

Fluid control valve(2/2way)

2KS Series (Direct-acting and normally opened)



2KS

Specification

Type\Item	Port size①	Orifice size (Φ mm)	Cv	Valid area or section(mm²)	Weight ② (g)	Max.operating pressure differential		Proof pressure	
						MPa	psi	MPa	psi
2KSX030	-06 1/8"	1.5	0.10	1.8	305	2.0	300	3.0	450
	-08 1/4"				295				
2KSH030	-06 1/8"	2.0	0.18	3.0	305	1.5	220		
	-08 1/4"				295				
2KS030	-06 1/8"	3.0	0.33	6.0	305	0.7	100		
	-08 1/4"				295				
2KSL030	-06 1/8"	4.0	0.55	10.0	305	0.4	60		
	-08 1/4"				295				
2KSX050	-10 3/8"	3.0	0.34	6.1	610	2.0	300		
	-15 1/2"				600				
2KSH050	-10 3/8"	4.0	0.55	10.0	610	1.5	220		
	-15 1/2"				600				
2KS050	-10 3/8"	5.0	0.83	15.0	610	0.7	100		
	-15 1/2"				600				
2KSL050	-10 3/8"	7.0	1.40	25.0	610	0.4	60		
	-15 1/2"				600				

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

② The weight in the table is the terminal valve's weight, 2KS030 series grommet valve's weight is 10g less than terminal's. 2KS050 series 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(℃)
2KS□030	CDA116 CLA116	AC	50	± 15%	(Terminal) (CDA)	15.0VA	Class B	50
			60			11.0VA		40
		DC	—	± 10%		6.5W		30
2KS□050	CDA170 CLA170	AC	50	± 15%	(Grommet) (CLA)	35.0VA		65
			60			30.0VA		60
		DC	—	± 10%		10.5W		40

Ordering code

2KS H 030 08 A □ □									
Model				Thread type					
2KS: 2/2 way direct-acting and normally opened				Blank: PT T: NPT G: G					
Pressure condition				Electrical entry					
X: Extra high pressure H: High pressure Blank: Standard L: Large volume				Blank: Terminal I: Grommet					
Size series				Voltage					
030: 030 Series 050: 050 Series				A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V					
Port size				Size series					
030 Series 050 Series				06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"					

Ordering code of accessories

Ordering code of accessories is the same as 2S series valve's. Please refer to P96 for details of ordering code.

Symbol



Product feature

1. Direct acting and normally opened type 2/2 way solenoid valve. Its high sensibility allows it to change direction quickly;
2. It has wide pressure range, including extra high pressure (X), high pressure (H), standard and large volume(L) to choose from;
3. It is compact, small size and light weight. It is easy to install and dismantle.
4. The valve body is made of SUS304. Its coil has a Heat resistance classification of Class B. The standard seal material is FPM-F. Please contact us if other material are required.
5. The protection class of the coil is IP65 and there is a choice for grommet or terminal electrical entry.

Valve's specification

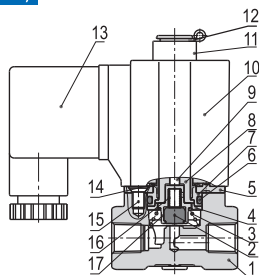
Acting	Direct acting			
Initial stats	Normally closed			
Adaptable fluid ①	Air, Water, Oil			
Viscosity limit	Under 20CST			
Ambient and fluid temperature(°C)		Water	Air	Oil
	Max.	80	90	80
	Min.	1	-20 ②	-10 ③
				-20

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

2KS030(Terminal)

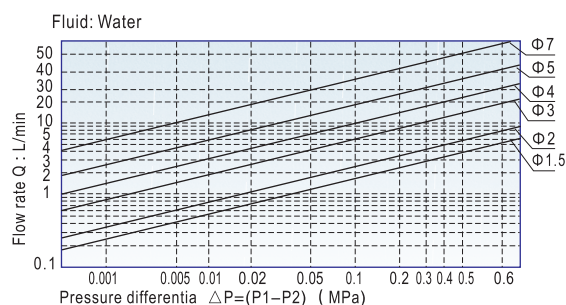
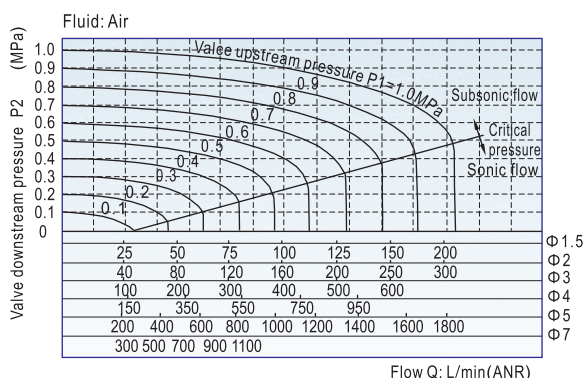


