



FOR CC3# Actuator

PARTS LIST			
Item	Parts Name	Qty	Material
1	Cover	1	POMOB+AISI · 304+PC
2	Screw	3	AISI 304
3	Body	1	POMOB+AISI · 304+AI+CUPPER
4	Screw	3	AISI 304
5	O-Ring	1	NBR
6	O-Ring	1	NBR
7	Screw	1	AISI 304
8	Plate	1	AISI 304
9	O-Ring	1	NBR
10	Proximity scensor CN2	1	-
11	Proximity scensor CN1	1	-
12	Electrivalve SOL2	1	-
13	Electrivalve SOL1	1	-
14	linked rod slider	1	AISI 304
15	C3# Auto control actuator	1	-
16	Air connection	1	CU
17	Air connection	1	CU
18	Air connection	1	CU

⚠ Before assembling, it is necessary to confirm that the compressed air and power supply are turned off to prevent accidents caused by accidentally touching the switch.

1. Install the O-ring(9) into the groove of the adapter seat(8), and lock the adapter seat(8) to the cylinder with the set screw(7).
2. Install the O-ring (5) and the O-ring (6) on the control box base (3).
3. The drive shaft (14) of the control box is locked to the cylinder as shown in Figure 1-1, and then the base of the control box (3) is pressed down to fit the cylinder. Make sure that the base of the control box is firmly attached to the cylinder, and use the fixing screws (4). lock.
4. The cover screw(2) locks the control box cover(1) to the control box base.

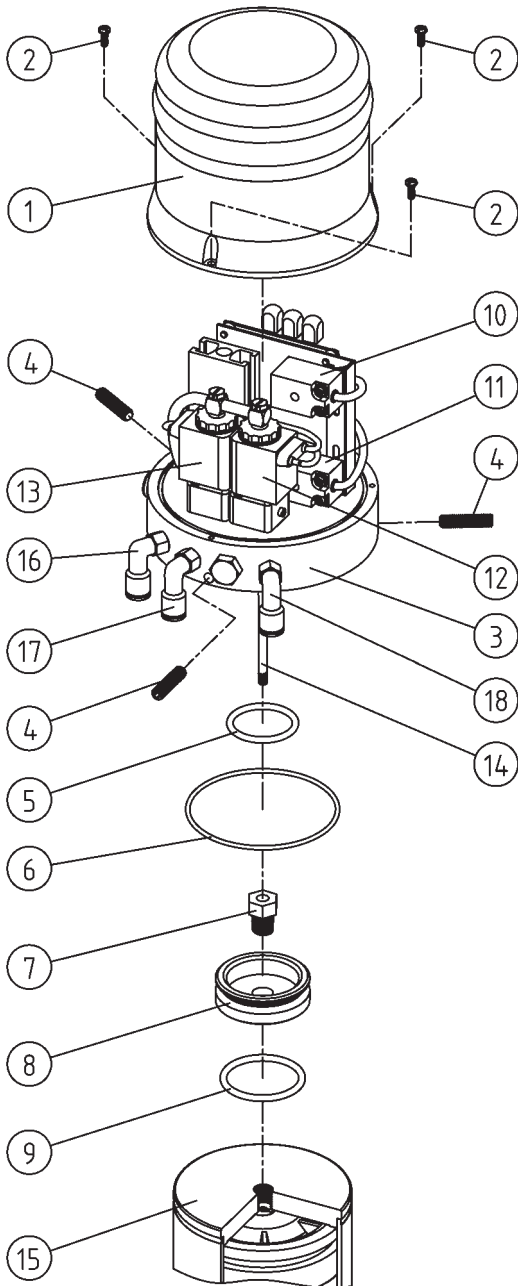


Fig 1

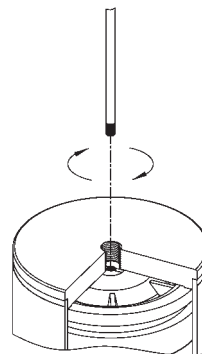


Fig 1-1

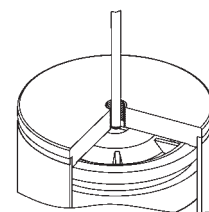


Fig 1-2

- Non-contact inductive valve position detection device (teaching function)
- Colour status indicator
- CE certification

