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This brochure is a product overview of Zhejiang Balivo Pneumatic Technology Co.
If there is a discrepancy between the picture and the real thing, please take the real thing as the standard, if the user needs more product information of our company, please contact with the marketing department of our company.

Address: Oriental Science and Technology Venture Park,
Wengyang Street, Yueqing, Zhejiang, China
Tel：0577-6166637 0577-61666388
Fax：0577-61666366

BLW
PNEUMATIC

Innovation Excellence, Integrity

Technological Innovation
Beyond the Ordinary

Factory Direct: Copper water valve, zinc alloy valve, steam valve, stainless steel valve, air control valve, electronic drain valve, waterproof valve, normally open valve, SMC-type valve, 0927 valve, angle seat valve, pulse valve, corrosion-resistant valve, 4V solenoid valve, water flow switches

ZHEJIANG BALIWO PNEUMATIC TECHNOLOGY CO..LTD

√:Say good available X:Said does not apply to Blank said data

Material / Medium	NBR	EPDM	PTFE	VITION	SUS304	SUS316	Brass	Iron	Plastic
Acetone		√	√	×	√	√	√	√	
Acetylene	√	×	√	√	√	√	√	√	
Ethanol	√	√	√	×	√	√	√	√	
Methanol	√	√	√	√	√	√	√	√	
Wine	√	√	√	√	√	√	√	√	√
Air	√	√	√	√	√	√	√	√	√
Natural gas	√	√	√	√	√	√	√	√	√
Oxygen	√	√	√	√	√	√	√	√	√
Hydrogen	√		√	√	√	√	√		
Nitrogen	√	√	√	√	√	√	√		
City Gas	√		√	√	√	√	√		
Industrial Gas	√		√	√	√	√	√		
Refined Oil	√		√	√	√	√	√	√	
Plain Water	√	√	√	√	√	√	√	√	√
Water Vapor	√	√	√	√	√	√	√	√	
Drinking Water	√	√	√	√	√	√	√	√	√
Sea	√	√	√	√	√	√	√	√	√
Industrial Waste Water			√	√	√	√			
Gasoline	√	×	√	√	√	√	√	√	
Kerosene	√	×	√	√	√	√	√	√	√
Diesel	√	×	√	√	√	√	√	√	√
Milk	√	√	√	√	√	√	√	√	√
Ammonia	×		√						
Toluene		×	√	√	√	√	√	√	
Xylene		×	√	√	√	√	√	√	
Propane	√	×	√	√	√	√	√	√	
Methane	√	×	√	√	√	√	√	√	
Sulfur Dioxide			√	√	√	√	√	√	
Sodium HydroXide	√	×	√	√	√	√		√	
Nitric Acid			√	√	√	√			
Sulfuric Acid			√	√					
Hydrochloric Acid	√		√	√					
Acetic Acid	√	×	√	√	√	√	√	√	

Product Contents


2W025-08


2W040-10


2W200-20


2W400-40


2W500-50


2W160-15D


2W160-15K(常开)


2W160-15E


2W250-25G

Ordering Code

2W 160 - 15 K D DC24V

- Operating voltage
- D:Plastic coil E:Proof coil G:Waterproofcoil Blank:Tieke coil
- K:Normally Open NOBlank: Normally Closed NC
- Port size:1/8"-2"
- Flow path:160-15mm
- Product Type

Product Feature

Suitable for controlling the liquid, gas, light oil (s 20CST) and othermedia, the use of the structure of direct-acting, zeropres sure to open thevalve, flow rateand high reliability. Bodymade of brass (forging), the serieshas a variety of typesyou cancontrol needs.

Coil Parameters

AC220V 110V 50Hz/60HZ DC24V 12V
Plastic coil IP65Class F
Standard Junction Box
Hulled coil IP54 Cass F
Leaded Availablefor other voltage coil

Plastic coil	DN2.5~25mm	AC 20VA	DC 18W
	DN35~50mm	AC 40VA	DC 30W
Hulled coil	DN2.5~5mm	AC 16VA	DC 16W
	DN10~25mm	AC 20VA	DC 28W
	DN35~50mm	AC 46VA	DC 30W

Optional

- Seal Material: Viton-10℃~130℃, EPDM-10℃~110℃ silicone rubber VMQ-20℃~110℃.
- a steel coil (conventional type), plastic coil.
- Threaded connection: NPT thread, RC thread.
- Time timing controller (only with plastic coil with).

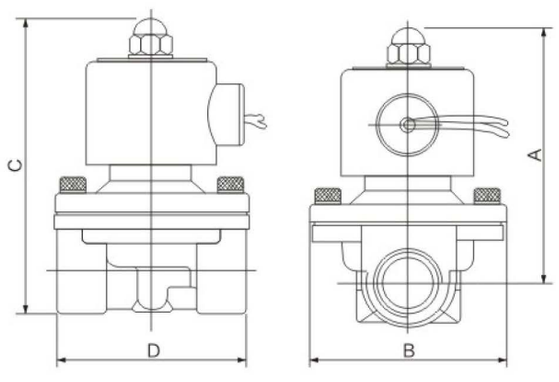
Proposal

- You try to choose the design of the control scheme normally closed (NC), such as solenoid valves open a long time, shut down for a short time the selection of normally open (NO).
- fluid contains impurities, the filter should be installed before the valve (≥ 60 mesh strainer).
- The direction of the body marks must be consistent with the medium flow.

Technical Data

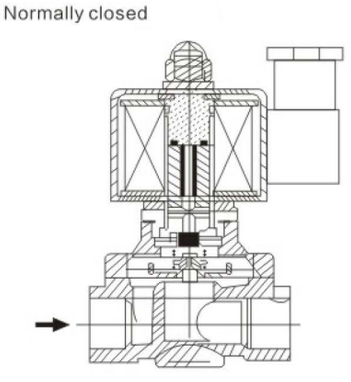
Moled	2W025-06	2W025-08	2W040-10	2W160-10	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
Work Medium	Air, Water, Oil, Gas									
Motion Pattern	Direct Drive									
Type	Normally ClosedNC(Power-on) Normally OpenNO(Powerof)									
Aperture Do Flow Ratea	2.5		4	16	16	20	25	35	40	50
Cv Value	0.23		0.6	4.8	4.8	7.6	12	24	29	48
Joint Pipe Bore	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Operation Fluid Viscosity	20CSTBelow									
Working-pressure	0~7		Oil:0~5;Gas:0~7; Water: 0-5;Air: 0~7							
Max.Pressure Resistance	10		10.5							
Operating Termperature Rang	-5~80									
Voitge Range	± 10%									
Material Of Boby	2W: Brass									
Material Of Oil Saeal	Nitrile rubber NBR Conventional)									

Overall Dimension Drawing(mm)



Inner Consturction

Normally closed



Dimension Sheet

Moled	2W025-06	2W025-08	2W040-10	2W160-10	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
A	66	66	74	101.5	101.5	107	111.5	142	142	172
B	30.3	30.3	32.2	57	57	57	73.5	95	95	123
C	75	75	85.5	117	117	123.5	134.5	172	172	209
D	40.5	40.5	52.5	69	69	73	99	123	123	168

2S025-08 2S200-20 2S160-15D

2S250-25G 2S200-20K(常开)

2S400-40

2S500-50

Ordering Code

2S 160 - 15 K D DC24V

- DC24V: Operating voltage
- D: D:Plastic coil E:Proofcoil G:Waterproofcoil Blank: Tieke coil
- K: K: normally open NO Blank: normally closed NC
- 15: Port size:1/"8~2"
- 160: Flow path:160~16mm
- 2S: Product Type

Product Feature

Suitable for controlling the liquid, gas, light oil (s 20CST) and othermedia, the use of the structure of direct-acting zero pressure to open thevalve, flow rate, and high reli-ability.The valve body is made of stainless steelSS304 Precision Casting.

Coil Parameters

AC220V 110V 50HZ/60HZ DC24V 12V
Plasticcoil IP65 ClassF
Standard Junction Box
Hulled coil IP54 Class F
Leaded Available forother voltage coil

Plastic coil	DN2.5~25mm	AC20VA	DC18W
	DN35-50mm	AC40VA	DC30W
Hulled coil	DN2.5~5mm	AC16VA	DC 16W
	DN10-25mm	AC20VA	DC28W
	DN35-50mm	AC46VA	DC30W

Optional

- Seal Material: Viton-10℃-130℃,EPDM-10℃-110℃ siliconerubber VMQ-20℃-110℃.
- A steel coil (conventional type),plastic coil.
- Threaded connection: NPT thread,RC thread.
- Time timing controller (only with plastic coil with).

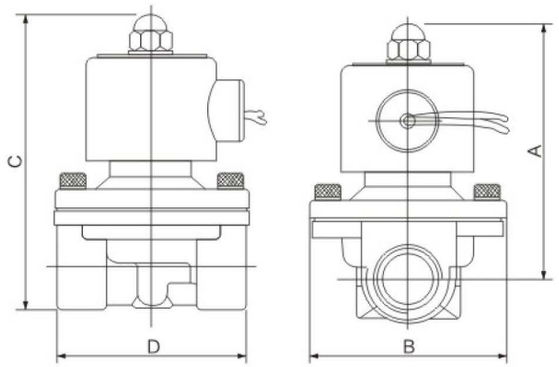
Proposal

- You try to choose the design of the control scheme normally closed (NC) such as solenoid valves open a long time, shut down for a short time theselection of normally open (NO).
- Fluid contains impurities, the filter should be installed before the valve(60 mesh strainer).
- The direction of the body marks must be consistent with the medium flow.

