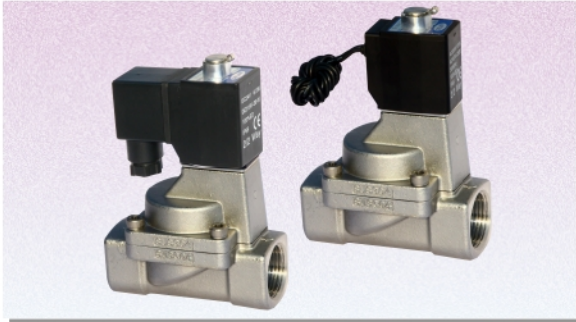


Fluid control valve(2/2way)

2KS Series (Internally piloted and normally opened)



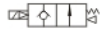
■ Specification

Type\Item	Port size ①	Orifice size (φ mm)	Cv	Valid area of section(mm²)	Weight ② (g)	Operating Pressure differential		Proof pressure	
						MPa	psi	MPa	psi
2KS150-15	1/2"	15.0	5.50	100.0	680	Max: 0.7 Min: 0.05	Max: 100 Min: 10	1.5	220
2KS200-20	3/4"	20.0	9.50	170.0	880				
2KS250-25	1"	25.0	12.50	220.0	1125				
2KS320-32	1 1/4"	35.0	23.00	420.0	2710				
2KS400-40	1 1/2"	40.0	31.00	560.0	3260				
2KS500-50	2"	50.0	49.00	880.0	4310				

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

② The weight in the table is the terminal valve's weight, 2KS150-250 series grommet valve's weight is 10g less than terminal's. 2KS320-500 series grommet valve's weight is 20g less than terminal's.

■ Symbol



■ Product feature

- 1、 2/2 way internally piloted and normally opened type solenoid valve can quickly change the direction and has large volume;
- 2、 It has tight structure, small size and light weight. It is easy to be installed and dismantled
- 3、 The valve body is made of SUS304 stainless steel. The temperature classification of coil is B. The standard's material is FPM-F, please contact us if other material needed.
- 4、 The levels of protection of the coil are IP65 and the electrical entry includes grommet and terminal.

■ Coil specification

Valve type	Coil type	Power	Frequency (Hz)	Voltage range	Electrical	Power consumption (VA/W)	Insulation	Temp rise(°C)
2KS150	CDA116	AC	50	± 15%	Terminal (CDA)	15.0VA	Class B	50
2KS200	CLA116		60			11.0VA		40
2KS250			—	± 10%		6.5W		30
2KS320	CDA170	AC	50	± 15%	Grommet (CLA)	35.0VA		65
2KS400	CLA170		60			30.0VA		60
2KS500			—	± 10%		10.5W		40

■ Valve's specification

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

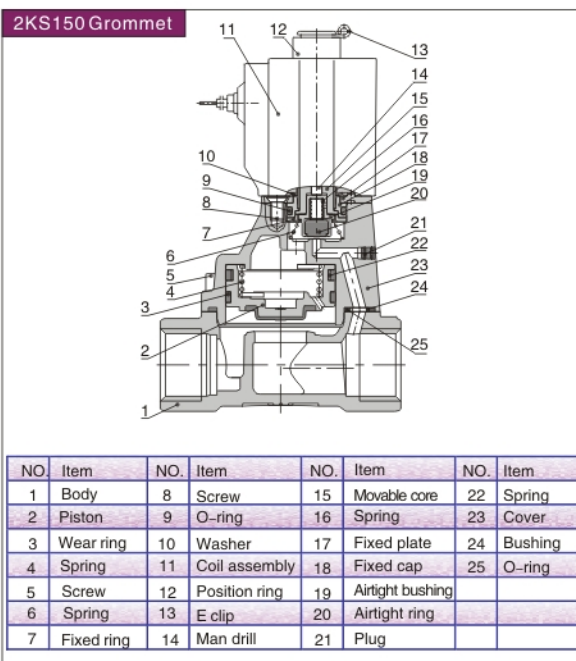
① Note: Please refer to PI-79 for detail of other's fluid;

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

■ Ordering code

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

■ Inner structure



NO.	Item	NO.	Item	NO.	Item	NO.	Item
1	Body	8	Screw	15	Movable core	22	Spring
2	Piston	9	O-ring	16	Spring	23	Cover
3	Wear ring	10	Washer	17	Fixed plate	24	Bushing
4	Spring	11	Coil assembly	18	Fixed cap	25	O-ring
5	Screw	12	Position ring	19	Airtight bushing		
6	Spring	13	E clip	20	Airtight ring		
7	Fixed ring	14	Man drill	21	Plug		

■ Ordering code of accessories

Ordering code of accessories is the same as 2W series valve's, Please refer to PI-56 for details of ordering code.

