

Fluid control valve(2/2way)

2S Series (Internally piloted and normally closed)



Specification

Type\Item	Port size①	Orifice size (Φ mm)	Cv	Valid area or section(mm²)	Weight (2)(g)	Max.operating pressure differentia MPa	psi	Proof pressure MPa	psi
2S150-15	1/2"	15.0	5.50	100.0	675	Max:1.0 Min:0.05	Max:150 Min:10	1.5	220
2S200-20	3/4"	20.0	9.50	170.0	875				
2S250-25	1"	25.0	12.50	220.0	1120				
2S320-32	1 1/4"	35.0	23.00	420.0	2700				
2S400-40	1 1/2"	40.0	31.00	560.0	3250				
2S500-50	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, 2S150-250 series grommet valve's weight is 10g less than terminal's. 2S320-5000series 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)
2S150 2S200 2S250	CDA116 CLA116	AC	50	± 15 %	(Terminal) (CDA)	10.0VA	Class B	35
			60			8.0VA		30
		DC	—	± 10 %		6.5W		30
2S320 2S400 2S500	CDA170 CLA170	AC	50	± 15 %	(Grommet) (CLA)	25.0VA		60
			60			22.0VA		55
		DC	—	± 10 %		10.5W		40

Ordering code

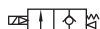
2S 150 15 A □ □									
Model			Thread type			Electrical entry			
2S: 2/2 way internally piloted and normally closed			Blank: PT T: NPT G: G			Blank: Terminal I: Grommet			
Orifice size			Port size			Voltage			
150: Φ 15mm 200: Φ 20mm 250: Φ 25mm 320: Φ 35mm 400: Φ 40mm 500: Φ 50mm			Φ 15mm 15: 1/2" Φ 20mm 20: 3/4" Φ 25mm 25: 1" Φ 35mm 32: 1 1/4" Φ 40mm 40: 1 1/2" Φ 50mm 50: 2"			A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V			

Ordering code of accessories

F-2S150 LB									
Accessories code			Accessories type			Valve type			
F: Mounting accessories			LB: LB type			2S150: 150 Series body 2S200: 200 Series body 2S250: 250 Series body			

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 can change direction quickly and has large flow.
2. It is compact, small and light weight. It is easy to install and dismantle;
3. The valve body is made of SUS304. The coil has a Heat resistance classification of Class B. The standard seal material is FPM-F. Please contact us if other material are required.
4. The protection class of the coil is IP65 and there is a choice for grommet or terminal electrical entry.

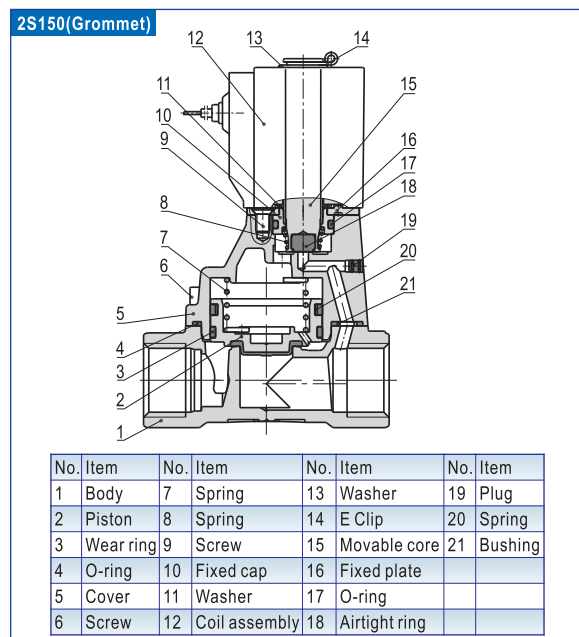
Valve's specification

Acting	Internally piloted				
Initial stats	Normally closed				
Adaptable fluid ①	Air, Water, Oil				
Viscosity limit	Under 20CST				
Ambient and fluid temperature(°C)		Water	Air	Oil	Ambient
	Max.	80	90	80	70
	Min.	1	-20 ②	-10 ③	-20

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

② Note: Dew point: -20(°C) or less. ③ Note: 50CST or less.