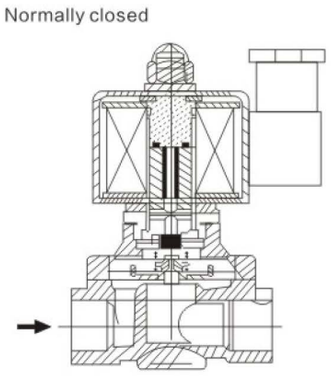
Technical Data

Moled	2S 025-06	2S 025-08	2S 040-10	2S 160-10	2S 160-15	2S 200-20	2S 250-25	2S 350-35	2S 400-40	2S 500-50
Work Medium	Air, Water, Oil, Gas									
Motion Pattern	Direct Drive									
Type	Normally Closed NC(Power-on) Normally OpenNO(Powerof)									
Aperture Do Flow Ratea	2.5		4	16	16	20	25	35	40	50
Cv Value	0.23		0.6	4.8	4.8	7.6	12	24	29	48
Joint Pipe Bore	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Operation Fluid Viscosity	20CSTBelow									
Working-pressure	0~7		Oil: 0~5;Gas:0~7; Water: 0~5; Air:0~7							
Max.Pressure Resistance	10		10.5							
Operating Termperature Rang	-5~80									
Voitge Range	± 10%									
Material Of Boby	Stainless steel									
Material Of Oil Saeal	NBR, EPDM Or VITON									

Overall Dimension Drawing(mm)



Inner Consturction



Dimension Sheet

Moled	2S 025-06	2S 025-08	2S 040-10	2S 160-10	2S 160-15	2S 200-20	2S 250-25	2S 350-35	2S 400-40	2S 500-50
A	66	66	74	101.5	101.5	107	111.5	142	142	172
B	30.3	30.3	32.2	57	57	57	73.5	95	95	123
C	75	75	85.5	117	117	123.5	134.5	172	172	209
D	40.5	40.5	52.5	69	69	73	99	123	123	168

2L170-10

2L170-20

2L300-40

Ordering Code

2L 170 - 15 AC110V

- AC110V: Operating Voltage — AC110V 50/60Hz; AC220V 50/60Hz; AC380V 50/60Hz
- 15: Join Pipe Bore — 15: 1/2"; 20: 3/4"; 25: 1"; 35: 1 1/4"; 40: 1 1/2"; 50: 2"
- 170: Aperture Of Flow Rate — 170: 17mm; 200: 22mm; 300: 30mm; 500: 500mm
- 2L: Steam Type

Product Feature

Suitable for steam, hot water, liquids and other media control, the pilot piston, polytetrafluoroethylene (PTFE) sealing body made of brass.

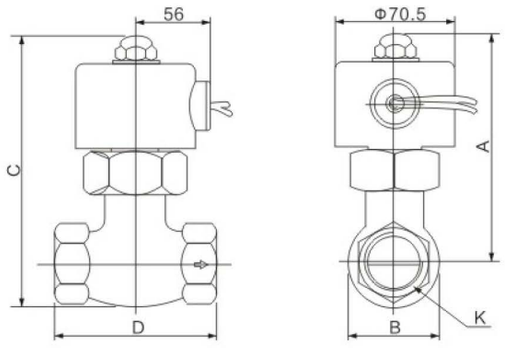
Proposal

- fluid contains impurities, the filter should be installed before the valve (≥ 60 mesh strainer).
- The solenoid valve should be installed horizontally, coil up, the direction of the body marks must be consistent with the medium fow.consistent with the medium flow.

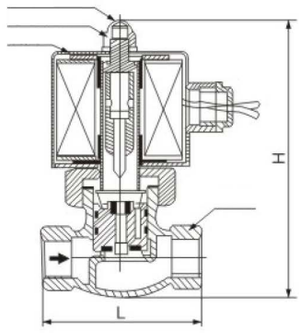
Technical Data

Moled	2L170-10	2L170-15	2L170-20	2L200-25	2L300-35	2L300-40	2L500-50
Work Medium	Air, Water, Steam						
Motion Pattern	Guide Type						
Type	Normal CIcse Type						
Aperture Do Flow Ratea	17			22	30		50
Cv Value	4.8			12	20		48
Joint Pipe Bore	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Operation Fluid Viscosity	20CSTBelow						
Working-pressure	1~15						
Max.Pressure Resistance	22.5						
Operating Termperature Rang	-5~180						
Voitge Range	± 10% AC220V 110V50Hz/60Hz 50VA						
Material Of Boby	Brass						
Material Of Oil Saeal	PTFE						

Overall Dimension Drawing(mm)



Inner Consturction



Dimension Sheet

	2L170-10	2L170-15	2L170-20	2L200-25	2L300-35	2L300-40	2L500-50
A	125	125	125	136	148	148	176
B	42	42	42	52	74	74	94.5
C	146	146	146	162	185	183	223
D	82	82	82	90.5	111	111	163
K(PT)	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

ZW160-15

ZW250-25

ZW500-50

Ordering Code

ZW 25 - J K N DC24V

- DC24V — Operating Voltage
- N — Wiring Form
  - D:Plastic Coil
  - Blank:Tieke Coil
- K — Open Close Type
  - K: Normally Open NO
  - Blank: Normally Closed NC
- J — Materia Of Boby
  - L: Stainless Steel
  - Blank: Brass
- 25 — Aperture Of Flow Rate
- ZW — Product Type

Product Feature

Suitable for controling the control of liquids, gases,ols (S 20CST) and other media, the use of direct-action step structure,zero pressure to operthe valve, reliable performance, a higher cost products. body material brass (forging), stainless stee ss304 (precision casting) with normally open andnormally closed structure and a variety of sealing materials.

Optional

Seal Material: Viton-10℃~130℃
EPDM diene rubber -10℃~110℃
Thread: NPT thread, RC thread
Plastic coil can be equipped with a timing controller.

Proposal

- You try to choose the design of the control scheme normally closed (NC), such as solenoid valves open a long time. shut downfor a short time the selection of normally open (NO).
- Fluid contains impurities, the filter should be installed before the valve (> 60 mesh strainer).
- The direction of the body marks must be consistent with the medium flow.
- Direct current (DC) power source control ine length is not too long, in order to avoid the powerloss of the coil voltage drop andaffect the normal work.
- Provide special voltage coil working pressure may change, be sure to consult with my factory.

Technical Data

Medium temperature	-5℃-80℃
Working pressure	0~10barmax(See Specifications)
Motion Pattern	Step-by-step direct-acting Type: normally closed NC (power-on) normally open NO (power off)
Body material	Brass,stainless steel Ss304
Sealing material	Acrylonitrile-butadiene rubber (NBR)
Coil Parameters	AC220V 110V 50Hz/60HZ DC24 12V Plastic coil DN10~25mm AC20VA DC19W IP65 Class F DN35~50mm AC40VA DC30W With a standardiunction box DN10~25mm AC20VA DC28W DN35~50mm AC46VA DC30W(Availableforothervoltagecoil)

Specifications table

Moled	Interfaceg	Diameter	CV	Long	High	Working pressure(bar)			
						Normally Closed NC		Normally Open NO	
						AC	DC	AC	DC
ZW-10	3/8"	15	4.8	60	111	0~10	0~8	0~6	0~6
ZW-15	1/2"	15	4.8	60	111	0~10	0~8	0~6	0~6
ZW-20	3/4"	20	7.6	62	117	0~10	0~8	0~6	0~6
ZW-25	1"	25	12	82	124	0~10	0~8	0~6	0~6
ZW-32	1 1/4"	32	24	102	156	0~10	0~7	0~6	0~6
ZW-40	1 1/2"	40	29	110	161	0~10	0~7	0~6	0~6
ZW-50	2"	50	48	134	176	0~10	0~7	0~6	0~6

DFD-20

DFD-50

Ordering Code

DFD(ZCS) 15 - J F K DC24V

- DC24V: OperatingVoltage
- K: Open Close Type — K:Normally Open NO; Blank: Normally Closed NC
- F: Connection Type — F:Flange Connection
- J: Materia Of Boby — L:Stainless Steel; Blank:Brass
- 15: Aperture Of Flow Rate
- DFD(ZCS): Product Type

Product Feature

Suitable for controing iquid, gas, light ol (s 20CST) and other media, the use of a pilot structure, mult-species sturdy molded diaphragm (main valveseals),a Sino-US joint venture high-qualty magnetic materials, stable performance, high relabitybody materlal brass (forging), stainless stee SS304, SS316(precision casting), DF (ZCS) series with a variety of types, you can control needs.

Optional

Seal Material: Viton-10℃~130℃ EPDM diene rubber -10℃~110℃
With LED indicator junction box.
Threaded connection: NPT thread, RC thread.
Time timing controller.

Proposal

- You try to choose the design of the control scheme normally closed (NC), such as solenoid valves open a long time, shut downfor a short time the selection of normally open (NO).
- Fluid contains impurities, the filter should be installed before the valve (> 60 mesh strainer).
- The direction of the body marks must be consistent with the medium flow.
- Direct current (DC) power source control ine length is not too long, in order to avoid the power loss of the coil voltage drop andaffect the normal work.
- Provide special voltage coil working pressure may change, be sure to consult with my factory.

