

How to Order

VG342 1 G 04 A

Valve specification

—	Internal pilot
R	External pilot

Rated voltage

1	100V AC 50/60Hz
2	200V AC 50/60Hz
3*	110V AC 50/60Hz
4*	220V AC 50/60Hz
5	24V DC
6*	12V DC
7*	240V AC 50/60Hz
9*	Others

*Option

Electrical entry

G	Grommet
D	DIN connector
E	Grommet terminal
T	Conduit terminal

Pilot valve option

—	Standard
Y*	Energy saver
E*	Continuous duty

*Option

Flow path

—	External pilot (N.O./N.L.)
A	N.C. (Normally closed)
B	N.O. (Normally open)

Thread

—	Rc (PT)
F*	G (PF)
N*	NPT
T*	NPTF

*Option

Port size

04	Rc (PT) 1/2
06	Rc (PT) 3/4
10	Rc (PT) 1

Indicator light and surge voltage suppressor

—	None
S	With surge voltage suppressor (Grommet only.)
Z	With indicator light and surge voltage suppressor (Except for Grommet)

How to Order Pilot Valve Assembly

VO307 1 G X84

Valve option

—	Standard
Y*	Energy saver
E*	Continuous duty

*Option

Rated Voltage (Standard)

1	100V AC 50/60Hz
2	200V AC 50/60Hz
3*	110V AC 50/60Hz
4*	220V AC 50/60Hz
5	24V DC
6*	12V DC
7*	240V AC 50/60Hz
9*	Others

*Option

Indicator light and surge voltage suppressor

—	None
S	With surge voltage suppressor (Grommet only.)
Z	With indicator light and surge voltage suppressor (Except for Grommet)

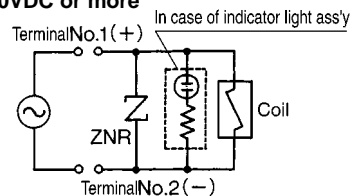
Electrical entry

G	Grommet
D	DIN connector
E	Grommet terminal
T	Conduit terminal

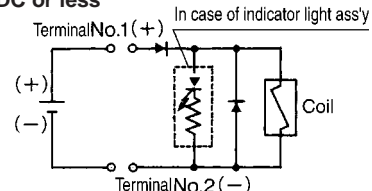
Caution

Indicator Light and Surge Voltage Suppressor

AC, 100VDC or more

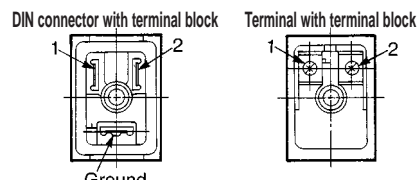


48VDC or less



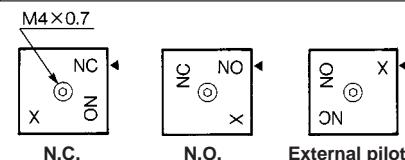
Electrical Connection

In case of DIN connector and terminal (with indicator light and surge voltage suppressor), the connection is as follows. Connect each to the power supply side.



Terminal NO.	1	2
DIN connector	+	-
Terminal	+	-

How to Change the Passing State



When changing the passage state, confirm that pressure has been removed from the valve. Unscrew the M4 X 0.7 hexagon socket head cap screw in the changeover plate and match the ◀ mark on the adapter plate with the character on the changeover plate. Piping is as follows.

Piping

Passage	Port	P	A	R
NC	Primary pressure side	Secondary pressure side	Exhaust (Plug, in case of 2 port valve)	
	Exhaust (Plug, in case of 2 port valve)	Secondary pressure side	Primary pressure side	
External	Universal porting (Piping of primary pressure side is possible anywhere)			

Note 1) In case of internal pilot, confirm that a plug is inserted to X port. If not, insert a R(PT)1/8 plug.

Note 2) In case of external pilot, supply air pressure from X port.

