

Fluid control valve(2/2way)

AIRTAC

2WA Series (Direct-acting and normally closed)



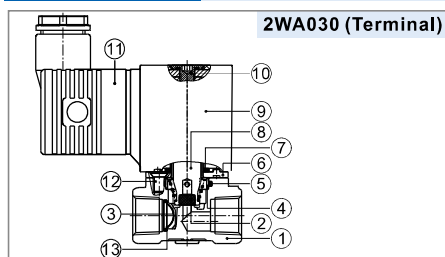
Symbol



Product feature

1. Direct acting and normally closed type 2/2 way fluid 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);
3. It is compact, small size and light weight. Easy to install and dismantle.
4. The valve body is made of brass . Its coil has a Heat resistance classification of Class F. The standard seal material is FPM-F. Please contact us if other seal material are required.
5. The protection class of the coil is IP65 and there is a choice for grommet or terminal electrical entry .

Inner structure



No.	Item	No.	Item
1	Body	8	Movable core
2	Airtight ring	9	Coil assembly
3	Spring	10	Bolt
4	Steel bushing	11	Connector
5	O-ring	12	Screw
6	Fixed plate	13	Filter [Note]
7	O-ring		

[Note] Extra large volume type has no filter element.

Ordering code

Ordering code of valves

2WA L 030 08 A □ □

① ② ③ ④ ⑤ ⑥ ⑦

①Model	②Pressure condition	③Size series	④Port size	⑤Voltage	⑥Electrical entry	⑦Thread type
2WA: 2/2 way direct-acting and normally closed	X: Extra high pressure H: High pressure Blank: Standard L: Large volume T: Extra large volume	030: 030 Series	06: 1/8" 08: 1/4"	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V	Blank: Terminal I: Grommet[Note]	G: G
		050: 050 Series	10: 3/8" 15: 1/2"			

[Note] The wire length is 0.5m.

Ordering code of accessories

F-2WA030 LB

① ② ③

①Accessories code	②Valve type	③Accessories type
F: Mounting accessories	2WA030: 030 Series valve 2WA050: 050 Series valve	LB: LB Type

Specification

Model/Item	Port size [Note1]	Orifice size (Φmm)	Cv	Valid area or section (mm ²)	Weight [Note2](g)	Max.operating pressure differential MPa	psi	Proof pressure MPa	psi
2WAX030	-06 1/8" -08 1/4"	1.5	0.10	1.8	245 235	3.0	450	5.0	750
2WAH030	-06 1/8" -08 1/4"	2.0	0.18	3.0	245 235	2.0	300		
2WA030	-06 1/8" -08 1/4"	3.0	0.33	6.0	245 235	1.0	150		
2WAL030	-06 1/8" -08 1/4"	4.0	0.55	10.0	245 235	0.5	75		
2WAT030	-06 1/8" -08 1/4"	6.0	1.10	12.0	245 235	0.1	15		
2WAX050	-10 3/8" -15 1/2"	3.0	0.34	6.1	530 510	3.0	450		
2WAH050	-10 3/8" -15 1/2"	4.0	0.55	10.0	530 510	2.0	300		
2WA050	-10 3/8" -15 1/2"	5.0	0.83	15.0	530 510	1.0	150		
2WAL050	-10 3/8" -15 1/2"	7.0	1.40	25.0	530 510	0.5	75		
2WAT050	-10 3/8" -15 1/2"	10.0	2.20	40.0	530 510	0.1	15		

[Note1] G thread is available.

[Note2] The weight in the table is the terminal valve's weight, 2WA030 series grommet valve's weight is 10g less than terminal's. 2WA050series 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)
2WA□030	CDA110 CLA110	AC	50	± 15%	Terminal (CDA)	10.0VA	Class F	50
		DC	—	± 10%		8.0VA		45
2WA□050	CDA160 CLA160	AC	50	± 15%	Grommet (CLA)	6.5W		50
		DC	—	± 10%		25.0VA		65
		AC	60	± 15%		22.0VA		60
		DC	—	± 10%		12.0W		50

Valve's specification

Acting	Direct acting				
Initial state	Normally closed				
Adaptable fluid	Air, Water, Oil				
Viscosity limit	Under 20CST				
Ambient and fluid temperature (°C)	Max.	Water 80	Air 90	Oil 80	Ambient 70
	Min.	1	-20 [Note1]	-10 [Note2]	-20

[Note1] Dew point: -20(°C) or less ;

[Note2] 50CST or less.

