SOLENOID VALVE

ELECTRIC VALVE

PNEUMATIC VALVE

Specialized Fluid Control Valve Manufacturer

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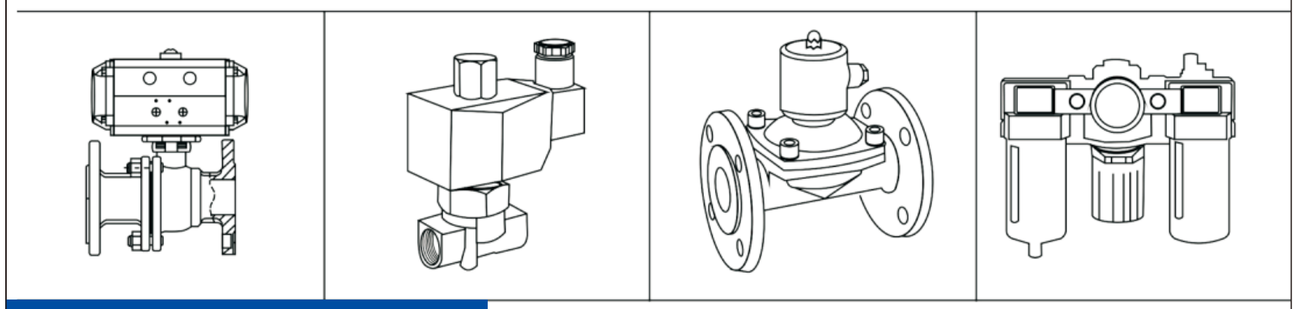
COVNA®
VALVE

ISO9001 CE RoHS



Instruction For Use

Sanitary clamp pneumatic 3 way ball valve

Introduction

Sanitary pneumatic 3 way ball valves has been through the sophisticated inspection process and strict quality management. Using internal and external polishing and sterilization. Clamp quick connection, all-inclusive seal, easy to disassemble,cleaning and maintenance. Three-way sanitary ball valve for sanitary pipelines medium commutation, diversion, confluence, mixed flow. They can be manually operated or automated with an electric or pneumatic 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

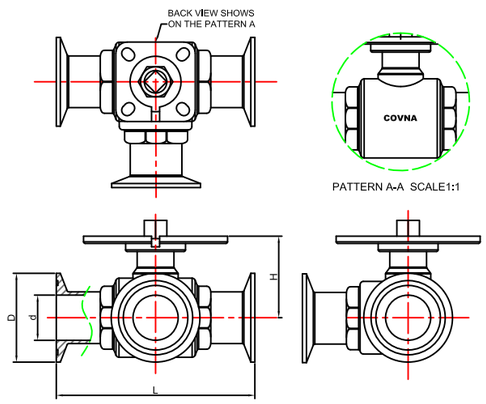
Body		Valve components	
Nominal Size	DN15~DN100	Seat Material	PTFE: -30℃~180℃ PPL: -30℃ ~ 250℃
Body Material	SS304, SS316, SS316L	Disc Material	SS304, SS316, SS316L
Connection Type	Clamp, Welding	Stem Material	SS304,
Pressure Rating	PN1.6MPa	Design Standard	ISO、DIN、IDF、SMS、3A
Structure type	Floating ball core 3 way L-type/ T-type ball valve	Applicable Medium	Food, Medicine, Packaging Machinery, Filling Machinery And Other Health Conditions Using Level.

Product Weight

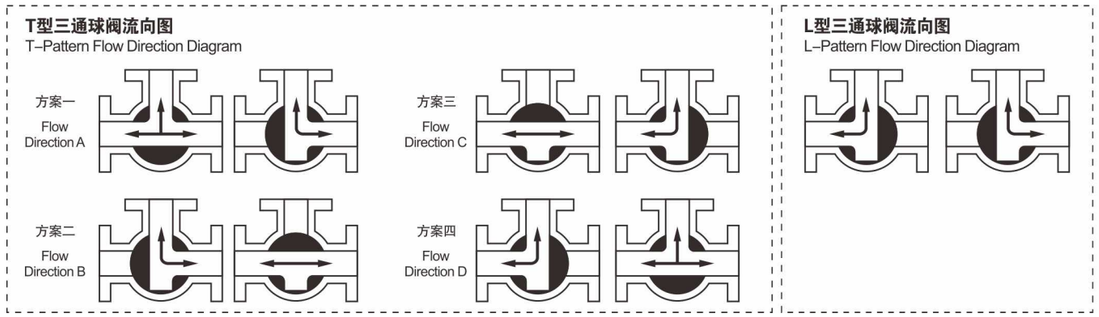
N.W.(kg)	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
Actuator	1.38	1.38	2.18	2.18	2.78	3.18	5.88	6.50	9.08
Valve Body	0.85	1.0	1.3	1.7	2.8	4.5	7.0	9.0	9.5

Qutine Size drawing

MODLE	D	d	H	L
DN15	50.5	16	45	105
DN20	50.5	21	48	120
DN25	50.5	29	48	130
DN32	50.5	35	48	140
DN40	64	47	58	164
DN50	77.5	59	58	195
DN65	91	72	65	218
DN80	106	80	65	230
DN100	119	97	74	260



Sketch of medium flow–direction of three–way ball valve



Installation Instruction

Welding Ends (Socket Weld): To keep from destroying soft parts, remove the two bolts, open valve and lift out body section prior to welding. In order to maintain bolting alignment between body and body ends, the body ends can be tack welded in place before removing the center section (body). This must be done with caution so as not to distort soft parts. Periodically check and tighten all threaded connections.

