

Troubleshooting — 1

Periodic inspection

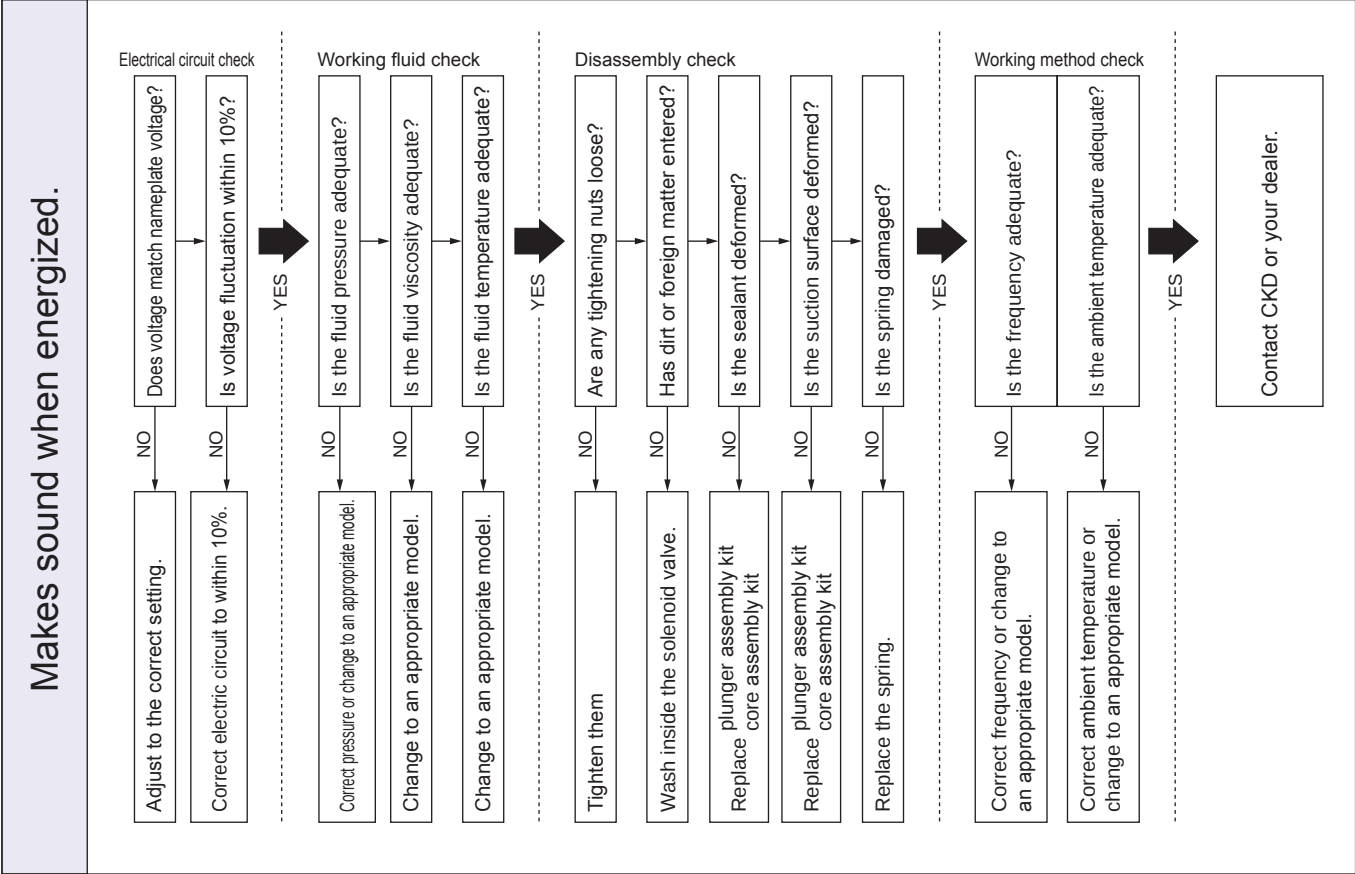
- Periodic inspections, once or twice a year, are the best method to ensure that the solenoid valve can be used for a long time. If items 1 to 4 below adhere in the solenoid valve, smooth and correct operation could be obstructed and the solenoid valve durability could be shortened.

- 1 Change in quality of fluid in use
- 2 Rust inside pipes
- 3 Oil oxides, carbon or tar from compressors
- 4 Trash/foreign matter

Precautions for maintenance and inspections

- Always turn the power OFF and release any fluids or pressure before starting inspection.
- When washing the product, use a neutral detergent or kerosene, etc. (If the sealant material is EPDM, it could expand, so kerosene cannot be used.)
- Contact CKD sales personnel if you have any questions regarding the disassembly procedures or repair parts, etc.

[Solenoid valve]



Fluid does not flow.

Power & electrical circuit check

Turn "ON".

NO

Is the power turned "ON" ?

NO

Adjust to the correct setting.

NO

Does voltage match the nameplate voltage?

NO

Is voltage fluctuation within 10%?

NO

Is there a humming or clicking sound at power ON?

YES

Working fluid check

Correct pressure or change to an appropriate model.

NO

Is the fluid pressure adequate?

NO

Is the fluid viscosity adequate?

NO

Is the fluid temperature adequate?

YES

Disassembly check

Wash inside the solenoid valve.

NO

Has dirt or foreign matter entered?

NO

Is the sealant dislodged?

NO

Is the sealant deformed?

NO

Are sides of the plunger worn?

NO

Is the spring dislodged?

YES

Working method check

Correct the frequency or change to an appropriate model.

