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XINSHENG SOLENOID VALVE

Professional solenoid valve manufacturer
To build the international first-class brand

YUYAO XINSHENG SOLENOID VALVE FACTORY

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The company will follows the principles of continuous improvement
OEM and ODM orders are welcome

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PROFESSIONAL SOLENOID VALVE MANUFACTURER

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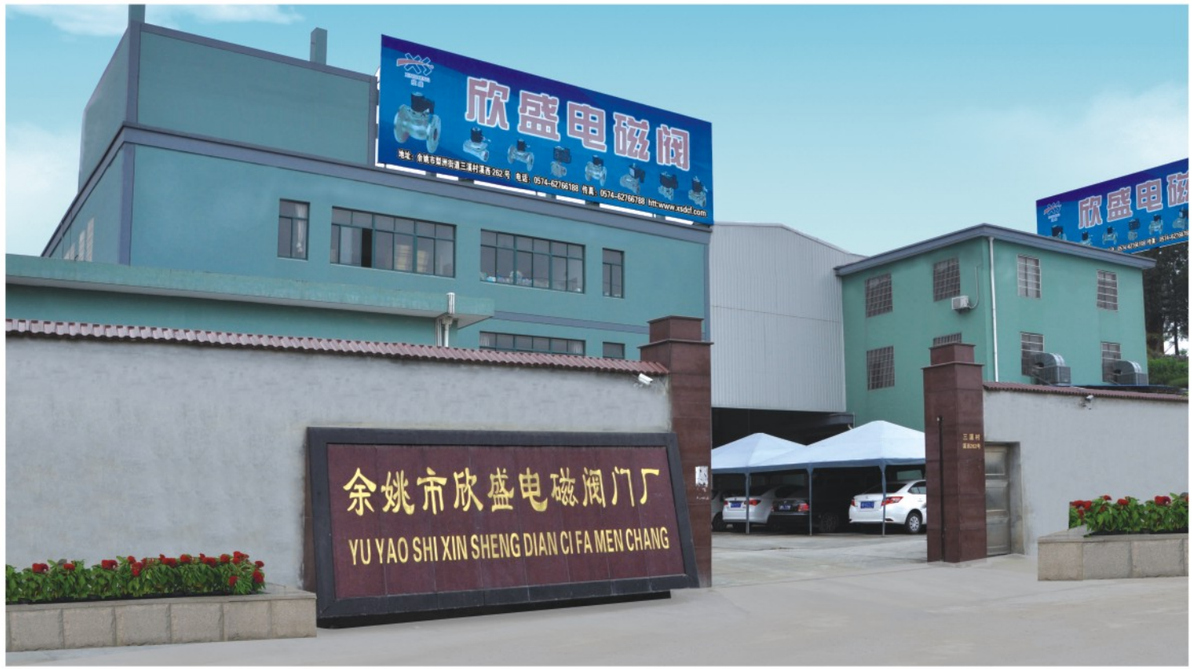

Yuyao Xinsheng Solenoid Valve factory is a specialized manufacturer combined with research, development and production of solenoid valve . It has advanced management mechanism and the excellent mechanical processing design and perfect production testing equipment. "Xinsheng" solenoid valve has significant advantages such as reliable performance ,easy control and energy–saving, it is widely used in machinery, chemical industry, light industry, environmental protection, food and other industries, as well as the central air conditioning and wastewater treatment engineering.

Our factory produces all kinds of working medium solenoid valve with diameter Φ1–Φ300 and pressure range 0–18 mpa. Main products: Water liquid gas electric solenoid valve, steam solenoid valve, diaphragm solenoid valve, piston type solenoid valve, freon solenoid valve, gas solenoid valve, stainless steel acid and alkaline solenoid valve, air solenoid valve, fountain solenoid valve and etc,more than 100 kinds of specifications.

We will assure you high quality with good management and service , reward our customers with good credit, continuous innovation, develop high quality products and better meet the needs of the customers.The company passed the ISO9001:2000 quality management system certification in 2005 .

Warning

Xinsheng aims to provide high quality products , so it will constantly improve existing products to make it more reliable and has higher performance ,as well as longer life. To choose the correct models, please firstly fill the user selection sheet . Then our sales engineers can provide you with the right choice. So the catalogue content and technological parameter adjustment will not be notified and all subject to our current products testing technology parameter. We reserve all the right for the final explanation to the content of this catalogue.