Introduction

1、Operating media

Dry or lubricated air, or the non-corrosive gases The maximum particle diameter must less than 30 u m

2、Air supply pressure

The minimum supply pressure is 2.5 Bar The maximum supply pressure is 8 Bar

3、Operating temperature

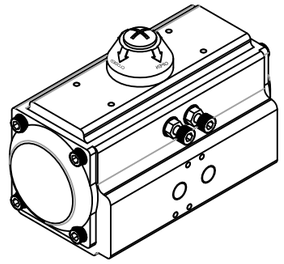
Standard: -20°c～+ 80°c

Low temperature: -35°c —l-80°c

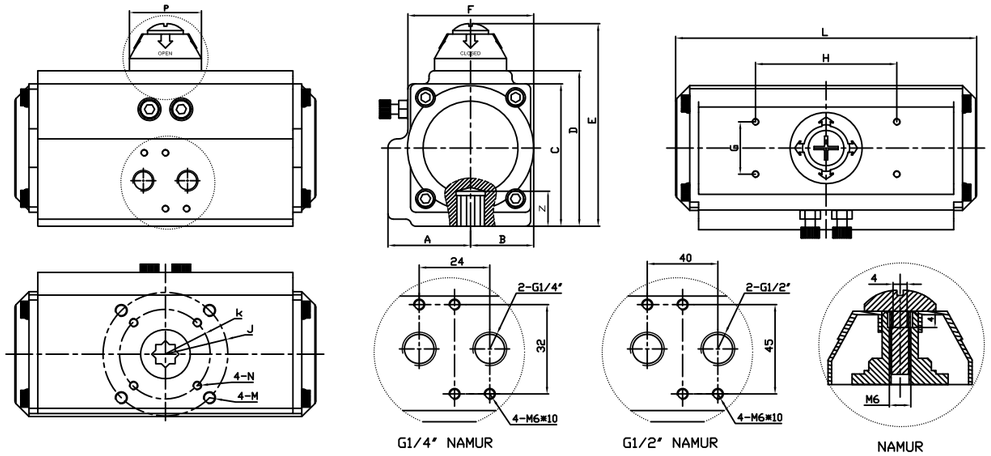
High temperature: -15°c —M50°c

4、Travel adjustment

Have adjustment range of ±5° for the rotation at 0°and 90°



Qutline 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	Ø36	Ø50	M5×8	M6×10	150	42	14	NAMUR G1/4"
AT65	36	47	81	88.5	98.5	69.5	30	80	Ø50	Ø70	M6×10	M8×13	171	42	18	NAMUR G1/4"
AT75	42.5	53	93	100	120	78	30	80	Ø50	Ø70	M6×10	M8×13	186	42	18	NAMUR G1/4"
AT83	46.5	57	98.5	109.7	129.5	86	30	80	Ø50	Ø70	M6×10	M8×13	206	42	21	NAMUR G1/4"
AT92	50	58	106	117	137	90	30	80	Ø50	Ø70	M6×10	M8×13	265	42	21	NAMUR G1/4"
AT105	57.5	64	122.5	135	155	104.5	30	80	Ø70	Ø102	M8×13	M10×16	272	42	27	NAMUR G1/4"
At125	67.5	74.5	145.5	157	177	120.5	30	80	Ø70	Ø102	M8×13	M10×16	304	60	27	NAMUR G1/4"
AT140	75.5	75.5	161	174	194	125	30	80	Ø102	Ø125	M10×16	M12×20	395	60	32	NAMUR G1/4"
AT160	87	87	184	198	228	143	30	80	Ø102	Ø125	M10×16	M12×20	462	60	32	NAMUR G1/4"
AT190	103	103	216	232	262	172	30	130	Ø102	Ø140	M10×16	M16×25	520	85	40	NAMUR G1/4"
AT210	113	113	235.5	257	287	194	30	130	Ø102	Ø140	M10×16	M16×25	538	85	40	NAMUR G1/4"
AT240	130	130	235.5	292	322	230	30	130		Ø165		M20×30	592	90	50	NAMUR G1/4"
AT270	147	147	235.5	331	361	253	30	130		Ø165		M20×30	713	90	50	NAMUR G1/2"
AT300	161	168	235.5	354	384	290	30	130	Ø165	Ø215	M20×30	M20×30	771	90	50	NAMUR G1/2"

COVNA® VALVE
Pneumatic Actuator

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 outputtorque 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

Air consumption rest with Supply. Air volume and Action q/cle times,expressions

L/Min=Air volume(Air volume Opening+Air volume closing) X [(Air Supply(Kpa)+l 01.3)ˆ–101.3] X Action cycle times(/min)