NO

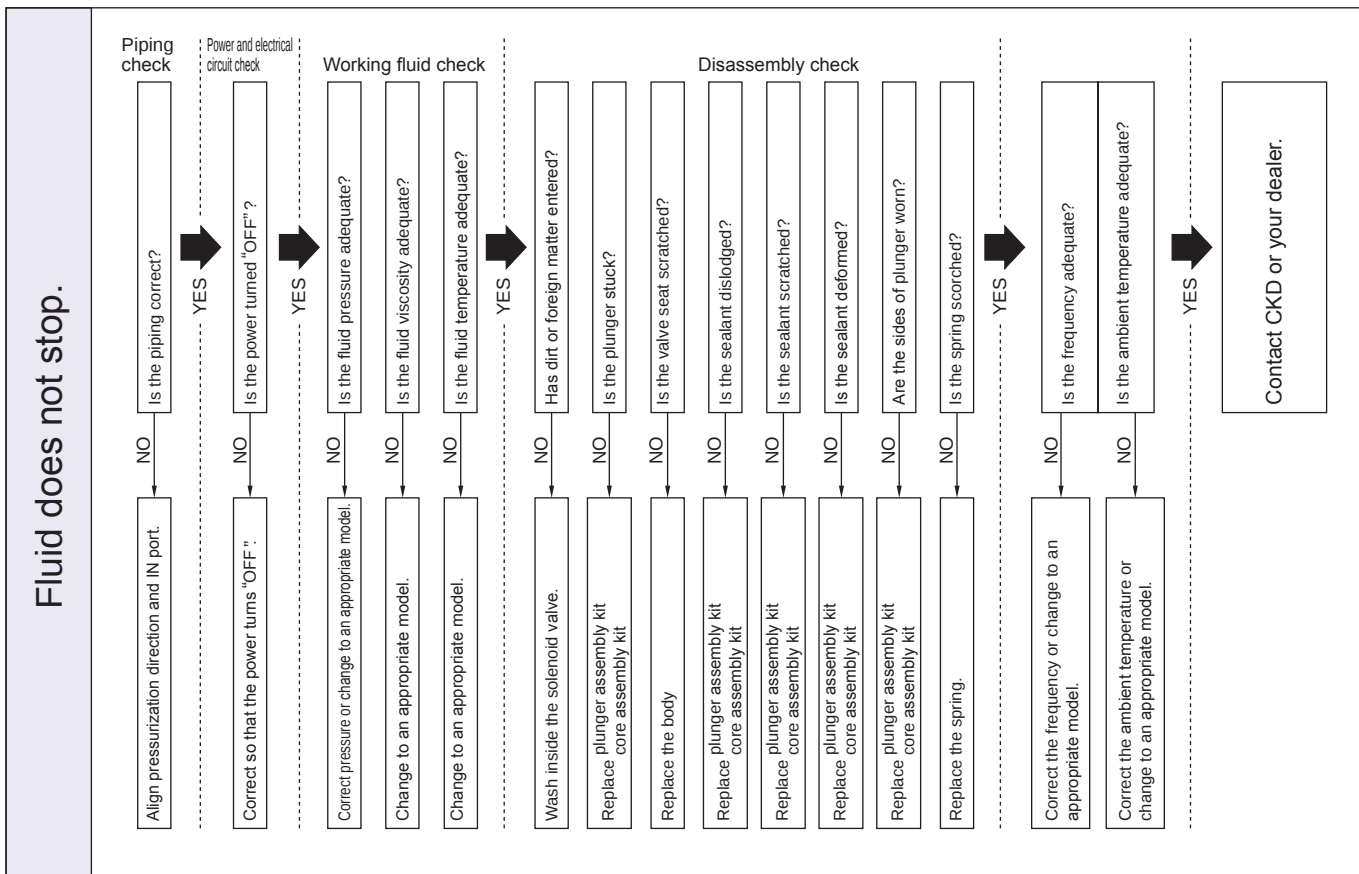
Is the frequency adequate?

NO

Is the ambient temperature adequate?

YES

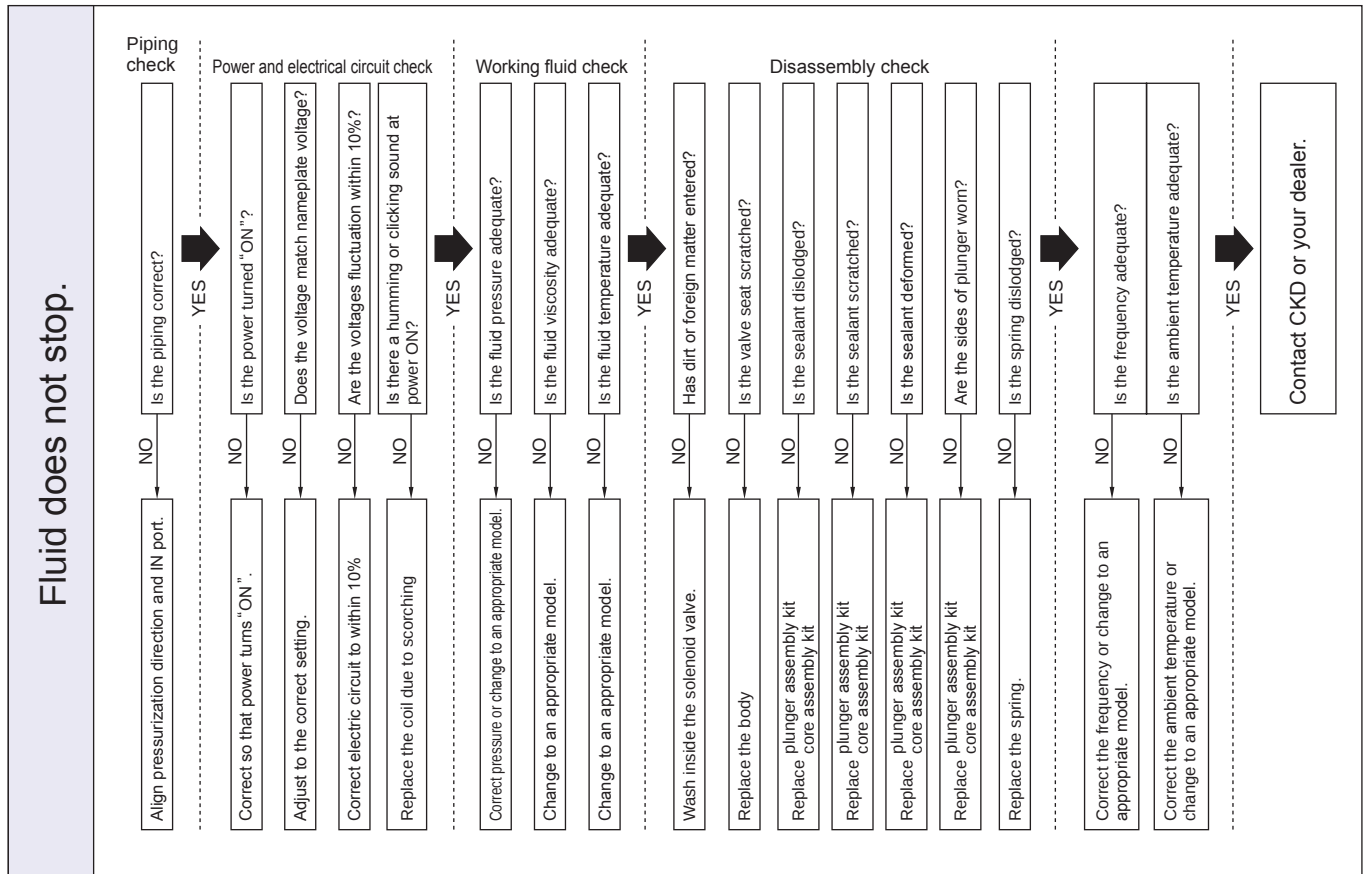
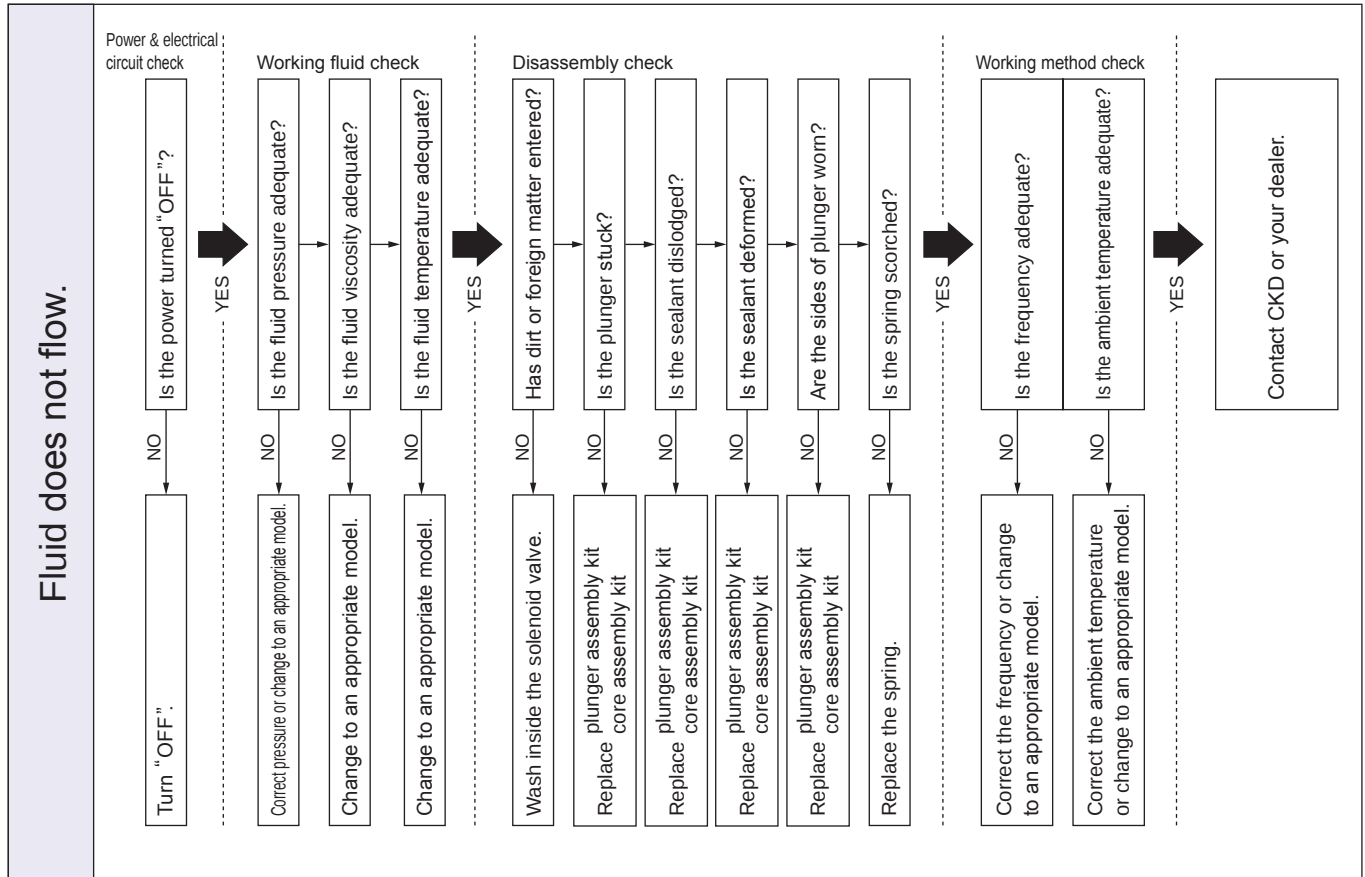
Contact CKD or your dealer.