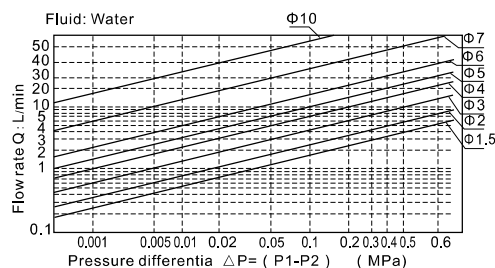
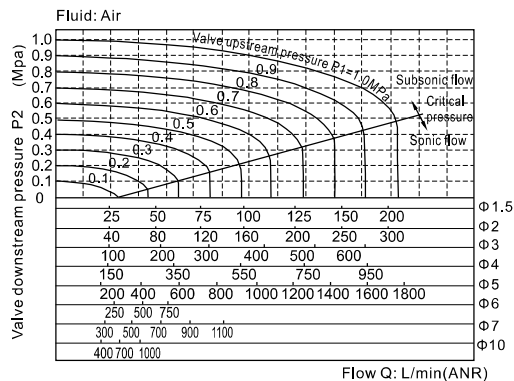


Fluid control valve(2/2way)

AIRTAC

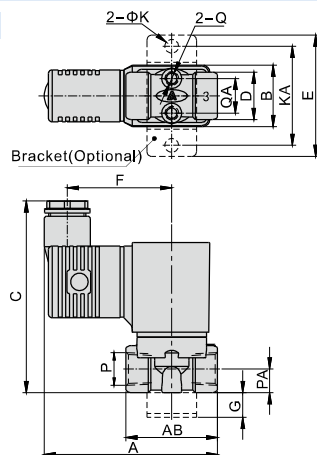
2WA Series (Direct-acting and normally closed)

Flow chart

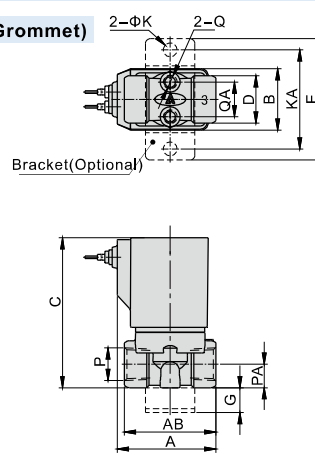


Dimensions

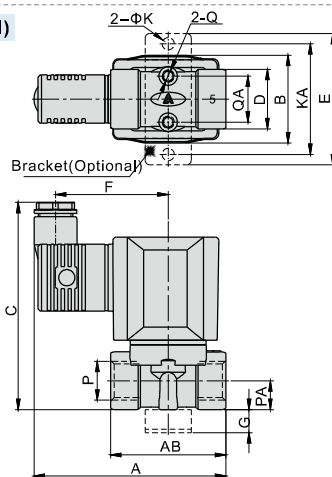
2WA□030 (Terminal)



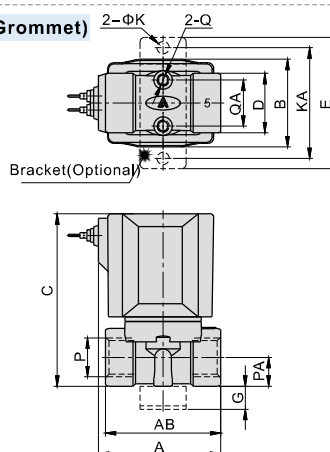
2WA□030 (Grommet)



2WA□050 (Terminal)



2WA□050 (Grommet)