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DEPENDS ON THE QUALITY
THE FIRST BRAND TO INDUSTRY
And Credibility

CONTENTS

Common sense in the selection of solenoid valve

- **Applicability**
  - The liquid in pipe should be as same as the specified medium of the selected solenoid valve.
  - The temperature of the fluid must be lower than the calibrated temperature of the solenoid valve
  - Solenoid valve normally allows the liquid viscosity below 20CST, over 20CST should be specified.
  - Working pressure difference ,when the maximum pressure difference of the pipeline is less than 0.4Mpa ,we should select such as 2W, ZQDF, ZCM series, such as direct acting solenoid valve and step by step direct acting (pressure differential type) solenoid valve.
  - The solenoid valve requests high cleanliness for the medium ,so when fluid cleanliness is not high enough then a filter should be installed before the solenoid valve.
  - Pay attention to the flow aperture and pipe diameter; solenoid valve normally only has two step controller; If the condition permits, please install the bypass pipe for easy maintenance; When water hammer phenomenon happened, the time adjustment for opening and closing to the solenoid valve should be customized.
  - Pay attention to the influence of environmental temperature on the solenoid valve
  - Power supply current and power consumption should be selected according to the output capacity, the power supply voltage is generally allowed about ±10%,please be noted that the VA value is a bit high when AC starts.
- **Reliability**
  - Solenoid valve is divided into normally closed type and normally open type ; Usually normally closed type will be used firstly, it opens when power on and close when power off; But when it need to open for a long time and close for very short time ,normally open type should be selected.
  - For life testing of factory generaly belong to type test project.According to JB/T7352-2010 standards, the life of solenoid valve can reach up to 100000-1000000 times, and it varies as per its diameter, size and working medium. Normally the varies life is above 200000 times.
  - Direct acting solenoid valve is normally selected when the acting time is short but the frequency is very high, and the fast series solenoid valve is suitable for large diameter .
- **Safety**
  - Normally the solenoid valve is not waterproof. When the conditions are not allowed, please choose waterproof type, the factory can customize it.
  - The highest nominal pressure of solenoid valve must be higher than the maximum pressure within the pipe, otherwise the life will be shortened or other unexpected situations will occur.
  - The corrosive liquid should use stainless steel solenoid valve, strong corrosive fluid should select the plastic King (XSFP) solenoid valve
  - Explosive environment must use the appropriate explosion-proof products.
- **Economy**
  - There are a lot of solenoid valve can pass above requirements, but on the basis of satisfying the above three points , we should choose most economical type.

The structure and principle of solenoid valve

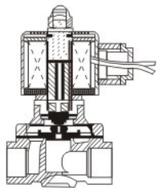
Direct acting solenoid valve

There are two types,normally closed type and normally open type . Normally closed type is in a closed state when power off, the coil generates electromagnetic force when it is energized , then the moving iron core overcome the spring force and is directly pulled to the static iron core to open the valve, and the medium will be a pathway; when the power is off ,the electromagnetic force of coil disappears, then the moving core will reset under the action of spring force and valve port is directly closed, so the medium is blocked. Its structure is simple and the action is reliable,it can work under the zero pressure and micro vacuum. Normal open type is just the opposite. Such as solenoid valve with flow diameter under Φ6 (Figure 1 is a typical structure figure)

Power on and open

Step by step direct acting solenoid valve.

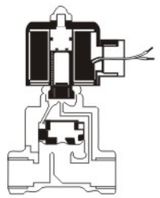
The valve connects the primary opening valve and the second opening valve , the main valve and pilot valve step by step use the electromagnetic force and pressure to directly open the main valve port.When the coil is energized, it generates electromagnetic force to pull the dynamic iron core to static iron core , then the pilot valve which is on top of the main valve opens while the dynamic iron core is connected with the static iron core. At this time, the upper plenum pressure of the main valve unloads through the pilot valve port, then the main valve core move upward under the pressure difference and the effect of electromagnetic force and finally open the main valve while the medium flows.When the coil is power off while the electromagnetic force disappears, then the dynamic iron core will close the pilot valve under the effect of self weight and spring force. At the same time the medium flows into the upper plenum of the main valve from the balance hole and the pressure inside of upper plenum rises up which makes the main valve closed also under the force of spring-restoration. Then the medium flow is cut off. This type of solenoid valve can work reliably under zero pressure differential situation with reasonable structure and reliable action.