Technical Data

Medium temperature	-5℃-80℃
Working pressure	0.3~16bar max(See Specifications)
Motion Pattern	Pilot type direct-acting Type: normally closed NC (power-on) normally open NO (power off)
Body material	Brass,stainless steel SS304
Sealing material	Acrylonitrile-butadiene rubber (NBR)
Coil Parameters	AC220V 110V 50Hz/60HZ DC24 12V Plastic coil IP65Class F Hulled coil IP54 ClassF DN10~20mm AC14VA DC14W DN25~100mm AC18VA DC20W DN125~200mm AC20VA DC28W(Availableforothervoltagecoil)

Specifications table

Moled	Interface	Diameter	CV	Long	High	Working pressure(bar)			
						Normally closed NC		Normally open NO	
						AC	DC	AC	DC
DFD-10	G3/8"	10	3.8	80	105	0.3~16	0.3~12	0.3~8	0.3~8
DFD-15	G1/2"	15	3.8	80	105	0.3~16	0.3~12	0.3~8	0.3~8
DFD-20	G3/4"	20	7	87	114	0.3~16	0.3~12	0.3~8	0.3~8
DFD-25	G1"	25	11	107	122	0.3~16	0.3~12	0.3~8	0.3~8
DFD-32	G1 1/4"	32	14	129	131	0.3~16	0.3~10	0.3~8	0.3~8
DFD-40	G1 1/2"	40	24	145	142	0.3~16	0.3~10	0.3~8	0.3~8
DFD-50	G2"	50	35	177	155	0.3~16	0.3~10	0.3~8	0.3~8
DFD-65F		65	52	256	248	0.3~12	0.3~8	0.3~8	0.3~8
DFD-80F		80	82	277	268	0.3~12	0.3~8	0.3~8	0.3~8
DFD-100F		100	129	350	290	0.3~12	0.3~8	0.3~8	0.3~8

PS-15

PS-25

PS-50

Ordering Code

PS 15 - K AC220V

- AC220V — Operating Voltage
- K — Open Close Type: K:Normally Open NO; Blank: Normally Closed NC
- 15 — Aperture Of Flow Rate
- PS — Product Type

Product Feature

Suitable for steam, a high temperature liquid, hot oi medium (20CST), the pilot piston structure, the high-magnetic materal, the main valve seal isnolvtetrafluoroethvlene (PTFE), the valve body is made of brass hot foring). cast iron (orecision casting. ts stable performance. hich reliability.

Optional

- Threaded connection: NPT thread.G thread.
- Polvester plastic coi: 1P65 class wit standard junction box. medium temperature s 150'/medium temperature T 2 150' should be selected in a steesealed plastic coil).

Proposal

- You try to choose the design of the control scheme normally closed (NC), such as so lenoid valves open a long time, shut downfor a short time the selection of normally open (NO).
- Fluid contains impurities, the filter should be installed before the valve (> 60 mesh strainer).
- Solenoid valve should Preferably be mounted horizontally, coilup,the direction of the body marks must be consistent with the medium fow.
- Direct current (DC) power source control line length is not too long, in order to avoid the power loss of the coil voltage drop andaffect the normal work.
- Provide special voltage coil working pressure may change, be sure to consult with my factory.

Technical Data

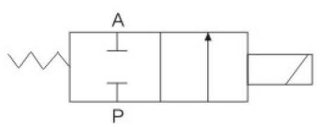
Medium temperature	-5℃~180℃
Working pressure	0.4~16 bar max (See Specifications)
Motion Pattern	Pilot type direct-acting Type: normally closed NC (power-on) normally open NO (power off)
Body material	Brass
Sealing material	Piston type polytetrafluoroethylene (PTFE)
Coil Parameters	Hulled sealed plastic coil AC220V 110V 50Hz/60Hz 20VA DC24V 12V 28W IP65 Class H Polyester plastic coil AC220V 110V 50Hz/60Hz 20VA DC24V 12V 19W IP65 Class H Available for other voltage coil

Specifications table

Moled	Interfaceg	Diameter	CV	Long	High	Working pressure(bar)			
						Normally Closed NC		Normally Open NO	
						AC	DC	AC	DC
PS-15	G1/2"	15	4.8	70	135	0.4~16	0.4~16	0.4~8	0.4~8
PS-20	G3/4"	20	7.6	74	142	0.4~16	0.4~16	0.4~8	0.4~8
PS-25	G1"	25	12	92	150	0.4~16	0.4~16	0.4~8	0.4~8
PS-32	G1 1/4"	32	20	110	164	0.4~12	0.4~12	0.4~8	0.4~8
PS-40	G1 1/2"	40	31	122	168	0.4~12	0.4~12	0.4~8	0.4~8
PS-50	G2"	50	48	160	190	0.4~12	0.4~12	0.4~8	0.4~8

VX2120-08

Symbol



Ordering Code

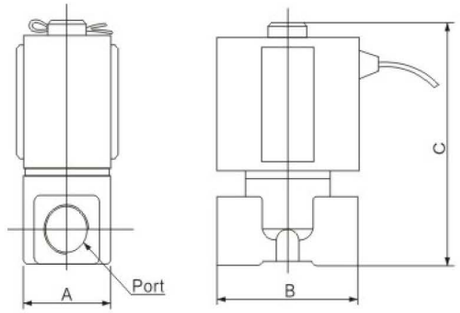
VX2120 08 - A - AC220V

- Standard Voltage: DC12V DC24V; AC24V 50/60Hz; AC110V 50/60Hz; AC220V 50/60Hz; AC380V 50/60Hz
- Wiring Form: Blank: Standard Type; A: Large Flux
- Join Pipe Bore: 06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"
- Specification Code

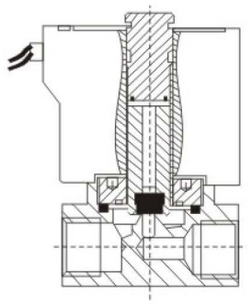
Technical Data

Moled	VX2120-06	VX2120-08	VX2120-10	VX2120-010A	VX2120-15
Work Medium	Air, Water, Oil, Steam				
Type	Direct Drive Type				
Working-Pressure	Normal CIcse Type				
Aperture Do Dlow Ratea	0~10				
Joint Pipe Bore	3		10	13	
Motion Pattern	1/8"	1/4"	3/8"	3/8"	1/2"
Operating Termperature Rang	-5~150℃		-5~80℃		
Material Of Oil Saea	VITON		NBR		

Overall Dimension Drawing(mm)



Inner Consturction



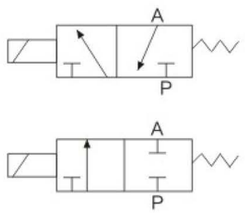
Dimension Sheet

Moled	VX2120-06	VX2120-08	VX2120-10	VX2120-010A	VX2120-15
Port	1/8"	1/4"	3/8"	3/8"	1/2"
A	25	25	40	48	68
B	40	40	48	68	68
C	64	64	80	110	110

FB2E-V

DC231Y

Symbol



Ordering Code

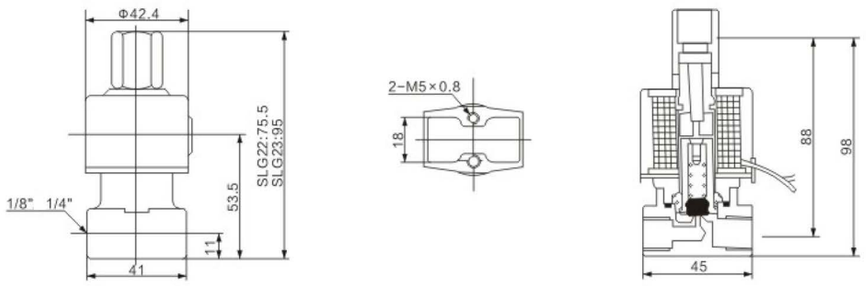
MY 23 - 06 - AC220V

- Standard Voltage: DC12V DC24V / AC24V 50/60Hz / AC110V 50/60Hz / AC220V 50/60Hz / AC380V 50/60Hz
- Join Pipe Bore: 06：1/8" 08：1/4"
- Aperture Of Flow Rate: 22: Two Position Two Way; 23: Two Position Three Way
- Factory Code

Technical Data

Moled	FB2E-V		FB2E-V		DC231Y	DC231Y
Work Medium	Air, Water, Oil				Air	
Aperture do flow Ratea	1.6	2.4	3.2	4	16	
Cv Value	0.1	0.21	0.33	0.43	1.1	
Joint Pipe bore	1/8"		1/4"		1/8"	1/4"
Working-pressure	0~15	0~10	0~7	0~5	0~9	
Voltge Range	± 10%					
Material Of Oil Saeal	NBR or VITON					

Overall Dimension Drawing(mm)



0955105-0955505

0927000-0927200

0927300-0927400

(1)Liquid Kinematic Bunching Viscosity Is In 1mm²/S

(2)Liquid Kinematic Bunching Viscosity Is In 25mm²/S

(3)In Standard state 1 MPa=10bar=10Kgf/cm²

Technical Data

Work Medium	Neutral Fluid Medium (Air/Water/oil)	High Temperature Moving Gaseous Medium (steam,Oil)		
Vperating Temperature	≤80℃	≤120℃	≤150℃	
Major Parts Material Valve	Hpb59-1 NBR OCr18Mo2Ca	Hpb59-1 VITONOCr18Ma2Ca		Hpb59-1 VITONOCr18Ma2Ca

Dimension Sheet

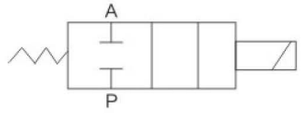
Nominal diameter (mm)	Bore	Working Pressure(MPa)				Kv M/H	Weight (kg)	Frequnce (mir)	Model	
		Min	Max						Normaly Closed	Normaly Opened
			Air	Liquid 1	Liquid 2				Valve + Electromagnetic head	Valve + Electromagnetic head
8	G1/4"	0.03	1.6	1.6	1.0	1.15	0.65	30	0927000/series.0201	0955105/series.0201
10	G3/8"	0.03	1.6	1.6	1.0	1.70	0.65	30	0927100/series.0201	0955205/series.0201
12	G1/2"	0.03	1.6	1.6	1.0	1.70	0.65	30	0927200/series.0201	0955305/series.0201
20	G3/4"	0.03	1.6	1.6	1.0	5.10	1.15	30	0927300/series.0201	0955405/series.0201
25	G1"	0.03	1.6	1.6	1.0	5.35	1.25	30	0927400/series.0201	0955505/series.0201
32	G1 1/4"	0.05	1.6	1.6	1.0	20.0	2.65	30	0927500/series.0201	0955605/series.0201
40	G1 1/2"	0.05	1.6	1.6	1.0	25.0	2.55	30	0927600/series.0201	0955705/Series.0201
50	G2"	0.05	1.6	1.6	1.0	43.0	3.45	30	0927700/series.0201	0955805/series.0201

