Fluid control valve(2/2way)

2V Series

Symbol

Product feature

2V025 series

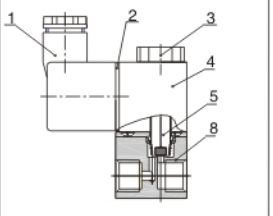
1、Direct drive (acting) and normally closed type 2/2 way solenoid valve can quickly and sensitively change the direction;
2、The structure is delicate and compact;
3、The valve body is made of brass, and the heat resistance classification of coil is B. The seals are made of fluorine rubber (VITON) which is suitable for several kinds of working medium;

2V130 and 250 series

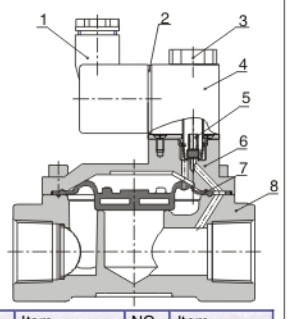
1、The 2/2 way diaphragm piloted solenoid valve has low energy consumption and large flow volume;
2、The starting pressure is low and operation differential pressure is < 0.05MPa;
3、The valve body is made of brass, and the heat resistance classification of coil is B step. The seals are made of NBR.

Inner structure

2V025 Terminal



2V250 Terminal



NO.	Item	NO.	Item	NO.	Item	NO.	Item
1	Connector	3	Nut	5	Armature assembly	7	Diaphragm
2	Connector gasket	4	Coil	6	Body cover	8	Body

Specification

Model	2V025 -06	2V025 -08	2V130 -10	2V130 -15	2V250 -20	2V250 -25
Fluid	Air、Water、Oil					
Acting	Direct acting		Internally piloted acting			
Type	Normally closed					
Orifice Size (φmm)	2.5	2.5	13.0	13.0	25.0	25.0
Cv	0.23	0.23	6.20	6.20	13.00	13.00
Port size ①	1/8 "	1/4 "	3/8 "	1/2 "	3/4 "	1 "
Viscosity limit	Under 20CST					
Operating pressure	0~1.0MPa(0~145psi);		0.05~1.0MPa(7~145psi);			
Prof pressure	1.5MPa(215psi)					
Material of body	Brass with zinc plated		Brass			
Seal material	VITON		NBR			
Min.activating time sec	0.05 sec and below					

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

Specification of coil

Valve type	Power	Frequency (Hz)	Voltage range	Electrical entry	Power consumption (VA/W)	Insulation	Temp rise(℃)
2V025 2V130 2V250	AC	50	±15%	Terminal	7.0VA	Class B	35
		60					
	DC	–	±10%	Grommet	7.0W		45

Ordering code

2V 025 — 08 — A — □ — P

Model	Orifice size	Port size	Voltage	Electrical entry	Thread type
2V: 2port 2 position solenoid valve	025: φ2.5mm	06: 1/8"	A: AC220V	Blank: Terminal	P: PT
	130: φ13mm	08: 1/4"	B: DC24V	I: Grommet	T: NPT
	250: φ25mm	10: 3/8"	C: AC110V		G: G
		15: 1/2"	E: AC24V		
		20: 3/4"	F: DC12V		
		25: 1"			

Usable fluid

Fluid / Seal material	Water	Dry air	Acetone	ISO VG32 oil	Glycol *	Nitrogen	Heavy oil
NBR	○	◎	△	◎	○	◎	○

Fluid / Seal material	JIS#1 Oil	JIS#3 Oil	Vegetable Oil	Inorganic Oil	Start Oil	Silicagel Oil	CO_2	Argon
NBR	◎	○	◎	◎	○	◎	◎	◎

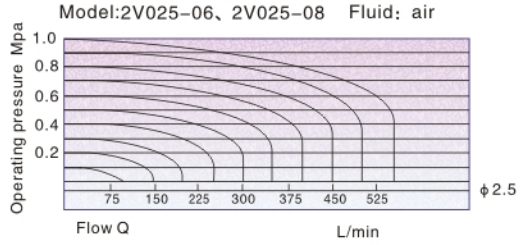
1 Note:◎=Excellent (nearly without affect) ;
○=Good (workable thought some affect) ;
△=Poor (large affect) ;

