

Fluid control valve(2/2way)

2W Series (Direct-acting and normally closed)

AIRTAC



Symbol



Product feature

1. Direct acting and normally closed 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, large volume (L) and extra large volume (T) 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 brass. 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.

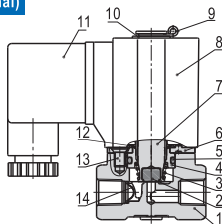
Valve's specification

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	Ambient
	Max. 80	90	80	70
	Min. 1	-20 ②	-10 ③	-20

- ① Note: Please refer to P125 for detail of other's fluid.
 ② Note: Dew point: -20(°C) or less. ③ Note: 50CST or less.

Inner structure

2W030(Terminal)



No.	Item	No.	Item	No.	Item
1	Body	6	Fixed plate	11	Connector
2	Airtight ring	7	Movable core	12	Washer
3	Spring	8	Coil assembly	13	Screw
4	Fixed cap	9	E Clip	14	Filter
5	O-ring	10	Gasket		

- ① Extra large volume type has no filter element.

Specification

Type\Item	Port size ①	Orifice size (Φmm)	Cv	Valid area or section(mm²)	Weight ②(g)	Max. operating pressure differential		Proof pressure	
2WX030	-06 1/8"	1.5	0.10	1.8	305	3.0	450	5.0	750
	-08 1/4"				295				
2WH030	-06 1/8"	2.0	0.18	3.0	305	2.0	300		
	-08 1/4"				295				
2W030	-06 1/8"	3.0	0.33	6.0	305	1.0	150		
	-08 1/4"				295				
2WL030	-06 1/8"	4.0	0.55	10.0	305	0.5	75		
	-08 1/4"				295				
2WT030	-06 1/8"	6.0	1.10	12.0	305	0.1	15		
	-08 1/4"				295				
2WX050	-10 3/8"	3.0	0.34	6.1	620	3.0	450		
	-15 1/2"				600				
2WH050	-10 3/8"	4.0	0.55	10.0	620	2.0	300		
	-15 1/2"				600				
2W050	-10 3/8"	5.0	0.83	15.0	620	1.0	150		
	-15 1/2"				600				
2WL050	-10 3/8"	7.0	1.40	25.0	620	0.5	75		
	-15 1/2"				600				
2WT050	-10 3/8"	10.0	2.20	40.0	620	0.1	15		
	-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, 2W030 series grommet valve's weight is 10g less than terminal's. 2W050series 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)
2W□030	CDA116 CLA116	AC	50	± 15 %	Terminal (CDA) Grommet (CLA)	10.0VA	Class B	35
			60			8.0VA		30
2W□050	CDA170 CLA170	DC	—	± 10 %		6.5W		30
		AC	50	± 15 %		25.0VA		60
			60			22.0VA		55
		DC	—	± 10 %		10.5W		40

Ordering code

2W L 030 08 A □ P									
Model				Thread type					
2W: 2/2 way direct-acting and normally closed				P: PT T: NPT G: G					
Pressure condition				Electrical entry					
X: Extra high pressure H: High pressure Blank: Standard L: Large volume T: Extra 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					
				Port size					
				06: 1/8" 030 Series 08: 1/4" 050 Series 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 P100 for details of ordering code.

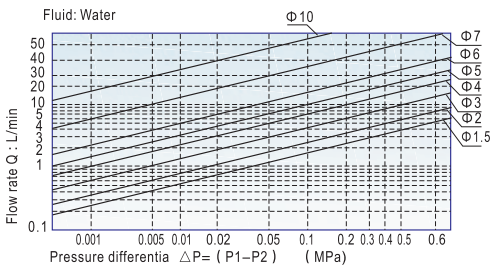
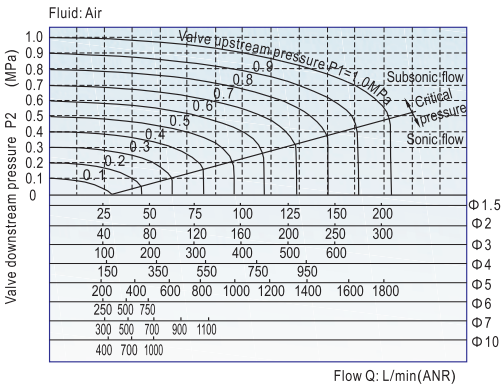