PU220-04A

PU225-06A

PU220-08A

Symbol



Ordering Code

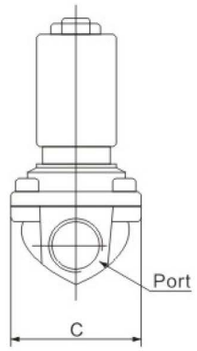
PU 200 - 02 - A - AC220V - T

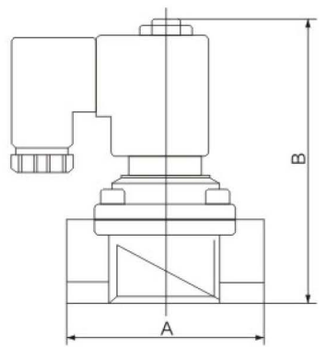
Wiring Form	Blank: Standard Coil T: Timer Coil
Standard Voltage	AC220V AC110V DC12V DC24V
Initial Estate	A: Standard Type AR: Amall Aperture Direct Drive F: Flang Type
Join Pipe Bore	03：3/8" 04：1/2" 06：3/4" 08：1" 12：1-1/4" 14：1-1/2" 20：2"
Motion Pattem	220: Direct Drive
Specification Code	PU: Two Position Two Way Solenoid Valve

Ordering Code

Moled	PU220 -01AR	PU220 -02AR	PU220 -03AR	PU220 -03A	PU220 -04A	PU220 -06A	PU220 -08A
Work Medium	Air, Water, Oil						
Motion Pattern	Direct Drive						
Type	Normal CIcse Type						
Aperture do flow Ratea	1.5	2.3	8	13	13	20	25
Cv Value	0.1	0.18	1	4	4	8.6	11
Joint Pipe bore	1/8"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Operation Fluid Viscosity	50CST						
Working-pressure	0~7						
MaxPressure Resistance	10.5						
Operating Termperature Rang	-10~80						

Overall Dimension Drawing(mm)





Overall Dimension Drawing(mm)

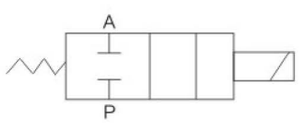
Moled	Port	A	B	C
PU220-01AR	1/8	22	72	22
PU220-02AR	1/4	35	75.5	25.4
PU220-03AR	3/8	5	79.5	30
PU220-03A	3/8	66.5	101	48
PU220-04A	1/2	66.5	101	48
PU220-06A	3/4	71	107	48
PU220-08A	1	96	120	70

PU225-04A

PU225-06A

PU225-08A

Symbol



Ordering Code

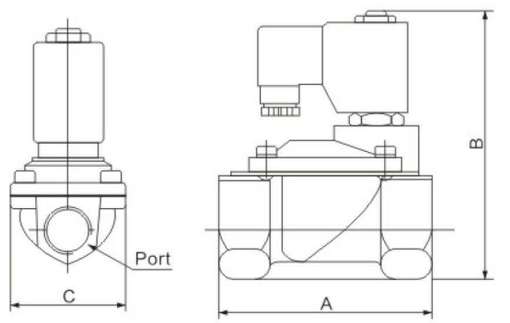
PU 225 - 03 - A - AC220V - T

Wiring Form	Blank: Standard Coil T: Timer Coil
Standard Voltage	AC220V AC110V DC12V DC24V
Initial Estate	A: Standard Type F: Flang Type
Join Pipe Bore	03: 3/8" 04: 1/2" 06: 3/4" 08: 1" 12: 1-1/4" 14: 1-1/2" 20: 2"
Motion Pattem	225: Guide Type
Specification Code	PU: Two Position Two Way Solenoid Valve SPU: Stainless Steel Two Position Two Way Solenoid Valve

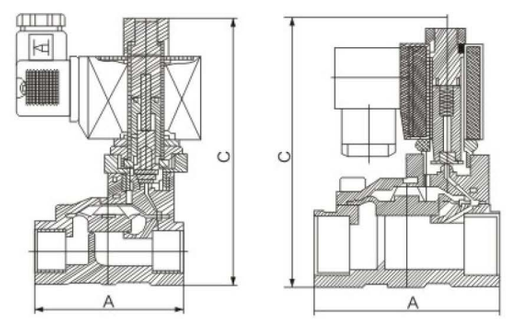
Technical Data

Moled	PU225-03A SPU225-03A	PU225-04A SPU225-04A	PU225-06A SPU225-06A	PU225-08A SPU225-08A	PU225-12A SPU225-12A	PU225-14A SPU225-14A	PU225-20A
Work Medium	Air, Water, Oil						
Motion Pattern	Guide Type						
Type	Normal CIcse Type						
Aperture do flow Ratea	13	13	25	25	38	38	50
Cv Value	4.5	4.5	12	12	22	30	48
Joint Pipe bore	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Material Of Body	Brass or Steel						
Operation Fluid Viscosity	50CST						
Working-pressure	0.5~10						
Max.Pressure Resistance	15						
Operating Termperature Rang	-5~80						

Overall Dimension Drawing(mm)



Inner Consturction

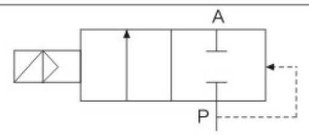


Dimension Sheet

Moled	PU225-03A SPU225-03A	PU225-04A SPU225-04A	PU225-06A SPU225-06A	PU225-08A SPU225-08A	PU225-12A SPU225-12A	PU225-14A SPU225-14A	PU225-20A
Port	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	66.5	66.5	96	96	131	131	160
B	106.5	106.5	126	126	145.5	145.5	160.5
C	48	48	70	70	96	96	112

MY5404-04~MY5404-08

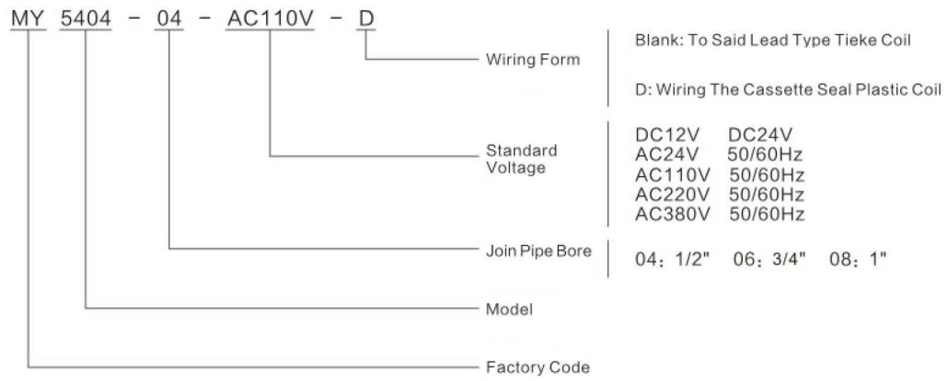
Symbol



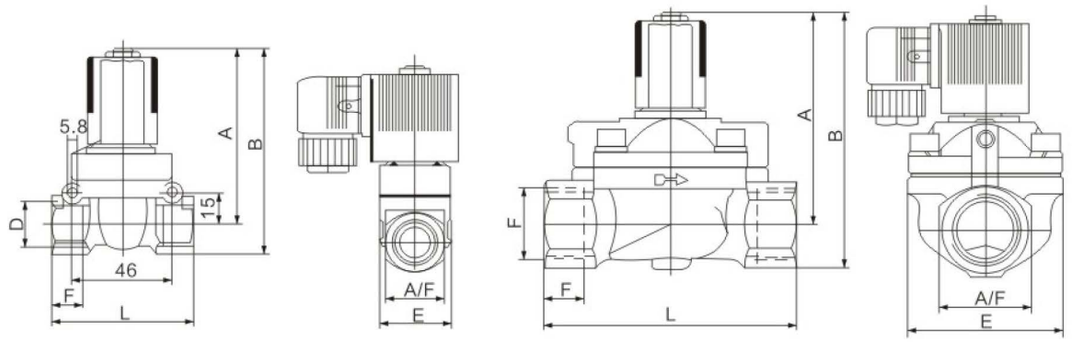
Technical Data

Moled	MY5404-04	MY5404-06	MY5404-08
Work Medium	Air, Water, Oil		
Motion Pattern	Guide Type		
Type	Normal Clcse Type		
Aperture do flow Ratea	12	25	25
Cv Value	2	5	10
Joint Pipe bore	1/2"	3/4"	1"
Working-pressure	Gas:1~50,Liquid:1~50	Gas:1~40,Liquid:1~25	Gas:1~40,Liquid:1~25
Max.Pressure Resistance	75	60	
Operating Termperature Rang	-5~150		
Voltge Range	±10%		
Protect Class	IP65		
Power Consumption	AC:5.5VA DC:9W		
Insulation	Class		
Material of Boby	Brass		
Material Of Oil Saeal	PTFE		

Ordering Code



Overall Dimension Drawing(mm)



Dimension Sheet

Moled	MY5404-04	MY5404-06	MY5404-08
Inner hole(mm)	12	20	25
Connection Port	1/2"	3/4"	1"
A	83	93	99.5
F	95.5	109	119
B	14	16	18
E	32	60	70
L	65	100	115
A/F	27	32	40