Solenoid valve

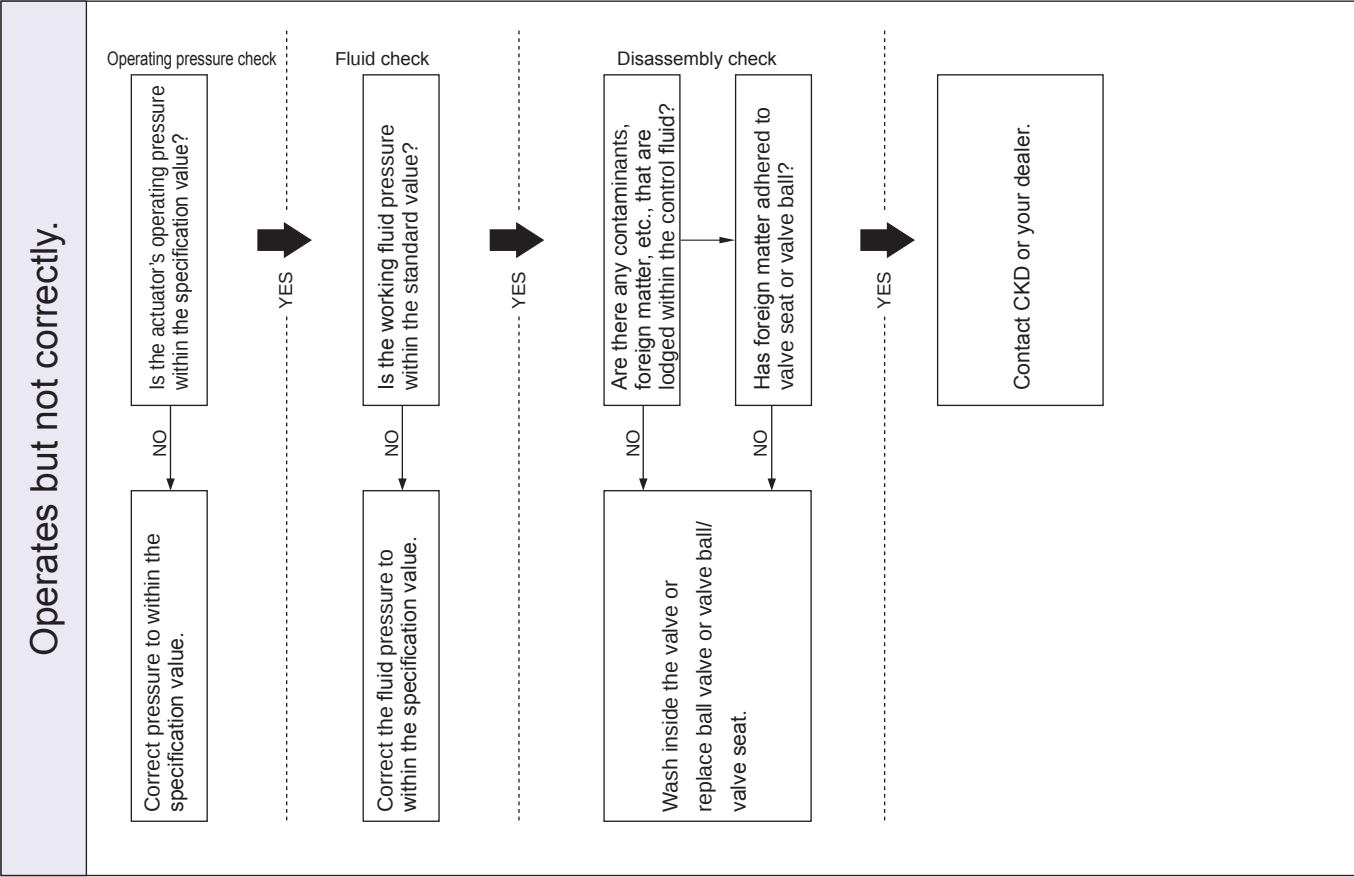
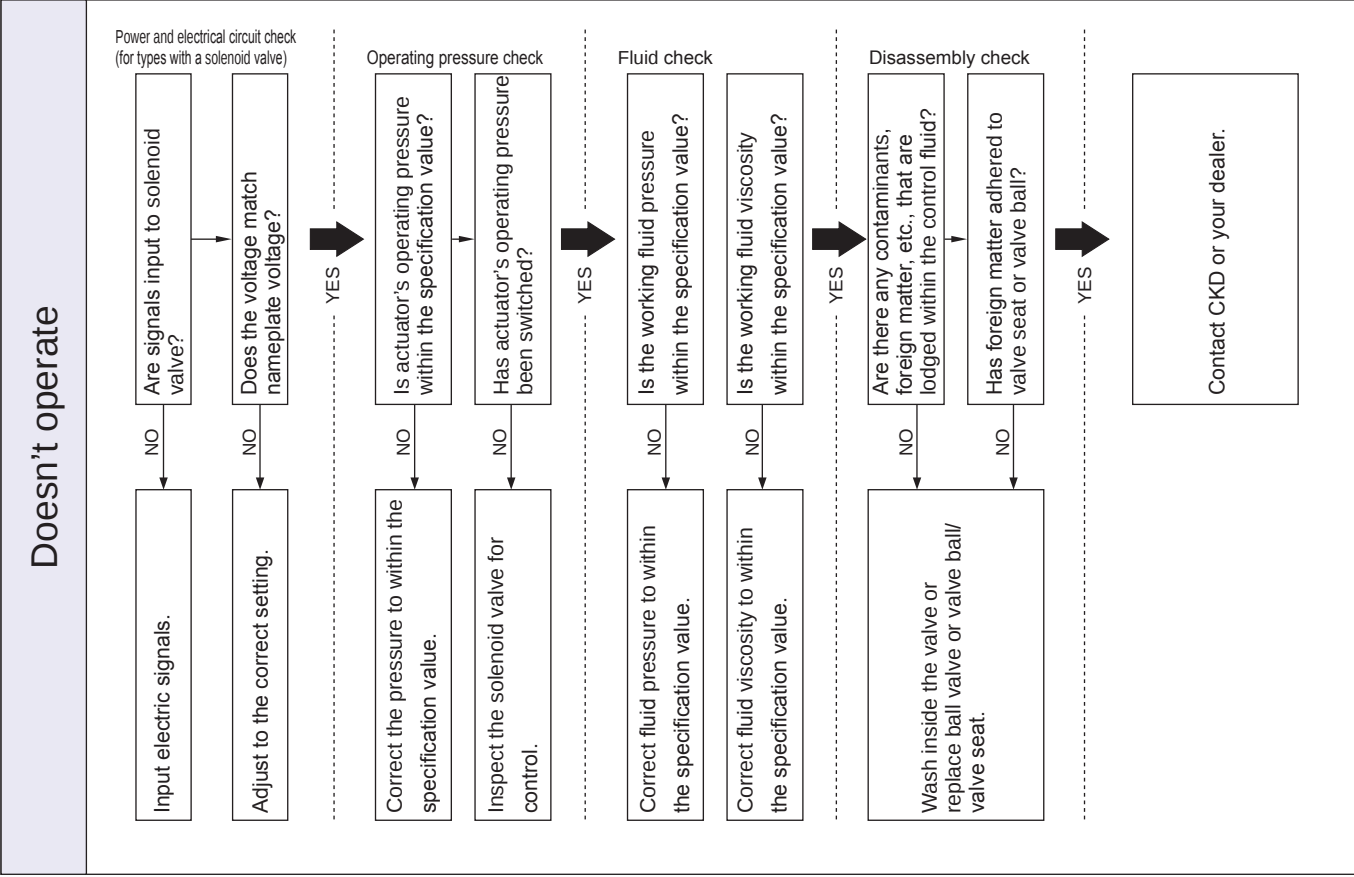
Troubleshooting

● NO (closed when energized)



