

Fluid control valve(2/2 way)

2L Series (Internally piloted and normally closed)



Specification

Type\Item	Port size ①	Orifice size (Φ mm)	Cv	Valid area or section(mm²)	Weight ②(g)	Max.operating pressure differentia		Proof pressure	
						MPa	psi	MPa	psi
2L150-15	1/2"	15.0	5.50	100.0	675	Max:1.0 Min:0.05	Max:150 Min:10	1.5	220
2L200-20	3/4"	20.0	9.50	170.0	875				
2L250-25	1"	25.0	12.50	220.0	1120				
2L320-32	1 1/4"	35.0	23.00	420.0	2700				
2L400-40	1 1/2"	40.0	31.00	560.0	3250				
2L500-50	2"	50.0	49.00	880.0	4300				

① PT thread, NPT thread and G thread are available.

② The weight in the table is the terminal valve's weight, 2L150~250series grommet valve's weight is 10g less than terminal's. 2L320~500series grommet valve's weight is 20g less than terminal's.

Specification of coil

Valve type	Coil type	Power type	Frequency (Hz)	Voltage range	Electrical entry	Power Consumption (VA/W)	Insulation	Temp. rise(°C)
2L150 2L200 2L250	CDA116 CLA116	AC	50	± 15 %	Terminal (CDA)	10.0VA	Class H	35
			60			8.0VA		30
		DC	—	± 10 %		6.5W		30
2L320 2L400 2L500	CDA170 CLA170	AC	50	± 15 %	Grommet (CLA)	25.0VA		60
			60			22.0VA		55
		DC	—	± 10 %		10.5W		40

Ordering code

2L 150 15 A □ □									
Model				Thread type					
2L: 2/2 way internally piloted and normally closeded				Blank: PT T: NPT G: G					
Orifice size				Electrical entry					
150: Φ15mm 200: Φ20mm 250: Φ25mm 320: Φ35mm 400: Φ40mm 500: Φ50mm				Blank: Terminal I: Grommet					
Port size				Voltage					
Orifice size Port size				A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V					
Φ15mm 15: 1/2"									
Φ20mm 20: 3/4"									
Φ25mm 25: 1"									
Φ35mm 32: 1 1/4"									
Φ40mm 40: 1 1/2"									
Φ50mm 50: 2"									

Ordering code of accessories

Ordering code of accessories is the same as 2S series valve's, Please refer to P98 for details of ordering code.

Note: ⚠ 320\400\500 series valves do not have mounting accessories.

Symbol



Product feature

1. Indirect acting (Internal pilot) and normally closed type 2/2 way solenoid valve. Its high sensibility allows it to change direction quickly.
2. It is compact, small size and light weight. It is easy to install and dismantle.
3. The valve body is made of SUS304. Its coil has a Heat resistance classification of Class H. The standard seal material is PTFE (Teflon) which is suitable for a variety of working medium such as water with high temperature and vapour.
4. The protection class of the coil is IP65 and there is a choice for grommet or terminal electrical entry.

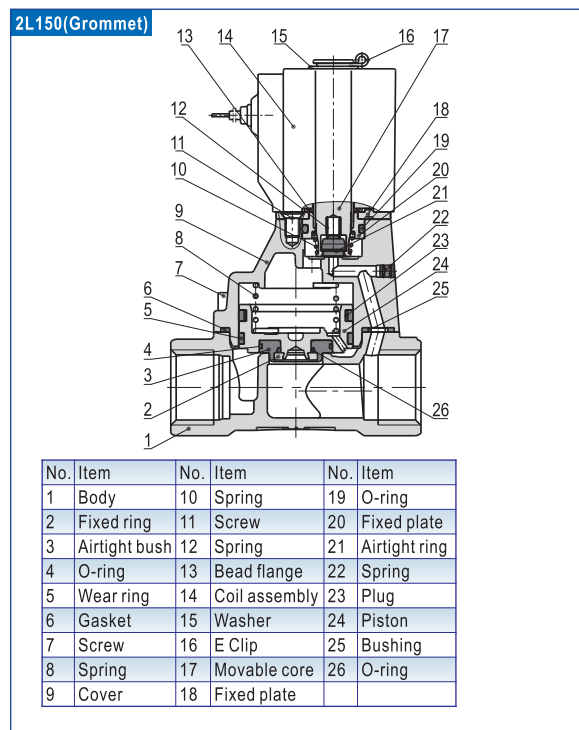
Valve's specification

Acting	Internally piloted			
Initial stats	Normally closed			
Adaptable fluid ①	Steam, High temperature Water, Oil			
Viscosity limit	Under 20CST			
Ambient and fluid temperature(°C)		Oil	Water	Steam
	Max.	150	150	183
	Min.	-10②	1	-
				Ambient
				100
				-20

① Note: Please refer to P121 for detail of other's fluid;

② Note: 50CST or less.