Fluid control valve(2/2way)

2W Series (Direct-acting and normally closed)

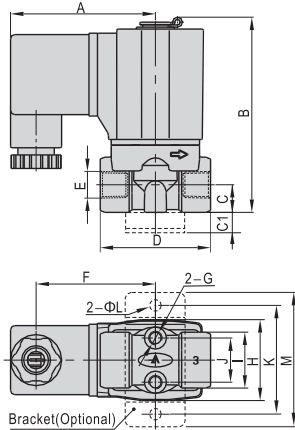
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Flow chart

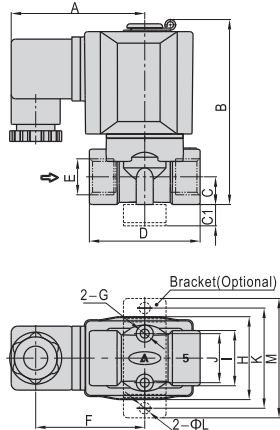


Dimensions

2W□030(Terminal)

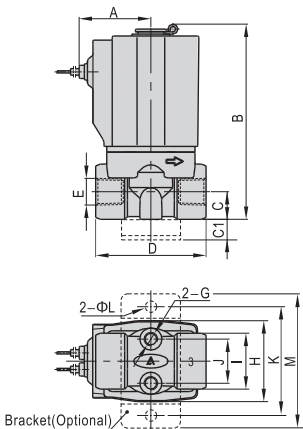


2W□050(Terminal)

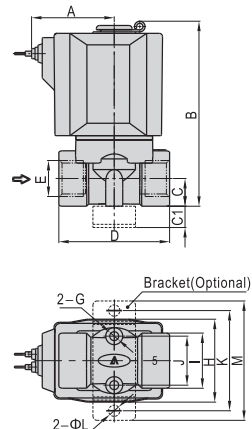


Type\Item	A	B	C	C1	D	E	F	G	H	I	J	K	L	M
2W□030-06	52.5	70.7	10	10	40	1/8"	43.3	M5	29.3	20.2	16	40	5.3	49
2W□030-08	52.5	70.7	10	10	40	1/4"	43.3	M5	29.3	20.2	16	40	5.3	49
2W□050-10	62.7	87	13	10	52	3/8"	51.2	M5	39	26	23	48	5.3	56
2W□050-15	62.7	87	13	10	52	1/2"	51.2	M5	39	26	23	48	5.3	56

2W□030(Grommet)



2W□050(Grommet)



Type\Item	A	B	C	C1	D	E	G	H	I	J	K	L	M
2W□030-06	26	70.7	10	10	40	1/8"	M5	29.3	20.2	16	40	5.3	49
2W□030-08	26	70.7	10	10	40	1/4"	M5	29.3	20.2	16	40	5.3	49
2W□050-10	39	87	13	10	52	3/8"	M5	39	26	23	48	5.3	56
2W□050-15	39	87	13	10	52	1/2"	M5	39	26	23	48	5.3	56



2W

Fluid control valve(2/2way)

AIRTAC

2W Series (Internally piloted and normally closed)



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 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

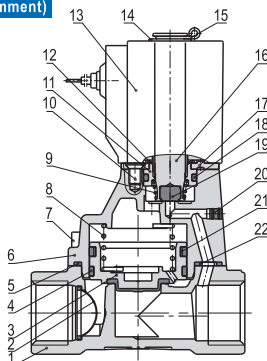
Acting	Internally piloted				
Initial stats	Normally closed				
Adaptable fluid ①	Air, Water, Oil				
Viscosity limit	Under 20CST				
Ambient and fluid temperature(°C)		Water	Air	Oil	Ambient
	Max.	80	90	80	70
	Min.	1	-20 ②	-10 ③	-20

① Note: Please refer to P125 for detail of other's fluid.