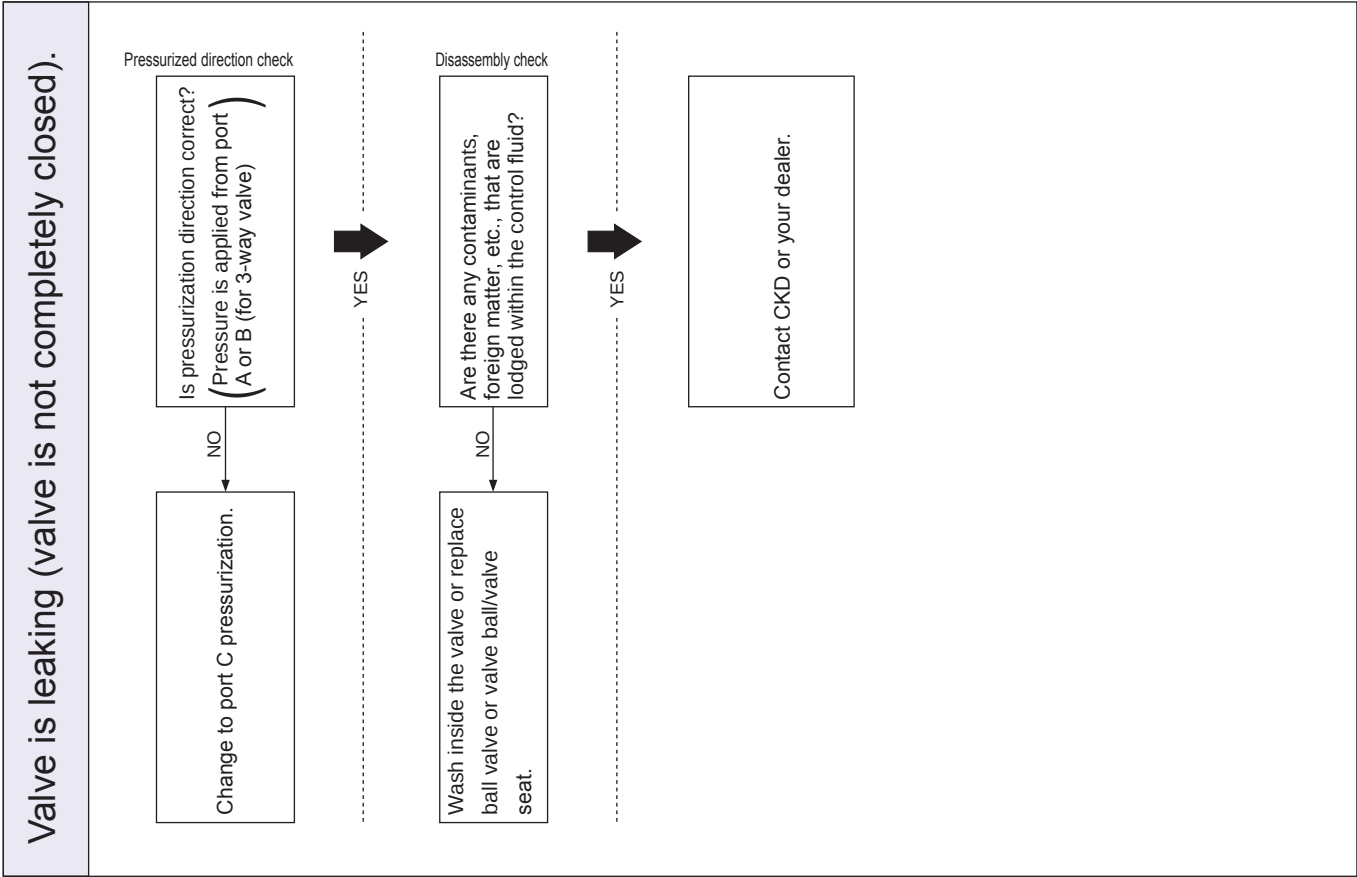
Troubleshooting — 2

[Air operated 2, 3-port ball valve
(compact rotary valve)]