Model/Item	A	AB	B	C	D	E	F	G	K	KA	P	PA	Q	QA
2WA□030-06	70	37	25	77.5	19	49	42	10	5.5	40	1/8"	9.5	M5	13.5
2WAT□030-06	71.5	39.5	25	77.5	19	49	42	10	5.5	40	1/8"	9.5	M5	13.5
2WA□030-08	70	37	25	77.5	19	49	42	10	5.5	40	1/4"	9.5	M5	13.5
2WAT□030-08	71.5	39.5	25	77.5	19	49	42	10	5.5	40	1/4"	9.5	M5	13.5
2WA□050-10	83	50	38	90	26	57	49	10	5.5	48	3/8"	12.5	M5	19.5
2WAT□050-10	84	51	38	93	26	57	49	10	5.5	48	3/8"	12.5	M5	19.5
2WA□050-15	83	50	38	90	26	57	49	10	5.5	48	1/2"	12.5	M5	19.5
2WAT□050-15	84	51	38	93	26	57	49	10	5.5	48	1/2"	12.5	M5	19.5

Model/Item	A	AB	B	C	D	E	G	K	KA	P	PA	Q	QA
2WA□030-06	40	37	25	61	19	49	10	5.5	40	PT1/8	9.5	M5	13.5
2WAT□030-06	41.5	39.5	25	61	19	49	10	5.5	40	PT1/8	9.5	M5	13.5
2WA□030-08	40	37	25	61	19	49	10	5.5	40	PT1/4	9.5	M5	13.5
2WAT□030-08	41.5	39.5	25	61	19	49	10	5.5	40	PT1/4	9.5	M5	13.5
2WA□050-10	53	50	38	78	26	57	10	5.5	48	PT3/8	12.5	M5	19.5
2WAT□050-10	54	51	38	78	26	57	10	5.5	48	PT3/8	12.5	M5	19.5
2WA□050-15	53	50	38	78	26	57	10	5.5	48	PT1/2	12.5	M5	19.5
2WAT□050-15	54	51	38	78	26	57	10	5.5	48	PT1/2	12.5	M5	19.5

Fluid control valve(2/2way)

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2WA Series (Internally piloted and normally closed)



Symbol

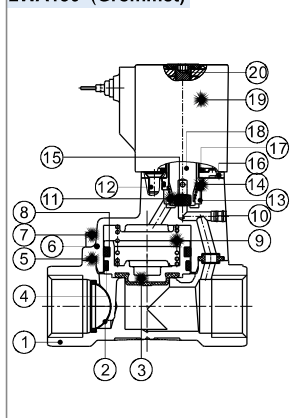


Product feature

1. Indirect acting (Internal pilot) and normally closed type 2/2 way fluid valve. It can change direction quickly and has large flow.
2. It is compact, small and light weight. Easy to install and dismantle;
3. The valve body is made of brass. The coil has a Heat resistance classification of Class F. The standard seal material is FPM-F. Please contact us if other seal material are required.
4. The protection class of the coil is IP65 and there is a choice for grommet or terminal electrical entry.

Inner structure

2WA150 (Grommet)



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

Specification

Model\Item	Port size [Note1]	Orifice size (Φmm)	Cv	Valid area or section (mm ²)	Weight [Note2](g)	Operating pressure differential		Proof pressure	
						MPa	psi	MPa	psi
2WA150-15	1/2"	15.0	5.50	100.0	575	Max: 1.0 Min: 0.05	Max: 150 Min: 10	1.5	220
2WA200-20	3/4"	20.0	9.50	170.0	735				
2WA250-25	1"	25.0	12.5	220.0	1035				

[Note1] G thread is available.

[Note2] 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)
2WA150	CDA110	AC	50	±15%	Terminal (CDA)	10.0VA	Class F	50
2WA200	CLA110	AC	60		Grommet (CLA)	8.0VA		45
2WA250		DC	-	±10%		6.5W		50

Valve's specification

Acting		Internally piloted				
Initial state		Normally closed				
Adaptable fluid		Air, Water, Oil				
Viscosity limit		Under 20CST				
Ambient and fluid temperature (°C)			Water	Air	Oil	Ambient
		Max.	80	90	80	70
		Min.	1	-20 [Note1]	-10 [Note2]	-20

[Note1] Dew point: -20(°C) or less ;

[Note2] 50CST or less.

