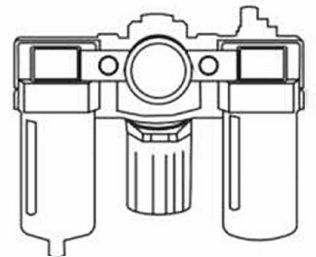
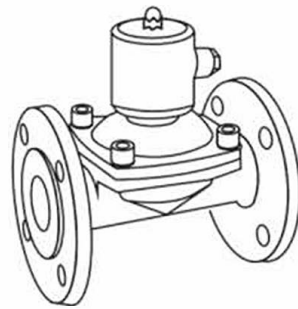
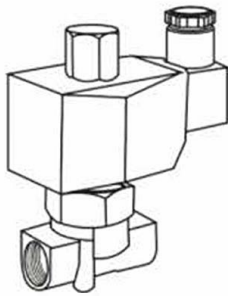
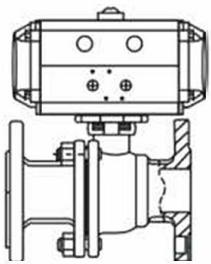




ISO9001 CE RoHS  



# OPERATING MANUAL



# Pneumatic UPVC Ball Valve

## Introduction

Ultra Low Torque, Elegant, Durable, Corrosion Resistance

Full Flow, PTFE Ball sealing, Low Torque Can Use the Handle Regulating Valve Seat Tightness Released By The Central Section Is Still Intact, Valves, Replaceable To Provide Supplementary Platform Embedded Copper Nut Products Convenient Automatic Actuator

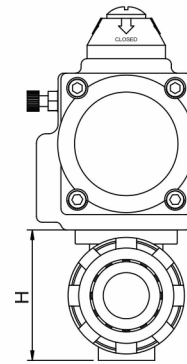
## Pneumatic Actuator

Double acting	Air to open, air to close, air supply failure to keep the current position
Single Acting N/C	Air to open, interrupt air to close, air failure to close
Single Acting N/O	Air to close, interrupt air to open, air failure to open
Optional accessory	Reversing solenoid valve, limit switch box, air filter reducing valve, positioner, handle manual, lock up valve



## Technical Parameters

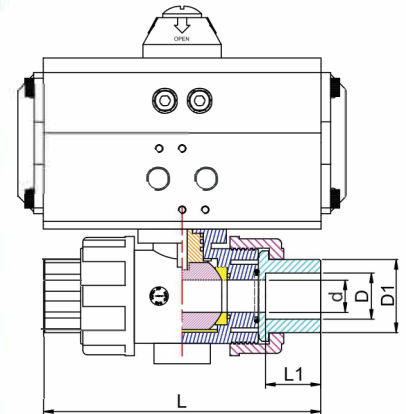
Body		Valve components	
Nominal Size	DN15~DN100	Seat Material	EPDM
Body Material	Plastic UPVC	Core Material	Plastic UPVC
Connection Type	Double union	Stem Material	SS304, SS410
Pressure Rating	PN1.0MPa PN1.6MPa	Applicable Medium	Water, Liquids, Gas, Oil, Powder, Steam, Acid-base Corrosive Medium.
Structure type	Floating ball core		



## Qutine Size drawing

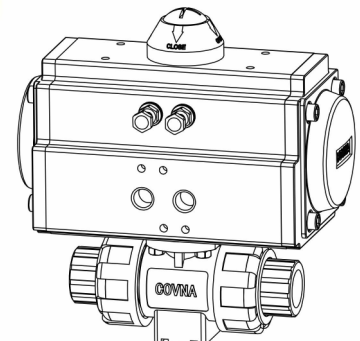
UNIT: mm

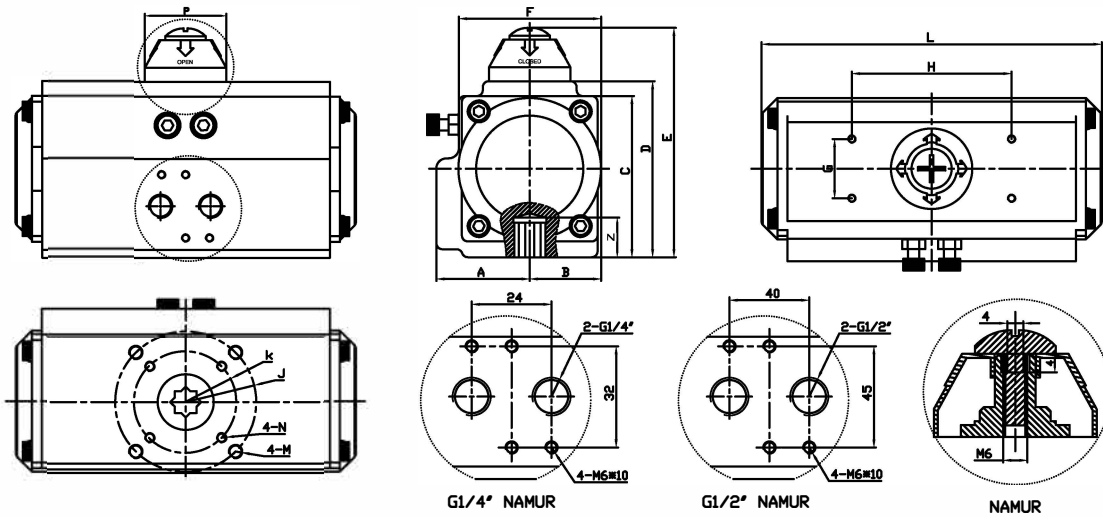
MEDLE	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
G	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
d	14	20	25	30	38	50	63	78	100
D	20	25	32	40	50	63	75	90	110
D1	30	36	45	55	64	77	96	112	141
L1	22.8	25	28.5	32	34.8	39	46	48	64.5
L	121.8	134.5	150.2	166.8	179	205	233	257	309
H	61	74	90	104	121	146	169	220	255
Weight (Kg)	1.68	1.78	1.93	2.16	3.68	4.28	5.78	9.38	13.88
Actuator	AT52	AT52	AT52	AT52	AT63	AT63	AT75	AT83	AT105