MY2213-04

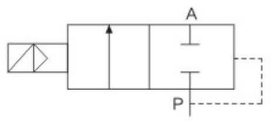

MY2213-06


MY2213-08

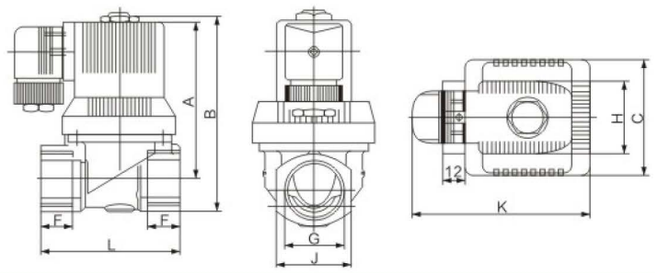
Technical Data

Moled	MY2213-02	MY2213-03	MY2213-04	MY2213-04	MY2213-06	MY2213-06	MY2213-08
Inside Nominal Diameter	10			14		25	
Joint Pipe Screw Thread	G1/4"	G3/8"	G1/2"	G1/2"	G3/4"	G3/4"	G1"
Working Pressure	0.03~10						
Environment Temperature	-10~+55						
Medim Temperature	-10~+90						
Kv Value	2		3.6	8.3	8.3	11	11
Power Consumptin AC(VA)	14						
Power Consumptin DC(W)	8						
Chage Frequency	≥1			≥0.5			
Power Voltage	AC: 50Hz 24V, 110V, 220V DC: 24V,12V						

Symbol



Overall Dimension Drawing(mm)



Dimension Sheet

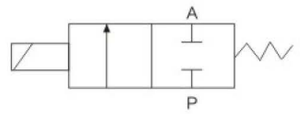
Moled	G	C	F	L	J	A	B	H	K
MY2213-02	G1/4"	38	14	50	26	71	85	35	71
MY2213-03	G3/8"	38	14	50	26	71	85	35	71
MY2213-04	G1/2"	38	14	50	26	71	85	35	71
MY2213-04	G1/2"	45	16	58	31	82	96	35	80
MY2213-06	G3/4"	45	16	58	31	82	96	35	80
MY2213-06	G3/4"	65	18	82	41	96	117	35	90
MY2213-08	G1"	65	18	82	41	96	117	35	90

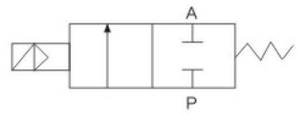

2V025-08


2V130-15


2V250-25

Symbol



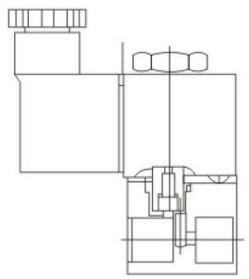


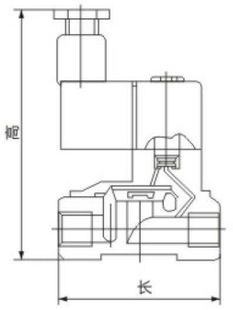
Ordering Code

2V 025 - 06 - AC110V

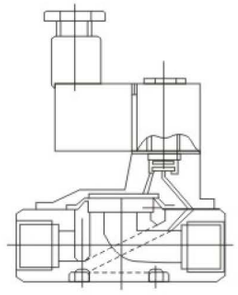
Standard Voltage	DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz
Join Pipe Bore	04：1/8" 08：1/4" 10：3/8" 15：1/2" 20：3/4" 25：1"
Aperture Of Flow Rate	025：2.5mm 130：13mm 250：25mm
Specification Code	2V: Two Position Two Way Solenoid Valve

Inner Consturction


2V025-08



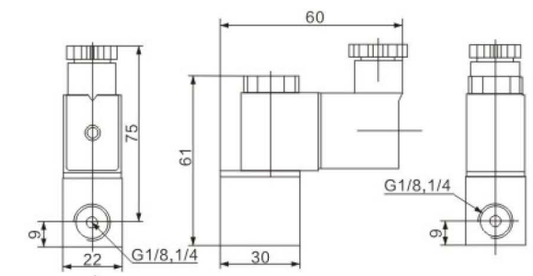
2V130-15


2V250-25

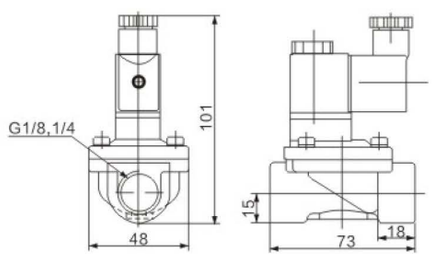
Technical Data

Moled	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
Work Medium	Air, Water, Oil					
Motion Pattern	直动式/Direct Drive		Guide Type			
Type	Normal Clcse Type					
Aperture do flow Ratea	2.5		13		25	
Cv Value	0.23		6.2		23	
Joint Pipe bore	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Operation Fluid Viscosity	20CST(Below)					
Working-pressure	Air, Water, Oil:0~8		Air, Water, Oil:0.5~7			
MaxPressure Resistance	12		10.5			
Operating Termperature Rang	-10~80					
Voltge Range	±10%					
Protect Class	IP65					
Power Consumption	AC:7VA/60Hz, 9VA/50Hz, DC:6W					
Insulatior	F Class					
Material of Boby	Aluminum Or Brass		Brass			
Material Of Oil Saeal	NBR/VITON		NBR			
Shortest Excitation Time	0.05Second					

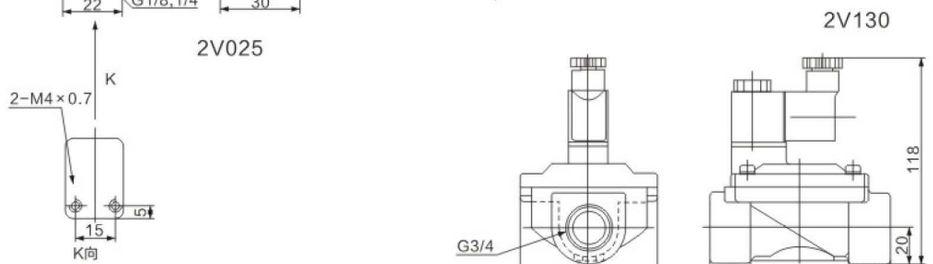
Overall Dimension Drawing(mm)



2V025



2V130



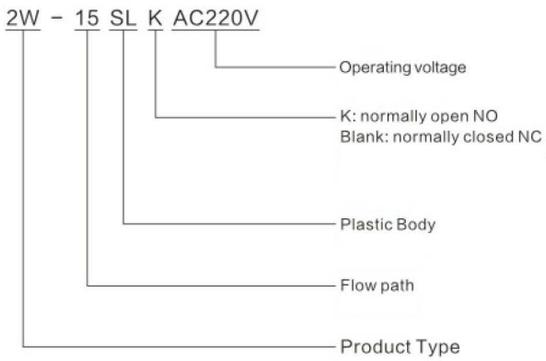
2V250

2W-25SL

2W-20SL

2W-15SL

Ordering Code



Product Feature

Suitable for liquid, gas, diluted pesticide, fertilizer and other media controlusing the structure of the step-by-step direct-acting and the Body materialreinforced nylon (PA) high reliability, widely used, and highly cost-effective.

Proposal

- You try to choose the design of the control scheme normally closed (NC)such as solenoid valves open a long time, shut down for a short time theselection of normally open (NO).
- The body marks direction must be consistent with the medium flow.
- Fluid contains impurities, the filter should be installed before the valve (>60 mesh strainer).

Technical Data

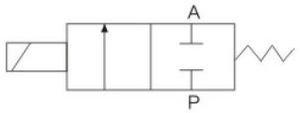
Medium femperature	-5℃~60℃
Working pressure	0~7bar max
Motion Pattern	Step-by-step direct-actingdirect-acting Type: normally closed NC (power-on) normally open N0 (power off)
Body material	Reinforced nylon PA
Sealing material	Acrylonitrile-butadiene rubber (NBR)
Coil Parameters	AC220V 110V 50Hz/60Hz 26VA DC24V 12V 18W Polyester plastic IP65 F level (with standard junction box available for other voltage coil)

Specifications table

Moled	Interface G	Diameter mm	Cv Value	Long mm	High mm	Working pressure(bar)			
						Normally closed NC		Normally open NO	
						AC	DC	AC	DC
2W-15SL	1/2"	15	4.8	70	115	0~7	0~7	0~6	0~6
2W-20SL	3/4"	20	7.6	74	115	0~7	0~7	0~6	0~6
2W-25SL	1"	25	12	87	125	0~7	0~7	0~6	0~6

2P025-08

Symbol

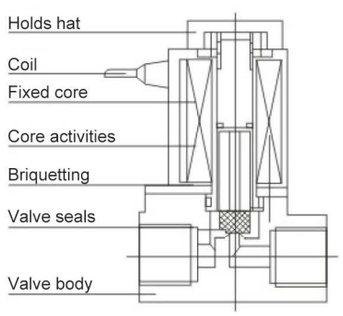


Ordering Code

2P 025 - 06 AC110V D

Wiring Form	Blank: Lead Wire Type D: Join Connector
Standard Voltage	DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz
Join Pipe Bore	06：1/8" 08：1/4"
Aperture of Flow Rate	025：2.5mm
Specification Code	2P: Two Position Two Way Solenoid Valve(Plastic Steel Type)

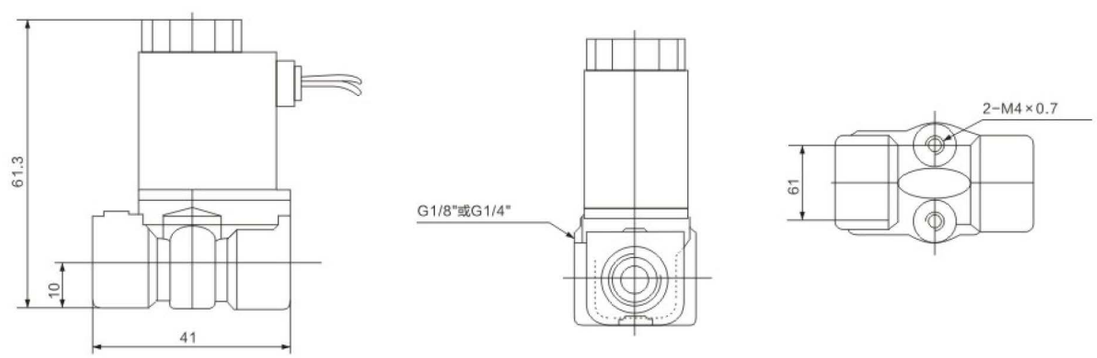
Inner Consturction



Technical Data

	2P025-06	2P025-08
	Air, Water, Oil, Gas	
	Direct Drive	
	Normal Clcse Type	
	2.5	
	0.23	
	1/8"	1/4"
	20CST (Below)	
	0~7	
	10.5	
	-5~80	
	± 10%	
	AC: 7VA/50HZ；9VA/50HZ，DC: 6W	
	Engineering Plasrstic Steel	
	NBR，EPDM VITON	

Overall Dimension Drawing(mm)



MY2400-04

MY2400-10

Product Feature

Applicable to various types of gas, liquid, oi (s 20CST) media, piston pilot structure. stable performance, hich reliability. the body is made of hichquality brass, the main valve seal made of polvtet rafluoroethylene (PTFE).