Air operated ball valve

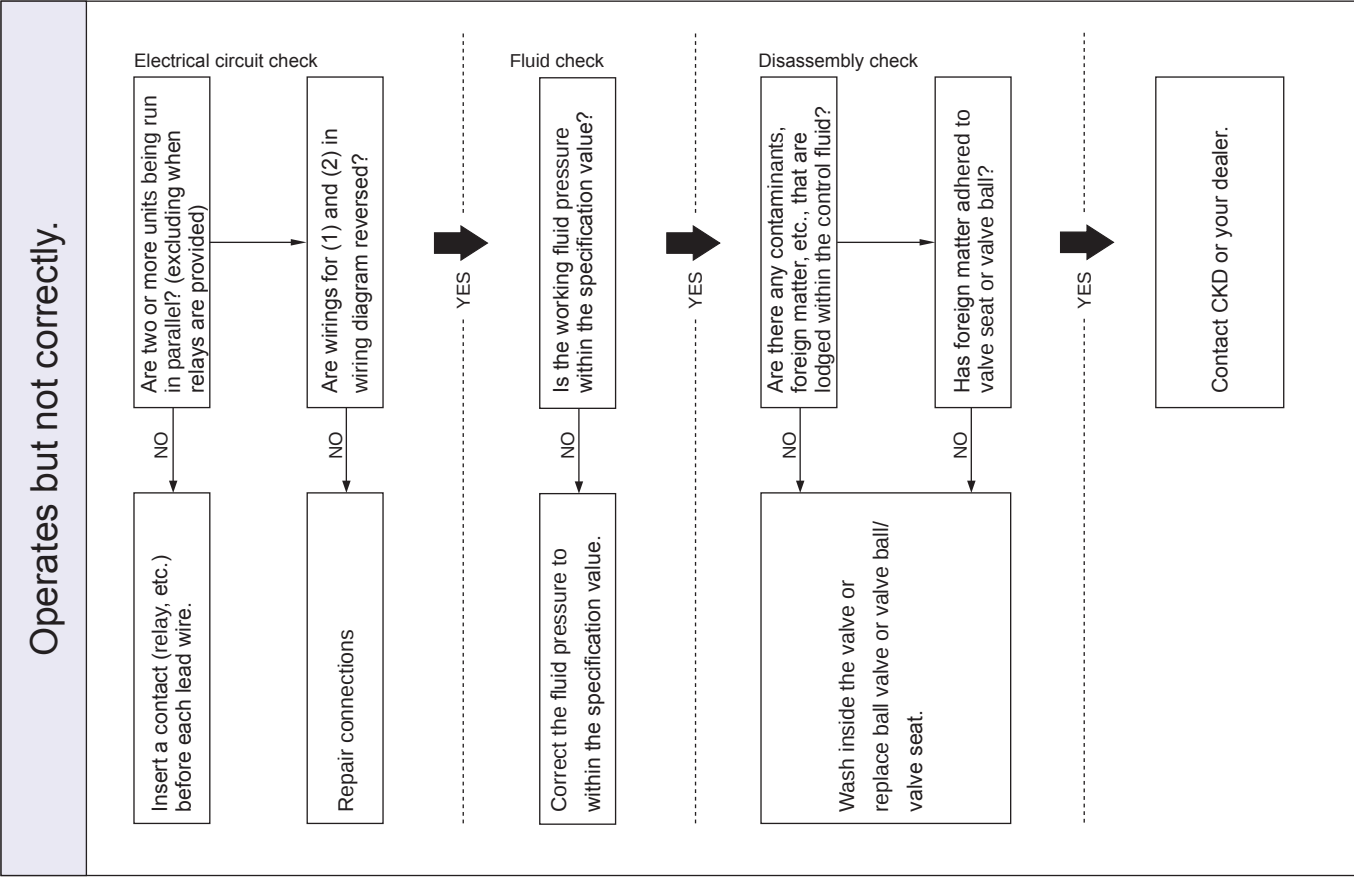
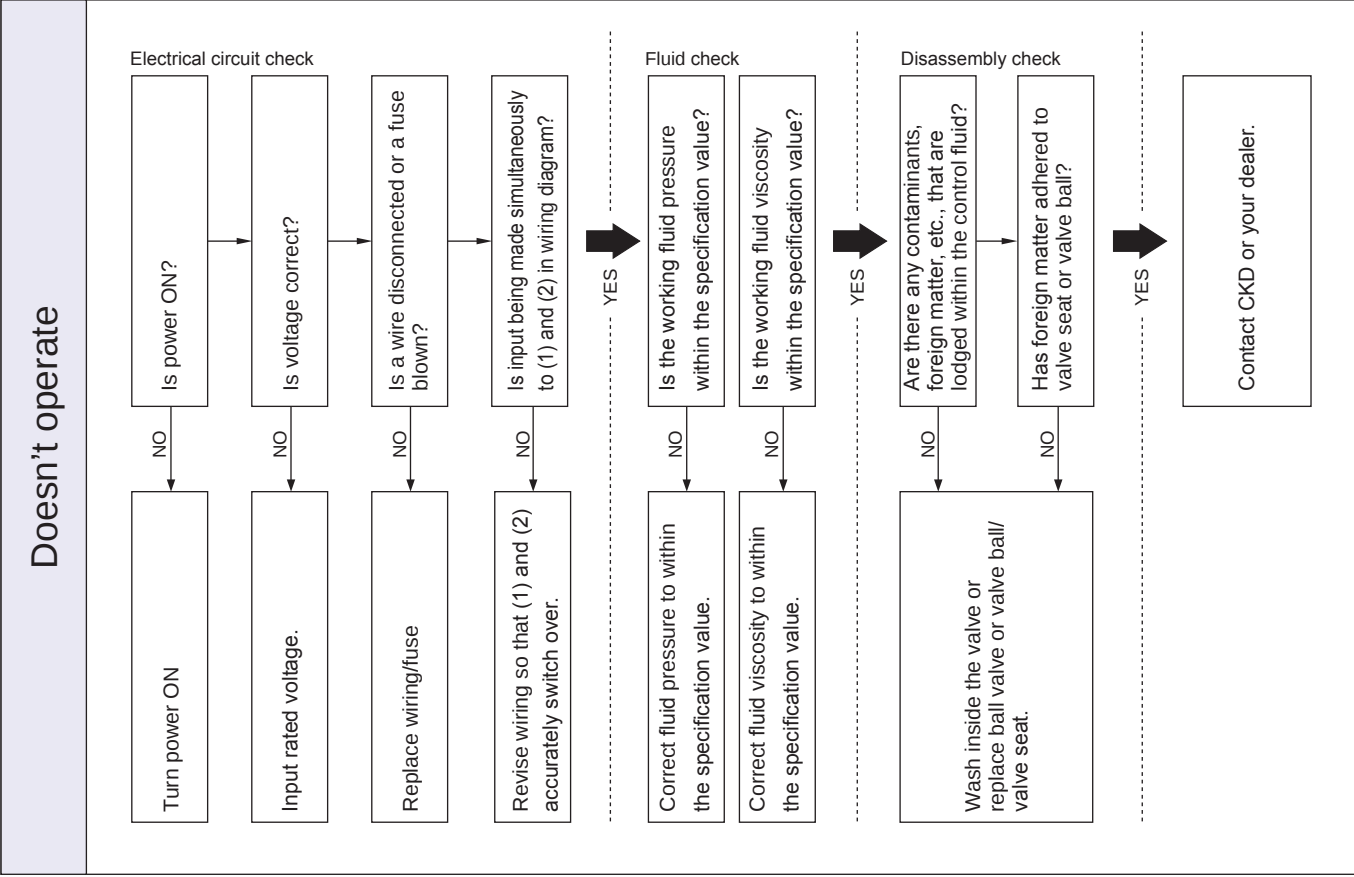
Troubleshooting



