

Trouble Check Points

Overall: 74 items [Detail]

Common	14 items	F.R.L.	14 items
Air Cylinder	18 items	Others	15 items
Valve	13 items		

These trouble check points show the contents to be checked on the spot when quality trouble occurs during use. Confirm the check points of the “Common” and applicable “Product Group.”

Product Group Common & Cylinder

No	Product Group	Phenomenon	Check	Check Points [On Site]
1	Common	—		Is the pressure, temperature and kinetic energy, etc. outside of the specification range?
2	Common	—		Are there any scratches, gouges or damage? → Check the occurrence of these troubles during installation and transportation.
3	Common	—		Is there any looseness of screws, or protrusion of the gasket?
4	Common	—		Is there any evidence of disassembly?
5	Common	—		Has air been supplied? (Is the stop valve closed?)
6	Common	—		Is the tubing connected correctly?
7	Common	—		Is there air leakage from the tubing?
8	Common	—		Is there an air preparation system? Is it functioning?
9	Common	—		Is the knob, etc. being turned in reverse?
10	Common	—		Is the product mounted in the correct direction (IN/OUT)?
11	Common	—		Is the tubing threaded portion connected properly (Sealant tape, etc.)?
12	Common	—		Is there any looseness in the tubing/connection thread portion?
13	Common	—		Is there any problem with the tubing/connection thread type/size?
14	Common	—		Is there any damage to the tubing/connection thread due to over tightening?
15	Air Cylinder	Air leakage		Has any foreign matter in the operating environment adhered to the sliding parts?
16	Air Cylinder	Air leakage		Is there any moisture flowing in? Is there any trouble with the air preparation equipment?
17	Air Cylinder	Air leakage		Is any partial wear on the sliding surface of the piston rod occurring due to an excessive lateral load and moment interaction?
18	Air Cylinder	Air leakage		Have the tubing port threads been tightened excessively?
19	Air Cylinder	Air leakage/malfunction		Is there any liquid (drain or water) stuck inside the tubing or port?
20	Air Cylinder	Air leakage/malfunction		Is there any foreign matter adhered to the inside of the tubing or port?
21	Air Cylinder	Air leakage/malfunction		Is there any foreign matter (including liquid) adhered to the sliding surface of the piston rod?
22	Air Cylinder	Air leakage/malfunction		Has the correct tightening torque been used for mounting the product?
23	Air Cylinder	Malfunction		Is there any scratching occurring on the piston rod, etc. due to an excessive lateral load and moment interaction?
24	Air Cylinder	Malfunction		Is the operating speed out of specification due to the flow rate being reduced in the speed controller, etc.?
25	Air Cylinder	Malfunction		Is the maximum stroke being exceeded?
26	Air Cylinder	Malfunction		Does the load transfer direction conform to the rod center?
27	Air Cylinder	Malfunction		Is the operating speed out of the specification range?
28	Air Cylinder	Malfunction		Is the cylinder being operated while the cushion valve is fully closed?
29	Air Cylinder	Malfunction		Is there any bending of the tubing?
30	Air Cylinder	Malfunction		Is the meter-in/meter-out of the speed controller correct?
31	Air Cylinder	Damage		Is there any excessive lateral load, moment, or external force occurring?
32	Air Cylinder	Appearance defect (Rust)		Is it being used in an environment with splashing water Has the product been stored for a long period of time in a high humidity environment?

No	Product Group	Phenomenon	Check	Check Points [On Site]
33	Valve	Air leakage		Has any foreign matter (including drain) adhered to the connection port (fittings) etc.?
34	Valve	Air leakage		Is there any looseness in the mounting screws of the sub-plate (manifold)?
35	Valve	Malfuction		Is the voltage within the range of the rated voltage (-10% to +10%)?
36	Valve	Malfuction		Is the product installed in a location where it is exposed to vibrations?
37	Valve	Malfuction		Has the product been wired correctly?
38	Valve	Malfuction		Have the wires been securely inserted into the wiring socket? (Pull on the lead wires one at a time to confirm.)
39	Valve	Malfuction		Are there any scratches on the wiring?
40	Valve	Malfuction		Has the product been energized for a long time (duty ratio of 50% or more)?
41	Valve	Malfuction		Is the PE port plugged?
42	Valve	Malfuction		Is the upstream side tubing diameter sufficient? (Is it being reduced?)
43	Valve	Malfuction		Is the valve mounted correctly? (Horizontal, vertical)
44	Valve	Malfuction		Is an electrical signal being received?
45	Valve	Malfuction		Is there any clogging of the silencer?
46	F.R.L.	Air leakage		Has the direction been reversed when disassembled to change the specification?
47	F.R.L.	Air leakage		Have the seals, etc. been omitted when disassembled to change the specification?
48	F.R.L.	Air leakage		Was the proper torque used to tighten the screws when disassembled to change the specification?
49	F.R.L.	Air leakage		Is there any possibility of foreign matter entering into the body when the tubing was connected? (Including entry from the OUT port)
50	F.R.L.	Air leakage		Has an inspection been implemented beyond the specifications? (When an enclosure inspection of the secondary side air is performed with the regulator, if the pressure decreases even slightly it is not acceptable.)
51	F.R.L.	Air leakage		Is the operating pressure of the normally closed float type auto drain at the specified value or more? (AD17, 27 = 0.1 MPa or more, AD37, 47 = 0.15 MPa or more)
52	F.R.L.	Air leakage		Has the non-relieving or relieving type been selected properly?
53	F.R.L.	Air leakage		Was there any mistake in the reassembly? (Pressure gauge adapter, blanking plate, check valve, etc.)
54	F.R.L.	Air leakage		Is there any foreign matter through the tubing adhered to the inside of the port?
55	F.R.L.	Malfuction		Has the AL sight dome been turned with excessive torque? (Is the sight dome deformed?)
56	F.R.L.	Malfuction		Is there any possibility that the product was dropped on the floor, hit against something, or had an impact applied?
57	F.R.L.	Malfuction		Is the IN/OUT correct?
58	F.R.L.	Malfuction		Has the inlet pressure and the outlet flow rate been fluctuating?
59	F.R.L.	Air leakage		Is there any solvent in the environment?
60	Pressure Gauge	Malfuction		Has excessive pressure been applied?
61	Pressure Gauge	Malfuction		Are there any traces of impact including dropping?
62	Pressure Gauge	Malfuction		Is there any oscillation or pulsation occurring?
63	Vacuum Ejector	Malfuction		Is the supply pressure correct? (Set operating pressure)
64	Vacuum Ejector	Malfuction		Is there any clogging of the element?
65	Vacuum Ejector	Malfuction		Is power being supplied to the valve?
66	Auto Switch	Malfuction		Is there any possibility of an over current? → What is the normally used current?
67	Auto Switch	Malfuction		Is there any effect from the magnetic field of an adjacent cylinder?
68	Auto Switch	Malfuction		Is there any mis-wiring?
69	Fittings	Air leakage		Is the tube completely inserted?
70	Fittings	Air leakage		Has the section of tubing been cut vertically?
71	Fittings	Air leakage		Is there excessive or insufficient tightening of the threads?
72	Fittings	Air leakage		Is the sealant tape wound properly?
73	Fittings	Air leakage		Is there any external force (pulling, bending) of the tubing?
74	Fittings	Malfuction		Has any foreign matter (including drain) adhered to the connection port (fittings) etc.?