

COVNA®



**PNEUMATIC GLOBE VALVE
USER'S MANUAL**

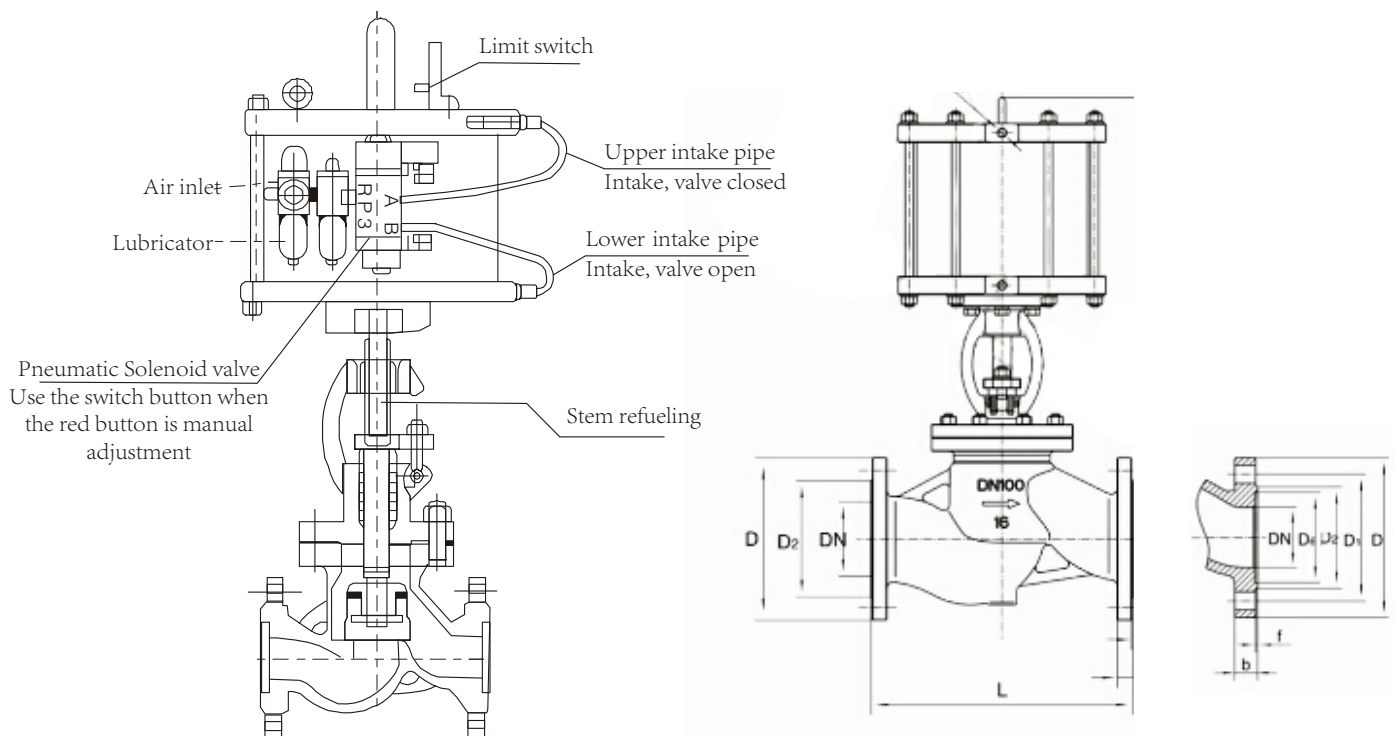
1. Product overview:

- 1) When the air source enters the upper air intake port of the cylinder, push the piston down to lower the indicator rod, that is, close the valve.
- 2) When the air source enters the lower intake port of the cylinder, push the piston upwards, the indicator rod rises, and the valve is opened.
- 3) The air source should be kept dry and clean.
- 4) Working pressure of air source is 0.4~0.7MPa.
- 5) Under normal working conditions, check once a month and check and repair once a year.