SY

SYJ

VK

VZ

VT

VT

VP

VG

VP

VQ

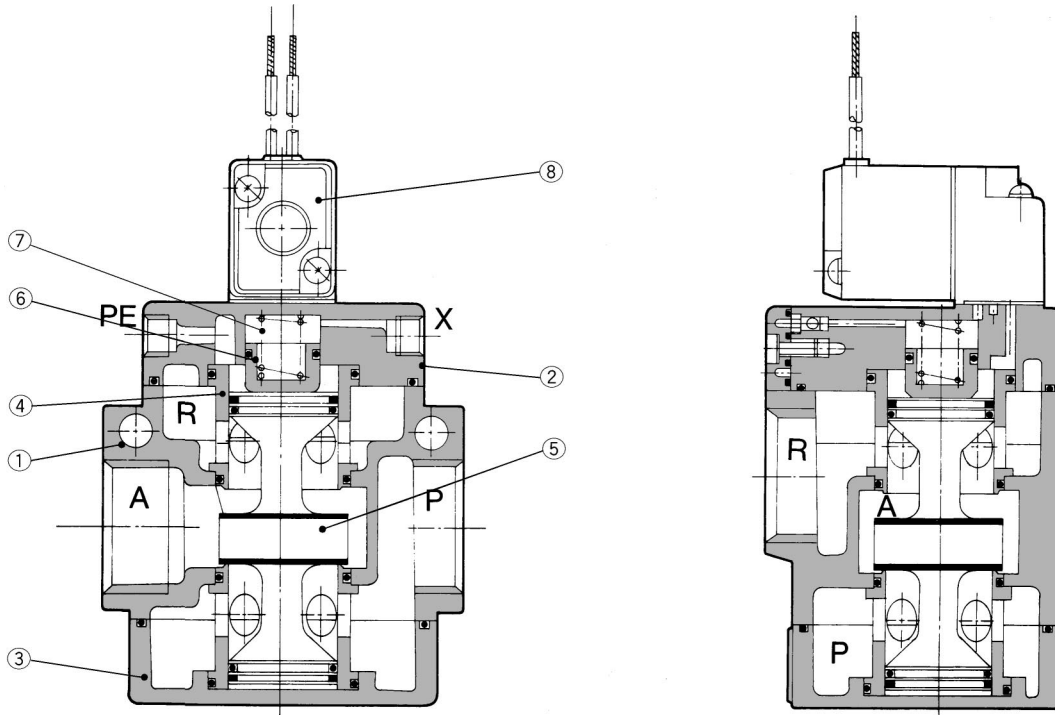
VQZ

VZ

VS

VG342

Construction



Component Parts

No.	Description	Material	Notes
①	Body	Aluminum alloy	Paint color: Platinum silver
②	Adapter plate		
③	End plate		
④	Retainer	Brass	
⑤	Spool valve	Aluminum alloy/NBR	
⑥	Piston	Resin	
⑦	Spring	Stainless steel	

Replacemet Parts

No.	Description	Material	Part No.
⑧	Pilot valve ass'y	—	VO307□-□□□*



* Refer to p.2.7-2 for "How to Order Pilot Valve Assembly"

Precautions

Be sure to read before handling. Refer to p.0-33 to 0-36 for Safety Instruction and common precautions.

Caution Operation

1. Since PE port is the exhaust port of the pilot valve, do not attach a plug or reduce the port diameter.
2. X port is the pressure supply port of the pilot valve and EP port is the exhaust port of the pilot valve. Avoid mismatching when piping.
3. The manual portion contains a breather hole for the core. Take proper measures to prevent dust or foreign matter from accumulating in this area.