Inner structure

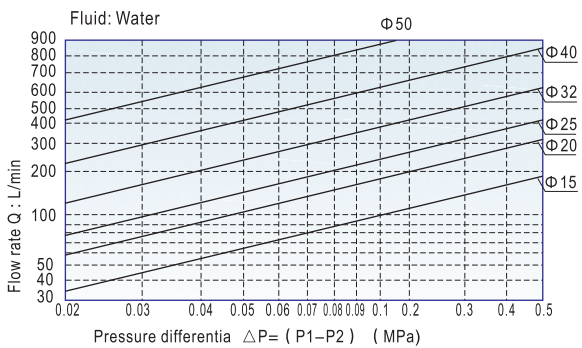
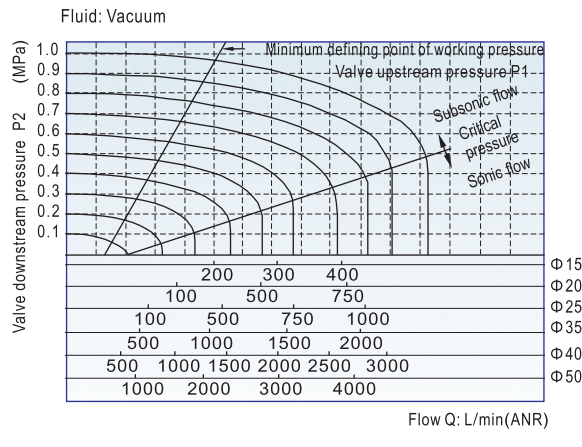


No.	Item	No.	Item	No.	Item
1	Body	10	Spring	19	O-ring
2	Fixed ring	11	Screw	20	Fixed plate
3	Airtight bush	12	Spring	21	Airtight ring
4	O-ring	13	Bead flange	22	Spring
5	Wear ring	14	Coil assembly	23	Plug
6	Gasket	15	Washer	24	Piston
7	Screw	16	E Clip	25	Bushing
8	Spring	17	Movable core	26	O-ring
9	Cover	18	Fixed plate		

Fluid control valve(2/2 way)

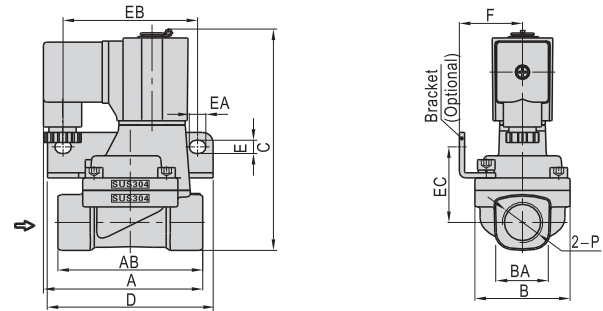
2L Series (Internally piloted and normally closed)

Flow chart

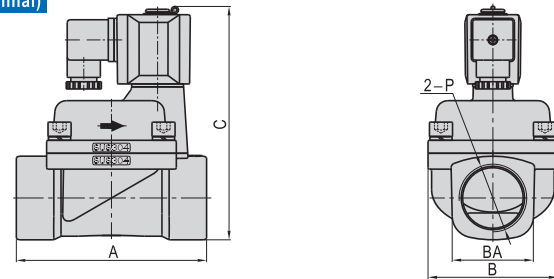


Dimensions

2L150~250(Terminal)

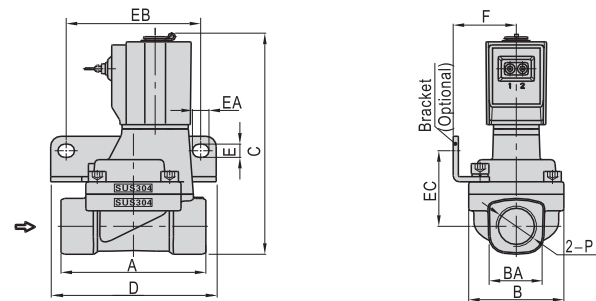


2L320~500(Terminal)

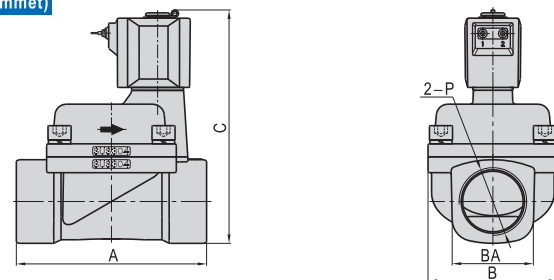


Type\Item	A	AB	B	BA	C	D	E	EA	EB	EC	F	P
2L150-15	77	70	46	27.5	107	80	6.4	8	65	36.5	30.5	1/2"
2L200-20	78.5	82	53	33.5	115.5	90	6.4	8	75	40	34	3/4"
2L250-25	81	92	59	40.5	124	95	6.4	8	80	44.5	36	1"
2L320-32	125	-	80	52	154.5	-	-	-	-	-	-	1 1/4"
2L400-40	132	-	90	58	162	-	-	-	-	-	-	1 1/2"
2L500-50	150	-	100	70	177	-	-	-	-	-	-	2"

2L150~250(Grommet)



2L320~500(Grommet)



Type\Item	A	B	BA	C	D	E	EA	EB	EC	F	P
2L150-15	70	46	27.5	107	80	6.4	8	65	36.5	30.5	1/2"
2L200-20	82	53	33.5	115.5	90	6.4	8	75	40	34	3/4"
2L250-25	92	59	40.5	124	95	6.4	8	80	44.5	36	1"
2L320-32	125	80	52	154.5	-	-	-	-	-	-	1 1/4"
2L400-40	132	90	58	162	-	-	-	-	-	-	1 1/2"
2L500-50	150	100	70	177	-	-	-	-	-	-	2"