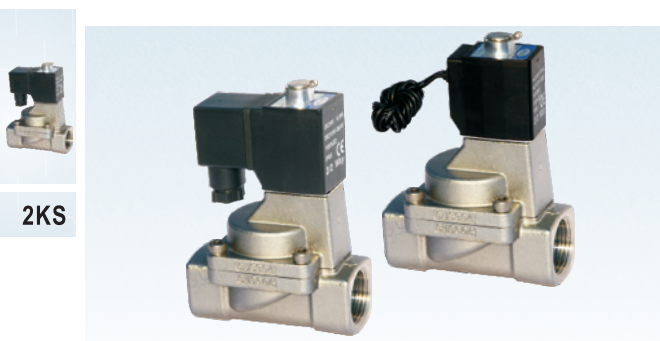


Fluid control valve(2/2way)

2KS Series (Internally piloted and normally opened)

AIRTAC



Specification

Type\Item	Port size ①	Orifice size (Φ mm)	Cv	Valid area or section(mm²)	Weight ② (g)	Max.operating pressure differential MPa	psi	Proof pressure 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, 2S150~250 series grommet valve's weight is 10g less than terminal's. 2S320~500 series grommet valve's weight is 20g less than terminal's.

Coil specification

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

Ordering code

2KS 150 15 A	
Model	Thread type
2KS: 2/2 way internally piloted and normally opened	Blank: PT T: NPT G: G
Orifice size	Electrical entry
150: Φ 15mm 200: Φ 20mm 250: Φ 25mm 320: Φ 35mm 400: Φ 40mm 500: Φ 50mm	Blank: Terminal I: Grommet
Port size	Voltage
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

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 opened 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.

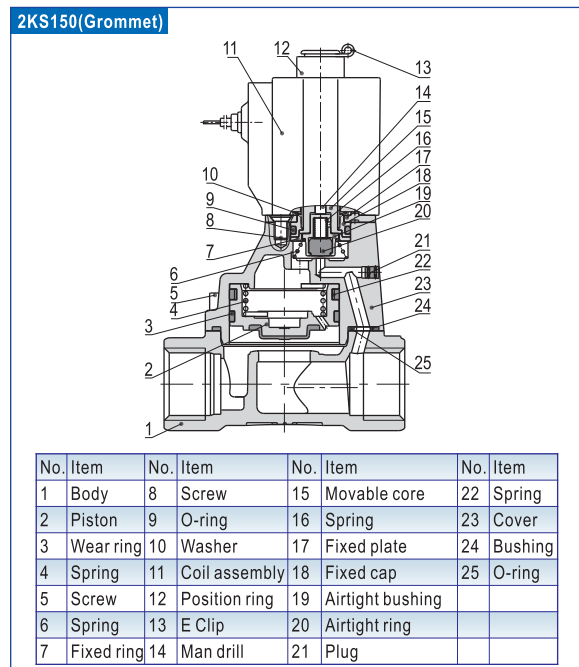
Valve's specification

Acting	Internally piloted				
Initial stats	Normally opened				
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

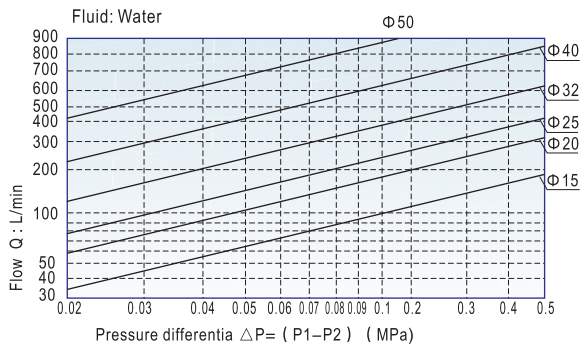
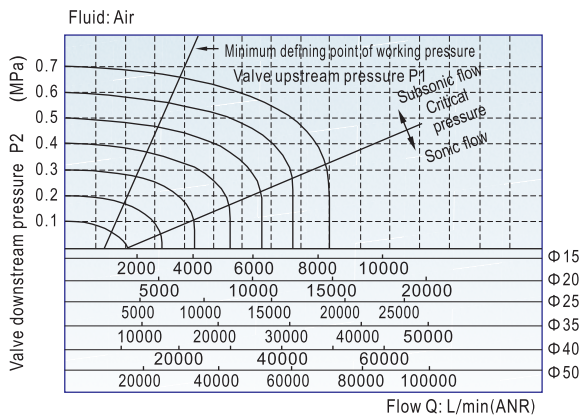