Power off and closed

Indirect pilot type solenoid valve

This series solenoid valve is combined by pilot valve and main valve which connect together and form a passageway. Normally closed type is closed when power off. When the coil is energized, the generated electromagnetic force makes the dynamic iron core move to the static iron core ,then the pilot valve port opens and medium flows to the outlet, then the upper chamber pressure of the main valve decreased to lower than the inlet side pressure and the formed pressure differential overcome the spring resistance and subsequently moves upward and makes the main valve port open and medium flows.When the coil is power off,the electromagnetic force disappears and dynamic iron core close the pilot port under the force of spring-restoration, then the medium flows in from the balance hole which makes the upper chamber pressure increase and the main valve core move downwards under the force of spring-restoration to close up the main valve port. The principle of normally open type is just the opposite. Such as XSP,DF(Diameter above Φ15),ZCZ and so on. (Figure 3 is a typical structure figure)



Power on and open

Valve Body, Sealing Material and Medium Type Selection Table

☑ Appilcable ☒ Not applicable ☐ Data deficient

Material / Medium	Brass	Cast iron	Stainless steel	Plastic	NBR	EPDM	VITON	PTFE
Air	√	√	√	√	√	√	√	√
Natural gas	√	√	√		√	√	√	√
Oxygen	√	√	√	√	√	√	√	√
Hydrogen	√		√		√		√	√
City gas	√		√				√	√
Industrial gas	√		√		√			√
Nitrogen	√		√				√	√
Turpentole	√	√	√				√	√
Water	√	√	√	√	√	√	√	√
Steam	√	√	√		×	√	√	√
Drinking water	√	√	√	√		√		√
Sea water	√		√	√	√	√	√	√
Industrial wastewater			√				√	√
Gasoline	√	√	√			×	√	√
Coal oil	√	√	√	√	√	×	√	√
Diesel oil	√	×	√	√	√	×	√	√
Milk	√	√	√	√	√	√	√	√
Wine	√	√	√	√	√	√	√	√
Alcohol	√	√	√		√	×		√
Ethyne	√	√	√		√	×	√	√
Alcohol	√	√	√		√	×	√	√
Acetone	√	√	√		√	×	×	√
Ammonia					×			√
Methyl benzene	√	√	√			×	√	√
Dimethyl benzene	√	√	√			×	√	√
Propane	√	√	√			×	√	√
Methane	√	√	√		√	×	√	√
Sulfur dioxide	√	√	√				√	√
Sodium hydroxide<20%		√	√		√	×		√
Nitric acid<10%			√				√	√
Nitric acid<20%							√	√
Hydrochloric acid<10%					√			√
Acetic acid	√	√	√		√	×	√	√

Flow calculation method

Liquid (capacity)

$$Q=14.28Cv\frac{\sqrt{P1-P2}}{\sqrt{G}}$$

Remark: The effect of viscosity is not considered, when < 20 CST ($20mm^2/s$)

Gas (Capacity)

$$Q=198.3Cv\,P_1\frac{1}{\sqrt{G}}\quad(P_2\leqslant\frac{P_1}{1.89})$$

$$Q=396.6Cv\,P_1\sqrt{\triangle P\ P_2}\ \frac{1}{\sqrt{G}}\quad(P_2>\frac{P_1}{1.89})$$

Remark: standard atmospheric state:760mmHg.15.6℃

Explanation: Q :Liter / minute

P_1: inlet pressure kgf/cm^2
P_2: Outlet pressure kgf/cm^2
$\triangle P$: P_1-P_2
G: proportion (water=1,air=1)
CV: flow coefficient $Cv\approx1.16\times Kv$ $kv\approx0.853\times Cv$

Commonly used pressure unit conversion

$1kgf/cm^2=1bar=0.1MPa=100KPa=14.5PSI$

Review of commonly used seal materials

(Used at different occasion under the dynamic situation,so the relevant data is only for reference)

1.NBR

Mainly used for diaphragm, O ring and seal element,it is suitable for most of the gas,liquid,oil etc, and the medium temperature should be between –18℃ and 80℃

2.EPDN

Mainly used in situation of temperature above the NBR. (Such as hot water, low pressure steam) also suitable for most of the gas,liquid,and the medium temperature should be between –20℃ and 139℃.

3.VITON

Mainly used for the occasion where NBR and EPDM can not be used.it is suitable for much more gas,liquid, machine oil and gasoline, solvent etc.The medium temperature should be between –20℃ and 169℃.

4.PTFE

Almost used for all kinds of fluid.But due to it has feature of "cold flow", as a dynamic sealing element,it is easy to leak under air.

