

2W Series (Direct-acting and normally closed)



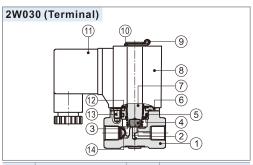
Symbol

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Product feature

- Direct acting and normally closed type 2/2 way solenoid valve. Its high sensibility allows it to change direction quickly;
- 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 .

Inner structure



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

 $[{\hbox{Note}}] \, {\hbox{Extra large volume type has no filter element}}.$

Specification

Model\I	4	Port size	Orifice size	Cv	Valid area or	Weight		essure differentia	Proof p	ressure
woder	tem	[Note1]	(Φ mm)	CV	section (mm²)	[Note2](g)	MPa	psi	MPa	psi
2WX030	-06	1/8"	1.5	0.10	1.8	305	3.0	450		
2007030	-08	1/4"	1.5	0.10	1.0	295	3.0	450		
2WH030	-06	1/8"	2.0	0.18	3.0	305	2.0	300		
20011030	-08	1/4"	2.0	0.10	3.0	295	2.0	300		
2W030	-06	1/8"	3.0	0.33	6.0	305	1.0	150		
20000	-08	1/4"	3.0	0.33	0.0	295	1.0	150		
2WL030	-06	1/8"	4.0	0.55	10.0	305	0.5	75		
-	-08	1/4"	4.0	0.55	10.0	295	0.5	75		
2WT030	-06	1/8"	6.0	1.10	12.0	305	0.1	15		
2001030	-08	1/4"	0.0 1.		12.0	295	0.1	13	5.0	750
2WX050	-10	3/8"	3.0	0.34	6.1	620	3.0	450	3.0	730
2007030	-15	1/2"	3.0	0.34	0.1	600	3.0	450	_	
2WH050	-10	3/8"	4.0	0.55	10.0	620	2.0	300		
20011030	-15	1/2"	4.0	0.55	10.0	600	2.0	300		
2W050	-10	3/8"	5.0	0.83	15.0	620	1.0	150		
20000	-15	1/2"	3.0	0.03	13.0	600	1.0	130		
2WL050	-10	3/8"	7.0	1 40	25.0	620	0.5	75		
Z VV L U 3 U	-15	1/2"	7.0 1.40		23.0	600	0.5	15		
2W/T050	-10	3/8"	10.0	2.20	40.0	620	0.1	15		
2W 1050 -	-15	1/2"	10.0	2.20	40.0	600	0.1	15		

[Note1] PT thread, G thread and NPT thread are available.

[Note2] 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

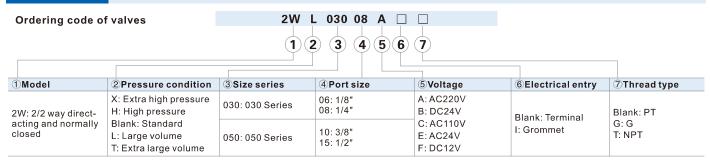
Valve type	Coil type	Power type	Frequency (Hz)	Voltage range	Electrical entry	Power Consumption (VA/W)	Insulation	Temp. rise(°C)
		AC	50	± 15%		10.0VA		35
2W□030	CDA116 CLA116	AC	60	± 15%	Terminal	8.0VA		30
		DC	-	±10%	(CDA)	6.5W	Class B	30
		4.0	50	± 15%	Grommet	25.0VA	Class B	60
	CDA170 CLA170	AC	60	± 15%	(CLA)	22.0VA		55
	CLATTO	DC	-	±10%		10.5W		40

Valve's specification

Acting		Direct acting								
Initial state		Normally closed								
Adaptable fluid		Air, Water, Oil								
Viscosity limit		Under 20CST								
		Water	Air	Oil	Ambient					
Ambient and fluid temperature ($^{\circ}\!$	Max.	80	90	80	70					
	Min.	1	-20 [Note1]	-10 [Note2]	-20					

[Note1] Dew point: $-20(^{\circ}C)$ or less; [Note2] 50CST or less.

Ordering code



Ordering code of accessories

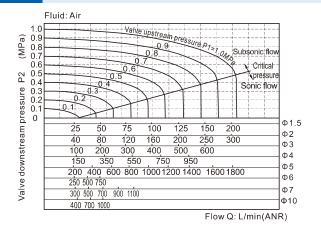
Ordering code of accessories is the same as 2S series valve's, Please refer to P148 for details of ordering code.