- Size

Outer diameter x High Ø110 X 130

- Material

Shell	POMOB、SS304
Seals	EPDM
Lampshade	PC

- Status Indicator

Display device and valve status High performance LED

- Displacement sensor / Position feedback

Analog displacement sensor Inductive (non-contact) switching point with self-adjustment (PNP/ NPN)

- Range of travel for linear drives

Valve stem	2.5 - 45 mm
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- Electrical data

Operating Voltage	24V DC± 10 %
Power consumption	C5W

















- Pneumatic data

Supply pressure	5 - 7 bar
Control gas connection	threaded connection G 1/8 copper

















- Control System

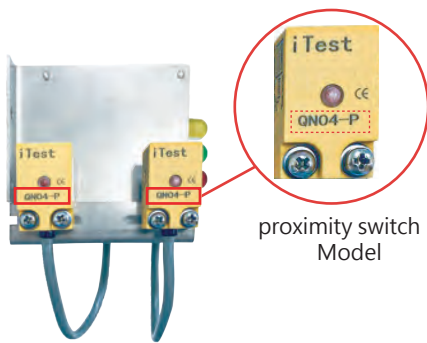
Supply pressure	250 IN / min (for ventilation and exhaust) Absolute value of pressure drop from 7 to 6 bar by definition (QNn)
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For 1 solenoid valve and 2 proximity switches	
1	Power supply 0V DC
2	Power supply 24V DC
3	Output signal / Red light (SNR1)
4	
5	Output signal / Green light (SNR2)
6	
7	
8	Power input 24V / Electrivalue S2(SOL2)

1	2	3	4	5	6	7	8
							
							

For 2 solenoid valve and 1 proximity switches	
1	Power supply 0V DC
2	Power supply 24V DC
3	Output signal / Red light (SNR1)
4	
5	Output signal / Green light (SNR2)
6	Power input 24V / Electrivalue S1 (SOL1)
7	
8	Power input 24V / Electrivalue S2 (SOL2)

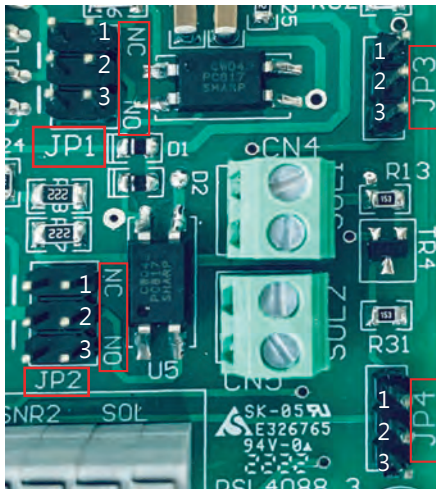
1	2	3	4	5	6	7	8
							
							



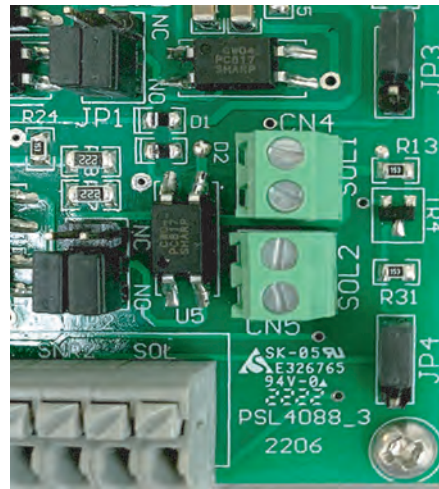
Four models and specifications of proximity switches

- Model QN04 -P → PNP / NO
- Model QN04 -P2 → PNP / NC
- Model QN04 -N → NPN / NO
- Model QN04 -N2 → NPN / NC

