

Fluid control valve(2/2 way)

2KW Series (Internally piloted and normally opened)



2KW

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 brass. 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

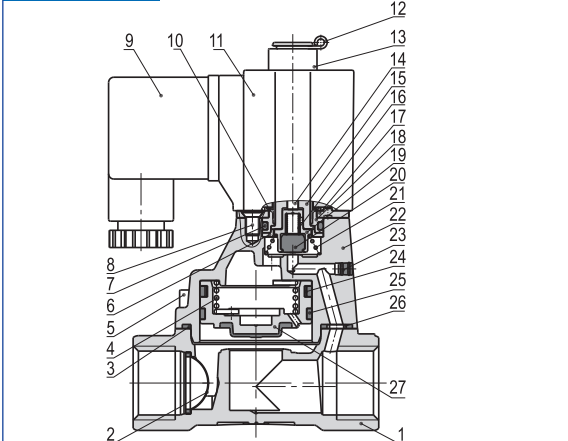
Acting	Internally piloted				
Initial stats	Normally opened				
Adaptable fluid ①	Air, Water, Oil				
Viscosity limit	Under 20CST				
Ambient and fluid temperature(°C)		Water	Air	Oil	Ambient
	Max.	80	90	80	70
	Min.	1	-20 ②	-10 ③	-20

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

2KW150(Terminal)



No.	Item	No.	Item	No.	Item	No.	Item
1	Body	8	Screw	15	Movable core	22	Cover
2	Filter	9	Connector	16	Spring	23	Plug
3	O-ring	10	Washer	17	Fixed plate	24	Bonnet spring
4	Spring	11	Coil assembly	18	Fixed cap	25	Wear ring
5	Screw	12	E Clip	19	Airtight bushing	26	Bushing
6	Clip	13	Position ring	20	Airtight ring	27	Piston
7	O-ring	14	Man drill	21	Spring		

Specification

Type\Item	Port size ①	Orifice size (Φmm)	Cv	Valid area or section(mm ²)	Weight ②(g)	Max.operating pressure differentia		Proof pressure	
						MPa	psi	MPa	psi
2KW150-15	1/2"	15.0	5.50	100.0	730	Max:0.7 Min:0.05	Max:100 Min:10	1.5	220
2KW200-20	3/4"	20.0	9.50	170.0	960				
2KW250-25	1"	25.0	12.50	220.0	1210				

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

② The weight in the table is the terminal valve's weight, grommet valve's weight is 10g 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)
2KW150	CDA116	AC	50	± 15%	Terminal (CDA)	15.0VA	Class B	50
2KW200			60			11.0VA		40
2KW250	CLA116	DC	-	± 10%	Grommet (CLA)	6.5W		30

Ordering code

2KW 150 15 A □ □

- Model**
2KW: 2/2 way internally piloted and normally opened
- Orifice size**
150: Φ 15mm
200: Φ 20mm
250: Φ 25mm
- Port size**
Orifice series | Port size
150: Φ 15mm | 15: 1/2"
200: Φ 20mm | 20: 3/4"
250: Φ 25mm | 25: 1"
- Thread type**
Blank: PT
T: NPT
G: G
- Electrical entry**
Blank: Terminal
I: Grommet
- Voltage**
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.

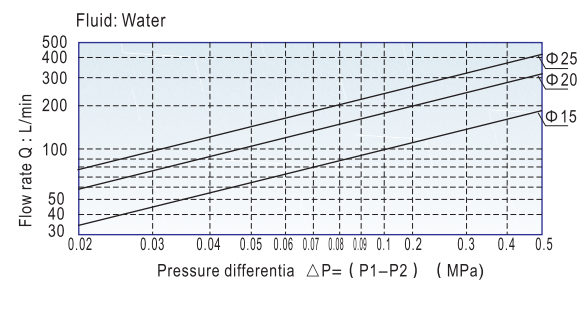
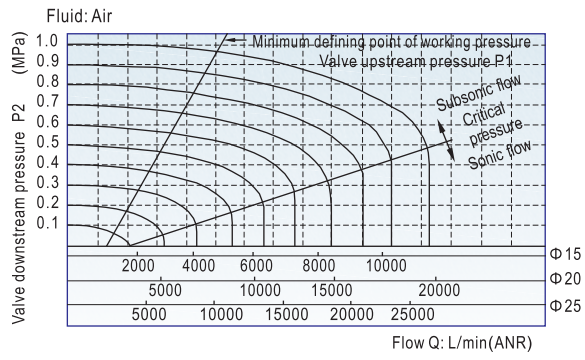


Fluid control valve(2/2 way)

2KW Series (Internally piloted and normally opened)

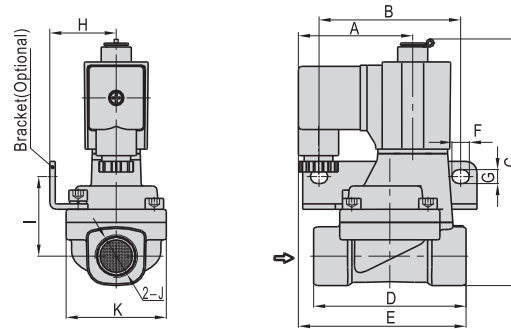


Flow chart



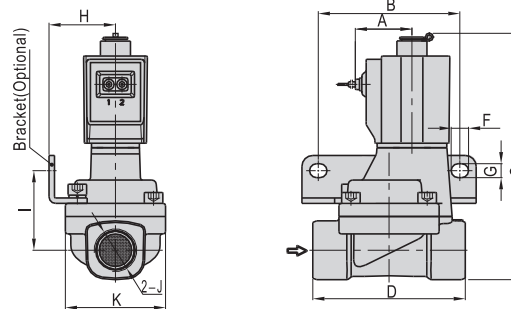
Dimensions

Terminal



Type\Item	A	B	C	D	E	F	G	H	I	J	K
2KW150-15	52.5	65	112.3	70	77	8	6.4	30.5	36.5	1/2"	46
2KW200-20	52.5	75	120.8	82	78.5	8	6.4	34	40	3/4"	53
2KW250-25	52.5	80	129.3	92	81	8	6.4	36	44.5	1"	59

Grommet



Type\Item	A	B	C	D	F	G	H	I	J	K
2KW150-15	26	65	112.3	70	8	6.4	30.5	36.5	1/2"	46
2KW200-20	26	75	120.8	82	8	6.4	34	40	3/4"	53
2KW250-25	26	80	129.3	92	8	6.4	36	44.5	1"	59