2 Note: "*" means inflamanable and explosive dangerous liquid. Please use the relative explosion proof coil.

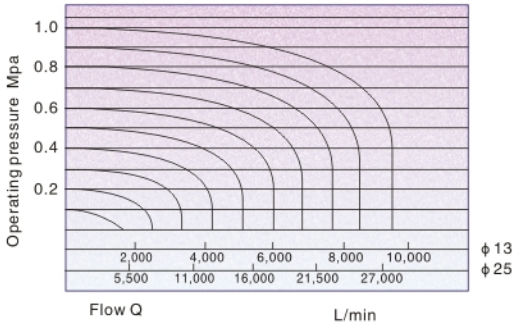
3 Note: Please consult the technical department before using fluid that has not been shown in the above table.

Flow chart

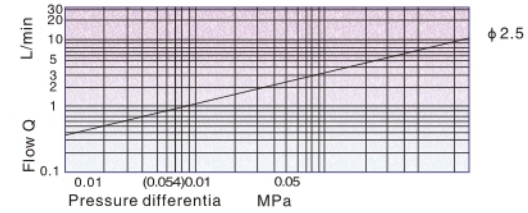
Model:2V025-06、2V025-08 Fluid：air



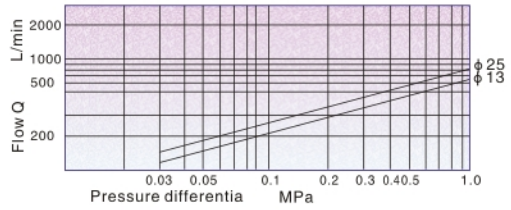
Model:2V130-10 2V250-20
2V130-15 2V250-25 Fluid：air



Model: 2V025-06、2V025-08 Fluid：Water

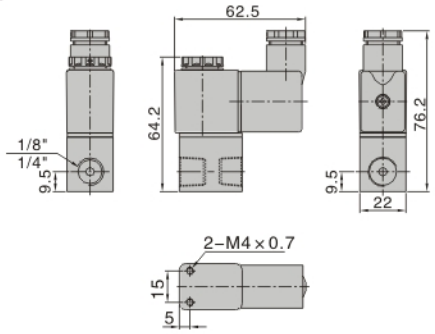


Model:2V130-10 2V250-20
2V130-15 2V250-25 Fluid：Water

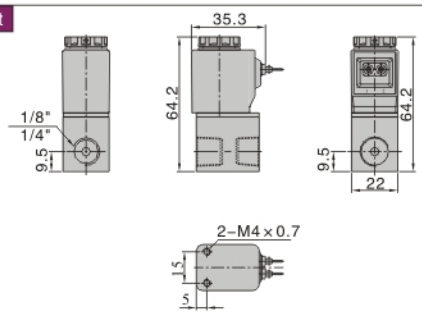


Dimensions

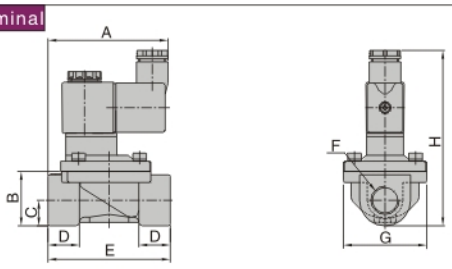
2V025 Terminal



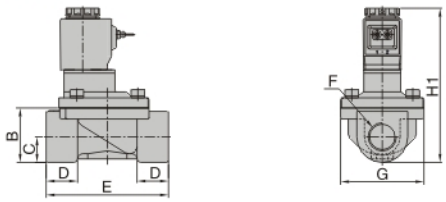
2V025 Grommet



2V130、250 Terminal



2V130、250 Grommet



Mode\Item	A	B	C	D	E	E	F	H	H1
2V130-10	70.7	32	15	18.5	72	3/8″	49	103.2	90.7
2V130-15	70.7	32	15	18.5	72	1/2″	49	103.2	90.7
2V250-20	73.7	45	21	23	102	3/4″	77.5	120	107.4
2V250-25	73.7	45	21	23	102	1″	77.5	120	107.4