2W (UW) brass series water(hot water) gas solenoid valve


2W025-08


2W160-15


2W250-25

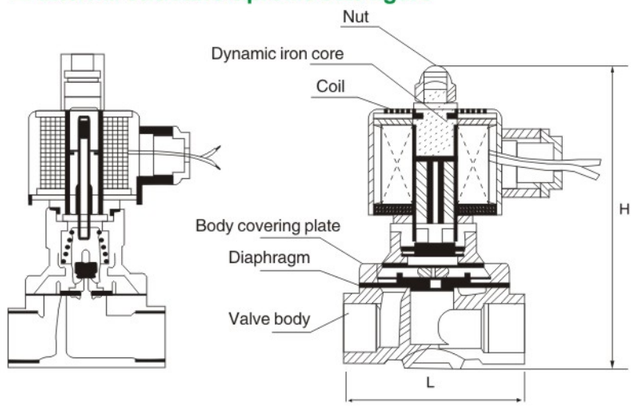

2W500-50

Ordering code

2W— 160 - 15 — AC220V

Two flat port	Port diameter	Connecting pipe	Standard voltage
			AC: 110V
			AC: 220V
			DC: 24V
Direct acting	Aperture	Diameter	Other voltage can be customized

Internal structure &profile size figure



Product features

- Suitable medium:liquid,water,hot water,gas,mashgas,oil etc(≤20CST)
- Medium temp.: -5℃- 80℃
- Action type: direct acting type, step by step direct acting type
- Working pressure: normally closed: 0 ~10 bar
  normally open: 0 ~8 bar
- Valve body material: brass(forged) ,cast iron
- Diaphragm sealing: material: NBR
- Coil Protection level: Plastic coil IP65,iron clad coil IP54

Remark

- If used on food machine and drinking water,the sealing material can be made by PYMQ,please specify when ordering.
- If the medium temperature is over 80℃， should choose EPDN(139℃) or VITON diaphragm(169℃).
- Ordering code K means normally open, S means SUS304 material of valve body,F means flanged connect.
- If your need Flanged connect, please specify when ordering, brass flange and cast iron flange are optional.

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2W (UW) brass series water(hot water) gas solenoid valve

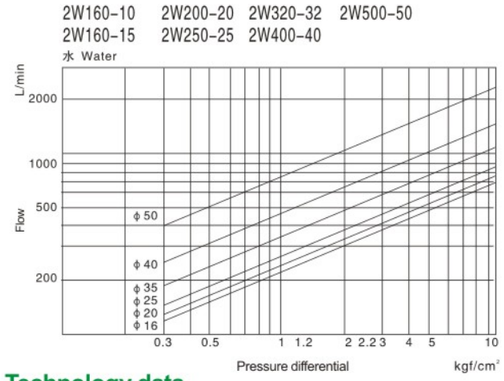

2W200-20K

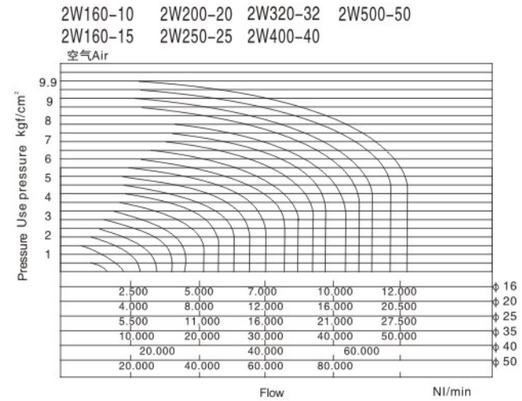

2W400-40K


2W400-40F


2W500-50F

Flow chart





Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
2W025-08A	G1/4''	2.5	0.23	40	75	-5~80℃	Normally closed: 0~10 bar Normally open: 0~8 bar	220VAC/50HZ 110VAC/50HZ 20VA~40VA DC24 DC12 18W~30W Tolerance: ± 10% Other voltage can becustomized
2W025-08	G1/4''	2.5	0.23	40	75			
2W040-10	G3/8''	4	0.6	47	85			
2W160-10	G3/8''	16	4.8	64	105			
2W160-15	G1/2''	16	4.8	58/64/68	100/105110			
2W200-20	G3/4''	20	7.6	65/72	110/115			
2W250-25	G1''	25	12	85/92	125/125			
2W320-32	G1¼''	32	24	96/110	135/160			
2W400-40	G1½''	40	29	110/112	160/165			
2W500-50	G2''	50	48	118/155	170/180			
2W400-40F	4-ϕ17.5 aperture ϕ110	40	29	150	215			
2W500-50F	4-ϕ17.5 aperture ϕ125	50	48	185	230			