Note: The ball valve for the bronze body cannot be disassembled, so replace the ball valve.

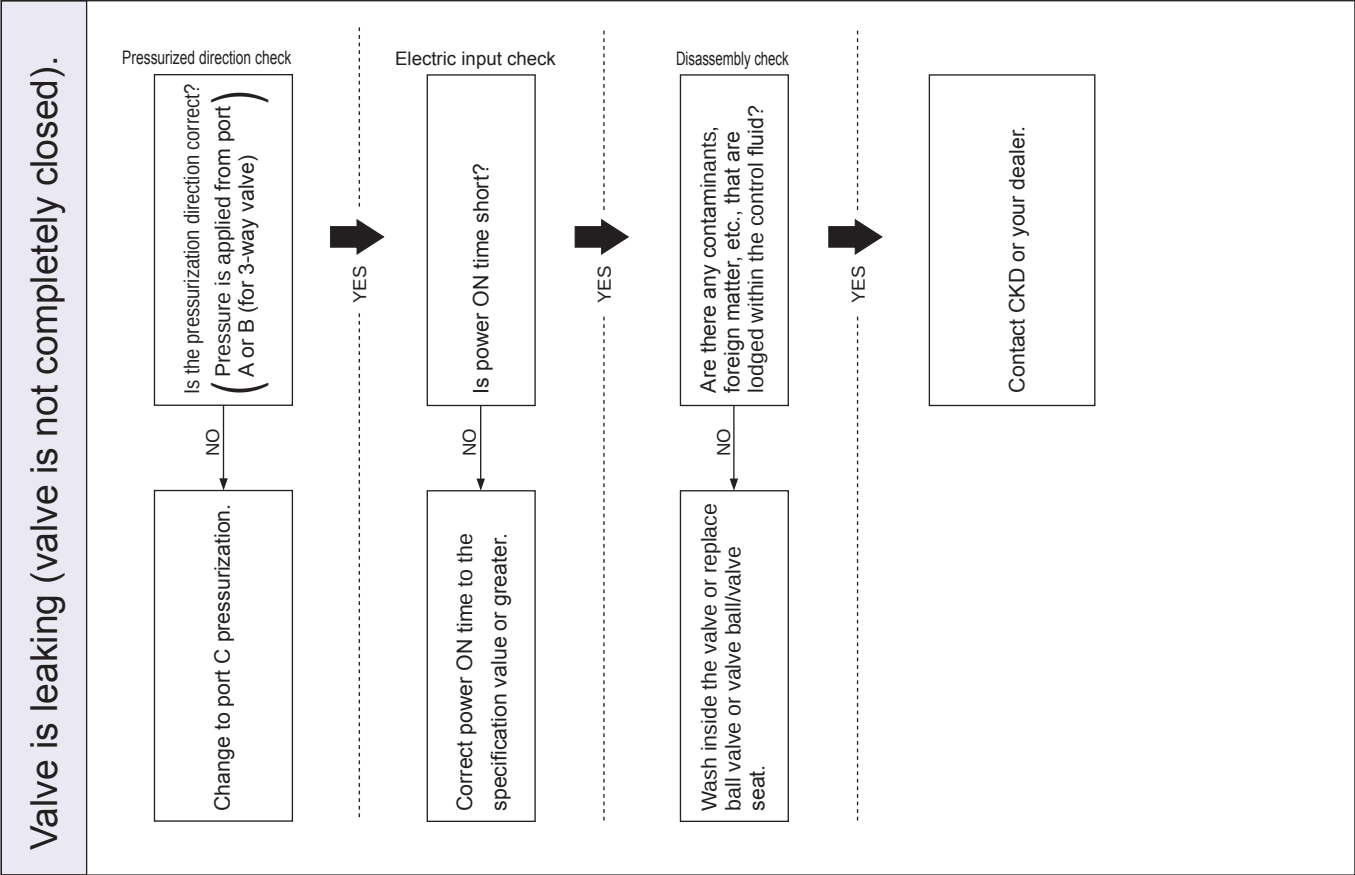
Troubleshooting — 3

[Motor driven 2, 3-port ball valve
(Motor valve)]



