1/2







Specifications

F.R.L.

F.R.

F (Filtr)

R (Reg)

L (Lub) Drain Separ Mech

Press SW Res press exh valve SlowStart Anti-bac/Bacremove Filt Film Resist FR Oil-ProhR Med Press FR PTFE FRL Outdrs FRL Adapter Press Gauge CompFRL LgFRL **PrecsR** VacF/R Clean FR ElecPneuR AirBoost Speed Ctrl Silncr

Item		V3301-W/V3321-W				
Actuation		Pilot operated soft spool valve				
Working fluid			Compressed air (excluding ultra-dry compressed air) *1			
Working pressure MPa			0.2 (≈29 psi, 2 bar) to 1.0 (≈150 psi, 10 bar)			
Proof pressure MPa		1.5 (≈220 psi, 15 bar)				
Ambient / fluid temperatures °C		5 (41°F) to 60 (140°F)				
	1(P)/2(A)	port	Rc1/4	Rc3/8	Rc1/2	
Port size	3(R) por	t	Rc3/8			
	Gauge p	ort	Rc1/4			
Effective Lo speed air supply		6				
cross-sectional	Hi speed air s	upply	40	64	76	
area mm²	Hi speed exh	aust	50	74	78	
Response time		0.2 sec or less				
Lubrication			No lubrication *2			
Weight g		g	V3301-W:635 V3321-W:515			
Solenoid valve specifications		ons	V3301-W			
Rated voltage V		100 AC (50/60 Hz)	200 AC (50/60 Hz)	24 DC		
Starting current A		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 rise K		40 or less				
Voltage fluctuation range		±10%				
Insulation class		Class B				
Electrical connections		;	Grommet lead wire/terminal box			

- *1: Consult with CKD when using ultra dry compressed air.
- *2: Use turbine oil Class 1 ISO VG32 for lubrication.

How to order

CheckV/ other

Fit/Tube

Nozzle

Air Unit

PrecsCompn

ContactSW

AirSens

PresSW

Air Flo Sens/Ctrl WaterRtSens TotAirSys

(Total Air)

TotAirSys (Gamma)

generator

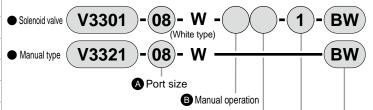
RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg

Gas

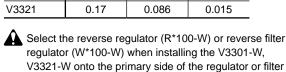
Electro Press SW



Option weight

* Add to the we	ight of the standard accessories. Unit: k		
Code	Attachment		
Code	BW	G49P	S
V3301	0.17	0.086	0.015

0.17 0.086 0.015



Specifications for rechargeable battery

(Catalog No. CC-1226A)

© Electrical connections

Voltage

E Other attachments

Structure compatible with rechargeable battery manufacturing process

V3301 -

	Code	Description		
	A Port size			
	1((P)/2(A) port		
	08	Rc1/4		
	10 Rc3/8			
	15	Rc1/2		
	B Manual o	peration		
	Blank Non-locking			
	M1	Locking		
_	© Electrical	connections		
	Blank	Grommet lead wire		
	S	Grommet lead wire with surge suppressor		
	В	Terminal box		
	LS	Terminal box surge suppressor/light		
_	D Voltage			
	1	100 VAC 50/60 Hz	dard	
	2	200 VAC 50/60 Hz	Standard	
	3	24 VDC		
	4	12 VDC	Option	
	5	110 VAC 50/60 Hz	Ö	
	6	220 VAC 50/60 Hz		
_	Other atta	achments		
	Blank	No included products		
	BW			

Silencer

Pressure gauge: G49D-8-P10

G49P

S

regulator.

Ending

V3301-W/V3321-W Series

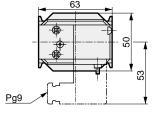
Dimensions

F.R.L. F.R.





● V3301-W



(63)

Lead wire

Length 300 mn

2-A

(63)

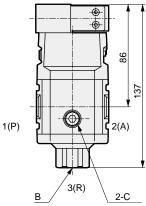
2-A

45

(103)

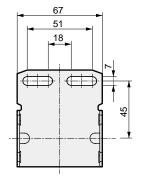
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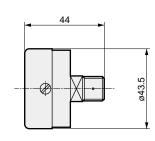


		<u>B</u> _/	\ 2-0	_
		Α	В	С
	V3301-08-W	Rc1/4		
ĺ	V3301-10-W	Rc3/8	Rc3/8	Rc1/4
	V3301-15-W	Rc1/2	1	