Technical Data

Medium temperature	-5℃-80℃
Suitable Medium	Liquid Gas
Working pressure	1~60 bar
Motion Pattern	Pilot piston type direct-acting Type: normally closedNC(power-on)
Body material	Polytetrafluoroethylene(PTFE)
Sealing material	Brass
Coil Parameters	AC220V 110V 50Hz/60HZ 22VA DC24V 12V 18W Polyester plastic IP65 H level(Available for other voltage coil)

Proposal

- The solenoid valve should be installed horizontally, coil up, the direction of the body marks must be consistent with the medium flow.
- Direct current (DC) power source control line length is not too long, in order to avoid the power loss of the coil voltage drop andaffect the normal work.

Specifications table

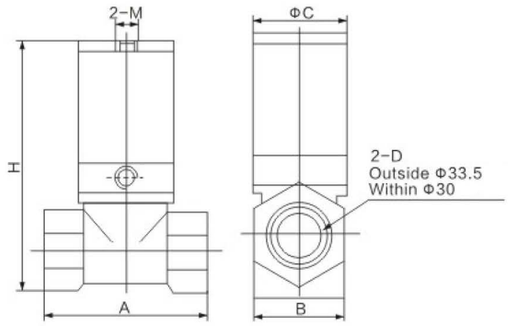
Moled	Interface G	Diameter mm	Cv Value	Long mm	High mm	Working pressure(bar)	
						AC	DC
MY2400-04	3/8"或1/4"	4	0.45	48	102	1~60	1~50
MY2400-06	3/8"或1/4"	6	0.8	48	102		
MY2400-10	1/2"	10	1.5	60	117		

Ordering Code

Q 22 - HD - □ - □

- Nominal Diameter
- Marked "1" for a Single Role (Dual role Omitted)
- The Fluid Gas Control Valve
- Two-Position Two-Way
- Pneumatic

Overall Dimension Drawing(mm)



Product Feature

Dimension Sheet

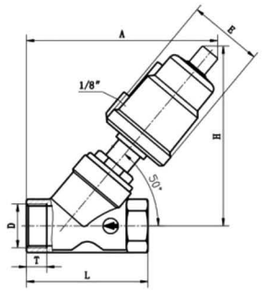
Moled	A	B	C	D	H	M
Q22HD-15	46	26	Φ37	G1/2"	96	G1/8"
Q22HD-20	54	32	Φ37	G3/4"	107	G1/8"
Q22HD-25	66	34	Φ37	G1"	118	G1/8"
Q22HD-35	80	53	Φ55	G1 1/4"	162	G1/8"
Q22HD-40	80	53.6	Φ55	G1 1/2"	162	G1/8"
Q22HD-50	105	66	Φ78	G2"	180	G1/4"

Technical Data

Moled	Nominal Diameter	Take Over The Thread	Working Medium	Working Pressure	Operating Temperature	Flow Coefficient Kv Values
Q22HD-15	15	G1/2"	Air, Water, Oil, Light Viscosity Fluid	0.2~0.6MPa	0.5~60℃ 0.5~150℃ (High temperature)	4
Q22HD-20	20	G3/4"				5
Q22HD-25	25	G1"				10
Q22HD-35	40	G1 1/4"				25
Q22HD-40	40	G1 1/4"				25
Q22HD-50	50	G1/2"				40

JZF-DN15-A Stainless steel
pneumatic threaded angle seat valve

Dimension Drawing(mm)



Technical Data

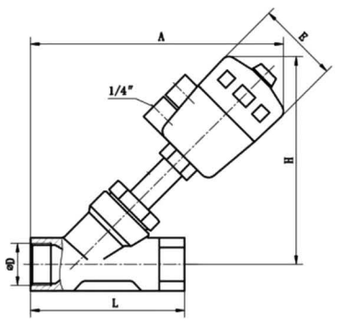
Medium temperature	-20°C~+180°C
Ambient temperature	-20°C~+60°C
Nominal pressure	1.6MPa
Control gas	Neutral gas, air
Gas source pressure	0.3~0.8MPa
Specification	DN15-DN100
Valve body material	CF8 CF8M
Seat material	PTFE
Stem Material	304
Seal material	NBR

Specifications table

Model	L	T	A	H	D	E	Actuator
DN15	68	11	133	126	1/2"	62	¢ 50
DN20	75	14	137	131	3/4"	62	¢ 50
DN25	90	15	174	165	1"	62	¢ 50
DN32	115	17.5	188	175	11/4"	76	¢ 63
DN40	115	17.5	190	178	11/2"	76	¢ 63
DN50	135	20	215	225	2"	76	¢ 63
DN65	185	30	252	280	21/2"	96	¢ 80
DN80	208	33	280	320	3"	114	¢ 100
DN100	235	33	300	350	4"	114	¢ 100

Dimension Drawing(mm)

JZF-DN10-B JZF-DN10-C



Technical Data

Medium temperature	-20°C~+180°C
Ambient temperature	-20°C~+60°C
Nominal pressure	1.6MPa
Control gas	Neutral gas, air
Gas source pressure	0.3~0.8MPa
Specification	DN15-DN100
Valve body material	CF8 CF8M
Seat material	PTFE
Stem Material	304
Seal material	NBR

Model	L	A	H	D	E	Actuator
DN10	65	165	120	3/8"	64	¢ 50
DN15	80	172	137	1/2"	64	¢ 50
DN20	95	178	145	3/4"	64	¢ 50
DN25	105	210	165	1"	64	¢ 50
DN32	120	220	180	11/4"	80	¢ 63
DN40	130	228	190	11/2"	80	¢ 63
DN50	150	268	245	2"	100	¢ 80
DN65	185	282	300	21/2"	100	¢ 80
DN80	208	368	340	3"	126	¢ 100
DN100	235	420	395	4"	125	¢ 125

Ordering Code

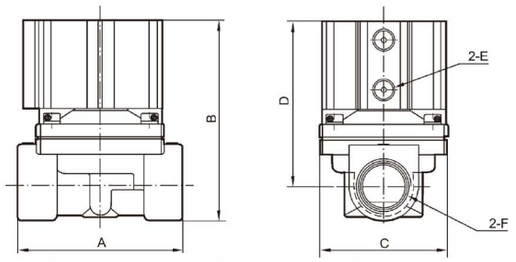
2Q 160 – □

- Receiver caliber
- Flow caliber
- Model

Product Feature

They are widely used in various mechanical equipment, paper making, sew-age treatment and other specialized and special environment equipment. Theycan be used to control the fl-ow of air, water, oil, steam and other fluids to achieve automation and remote control. High flow rate, good sealing, complete specifications, high temperature resistance.

Overall Dimension Drawing(mm)



Product Feature

Model	A	B	C	D	E	F
2Q160-10	66	83	57	70.5	M5	1/4"
2Q160-15	66	83	57	70.5	M5	1/2"
2Q200-20	92	108	78	87.5	1/8"	3/4"
2Q250-25	91	108	78	87.5	1/8"	1"
2Q350-35	124	125	95	100.5	1/4"	1'/4"
2Q400-40	126	131	95	102.5	1/4"	1'/2"
2Q500-50	168	152	125	117	1/4"	2"

Technical Data

Model	2Q160-10/15	2Q200-20	2Q250-25	2Q350-35	2Q400-40	2Q500-50
Working Medium	Air, Water, Oil, Gas					
Opration	Direct					
Orfice	16mm	20mm	25mm	35mm	40mm	50mm
CV Value	4.8	12	7.6	24	29	48
Port Size	1/4" 1/2"	3/4"	1"	1'/4"	1'/2"	2"
Operation Fluid Viscosity	Below 50 CST					
Applied Pressure Range	0~0.7Mpa					
Max.Test Pressure	1.05MPa					
Control Pressure Range	0.3~0.6MPa					
Ambient Temperature Range	-5~100°C					
Material of Body	Brass					
Material of Oil Seal	PTFE					
Contril Pore Size	2-M5	2-G1/8	2-G1/8	2-G1/4	2-G1/4	2-G1/4"