PNP 、NPN Pin position map



PNP / NO Pin position map



The model and specifications of the proximity switch must be the same as the signal contacts on the PCB panel

PNP-NC

- Adjust the JP1 jumper cap to the pin 1 and 2 positions
- Adjust the JP2 jumper cap to the pin 1 and 2 positions
- Adjust the JP3 jumper cap to the pin 1 and 2 positions
- Adjust the JP4 jumper cap to the pin 1 and 2 positions

PNP-NO

- Adjust the JP1 jumper cap to the pin 2 and 3 positions
- Adjust the JP2 jumper cap to the pin 2 and 3 positions
- Adjust the JP3 jumper cap to the pin 1 and 2 positions
- Adjust the JP4 jumper cap to the pin 1 and 2 positions

NPN-NC

- Adjust the JP1 jumper cap to the pin 1 and 2 positions
- Adjust the JP2 jumper cap to the pin 1 and 2 positions
- Adjust the JP3 jumper cap to the pin 2 and 3 positions
- Adjust the JP4 jumper cap to the pin 2 and 3 positions

NPN-NO

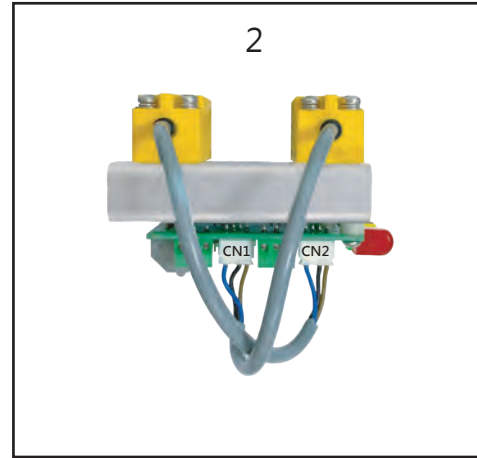
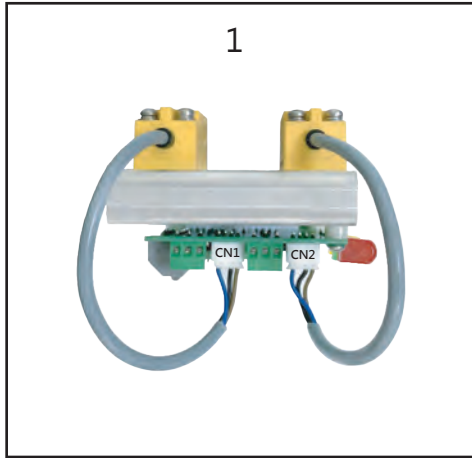
- Adjust the JP1 jumper cap to the pin 2 and 3 positions
- Adjust the JP2 jumper cap to the pin 2 and 3 positions
- Adjust the JP3 jumper cap to the pin 2 and 3 positions
- Adjust the JP4 jumper cap to the pin 2 and 3 positions

LED Red light	LED Green light	LED Yellow light	Illustrate
			Contact CN2 proximity switch
			Contact CN1 proximity switch
			No contact with CN1 and CN2, light up after 10 seconds

CSE C3# Actuator assembled butterfly valve (ball valve) The position of the proximity switch wiring in the control box is as shown in the figure Verify that the body assembly is Normally closed (NC) or Normally open (NO).

(1) When the assembly method is NC, the contact of the proximity switch patch wire is (Figure 1)

(2) When the assembly method is NO, the contact of the proximity switch patch wire is (Figure 2)



Control box system design is suitable for CSE C3N.C3#.
pneumatic valve, such as butterfly valve, ball valve

The newly designed control box improves on the old functions
with the following advantages:

- 360° bright and transparent lampshade can clearly understand the lights and valves operation, increase the fault light display (yellow light).
- Fixed piston action platform for smooth signal transmission.
- 1 or 2 valves can be made according to single-acting cylinder and double-acting cylinder valve Electric valve design and signal transmission.
- Modern PCB wiring design and quick-plug wiring method.
- The upper cover of the new control box is quicker and easier to assemble and disassemble.