2. Material of main parts

Part Name	Part Name				
Valve body valve cover	WCB	CF8	CF3	CF8M	CF8M
Disc	WCB+2Cr13	304	304L	316	316L
Disc	2Cr13	304	304L	316	316L
Stem nut	ZQAL9-4	ZQAL9-4	ZQAL9-4	ZQAL9-4	ZQAL9-4

3. Product structure diagram



4. Main connection size:

Pressure Ratings	DN(mm)	L	D	D ₁	D ₂	D ₆	b-f	f ₁	Z-φd	H	D ₀
1.6	10	130	90	60	40	/	14-2	/	4-14	198	120
	15	130	95	65	45	/	16-2	/	4-14	218	120
	20	150	105	75	55	/	16-2	/	4-14	258	140
	25	160	115	85	65	/	16-2	/	4-14	275	160
	32	180	135	100	78	/	18-2	/	4-18	280	180
	40	200	145	110	85	/	18-3	/	4-18	330	200
	50	230	160	125	100	/	18-3	/	4-18	350	240
	65	290	180	145	120	/	18-3	/	4-18	355	280
	80	310	195	160	135	/	20-3	/	8-18	400	280
	100	350	215	180	155	/	22-3	/	8-18	415	320
	125	400	245	210	185	/	24-3	/	8-18	460	360
	150	480	280	240	210	/	24-3	/	8-23	510	400
	200	600	335	295	265	/	26-3	/	12-23	710	400
	250	650	405	355	320	/	30-3	/	12-25	786	450
300	750	460	410	375	/	30-4	/	12-25	925	500	
2.5	10	130	90	60	40	/	16-2	/	4-14	198	120
	15	130	95	65	45	/	16-2	/	4-14	218	120
	20	150	105	75	55	/	16-2	/	4-14	258	140
	25	160	115	85	65	/	16-2	/	4-14	275	160
	32	180	135	100	78	/	18-2	/	4-18	280	180
	40	200	145	110	85	/	18-3	/	4-18	330	200
	50	230	160	125	100	/	20-3	/	4-18	350	240
	65	290	180	145	125	/	22-3	/	8-18	355	280
	80	310	195	160	145	/	22-3	/	8-18	400	280
	100	350	230	190	160	/	24-3	/	8-23	415	320
	125	400	270	220	188	/	28-3	/	8-25	460	360
	150	480	300	250	218	/	30-3	/	8-25	510	400
	200	600	360	310	278	/	34-3	/	12-25	710	400
	250	650	425	370	332	/	36-3	/	12-30	786	450
300	750	485	430	390	/	40-4	/	12-30	925	500	

5、Daily maintenance of pneumatic actuators:

- 1) The air source should be kept dry and clean, and the filter should be drained regularly.
- 2) Keep the air source pressure normal (0.4~0.7MPa), and the power signal of the electrical part has no short circuit or open circuit failure to prevent water ingress and ensure the normal operation of the solenoid valve or the response switch.
- 3) Lubricate the valve stem regularly, once a month.
- 4) Under normal working conditions, it is inspected once a month and overhauled once a year.

6. Functions and uses of pneumatic actuator accessories:

- 1) Single solenoid valve: the valve opens or closes when power is supplied, and the valve closes or opens when power is off.
- 2) Double solenoid valve: the valve opens when one coil is energized, and the valve closes when the other coil is energized, with a memory function.
- 3) Echo device: remotely transmit the signal of valve opening or closing position.
- 4) Pneumatic triple parts: pressure reducing valve, filter, lubricator. It can stabilize the air source, clean and lubricate moving parts.
- 5) Manual mechanism (optional): When the circuit or gas circuit is cut off or there is a fault, the valve is opened and closed by hand.
- 6) Solenoid valves, electrical positioners, electrical converters, pneumatic positioners, echoers, etc. should be installed and debugged in accordance with relevant instructions.
- 7) Install the pneumatic actuator of the solenoid valve. When debugging, use the manual button operation (the red button on the solenoid valve) to debug, and then power on for debugging.

7. Possible failures and elimination methods

Possible failure	Cause of failure	Elimination method
Leakage on the sealing surface	<ol style="list-style-type: none">1. There are debris and dirt between the sealing surfaces.2. The sealing surface is damaged.	<ol style="list-style-type: none">1 Clean the dirt and debris on the sealing surface.2. Re-dress the sealing surface.
Filler leakage	<ol style="list-style-type: none">1. The packing gland is not tightened.2. Insufficient packing.3. Packing failure.	<ol style="list-style-type: none">1. Evenly compress the packing.2. Increase the filler.3. Replace with new packing.
Flange connection, sealing surface leakage	<ol style="list-style-type: none">1. The middle flange bolts are not tightened or the tightness is uneven.2. The sealing surface of the connecting flange is damaged.	<ol style="list-style-type: none">1. Tighten the bolts evenly.2. Re-dress the flange sealing surface.