## Maintenance

- Tightening the seal between the valve and the actuator:  
Remove the four bolts underneath the actuator. Separate the actuator from the valve. Tighten the nut on the top of the valve body. Place the actuator back on the valve and screw everything back into place.
- Tightening the seals between the valve and the inlet/outlet ports:  
Remove the torque bolts and check for any debris or damage to the gaskets. Use a torque wrench or other consistent method of tightening the torque bolts to reconnect the inlet and outlet ports.





## Introduction

1. Operating media: Dry or lubricated air, or the non-corrosive gases The maximum particle diameter must less than 30  $\mu\text{m}$
2. Air supply pressure: The minimum supply pressure is 2.5 Bar The maximum supply pressure is 8 Bar
3. Operating temperature: Standard:  $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$  Low temperature:  $-35^{\circ}\text{C} \sim +80^{\circ}\text{C}$  High temperature:  $-15^{\circ}\text{C} \sim +150^{\circ}\text{C}$
4. Travel adjustment: Have adjustment range of  $\pm 5^{\circ}$  for the rotation at  $0^{\circ}$  and  $90^{\circ}$

## Outline Size drawing

MODEL	A	B	C	D	E	F	G	H	J	K	N	M	L	P	Z	Air Hole
AT52	30	42.5	65.5	72.4	92.5	50.5	30	80	$\varnothing 36$	$\varnothing 50$	$M6 \times 8$	$M6 \times 10$	150	42	14	NAMUR G1/4"
AT63	36	47	81	88.5	98.5	69.5	30	80	$\varnothing 50$	$\varnothing 70$	$M6 \times 10$	$M8 \times 13$	171	42	18	NAMUR G1/4"
AT75	42.5	53	93	100	120	78	30	80	$\varnothing 50$	$\varnothing 70$	$M6 \times 10$	$M8 \times 13$	186	42	18	NAMUR G1/4"
AT83	46.5	57	98.5	109.7	129.5	86	30	80	$\varnothing 50$	$\varnothing 70$	$M6 \times 10$	$M8 \times 13$	206	42	21	NAMUR G1/4"
AT92	50	58	106	117	137	90	30	80	$\varnothing 50$	$\varnothing 70$	$M6 \times 10$	$M8 \times 13$	265	42	21	NAMUR G1/4"
AT105	57.5	64	122.5	135	155	104.5	30	80	$\varnothing 70$	$\varnothing 102$	$M8 \times 13$	$M10 \times 16$	272	42	27	NAMUR G1/4"
AT125	67.5	74.5	145.5	157	177	120.5	30	80	$\varnothing 70$	$\varnothing 102$	$M8 \times 13$	$M10 \times 16$	304	60	27	NAMUR G1/4"
AT140	75.5	75.5	161	174	194	125	30	80	$\varnothing 102$	$\varnothing 125$	$M10 \times 16$	$M12 \times 20$	395	60	32	NAMUR G1/4"
AT160	87	87	184	198	228	143	30	80	$\varnothing 102$	$\varnothing 125$	$M10 \times 16$	$M12 \times 20$	462	60	32	NAMUR G1/4"
AT190	103	103	216	232	262	172	30	130	$\varnothing 102$	$\varnothing 140$	$M10 \times 16$	$M16 \times 25$	520	85	40	NAMUR G1/4"
AT210	113	113	235.5	257	287	194	30	130	$\varnothing 102$	$\varnothing 140$	$M10 \times 16$	$M16 \times 25$	538	85	40	NAMUR G1/4"
AT240	130	130	235.5	292	322	230	30	130		$\varnothing 165$		$M20 \times 30$	592	90	50	NAMUR G1/4"
AT270	147	147	235.5	331	361	253	30	130		$\varnothing 165$		$M20 \times 30$	713	90	50	NAMUR G1/2"
AT300	161	168	235.5	354	384	290	30	130	$\varnothing 165$	$\varnothing 215$	$M20 \times 30$	$M20 \times 30$	771	90	50	NAMUR G1/2"

## Common faults and inspection, troubleshooting

Failure Phenomenon	Inspection Items	Solution
Pneumatic Valve Can Not Move	The electromagnetic valve is normal, Coil is burned, electromagnetic valve is stuck being stolen	Solenoid valve replacement, Replacement coils, remove stolen Property.
	A separate air supply pneumatic Actuator test check seals and Whether the cylinder is damaged.	Replace a bad ring and cylinder.
	There are impurities in the spool Valve stuck.	Remove impurities, replace Damaged parts.
	the handle in a manual hand motor location.	Interchange
Slow Motion, Crawling	Supply pressure is not enough.	The increase of gas supply pressure(0.4-0.7mpa)
	Pneumatic actuator output torque is Too small.	Increase the pneumatic actuator Production.
	The valve spool or valve assembly too tight.	Re-assembly adjustments.
	Air supply pipe plug, flow is too small.	Exclude plug, replace the filter cartridge.
Reply Devices Without Signal	power line short circuit or open circuit.	Maintenance of power lines.
	reply within the cam position is not accurate.	Adjust the cam to the correct location
	Micro switch damaged.	Replacement micro switch