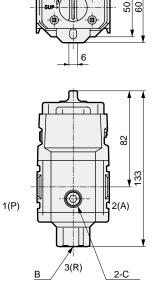
Bracket: B320



● Pressure gauge: G49D-8-P10

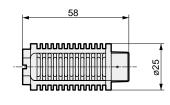


● V3321-W



	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



F (Filtr) R (Reg) L (Lub) Drain Separ Mech Press SW Res press exh valve SlowStart Anti-bac/Bacremove Filt
Film
Resist FR Oil-ProhR Med Press FR No Cu/ PTFE FRL Outdrs FRL Adapter Joiner Press Gauge CompFRL LgFRL PrecsR VacF/R Clean FR ElecPneuR AirBoost Speed Ctrl Silncr CheckV/ other Fit/Tube Nozzle Air Unit PrecsCompn Electro Press SW ContactSW AirSens PresSW Cool Air Flo Sens/Ctrl WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) Gas generator RefrDry

DesicDry
HiPolymDry
MainFiltr
Dischrg

Ending

V3301-W/V3321-W Series

F.R.L. F.R.

F (Filtr)

R (Reg)

L (Lub)
Drain
Separ
Mech
Press SW

Res press

exh valve
SlowStart
Anti-bac/Bacremove Filt
Film
Resist FR

Oil-ProhR Med Press FR No Cu/ PTFE FRL

Outdrs FRL

Adapter
Joiner

Press
Gauge

CompFRL

LgFRL PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost Speed Ctrl

Silncr CheckV/ other

Fit/Tube

Air Unit

PrecsCompn Electro Press SW

ContactSW

AirSens
PresSW
Cool
Air Flo

Sens/Ctrl WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma)

Gas generator RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg etc

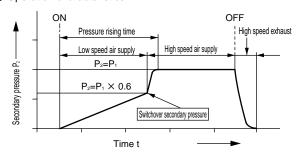
Ending

Operational explanation (refer to the operation characteristics)

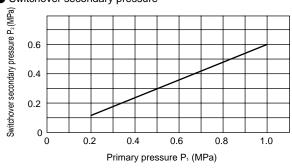
The slow start valve turns ON when the solenoid valve is energized or the manual section is set to SUP. The valve turns OFF when the solenoid valve is deenergized or the manual section is set to EXH.

- (1) First, when the body is turned ON, the low speed supply path opens and compressed air starts to flow to the secondary side, as secondary pressure gradually rises. Secondary pressure gradually starts to rise. Operable cylinders start moving at a low speed and do not pop out.
- (2) Next, when secondary pressure exceeds 60% of primary pressure, the high speed supply path opens. Secondary pressure suddenly rises to the same pressure as primary pressure. (Fully open state)
- (3) When the body is turned OFF, high speed exhaust starts and residual pressure in the unit is exhausted.

Operation characteristics



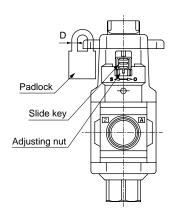
Switchover secondary pressure



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

- (1) Press up the slide key and release the adjusting nut lock.
- (2) Turn the body ON, and confirm cylinder operation speed and secondary pressure rise time. Turn the body OFF.
- (3) Adjust by turning the adjusting nuts as indicated below. Cylinder pops out \rightarrow Turn to the S side
 - Low speed operation time is too long → Turn to the O side Repeat steps (2) and (3) as necessary, and adjust to the ideal state.
- (4) Align the adjusting nut keyway to the projection on the slide key.
- (5) Press down the slide key and lock the adjusting nut.
- (6) Confirm that the body is OFF.

Side view



▲ Safety precautions

- *1: This valve is specifically designed to start and stop a device. This valve should not be used for cylinder repeat operation or as a normal 3-way valve.
- *2: The min. working pressure of the cylinder must be less than 50% of working pressure in order to be effective in preventing the popping out.
- *3: The manual override is locked with a manual valve. Select a padlock with a D dimension of 3.8 to 5.8 mm.
- *4: Connect a silencer or exhaust filter, etc., on the exhaust port for safety and noise reduction.
- *5: This valve may not switch to high speed supply if air is consumed or air leakage is found at the OUT side during slow speed supply.
- *6: Make sure to work on the adjusting nut manually.
- *7: Keep the working pressure (supply air pressure at 0.4 MPa or higher when the restricting component is near full opening during slow air supply. Otherwise, the supply air pressure may decline and the unit may not switch to the exhaust.