Motor driven ball valve

Troubleshooting

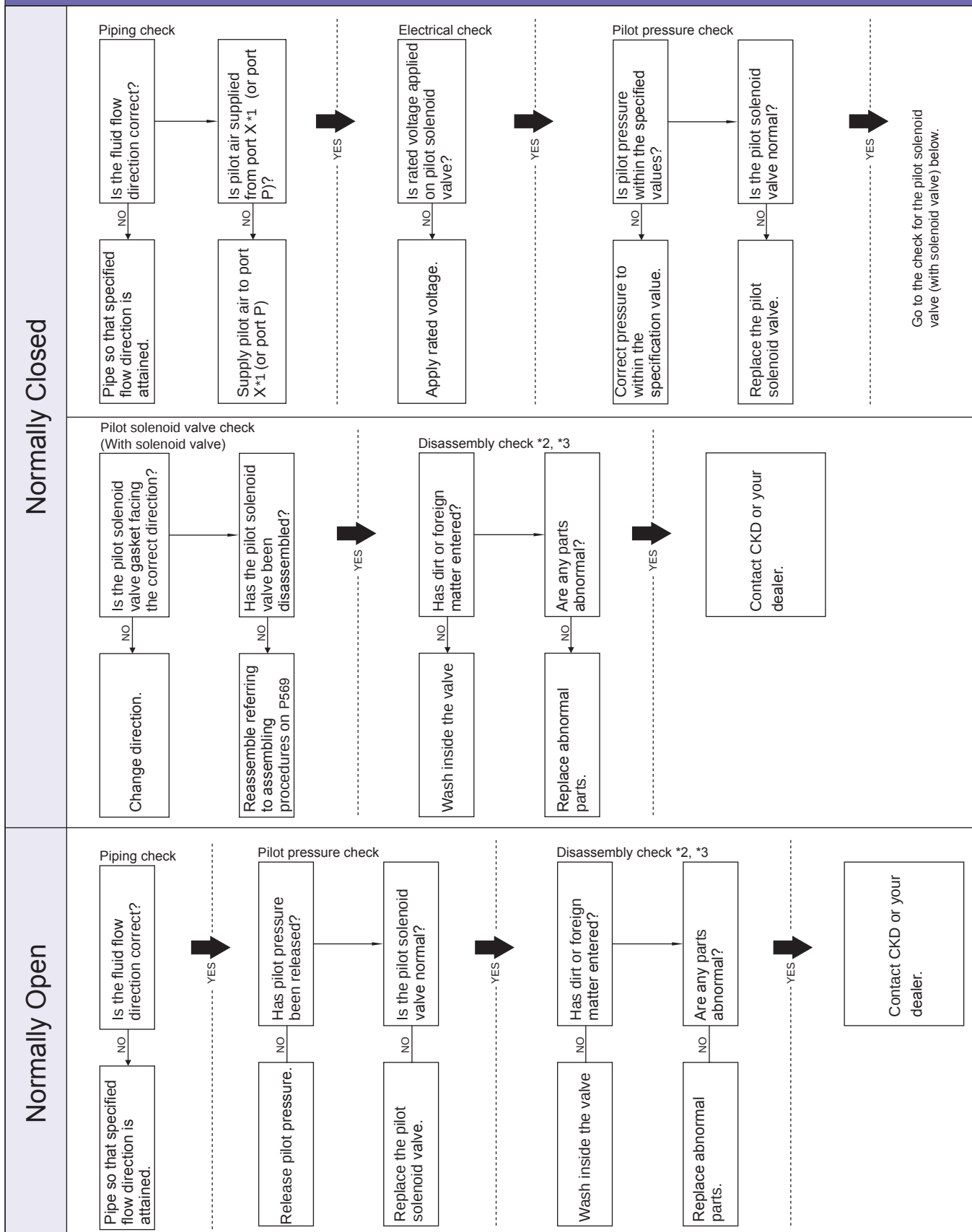


Note: The ball valve for the bronze body cannot be disassembled, so replace the ball valve.
[MXB1/MXB1F/MXG1/MXB1D/MXB1DF/MXG1D/MSB1/MSB1F/MSB1D/MSB1F/MXBC/MXGC]

Troubleshooting — 4

[Air operated 2-port valve
(cylinder valve)]

Valve does not open or specified flow rate is not attained



*1. Port Y for LAD

*2. It is prohibited to disassemble LAD or NAD.

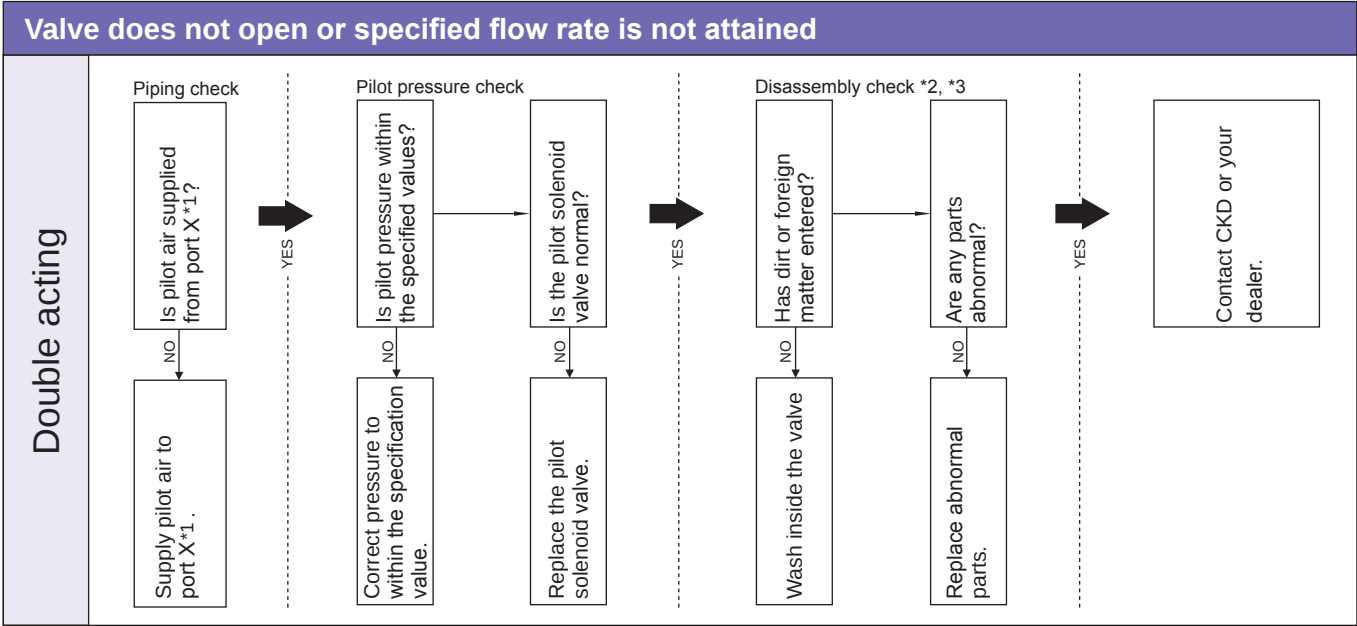
*3. Refer to "Cautions for disassembling" in the instruction manual.