2W(UW) Stainless steel series water(hot water) gas solenoid valve

2W025-08S

2W160-10S

2W250-25S

2W320-32SK

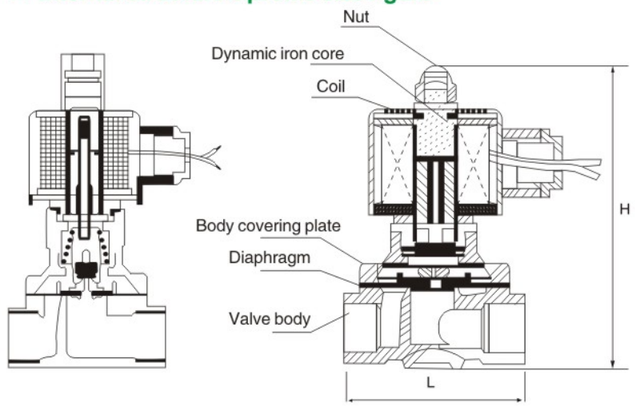
Ordering code

2W— 160 - 15 - S - AC220V

Two flat port	Port diameter	Connecting pipe	Material	Standard voltage
Direct acting	Aperture	Diameter	304	Other voltage can be customized

AC: 110V
AC: 220V
DC: 24V

Internal structure &profile size figure



Product features

- Suitable medium:liquid,water,hot water,gas,mashgas,oil etc(≤20CST)
- Medium temp.: -5℃- 80℃
- Action type: direct acting type, step by step direct acting type
- Working pressure: normally closed: 0 -10 bar
  normally open: 0 -8 bar
- Valve body material: SUS304
- Diaphragm sealing: material: NBR
- Coil Protection level: Plastic coil IP65,iron clad coil IP54

Remark

- If used on food machine and drinking water,the sealing material can be made by PYMQ,please specify when ordering.
- If the medium temperature is over 80℃， should choose EPDN(139℃) or VITON diaphragm(169℃) .
- Ordering code K means normally open, S means SUS304 material of valve body,F means flanged connect.

2W(UW) Stainless steel series water(hot water) gas solenoid valve

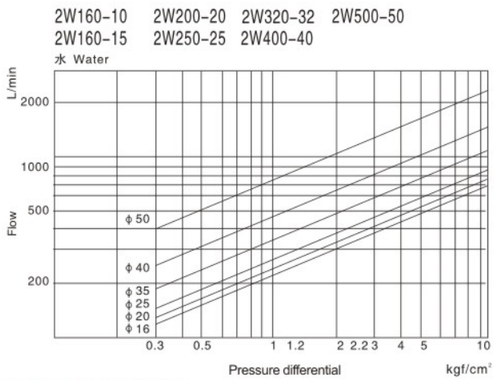
2W500-50S

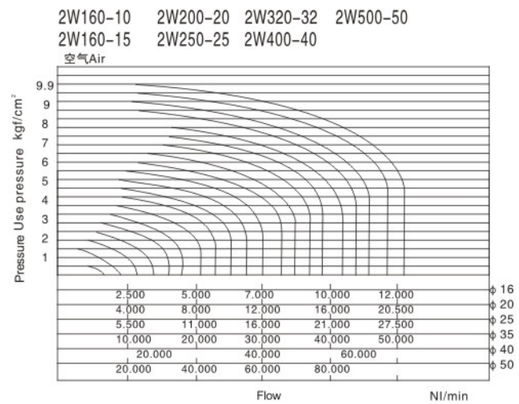
2W160-15FS

2W250-25FS

2W500-50FSK

Flow chart





Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
2W025-08S	G1/4''	2.5	0.23	40	75	-5~80℃	Normally closed: 0~10 bar Normally open: 0~8 bar	220VAC/50HZ 110VAC/50HZ 20VA~40VA DC24 DC12 18W~30W Tolerance: ± 10% Other voltage can becustomized
2W040-10S	G3/8''	4	0.6	42	90			
2W160-10S	G3/8''	16	4.8	68	110			
2W160-15S	G1/2''	16	4.8	68	110			
2W200-20S	G3/4''	20	7.6	72	115			
2W250-25S	G1''	25	12	98	125			
2W320-32S	G1¼''	32	24	96/115	135/160			
2W400-40S	G1½''	40	29	120	165			
2W500-50S	G2''	50	48	120/168	175/185			
2W160-15FS	4-ϕ13.5aperture ϕ65	16	4.8	105	145			
2W200-20FS	4-ϕ13.5 aperture ϕ75	20	7.6	107	150			
2W250-25FS	4-ϕ13.5 aperture ϕ85	25	12	140	155			
2W320-32FS	4-ϕ17.5 aperture ϕ100	32	24	150	200			
2W400-40FS	4-ϕ17.5 aperture ϕ110	40	29	158	210			
2W500-50FS	4-ϕ17.5 aperture ϕ125	50	48	185	235			