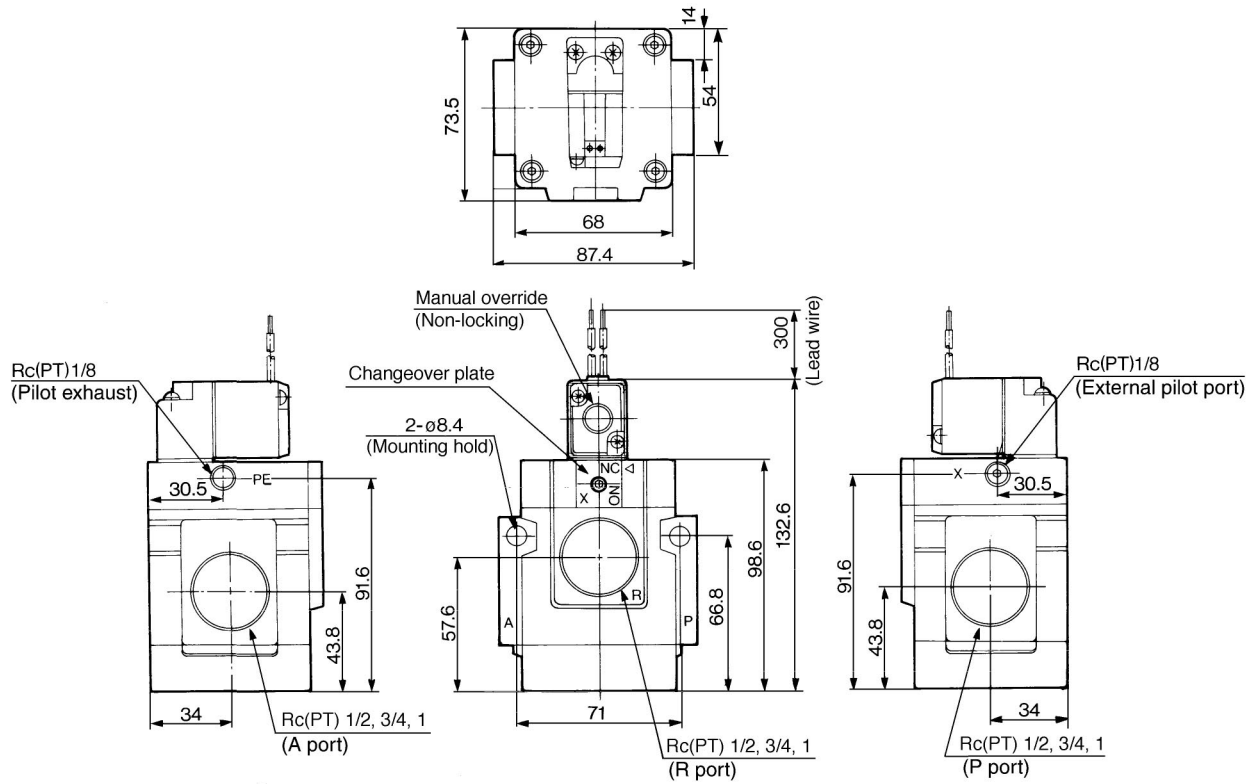
Continuous Duty

If energizing the valve for a long time, use "VG342□-□□□-□□□-E" (Pilot valve assembly: "VO307E□□□").

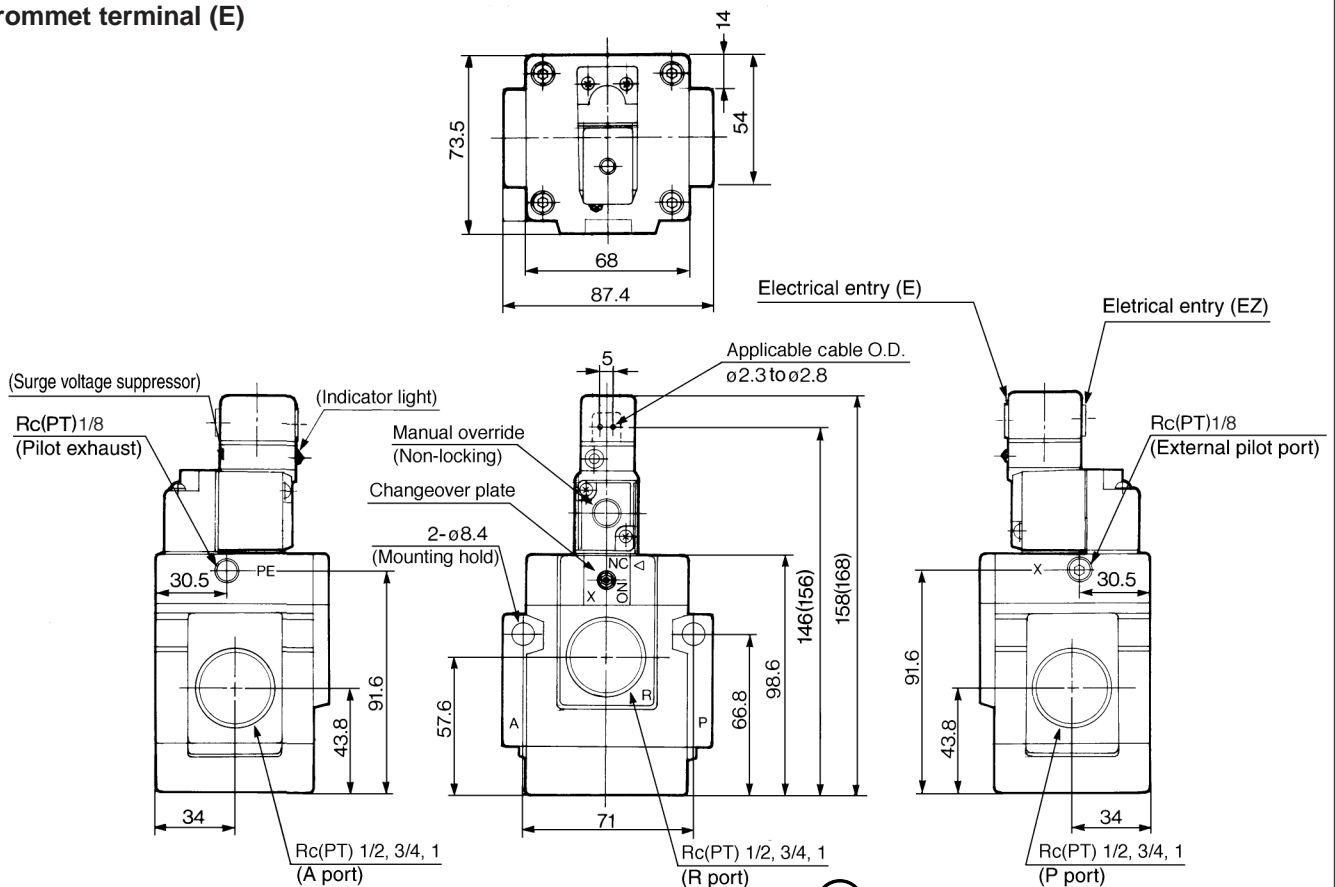
1. This is for continuous duty, not for high cycle rates. If the cycle rate is more than once a day, consult SMC.
2. Make sure to cycle valve at least once every 30 days.