No.	Item	No.	Item	No.	Item
1	Body	7	Fixed cap	13	Connector
2	Airtight ring	8	Electromagnet	14	Washer
3	Spring	9	Man drill	15	Screw
4	Bead flange	10	Coil assembly	16	Spring
5	Fixed plate	11	Position ring	17	Airtight bush
6	O-ring	12	E Clip		

Fluid control valve(2/2way)

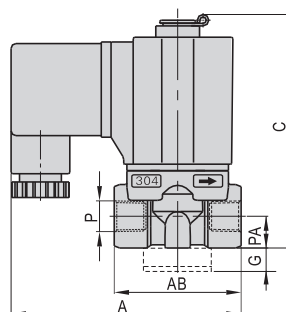
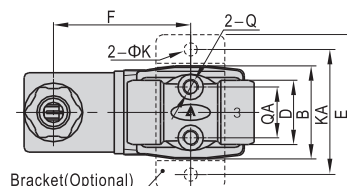
2KS Series (Direct-acting and normally opened)

Flow Chart

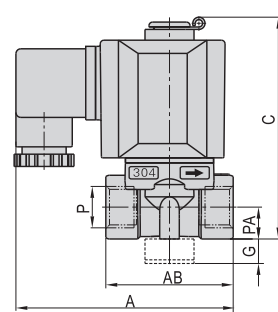
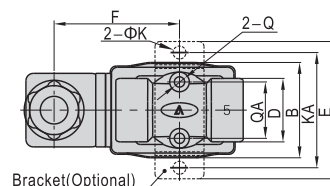


Dimensions

2KS□030(Terminal)

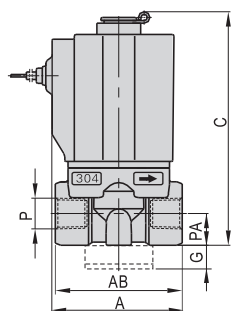
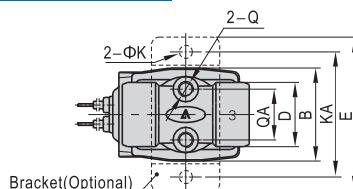


2KS□050(Terminal)

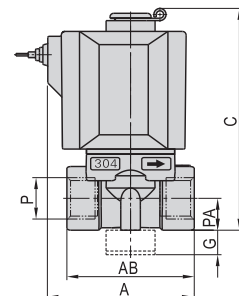
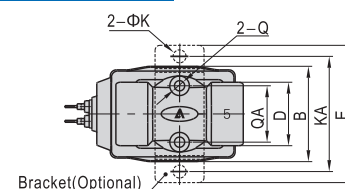


Type\Item	A	AB	B	C	D	E	F	G	K	KA	P	PA	Q	QA
2KS□030-06	72.5	40	29.3	76	20	49	43.5	10	5.3	40	1/8"	10	M5	16
2KS□030-08	72.5	40	29.3	76	20	49	43.5	10	5.3	40	1/4"	10	M5	16
2KS□050-10	89.5	52	39	92	26	56	51	10	5.3	48	3/8"	13	M5	23
2KS□050-15	89.5	52	39	92	26	56	51	10	5.3	48	1/2"	13	M5	23

2KS□030(Grommet)



2KS□050(Grommet)



Type\Item	A	AB	B	C	D	E	G	K	KA	PA	P	Q	QA
2KS□030-06	41	40	29.5	76	20	49	10	5.3	40	10	1/8"	M5	16
2KS□030-08	41	40	29.5	76	20	49	10	5.3	40	10	1/4"	M5	16
2KS□050-10	60	52	39	92	26	56	10	5.3	48	13	3/8"	M5	23
2KS□050-15	60	52	39	92	26	56	10	5.3	48	13	1/2"	M5	23



2KS