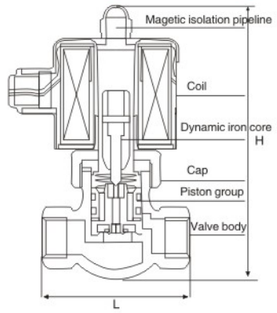
2L (US) series steam solenoid valve


2L–15S


2L–50


2L–25F

Internal structure &profile size figure



Product features

- Suitable medium: steam, gas ,water
- Medium temp.: –5℃– 200℃(Imported material 300℃)
- Action type: Pilot operated type
- Working pressure: 0.5 –16 bar
- Valve body material: Brass(casted). Stainless steel(precision casting)
- Piston type sealing, material: Teflon
- Coil Protection level: Iron clad coil IP54

Remark

- Other voltage please contact the factory
  If you need stainless steel material,please specify when
- ordering and add ” S” at the end of the model name.
- For example: 2L–170–20–S

Applications

- 2/2way normally closed solenoid valve. Close when power is off and Open when power is on.
- Using the top structure, high automatic sealing compensation makes its life longer.
- Products are produced in series with small volume , big flow and wide range of application.The valve should installed in level and the coil shoud be upwards to make the function of open–close reliable.
- Sealing element is made by teflon, it is suitable for different liquids.

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
2L–15	G1/2''	17	4.8	80	145	–5~200℃	0.5~16 bar	220VAC/50HZ 110VAC/50HZ 50VA DC24 DC12 30W Tolerance: ± 10% Other voltage can becustomized
2L–20	G3/4''	17	4.8	80	145			
2L–25	G1''	20	12	86	155			
2L–32	G1¼''	30	22	110	170			
2L–40	G1½''	30	22	110	170			
2L–50	G2''	40	30	120	195			
2L–15S	G1/2''	17	4.8	80	145			
2L–20S	G3/4''	17	4.8	80	145			
2L–25S	G1''	20	12	90	155			
2L–32S	G1¼''	30	22	110	170			
2L–40S	G1½''	30	22	110	170			
2L–50S	G2''	40	30	118	195			
2L–20F	4–φ13.5 aperture φ75	20	12	110	190			
2L–25F	4–φ13.5 aperture φ85	20	12	110	190			
2L–32F	4–φ17.5 aperture φ100	30	22	130	205			
2L–40F	4–φ17.5 aperture φ110	30	22	130	210			
2L–50F	4–φ17.5 aperture φ125	40	30	140	225			

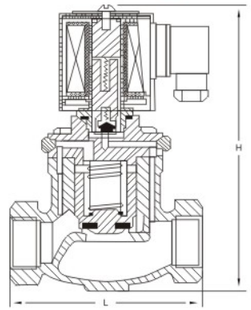
ZCZ Series steam solenoid valve


ZCZ-20


ZCZ-50F


ZCZ-50FS

Internal structure &profile size figure



Product features

- Suitable medium: steam,gas, water, oil(≤20CST)
- Medium temp.: –5℃– 200℃(Imported material 300℃)
- Action type: pilot operated type
- Working pressure:Normally closed : 0.4 ~ 16 bar
  Normally open: 0.4 ~ 8 bar
- Valve body material: Brass(casted). Cast iron
- Piston type sealing, material: Teflon
- Coil Protection level: Iron clad coil IP54

Structure features

- Electromagnetic pilot operated two times open valve structure,with flexible action.
- There is a good heat insulation and buffer component between the pilot valve and the main valve.
- Using temperature resistance, corrosion resistance and high quality magnetic materials, piston type and molded PTFE valve port sealing, high performance,Long life.
- Type: normally closed or normally open.

Applications

- Applicable to two position type automatic and remote on–off switch and automatic temperature control for the steam pipeline of complete equipment .Such as heater with steam as the heating medium, radiator, dryer and textile setting machine, steam and dyeing machine, vegetable drying machine.

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Valve body material	Working pressure (pressure differential)	Rated voltage
ZCZ–15	G1/2''	15	3.1	80	145	Brass	Normally closed: 0.4~16 bar Normally open: 0.4~8 bar	220VAC/50HZ 110VAC/50HZ 22VA~70VA DC24 DC12 16W~50W Tolerance: ± 10% Other voltage can becustomized
ZCZ–20	G3/4''	20	5	80	145			
ZCZ–25	G1''	25	9.5	88	155			
ZCZ–32	G1¼''	32	12	110	175			
ZCZ–40	G1½''	40	21	110	175			
ZCZ–50	G2''	50	30	118	190			
ZCZ–20F	4–φ13.5 aperture φ75	25	9.5	124	190			
ZCZ–25F	4–φ13.5 aperture φ85	25	9.5	124	190			
ZCZ–32F	4–φ17.5 aperture φ100	32	12	138	210			
ZCZ–40F	4–φ17.5 aperture φ110	40	21	138	210			
ZCZ–50F	4–φ17.5 aperture φ125	50	30	152	225			
ZCZ–65F	4–φ17.5 aperture φ145	65	45	245	375	Cast iron		
ZCZ–80F	4–φ17.5 aperture φ160	80	70	288	390			
ZCZ–100F	8–φ17.5 aperture φ180	100	100	320	420			
ZCZ–25FS	4–φ13.5 aperture φ85	25	9.5	124	190	SS 304		
ZCZ–40FS	4–φ17 aperture φ110	40	21	135	210			
ZCZ–50FS	4–φ17 aperture φ125	50	30	152	225			