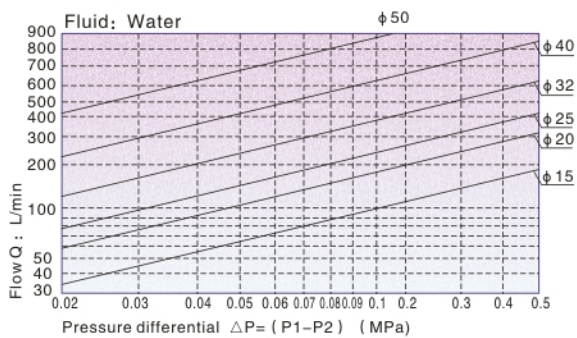
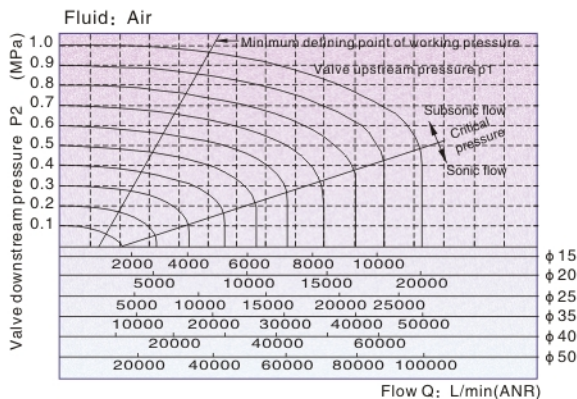
Note: ⚠ 320\400\500 series valves do not have mounting accessories.

Fluid control valve(2/2way)

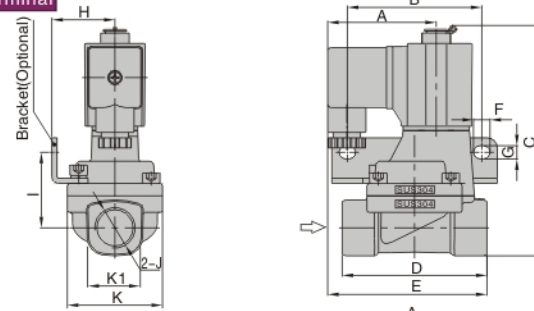
2KS Series (Internally piloted and normally opened)

Flow chart

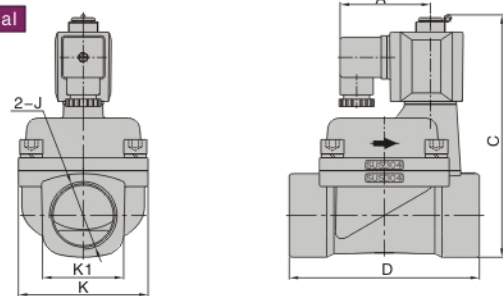
Dimensions



2KS150~250 Terminal

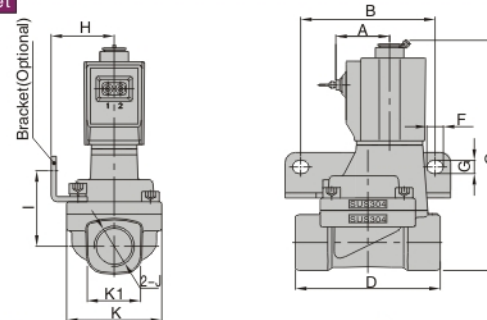


2KS320~500 Terminal

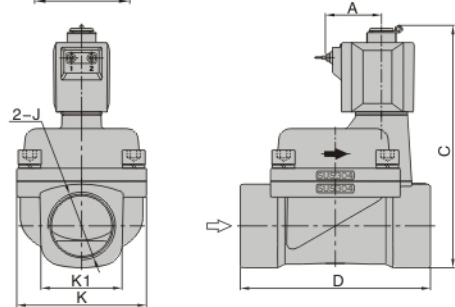


Type/Item	A	B	C	D	E	F	G	H	I	J	K	K1
2KS150-15	52.5	65	112.3	70	77	8	6.4	30.5	36.5	1/2"	46	27.5
2KS200-20	52.5	75	120.8	82	78.5	8	6.4	34	40	3/4"	53	33.5
2KS250-25	52.5	80	129.3	92	81	8	6.4	36	44.5	1"	59	40.5
2KS320-32	62.7	-	159.6	125	-	-	-	-	-	1 1/4"	80	52
2KS400-40	62.7	-	167.1	132	-	-	-	-	-	1 1/2"	90	58
2KS500-50	62.7	-	182.1	150	-	-	-	-	-	2"	100	70

2KS150~250 Grommet



2KS320~500 Grommet



Type/Item	A	B	C	D	F	G	H	I	J	K	K1
2KS150-15	26	65	112.3	70	8	6.4	30.5	36.5	1/2"	46	27.5
2KS200-20	26	75	120.8	82	8	6.4	34	40	3/4"	53	33.5
2KS250-25	26	80	129.3	92	8	6.4	36	44.5	1"	59	40.5
2KS320-32	38.8	-	159.6	125	-	-	-	-	1 1/4"	80	52
2KS400-40	38.8	-	167.1	132	-	-	-	-	1 1/2"	90	58
2KS500-50	38.8	-	182.1	150	-	-	-	-	2"	100	70