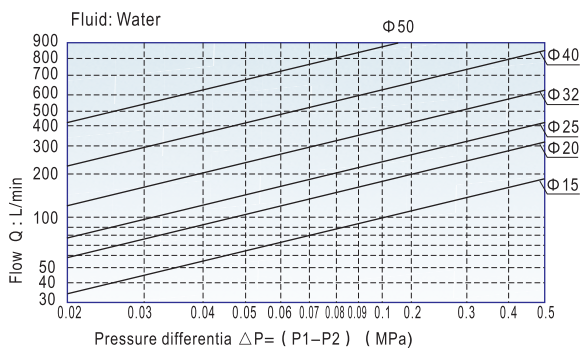
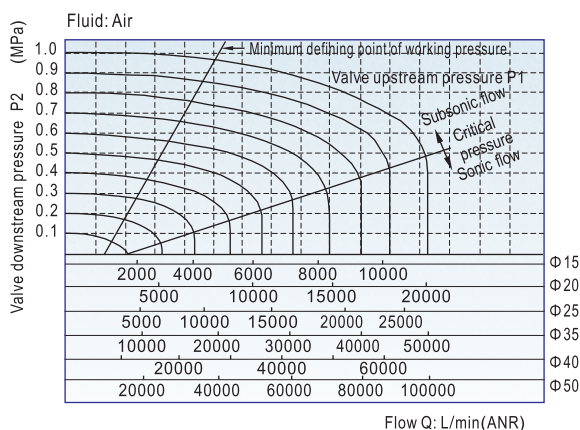
Inner structure



Fluid control valve(2/2way)

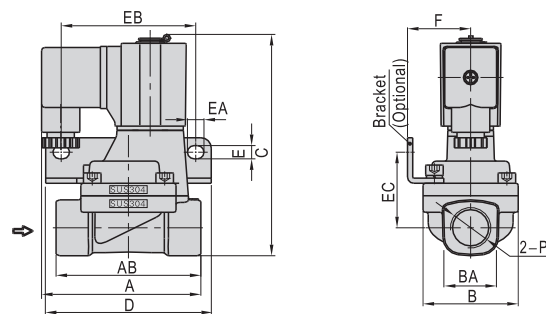
2S Series (Internally piloted and normally closed)

Flow chart

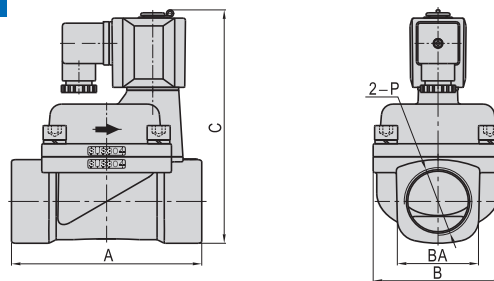


Dimensions

2S150-250(Terminal)

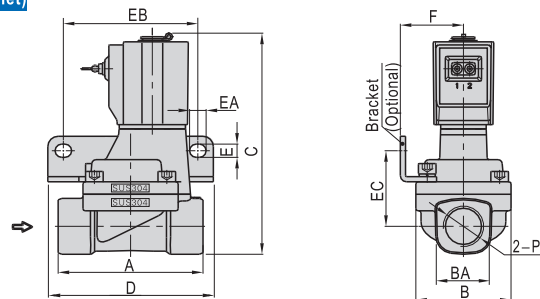


2S320-500(Terminal)

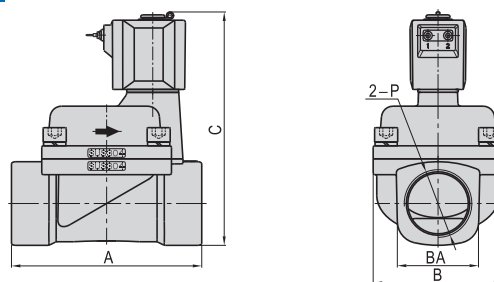


Type\Item	A	AB	B	BA	C	D	E	EA	EB	EC	F	P
2S150-15	77	70	46	27.5	107	80	6.4	8	65	36.5	30.5	1/2"
2S200-20	78.5	82	53	33.5	115.5	90	6.4	8	75	40	34	3/4"
2S250-25	81	92	59	40.5	124	95	6.4	8	80	44.5	36	1"
2S320-32	125	-	80	52	154.5	-	-	-	-	-	-	1 1/4"
2S400-40	132	-	90	58	162	-	-	-	-	-	-	1 1/2"
2S500-50	150	-	100	70	177	-	-	-	-	-	-	2"

2S150-250(Grommet)



2S320-500(Grommet)



Type\Item	A	B	BA	C	D	E	EA	EB	EC	F	P
2S150-15	70	46	27.5	107	80	6.4	8	65	36.5	30.5	1/2"
2S200-20	82	53	33.5	115.5	90	6.4	8	75	40	34	3/4"
2S250-25	92	59	40.5	124	95	6.4	8	80	44.5	36	1"
2S320-32	125	80	52	154.5	-	-	-	-	-	-	1 1/4"
2S400-40	132	90	58	162	-	-	-	-	-	-	1 1/2"
2S500-50	150	100	70	177	-	-	-	-	-	-	2"



2S