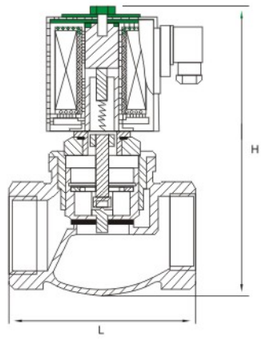
ZQDF series steam solenoid valve

ZQDF-15S

ZQDF-25

ZQDF-25FS

Internal structure &profile size figure



Product features

- Suitable medium: steam,liquid,gas,oil (≤20CST)
- Medium temp.: -5℃- 200℃(Imported material 300℃)
- Working pressure: 0 ~10 bar
- Valve body material: brass(forged),stainless steel (precision casting)
- Piston type sealing, material: Teflon
- Coil Protection level: iron clad coil IP54

Structure features

- Step by step direct acting structure combined by direct acting valve and pilot operated valve.
- The main valve can open without pressure and big flow under low pressure differential, Wide range of application.
- Using Teflon sealing,high performance in temperature resistance.
- Type: Normally closed

Applications

- Universal solenoid valve,applicable to automatic control for pipeline of various medium,especially applicable to zero pressure differential or low pressure system,such as high artesian water tank, fan, water siphon vacuum system etc.

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
ZQDF-15	G1/2''	17	4.8	80	145	-5~200℃	0~10 bar	220VAC/50HZ 110VAC/50HZ 30VA~70VA DC24 DC12 30W~50W Tolerance: ± 10% Other voltage can becustomized
ZQDF-20	G3/4''	17	4.8	80	145			
ZQDF-25	G1''	22	10	86	155			
ZQDF-32	G1¼''	30	14	110	170			
ZQDF-40	G1½''	30	14	110	170			
ZQDF-50	G2''	40	30	120	195			
ZQDF-15S	G1/2''	17	4.8	80	145			
ZQDF-20S	G3/4''	17	4.8	80	145			
ZQDF-25S	G1''	22	10	90	155			
ZQDF-32S	G1¼''	30	14	110	170			
ZQDF-40S	G1½''	30	14	110	170			
ZQDF-50S	G2''	40	30	118	195			
ZQDF-20F	4-φ13.5 aperture φ75	17	4.8	124	215			
ZQDF-25F	4-φ13.5 aperture φ85	22	10	124	220			
ZQDF-32F	4-φ17.5 aperture φ100	30	14	138	245			
ZQDF-40F	4-φ17.5 aperture φ110	30	14	138	245			
ZQDF-50F	4-φ17.5 aperture φ125	40	30	152	255			
ZQDF-25FS	4-φ13.5 aperture φ85	25	12	124	220			
ZQDF-40FS	4-φ17.5 aperture φ110	40	22	135	245			
ZQDF-50FS	4-φ17.5 aperture φ125	50	30	152	255			

ZCT (ZCQ) series stainless steel solenoid valve

ZCT-6

ZCT-15

ZCT-20

ZCT-25

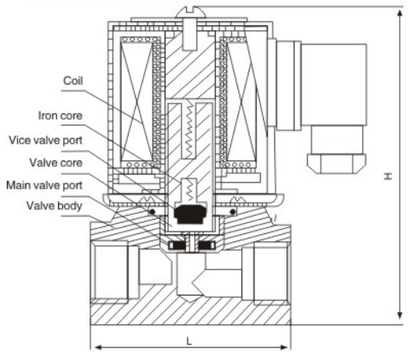
ZCT-15K

ZCT-25K

Product features

- Suitable medium: steam ,water, oil, weak acid and alkaline liquid etc.
- Medium temp.: -5℃- 150℃
- Action type: step by step direct acting type, direct acting type
- Working pressure: normally closed: 0 ~ 10 bar
  normally open: 0 ~8 bar
- Valve body material: stainless steel
- Sealing material: Viton
- Coil protection level: Plastic coil Ip65, Iron clad coil IP54