Technical data

Ending

Air operated 2-port valve

Troubleshooting

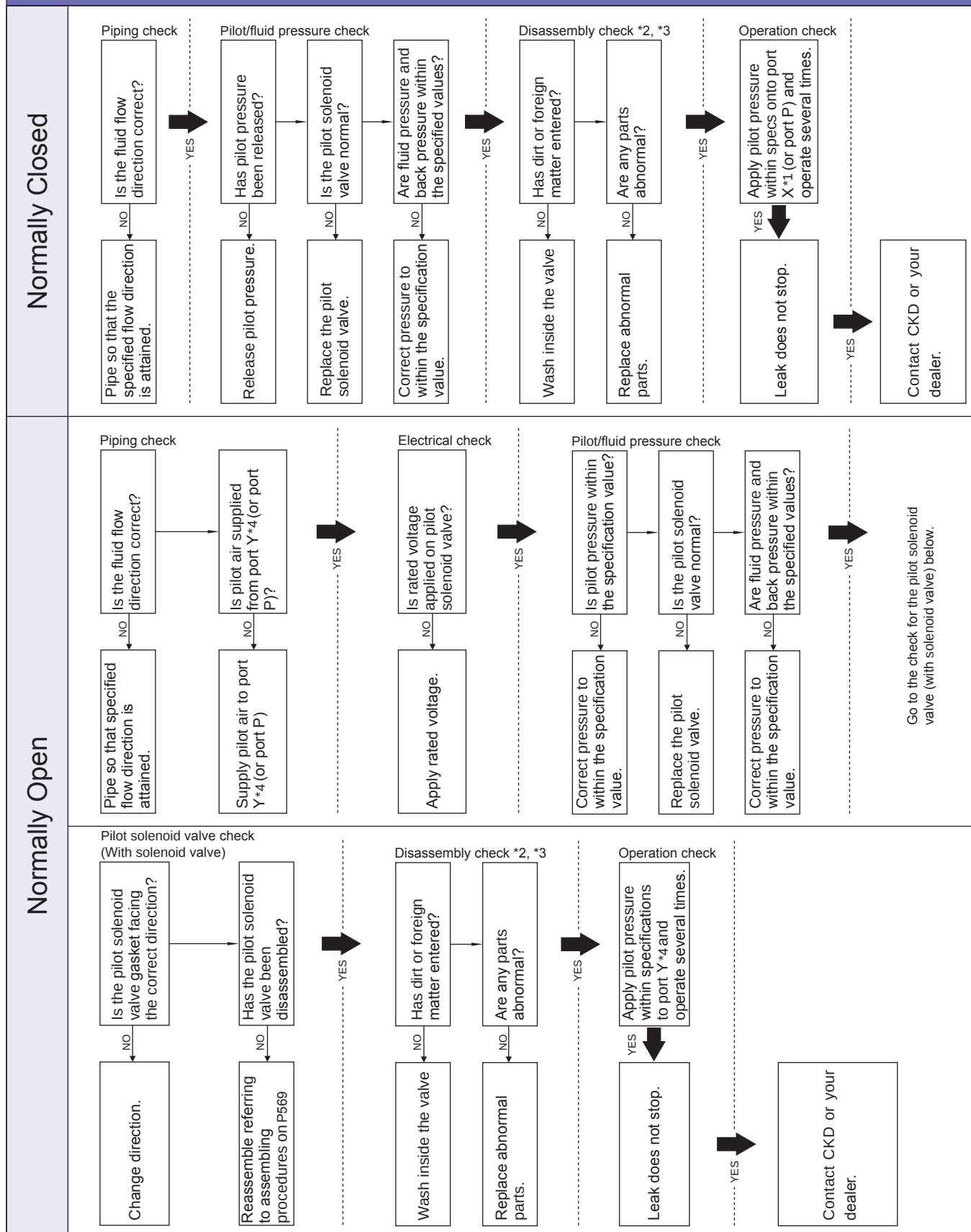


*1. Port Y for LAD
*2. It is prohibited to disassemble LAD or NAD.
*3. Refer to "Cautions for disassembling" in the instruction manual.

Troubleshooting — 4

[Air operated 2-port valve (cylinder valve)]

Valve does not close or is leaking.



*1. Port Y for LAD

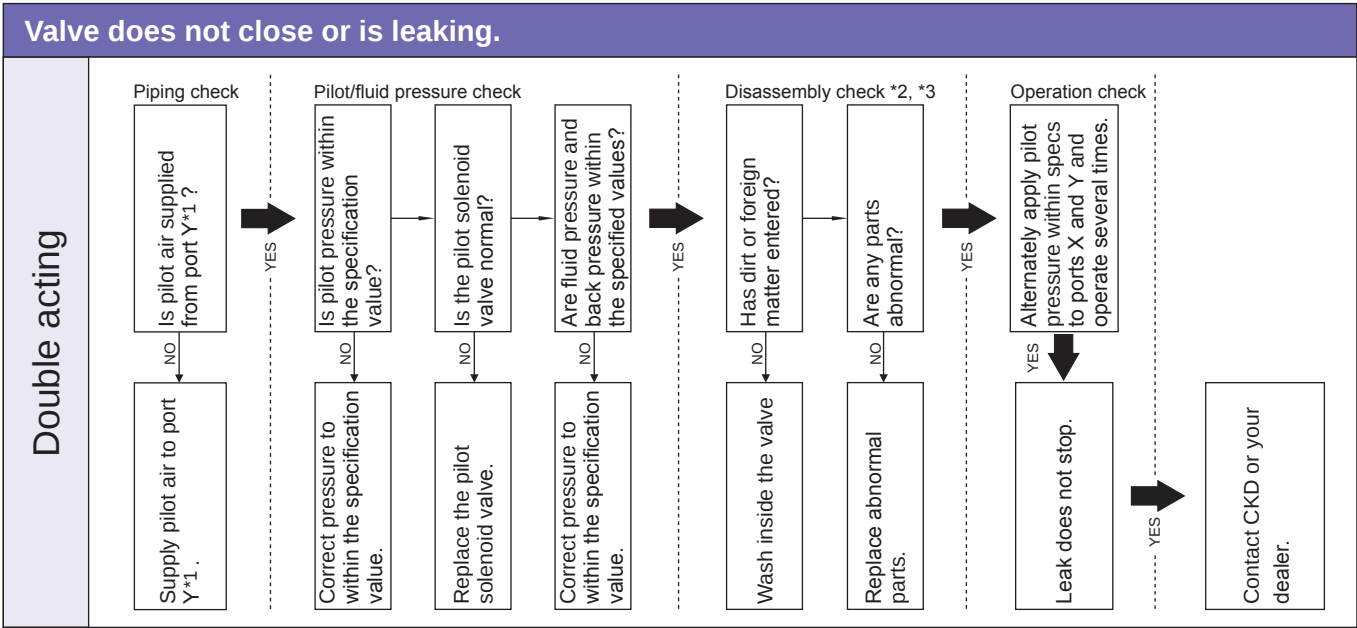
*2. It is prohibited to disassemble LAD or NAD.

*3. Refer to "Cautions for disassembling" in the instruction manual.

*4. Port X for LAD

Air operated 2-port valve

Troubleshooting



*1. Port X for LAD
*2. It is prohibited to disassemble LAD or NAD.
*3. Refer to "Cautions for disassembling" in the instruction manual.