Pressure Regulator AR Series AR1000-5000


AR2000-02


AR3000-03


AR4000-04


AR5000-10

Filter With Pressure Regulator AW Series AW1000-5000


AW2000-02


AW3000-03


AW4000-04


AW5000-10

Air Filter Combination(FR、L Combination)AC1010-5010 Series


AC2010-02


AC3010-03


AC4010-04


AC5010-10

Air Filter Combination(F、R、L Combination)AC1000-5000 Series


AC2000-02


AC3000-03

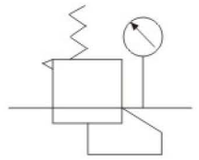

AC4000-04


AC5000-10


QTYH-15


QTYH-25

Symbol



Ordering Code

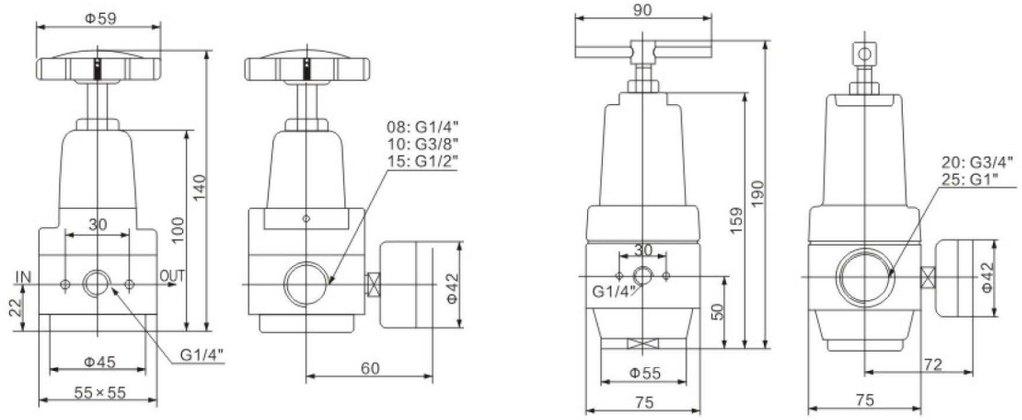
QTYH - 15

- 15 — Join Pipe Bore: 08: G1/4" 10: G3/8" 15: G1/2" 20: G3/4" 25: G1"
- QTYH — Type: High Pressurs Ragulator

Technical Data

Moled	QTYH-08	QTYH-10	QTYH-15	QTYH-20	QTYH-25
Operating Fluid	Air				
Joint Pipe Bore	G1/4	G3/8	G1/2	G3/4	G1
Filtering Eliment Roughness	40μ				
Range Of Adjustable Pressurs	0.05~3.0MPa				
Max.Adjustable Pressure	4MPa				
Operating Temperature Ranfge	5~80℃				

Overall Dimension Drawing(mm)



2W(2L,US)Large Aperture Coil
Coilaperture,Height:φ23x55
Applicable powerand Voltage:AC28VA DC24W

2W(UW)Series Coil
Coilaperture,Height:φ16x37
Applicable powerand Voltage:AC15VA DC12W

2W(UD)Series
CoilCoilaperture,Height:φ14x31
Applicable powerand Voltage:AC18VA DC16W

AB410A
Coilaperture,Height:φ16x38
Applicable power and Voltage:AC26VA DC18W

2W(2LmUS)LargeAperturePlastic Capsulation Coil
Coilaperture,Height:φ22x55
Applicable powerand Voltage:AC28VA DC24W

PU Series Coil
Coilaperture,Height:φ14x42
Applicable powerand Voltage:
0543:AC22VA DC13W
0545:AC28VADC20W

Blast-proof Series Coil
Coilaperture,Height:φ13
Applicable powerand Voltage:AC17VA DC20W

PU Series Diaphragm

VX Series Coil
Coilaperture,Height:φ11x35
AC13VA12-380V DC8W 6-380V

2W Series Diaphragm

2V,2P Series Coil
Coilaperture,Height:φ9x29.5
Applicable powerand Voltage:
AC6VA~8VA DC6~12W 6V~12V

2L(US)Series Piston

Valve Timer
DIN43650B Socket Type Coil
UseVoltage Range:24-240V
Protect Class:IP65

Assembly oflron Core

MINGYUAN BRAND ELECTROMAGNETIC VALVE

Adopt the standard JB/T7352-94 《Solenoid Valves for Industrial Process Control Systems》

Purpose of the solenoid valve:

Solenoid valve is a large category of actuator products, which can use the coil to generate electromagnetic force by energizing and exciting,driving the movement of the valve core to open or close the valve.It is mainly used for process Automatic control in process pipelines can also be used for program control and remote control to control and adjust changes in temperature, pressure, flow, and liquid level parameters.

Terms and definitions of solenoid valves

Nominal pressure: The design of the solenoid valve conforms to the national professional standards, and the working pressure of the valve with various indicators specified in the factory test and type test in JB/T7352-94 (the factory test indicators are 1.1 times the markenominal pressure, and the sealing test is 1.5 times the nominal pressure).

Working pressure : pressure difference: the pressure difference between the inlet and outlet of a valve that can reliably open and close the valve (i.e., the value of the pressure before the valve minus the pressure after the valve).

Direct acting solenoid valve: A valve that directly drives the valve core to open and close using the electromagnetic force generated byenergizing the coil

Pilot type solenoid valve: uses the electromagnetic force generated by coil energization to drive the pilot valve (primary opening), and generates a differential pressure between the upper and lower parts of the valve core through the pilot pressure to open and close the main valve (IISecondary open valve). Secondary open valve).

Step by step direct acting solenoid valve: The electromagnetic force drives the moving iron core to move from the empty stroke to the impact force or directly pull the valve core with a spring. At the same time, it also drives the differential pressure between the upper and lower parts of the pilot valve core, thereby making the main valve open valve. It is a combination of direct acting and pilot operated.

Normally Closed Solenoid Valve: A valve that closes when the coil is not energized, and opens only when the coil is energized.

Normally open electromagnetic valve: A valve that opens when the coil is not energized, and only closes when the coil is energized.

Explosion-proof electromagnetic valve: The product is designed and manufactured according to specified conditions, and its contact action spark will not cause the explosion of surrounding explosive mixture. The solenoid valve must pass the inspection by the national explosion-proof safety inspection station and hold an explosion-proof certificate. Explosion-proof types include flameproof type, increased safety type, intrinsic safety type, pouring sealed type, etc

Marine type: The product is suitable for marine environmental conditions such as vibration, shaking, salt mist, mold, etc. in marine environments.

Common sense of electromagnetic valve selection

Key points of model selection

The selection of solenoid valves should follow the four principles of safety, reliability, applicability, and economy in order, as well as the requirements of six on-site operating conditions (i.e., diameter size, medium type, pressure grade power supply voltage, action mode, special functions).

1.Usability

The fluid in the pipeline must be consistent with the medium specified in the selected solenoid valve model.

The temperature of the fluid must be less than the calibrated temperature of the electromagnetic field.

The allowable liquid viscosity of solenoid valves is generally below 20CST, and should be noted when ordering when it is greater than 20CST.Working pressure difference: When the maximum pressure difference of the pipeline is less than 0.03MPa, it should be selected, such as MYPS, 2W, ZCM, ZCT series and other direct acting or step-by-step direct acting solenoid valves, with a minimum of twhen the operating pressure difference is greater than 0.03mpa, pilot operated (differential pressure type) solenoid valves can be selected: Generally, solenoid valves operate in a one-way manner, so it is necessary to pay attention to whether there is a reverse pressure difference, and if there is a check valve installed.If the cleanliness of the fluid is not high, especially if particles and ribbon are mixed in, a filter should be installed in front of the valve.

Pay attention to the flow aperture and nozzle diameter. Generally, solenoid valves are only controlled in two positions: ON and OFF; If conditions permit, please install a bypass pipe for easy maintenance. When there is a water hammer phenomenon, it is necessary to customize the opening and closing time adjustment of the solenoid valve.

Note the impact of ambient temperature on the solenoid valve.

The power supply current and consumed power should be selected based on the output capacity. The power supply voltage is generally allowed to be ± 10% It must be noted that the VA value is high during AC starting.

2.Reliability

Solenoid valves are divided into two forms: normally closed and normally open. Generally, normally closed types are selected, with energized valves open and deenergized valves closed; However, when the opening time is very long and the closing time is very short, the normally open type should be selected.

The electromagnetic valve is automatically operated by receiving electrical signals. In some special situations, the system operation cannot be affected by power failure. There fore the electromagnetic valve with a manual device switch can be selected. The manual device can be powered off; for emergency use.

Life test is a type test project. According to the JB/T7352-94 standard, the working life of solenoid valves varies according to the size of the valve diameter and the working medium, ranging from 100000 to 1000000 times. Generally, the working life of solenoid valves is more than 200000 times.

When the action time is short and the frequency is high, the direct action type is generally selected, while the pilot type is selected for large caliber.

3.Safety

The rated voltage indicated on the solenoid valve label should be consistent with the applied voltage.

The working pressure marked on the label of the solenoid valve must be greater than the maximum pressure of the fluid in the pipeline, otherwise the service life of the valve may be shortened or other accidents may occur.

Generally, the solenoid valve coil is not waterproof. When conditions do not permit, please select a waterproof type (plastic sealed coil). If the solenoid valve is to be immersed in water for work, such as for a fountain, then it should be selected as a submersible type coil.

All stainless steel type should be selected for corrosive liquids, and plastic king and polytetrafluoroethylene diaphragm type solenoid valves should be selected for highly corrosive liquids, such as the ZCF series.

Explosion-proof solenoid valves must be selected for installation in explosive atmospheres.

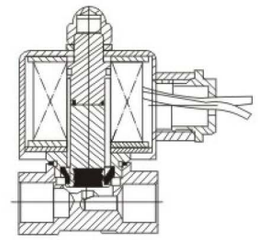
4. Economy

There are many solenoid valves that can be used universally, but on the basis of meeting the above three points, the most economical product should be selected.

(1) Direct acting solenoid valve

There are two types: normally closed type and normally open type. The normally closed type is in a closed state when powered off. When the coil is energized, electromagnetic force is generated, causing the moving iron core to overcome the spring force and directly open the valve together with the static iron core. The medium is in a path; When the coil is powered off, the electromagnetic force disappears, and the moving iron core is reset under the action of the spring force, directly closing the valve port, leaving the medium impassable. simple structure, reliable operation, and normal operation under zero differential pressure and micro vacuum. The normally open type is the opposite. For example, solenoid valves smaller than the flow path of towel 6.