No.	Item	No.	Item	No.	Item	No.	Item
1	Body	8	Screw	15	Movable core	22	Spring
2	Piston	9	O-ring	16	Spring	23	Cover
3	Wear ring	10	Washer	17	Fixed plate	24	Bushing
4	Spring	11	Coil assembly	18	Fixed cap	25	O-ring
5	Screw	12	Position ring	19	Airtight bushing		
6	Spring	13	E Clip	20	Airtight ring		
7	Fixed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

Fluid control valve(2/2way)

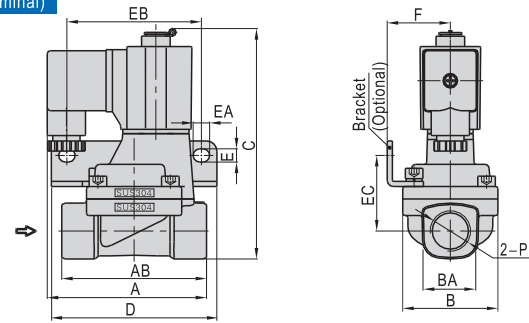
2KS Series (Internally piloted and normally opened)

Flow chart

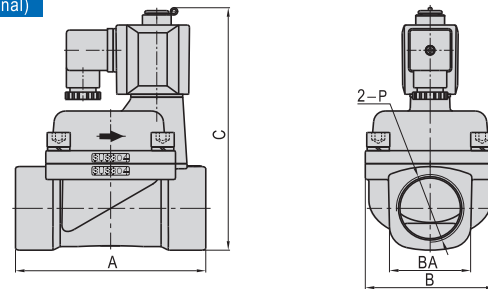


Dimensions

2KS150~250(Terminal)

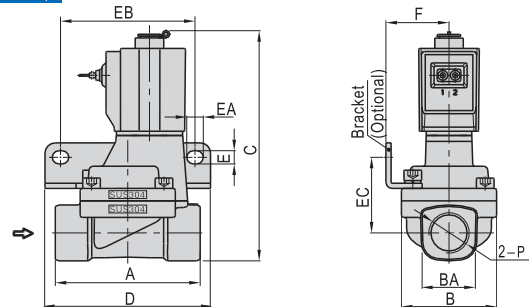


2KS320~500(Terminal)

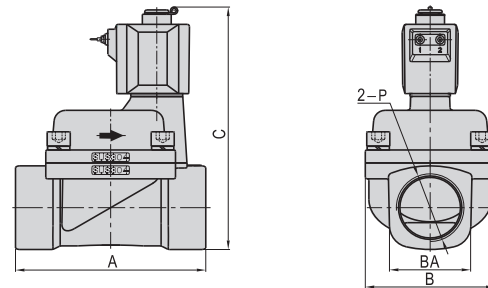


Type\Item	A	AB	B	BA	C	D	E	EA	EB	EC	F	P
2KS150-15	77	70	46	27.5	112.5	80	6.4	8	65	36.5	30.5	1/2"
2KS200-20	78.5	82	53	33.5	121	90	6.4	8	75	40	34	3/4"
2KS250-25	81	92	59	40.5	129.5	95	6.4	8	80	44.5	36	1"
2KS320-32	125	-	80	52	160	-	-	-	-	-	-	1 1/4"
2KS400-40	132	-	90	58	167	-	-	-	-	-	-	1 1/2"
2KS500-50	150	-	100	70	182	-	-	-	-	-	-	2"

2KS150~250(Grommet)



2KS320~500(Grommet)



Type\Item	A	B	BA	C	D	E	EA	EB	EC	F	P
2KS150-15	70	46	27.5	112.5	80	6.4	8	65	36.5	30.5	1/2"
2KS200-20	82	53	33.5	121	90	6.4	8	75	40	34	3/4"
2KS250-25	92	59	40.5	129.5	95	6.4	8	80	44.5	36	1"
2KS320-32	125	80	52	160	-	-	-	-	-	-	1 1/4"
2KS400-40	132	90	58	167	-	-	-	-	-	-	1 1/2"
2KS500-50	150	100	70	182	-	-	-	-	-	-	2"



2KS