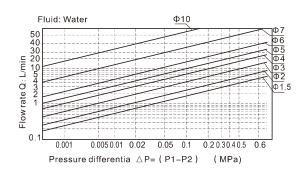




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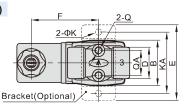
Flow chart

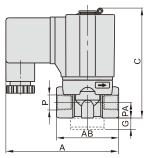




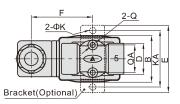
Dimensions

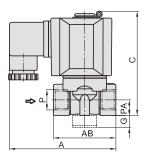
2W□030 (Terminal)



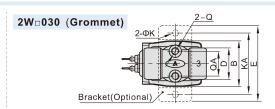


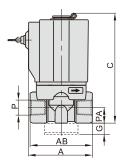
2W₀₅₀ (Terminal)

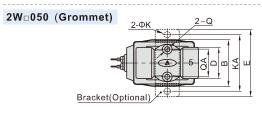


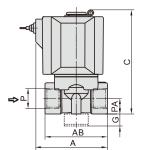


Model\Item	Α	ΑB	В	С	D	Е	F	G	K	KA	Р	PA	Q	QA
2W□030-06	72.5	40	29.5	71	20	49	43.5	10	5.3	40	1/8"	10	M5	16
2W□030-08	72.5	40	29.5	71	20	49	43.5	10	5.3	40	1/4"	10	M5	16
2W ₀ 50-10	89.5	52	39	87	26	56	51	10	5.3	48	3/8"	13	M5	23
2W ₀ 50-15	89.5	52	39	87	26	56	51	10	5.3	48	1/2"	13	M5	23









Model\Item	Α	AB	В	С	D	Е	G	K	KA	Р	PA	Q	QA
2W ₀ 30-06	41	40	29.5	71	20	49	10	5.3	40	1/8"	10	M5	16
2W ₀ 30-08	41	40	29.5	71	20	49	10	5.3	40	1/4"	10	M5	16
2W ₀ 50-10	60	52	39	87	26	56	10	5.3	48	3/8"	13	M5	23
2W ₀ 50-15	60	52	39	87	26	56	10	5.3	48	1/2"	13	M5	23





2W Series (Internally piloted and normally closed)



Symbol

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Product feature

- 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 .

Specification

Model\Item	Port size	Orifice size	Cv	Valid area or	Weight	Operating pres	Proof pressure		
woderatem	[Note1]	((mm)	CV	section (mm²) [Note	[Note2](g)	MPa	psi	MPa	psi
2W150-15	1/2"	15.0	5.50	100.0	720				
2W200-20	3/4"	20.0	9.50	170.0	950	Max: 1.0 Min: 0.05	Max: 150 Min: 10	1.5	220
2W250-25	1"	25.0	12.5	220.0	1200	WIIII. 0.00	101111. 10		

[Note1] PT thread, G thread and NPT thread are 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)
2W150 2W200 2W250	CDA116 CLA116	A.C.	50		Terminal	10.0VA		35
		AC	60	± 15%	(CDA) Grommet	8.0VA	Class B	30
		DC	-	± 10%	(CLA)	6.5W		30

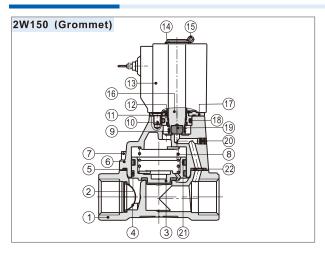
Valve's specification

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

[Note1] Dew point: -20(°C) or less;

[Note2] 50CST or less.

Inner structure



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

Ordering code

Ordering code of valves



①Model	2Orifice size	③Port size	4 Voltage	⑤Electrical entry	6Thread type
2W: 2/2 way internally piloted and normally closed	150: Ф15mm	15: 1/2"	A: AC220V B: DC24V		Blank: PT
	200: Φ20mm	20: 3/4"	C: AC110V	Blank: Terminal I: Grommet	G: G
	250: Φ25mm	25: 1"	E: AC24V F: DC12V		T: NPT

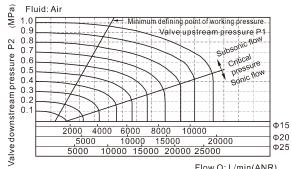
Ordering code of accessories

Ordering code of accessories is the same as 2S series valve's, Please refer to P150 for details of ordering code. [Note] 320\400\500 series valves do not have mounting accessories.

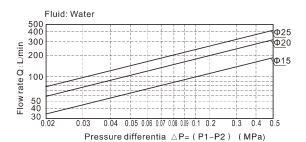




Flow chart

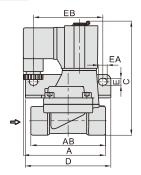


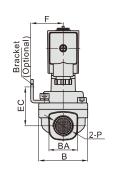
Flow Q: L/min(ANR)



Dimensions

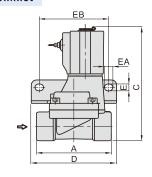
Terminal

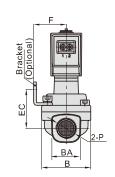




Model\ltem	Α	AB	В	BA	С	D	E	EA	EB	EC	F	P
2W150-15	77	70	46	27.5	107	80	6.4	8	65	36.5	30.5	1/2"
2W200-20	78.5	82	53	33.5	115.5	90	6.4	8	75	40	34	3/4"
2W250-25	81	92	59	40.5	124	95	6.4	8	80	44.5	36	1"

Grommet





Model\Item	Α	В	BA	С	D	E	EA	EB	EC	F	Р
2W150-15	70	46	27.5	107	80	6.4	8	65	36.5	30.5	1/2"
2W200-20	82	53	33.5	115.5	90	6.4	8	75	40	34	3/4"
2W250-25	92	59	40.5	124	95	6.4	8	80	44.5	36	1"