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

Inner structure

2W150(Grommet)



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

Specification

Type\Item	Port size ①	Orifice size (Φ mm)	Cv	Valid area or section(mm²)	Weight ②(g)	Max. operating pressure differentia		Proof pressure	
						MPa	psi	MPa	psi
2W150-15	1/2"	15.0	5.50	100.0	720	Max: 1.0 Min: 0.05	Max: 150 Min: 10	1.5	220
2W200-20	3/4"	20.0	9.50	170.0	950				
2W250-25	1"	25.0	12.50	220.0	1200				

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)
2W150	CDA116 CLA116	AC	50	± 15 %	Terminal (CDA)	10.0VA	Class B	35
2W200			60		Gromment (CLA)	8.0VA		30
2W250		DC	—	± 10 %		6.5W		30

Ordering code

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

Ordering code of accessories

Ordering code of accessories is the same as 2S series valve's, Please refer to P102 for details of ordering code.

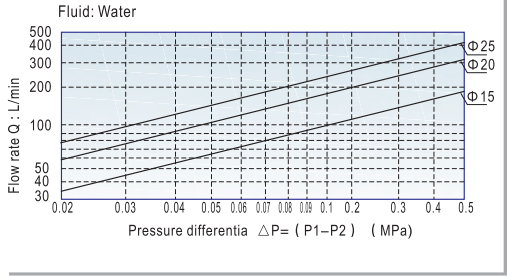
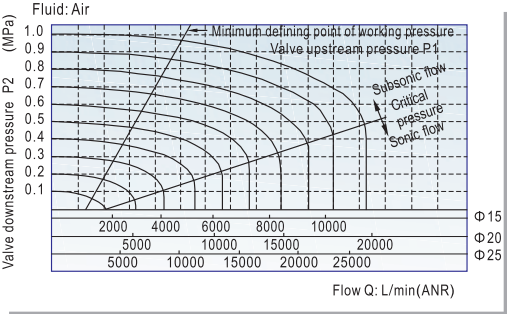


Fluid control valve(2/2way)

2W Series (Internally piloted and normally closed)

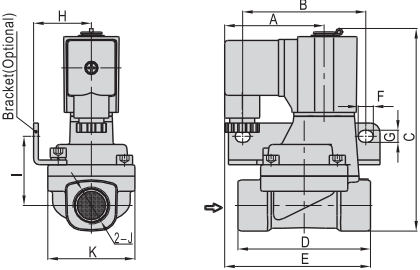


Flow chart



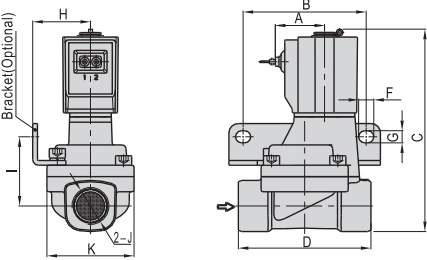
Dimensions

Terminal



Type\Item	A	B	C	D	E	F	G	H	I	J	K
2W150-15	52.5	65	107	70	77	8	6.4	30.5	36.5	1/2"	46
2W200-20	52.5	75	115.4	82	78.5	8	6.4	34	40	3/4"	53
2W250-25	52.5	80	124	92	81	8	6.4	36	44.5	1"	59

Grommet



Type\Item	A	B	C	D	F	G	H	I	J	K
2W150-15	26	65	107	70	8	6.4	30.5	36.5	1/2"	46
2W200-20	26	75	115.4	82	8	6.4	34	40	3/4"	53
2W250-25	26	80	124	92	8	6.4	36	44.5	1"	59