Dimensions

Grommet (G)



Grommet terminal (E)



 (): With indicator light and surge voltage suppressor.

SY

SYJ

VK

VZ

VT

VT

VP

VG

VP

VQ

VQZ

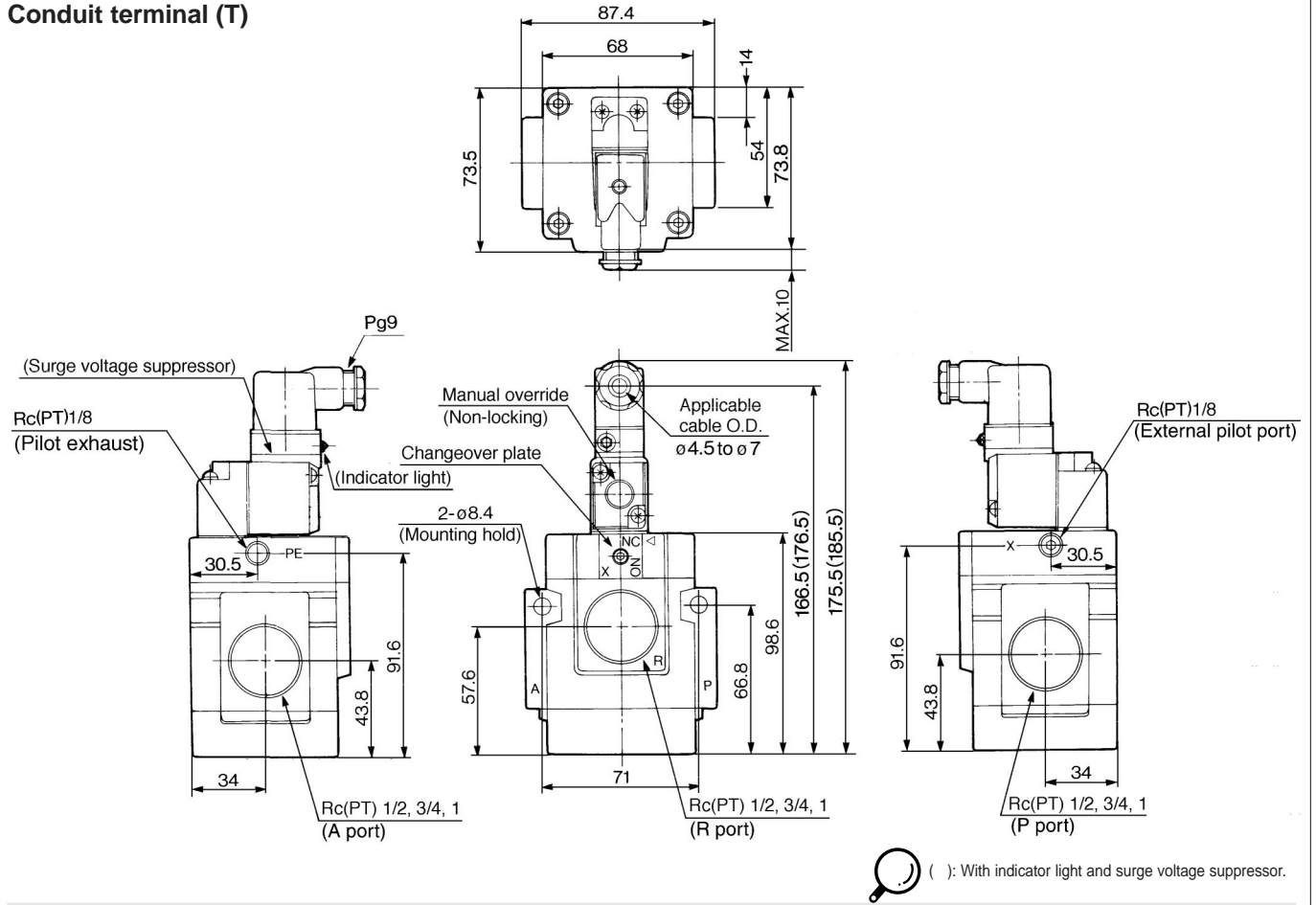
VZ

VS

VG342

Dimensions

Conduit terminal (T)



DIN connector (D)