Features: It can work normally under vacuum, negative pressure, and zero pressure, but the diameter generally does not exceed 25mm. (Figure 1 is a typical structure diagram)

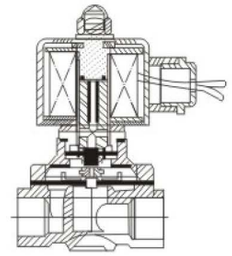


图示一

(2) Step-by-step direct acting solenoid valve

Principle: It is a combination of direct action and pilot type. When there is no pressure difference between the inlet and outlet, the electromagnetic force directly lifts the pilot small valve and the main valve closure upward after being energized, and the valve opens. When the starting pressure difference between the inlet and outlet is reached, after being energized, the electromagnetic force first opens the pilot small valve, causing the pressure in the lower chamber of the main valve to rise and the pressure in the upper chamber to drop, thereby using the pressure difference to push the main valve upward; When power is cut off, the pilot valve and the main valve use spring force or medium pressure to push the closing member downward, causing the valve to close.

Features: Reliable operation at zero differential pressure, vacuum, and high pressure, but with high power, horizontal installation such as QDF, MYPS, and 2W is required. (Figure 2 is a typical structure diagram)

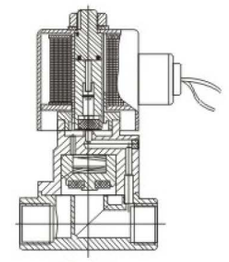


图示二

(3) Principle of pilot operated solenoid valve

When energized, the electromagnetic force opens the pilot hole, and the pressure in the upper chamber rapidly decreases, creating a high and low pressure difference around the closure. The fluid pressure pushes the closure upward, and the valve opens; When the power is cut off, the spring force closes the pilot hole, and the inlet pressure quickly enters the upper chamber through the bypass hole, creating a low to high pressure difference around the closure. Fluid pressure pushes the closure downward, and the principle of closing the valve is the opposite.

Features: The upper limit of the fluid pressure range is high, and can be installed arbitrarily (customized), but the fluid pressure differential condition must be met. Such as MYP, PS, ZCZ, etc. (Figure 3 is a typical structure diagram)



图示三

Overview of Common Seal Materials

(Used in dynamic situations in different locations, so the relevant data is for reference only)

1. NBR butadiene rubber

Mainly used for diaphragms, O-rings, and seals, suitable for most gases, water liquids, light oils, and the like. The medium temperature can be used from - 10℃ to+80℃.

2. EPDM

It is mainly used in places above the NBR temperature range, such as (hot water, low-pressure steam), and is also suitable for most gases and water liquids. The medium temperature can be used from - 20C to+140C. Note: EPDM is not suitable for oil.

3.PTFE

Can be applied to almost all liquids. However, due to its "cold flow" characteristics. As a dynamic seal, it is prone to leakage, especially under normal temperature gas.

4. VITON

Mainly used in places where NBR and EPDM cannot be used, more gases, water, engine oil, gasoline, solvents, etc. can be used. The medium temperature can be used from - 20℃ ~170℃.

Conversion of common pressure units

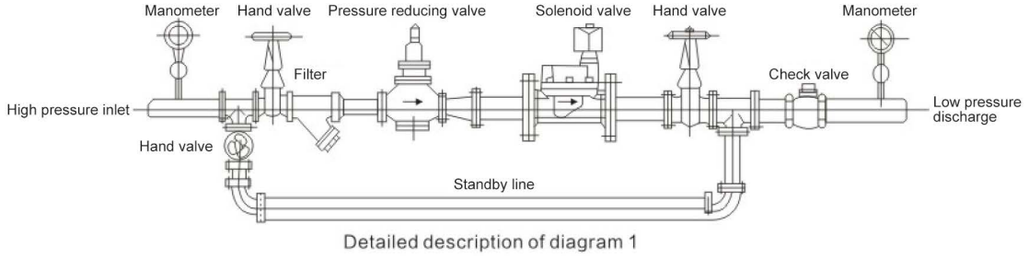
lkgf/cm2-1bar=O.MPa=14.2233psi lpsi=51.7torr=0.069bar

1.Before installation, carefully read the product's operating instructions, check whether the product fully meets the use requirements, be familiar with theinstallation points, and make preparations.
2. Check whether the parameters marked on the nameplate are the parameters of the selected product and comply with the operating instructions.
3.Before connecting pipes, fully flush the pipes with a pressure of 0.3 Mpa to completely remove metal powder, residual sealing materials, rust, from the pipe
4.Pay attention to the cleanliness of the medium. If impurities such as dust and dirt mixed in the medium hinder the normal operation of the solenoid valve, afilter should be installed in the pipeline.
5.The solenoid valve should not be installed in the low recesses of the pipeline, such as in the discharge pipe of the container. Note that it should not be led out from the bottom of the container, but should be installed slightly above the bottom of the container.
6.If the medium can cause water hammer, multi-functional electromagnetic valves should be selected or corresponding preventive measures should be taken.
7.The inlet side of the solenoid valve for steam should be equipped with a drain valve, where the connecting pipe should be inclined. The drain valve should be installed at a low position, preferably equipped with a multi way backwash filter.
8.Solenoid valve is generally oriented, can not be installed, usually in the valve body with the "arrow" pointed out the direction of media flow, installation should be in accordance with the "arrow" indicating the direction of installation.
9.General solenoid valve solenoid coil components should be upright, perpendicular to the pipe, some products have special provisions, please i nstall according to the instructions.
10.When taking over, be careful not to use excessive sealing material. Such as threaded connection, the nozzle thread should be kept in the effective length,and at the end of the half pitch with his knife chamfering, from the end of the teeth began winding sealing belt, otherwise excessive sealing belt or binder will enter the solenoid valve, and prevent the normal operation of the accident.
11.Solenoid valve installation place should have certain reserved space, in order to its daily maintenance and regular maintenance.
12.When installing, fix the valve body with a wrench or pipe wrench, and then screw on the nozzle. Do not force on the coil assembly to cause deformation, so that the solenoid valve is difficult to work normally.
13.In the case of insufficient pipeline rigidity or water percussion phenomenon, please firmly fix the front and back valves with supports.
14.When used in frozen areas, protect pipes with insulation or place heaters on pipes.
15.To confirm that the solenoid valve itself and its connection with the nozzle is leaking.
16.Check the connection of the coil leading wire, especially in the case of three leading wires.
17.Electrical components, such as relays, switches and contactors, connected to solenoid valves. The contact should not vibrate when opening the valve,otherwise the work will be unreliable and affect the life of the solenoid valve.
18.The electrical circuit should be connected to the corresponding safety line, as the protection of the electrical circuit.
19.In order to facilitate maintenance and repair operations, or continuous production without interruption, it is recommended to adopt the bypass isolation installation method for general solenoid valves.

Solenoid valve use and maintenance

1. It is suggested that the user assign a special person to be responsible for, use and maintenance.
2.the annual 1-2 regular maintenance is the solenoid valve reliable work and long life of the best method. Solenoid valve inside the following 4 situations, is to prevent the normal work of the solenoid valve and shorten the life of the reason.
   1.The quality of the medium used has changed.
   2.Nozzle rust.
   3.The oil oxidation of the air compressor produces carbon particles, tar and other sundries, which are mixed into the pipeline.
   4.There are dust particles, dirt and other debris in the channel
3.After the installation of the solenoid valve or a long time after the shutdown into operation, must be through the medium test action several times, working normally before it can be put into operation.
4.When the steam valve is put into operation again after being out of service for a long time, it should be operated again several times after the condensate is drained, and it can be put into operation after working normally.
5.Before maintenance, the power supply must be cut off and the medium pressure removed.
6.Coil assembly should not be disassembled.
7.When disassembling the solenoid valve for cleaning, kerosene, trichloroethylene and other solutions can be used. But should pay attention to the rubber parts may dissolve, so want to change it.
8.When disassembling and cleaning, the parts should be placed in order one by one, and then restored to the original state in order after cleaning.
9.Our company has a supply of wear and tear parts, please follow the instructions when ordering if necessary.
10.Disassembly sequence, wearing parts and other matters have no understanding, please contact our company or local offices.

Failure	Cause analysis	Treatment method
Power-on no action	The power cable is improperly connected	Press the power cable
	Power supply voltage variation is not allowed	Keep the adjustment voltage within the normal range
	The coil is disconnected or short-circuited	Repair welding or replace coil
	Improper medium pressure or working pressure difference	Adjust the pressure or working pressure difference or replace the suitable product
	Medium viscosity, temperature inconsistency	Replace the appropriate product
The medium cannot circulate during valve opening time	Dirt and impurities are mixed around the valve core and moving iron core	To clean the inside, the filter valve must be installed before the valve
	Valve filter or pilot hole is blocked	Timely cleaning
	When used, the working frequency is too high or the life is expired	Change the product model or change the new product
Leakage	Loose joint	Tighten the bolt or nozzle thread
	The sealing part of the connection is damaged	Replacement seal
	The medium temperature does not match	Adjust medium temperature or replace suitable product
	Guide seat and main seat have impurities or defects	Cleaning or grinding repair or replacement
Severe internal leakage	Pilot valve and main valve gaskets out or deformed	Replacement gasket
	Springs are poorly assembled, deformed or out of life	Spring replacement
	The working frequency is too high in use	Change the product model or change to a new product
	The viscosity and temperature of the medium are not consistent	Replace the right product
	Spool worn or seal ring severely worn	Replace
The medium cannot be cut off when the valve is closed	Dirt and impurities are mixed around the valve core and moving iron core	Timely cleaning, fill the backwash filter
	Defective seat or adhesion dirt	Clean, grind or replace
	Gasket out, defective or deformed	Replace, reassemble
	The balance hole or throttle hole is blocked	Timely cleaning
	The service frequency is too high or the service life is expired	Change the product model or change the new product
	Fastener loose	Tighten
Excessive noise when powered on	Voltage fluctuation, out of the allowable range	Adjust to normal range
	Medium pressure or working pressure difference is not suitable	Adjust the pressure, working pressure difference or replace the product
	The viscosity of the medium does not match	Replace the appropriate product
	There are impurities on armature absorbing surface	Timely cleaning



Detailed description of diagram 1