Ordering code

Ordering code of valves					
	2WA	150	15	A	□ □
	①	②	③	④	⑤ ⑥
① Model	② Orifice size	③ Port size	④ Voltage	⑤ Electrical entry	⑥ Thread type
2WA: 2/2 way internally piloted and normally closed	150: Φ15mm	15: 1/2"	A: AC220V	Blank: Terminal I: Grommet [Note]	G: G
	200: Φ20mm	20: 3/4"	B: DC24V		
	250: Φ25mm	25: 1"	C: AC110V		
			E: AC24V		
			F: DC12V		

[Note] The wire length is 0.5m.

Ordering code of accessories		
	F-2WA150	LB
	①	② ③
① Accessories code	② Valve type	③ Accessories type
F: Mounting accessories	2WA150: 150 Series valve	LB: LB Type
	2WA200: 200 Series valve	
	2WA250: 250 Series valve	

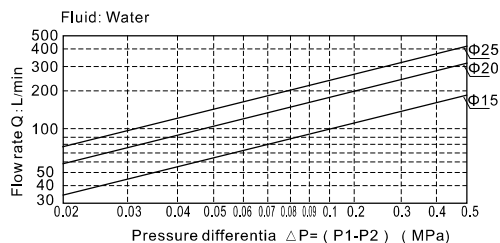
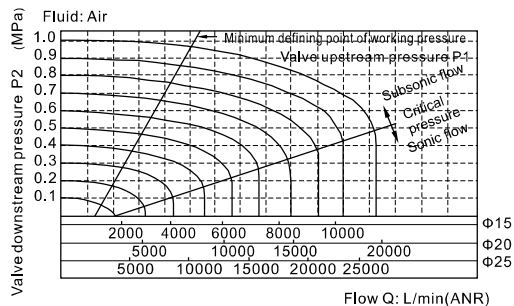


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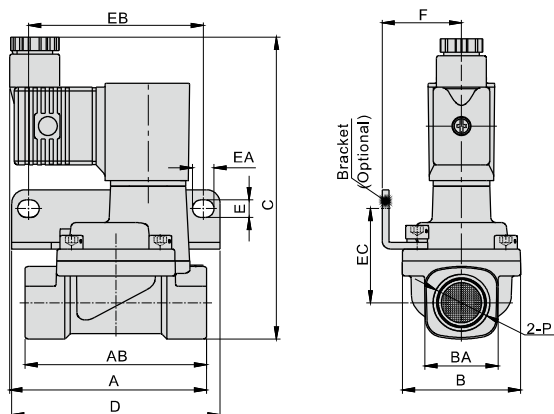
2WA Series (Internally piloted and normally closed)

Flow chart



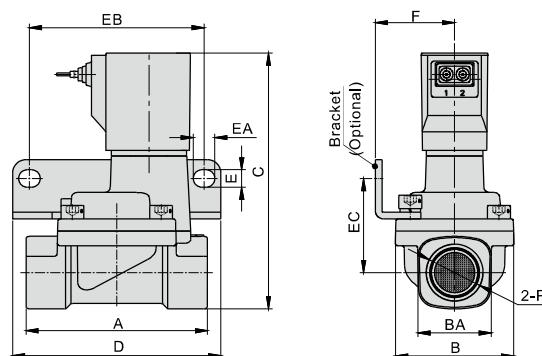
Dimensions

Terminal



Model\Item	A	AB	B	BA	C	D	E	EA	EB	EC	F	P
2WA150-15	73.5	67.5	44	27.5	112	77.5	6.5	8	65	35	29.5	1/2"
2WA200-20	75.5	79.5	51	33	119	87.5	6.5	8	75	38	33	3/4"
2WA250-25	77.5	90	57	40	126	93	6.5	8	80	42	35	1"

Grommet



Model\Item	A	B	BA	C	D	E	EA	EB	EC	F	P
2WA150-15	67.5	44	27.5	96	77.5	6.5	8	65	35	29.5	PT1/2
2WA200-20	79.5	51	33.5	103	87.5	6.5	8	75	38	33	PT3/4
2WA250-25	90	57	40.5	110	93	6.5	8	80	42	35	PT1