

Self-Check Sheet

This checklist is intended for on-site inspection when a product quality issue occurs during use.

Please check the items under "Common" and the applicable "Product Category."

No.	Product Category	Symptom	Checkpoints	Check
1	Common	—	Is the product being used outside its specified limits (pressure, temperature, kinetic energy, etc.)?	
2	Common	—	Are there any scratches, dents, or damage? Please check whether these occurred during installation or transportation.	
3	Common	—	Are any screws loose or gaskets protruding?	
4	Common	—	Are there any signs that the product has been disassembled?	
5	Common	—	Is compressed air being supplied? (Is the shutoff valve closed?)	
6	Common	—	Is the piping connected correctly?	
7	Common	—	Is there any air leakage from the piping?	
8	Common	—	Is an air preparation system installed and functioning properly?	
9	Common	—	Is the product installed in the correct orientation (IN/OUT, etc.)?	
10	Common	—	Are the threaded piping connections properly tightened and sealed (e.g., with sealing tape)?	
11	Common	—	Have any piping or connection threads been damaged by overtightening?	
12	Cylinder	Air Leakage / Malfunction	Has moisture entered the product? Is the compressed-air treatment equipment malfunctioning?	
13	Cylinder	Air Leakage / Malfunction	Has excessive lateral load or moment caused scratches or uneven wear on the piston rod sliding surface?	
14	Cylinder	Air Leakage / Malfunction	Is there any liquid (condensate or water) inside the piping or at the ports?	
15	Cylinder	Air Leakage / Malfunction	Is any foreign matter present inside the piping or at the ports?	
16	Cylinder	Air Leakage / Malfunction	Is any foreign matter (including liquid) adhering to the piston rod sliding surface?	
17	Cylinder	Air Leakage / Malfunction	Was the proper tightening torque applied when installing the product?	
18	Cylinder	Air Leakage / Malfunction	Is any tightening torque being applied to the product when mounting the product or workpiece?	
19	Cylinder	Malfunction	Has flow restriction by a speed controller or similar device caused the operating speed to fall outside the specified range?	
20	Cylinder	Malfunction	Does the operating speed exceed the specified range?	
21	Cylinder	Malfunction	Is the rod axis aligned with the load and direction of movement?	
22	Cylinder	Malfunction	Is the cushion needle being used in the fully closed position?	
23	Cylinder	Malfunction	Is the tubing kinked?	
24	Cylinder	Malfunction	Is the speed controller correctly configured for meter-in or meter-out control?	

No.	Product Category	Symptom	Checkpoints	Check
25	Cylinder	Damage	Is the product subjected to excessive lateral loads, moments, external forces, or impacts?	
26	Cylinder	Appearance Defect (Rust)	Is the product used in an environment exposed to water? Has it been stored for a long period in high humidity?	
27	Shock Absorber	Malfunction	Did the tightening torque applied when mounting the body exceed the allowable value?	
28	Shock Absorber	Malfunction	Are there any scratches or cracks on the external threads (including thread roots)?	
29	Shock Absorber	Malfunction	Does the angular misalignment between the body axis and load direction exceed the specified limit?	
30	Shock Absorber	Malfunction	Are there any scratches or uneven wear on the rod surface?	
31	Shock Absorber	Malfunction / Damage	Is the product used in an environment exposed to airborne oil mist or dust?	
32	Sensor	Malfunction	Could an overcurrent condition have occurred? What is the normal operating current?	
33	Sensor	Malfunction	Is the sensor affected by the magnetic field of an adjacent cylinder?	
34	Sensor	Malfunction	Is the wiring incorrect?	
35	Sensor	Malfunction	Was the recommended tightening torque used when securing the sensor to the equipment?	
36	Valve	Air Leakage / Malfunction	Has moisture entered the product? Is the compressed-air treatment equipment malfunctioning?	
37	Valve	Air Leakage	Is foreign matter (including condensate) adhering to the connection ports or fittings?	
38	Valve	Air Leakage	Are any subplate (manifold) mounting screws loose?	
39	Valve	Malfunction	Is the manual override mechanism (button or lever) locked?	
40	Valve	Malfunction	Is the supply voltage within $\pm 10\%$ of the rated voltage (exceptions may apply to AC)?	
41	Valve	Malfunction	Is the product installed in a location subject to vibration?	
42	Valve	Malfunction	Is the wiring incorrect?	
43	Valve	Malfunction	Are the wiring connectors and other connections fully inserted? (Please check by pulling each lead wire individually.)	
44	Valve	Malfunction	Is the connector housing lifted, gapped, or detached?	
45	Valve	Malfunction	Are there any scratches or other damage to the wiring?	
46	Valve	Malfunction	Is the valve energized for extended periods (duty cycle of 50% or more)?	
47	Valve	Malfunction	Is the pilot exhaust port blocked by a plug or other obstruction?	
48	Valve	Malfunction	Is an electrical signal being supplied?	
49	Valve	Malfunction	Is the silencer clogged?	
50	Vacuum Ejector	Malfunction	Is the supply pressure appropriate (set pressure during operation)?	
51	Vacuum Ejector	Malfunction	Is the filter element clogged?	

No.	Product Category	Symptom	Checkpoints	Check
52	Vacuum Ejector	Malfunction	Is power being supplied to the valve?	
53	Filter / Regulator	Air Leakage	If the product was reassembled, was it installed in the correct orientation?	
54	Filter / Regulator	Air Leakage	If the product was reassembled, were all seals and gaskets reinstalled?	
55	Filter / Regulator	Air Leakage	If the product was reassembled, were the screws tightened to the proper torque?	
56	Filter / Regulator	Air Leakage	Could foreign matter have entered the body during piping installation (including through the OUT port)?	
57	Filter / Regulator	Air Leakage	For models with an automatic drain cock, is the operating pressure at or above the specified minimum (0.15 MPa)?	
58	Filter / Regulator	Air Leakage	Was the appropriate type selected (non-relieving or relieving)?	
59	Filter / Regulator	Air Leakage	Is the product exposed to a solvent atmosphere?	
60	Filter / Regulator	Malfunction	Could the product have been dropped, struck, or otherwise subjected to impact?	
61	Filter / Regulator	Malfunction	Are the inlet pressure or outlet flow rate fluctuating?	
62	Filter / Regulator	Malfunction (Pressure Adjustment Knob)	When adjusting pressure, are you operating the pressure adjustment knob while checking the pressure gauge?	
63	Pressure Gauge	Malfunction	Has pressure outside the specified operating range been applied?	
64	Pressure Gauge	Malfunction	Are there any signs of impact, such as from dropping the product?	
65	Pressure Gauge	Malfunction	Is the product subjected to impact, equipment vibration, or pressure pulsation?	
66	Fitting	Air Leakage	Is the tube fully inserted?	
67	Fitting	Air Leakage	Was the tube cut squarely (perpendicular to its axis)?	
68	Fitting	Air Leakage	Is the threaded connection tightened neither too much nor too little?	
69	Fitting	Air Leakage	Was the sealing tape applied correctly?	
70	Fitting	Air Leakage	Is the tube subjected to external forces (tension or bending)?	
71	Fitting	Malfunction	Is foreign matter (including condensate) adhering to the connection ports or fittings?	