Internal structure &profile size figure



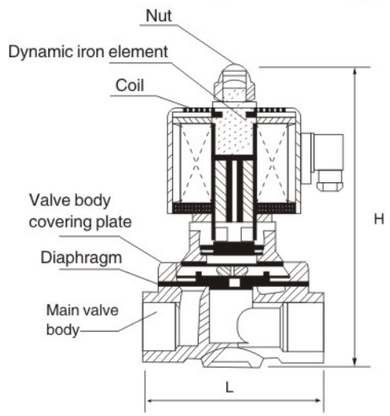
Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
ZCT-6	G1/4'' ,1/2''	4.5	0.6	50	85	-5~150℃	Normally closed: 0~10 bar Normally open: 0~8 bar	220VAC/50HZ 110VAC/50HZ 22VA DC24 DC12 16W Tolerance: ± 10% Other voltage can becustomized
ZCT-10	G3/8'',1/2''	10	1.5	68	100			
ZCT-15	G1/2''	10	1.5	68	100			
ZCT-20	G3/4''	15	3.5	78	110			
ZCT-25	G1''	15	3.5	78	110			
ZCT-10K	G3/8'',1/2''	10	1.5	68	120			
ZCT-15K	G1/2''	10	1.5	68	120			
ZCT-20K	G3/4''	15	3.5	78	125			
ZCT-25K	G1''	15	3.5	78	125			

ZCM series direct acting gas valve

ZCM-04-S ZCM-15 ZCM–32 ZCM-80FS

Internal structure &profile size figure



Product features

- Suitable medium: gas, methane,mashgas,natural gas. normal temperature liquid.
- Medium temp.: –5℃– 80℃
- Type: normally closed and normally open.
- Valve body material: brass(forged),stainless steel (precision casting),cast iron
- Diaphragm sealing: material: Viton, NBR
- Coil Protection level: Plastic coil IP65

Applications

- Applicable to automatic or remote temperature control and two position on–off switch control for the pipeline with gas
- as its burning medium.

Structure features

- Direct acting valve–open type, no limits for pressure differential,it can open under low pressure and zero pressure differential, low loss in pressure and big flow under low pressure.
- Using high quality valve body sealing material, no leakage , it is an ideal actuator for combustible liquid and gas.
- Type:normally closed or normally open

Special Supply

- Used in explosive places, choose a explosion–proof head, Explosion–proof mark: Exml/IIT4
- Anti–explosion certification: GYB033616x
- Standard:GB3836.1–2000 GB3836.9–1990

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Valve body material	Working pressure (pressure differential)	Rated voltage
ZCM–15	G1/2''	16	4	64/68	105/110	Brass	0~4 bar	220VAC/50HZ 110VAC/50HZ 26VA~40VA DC24 DC12 18W~50W Tolerance: ± 10% Other voltage can becustomized
ZCM–20	G3/4''	20	7	65/72	110/115			
ZCM–25	G1''	25	11	85/92	125/125			
ZCM–32	G1¼''	32	16	96/110	135/160			
ZCM–40	G1½''	40	25	110/112	160/165			
ZCM–50	G2''	50	35	118/155	175/190			
ZCM–40F	4–φ17.5 aperture φ110	40	25	150	215			
ZCM–50F	4–φ17.5 aperture φ125	50	35	185	220			
ZCM–65F	4–φ17.5 aperture φ145	65	55	256	300	Cast iron		
ZCM–80F	4–φ17.5 aperture φ160	80	80	285	310			
ZCM–100F	8–φ17.5 aperture φ180	100	120	350	345			
ZCM–65FS	4–φ17.5 aperture φ145	65	55	250	300	SS 304		
ZCM–80FS	4–φ17.5 aperture φ160	80	80	275	330			
ZCM–100FS	8–φ17.5 aperture φ180	100	120	340	370			

XSFP strong acid alkaline diaphragm anti-corrosion solenoid valve

Internal structure &profile size figure

XSFP-15 XSFP–20 XSFP–15K

Product features

- Suitable medium: strong acid,strong alkaline etc corrosive liquid
- Medium temp.: 0℃– 80℃
- Action type: direct acting type
- Working pressure:0 ~2 bar
- Valve body material: Teflon
- Diaphragm sealing material: Viton
- Coil Protection level: Plastic coil IP65

Applications

- Valve body is made by Teflon (Plastic king), diaphragm is made by Viton, it has strong anti–corrosive ability.
- Using bottom outlet and upper inlet structure of full isolation diaphragm, make the medium isolate from other parts.
- Applicable to chemical corrosion and electrochemical corrosion of acid and alkali solution and the pipeline with toxic gas as the working medium. Such as :PCB equipment etc.

Technology data

Model	Connecting Method	Diameter	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSFP–10	G3/8''	5	50	105	0~80℃	Normally closed: 0~2 bar Normally open: 0~1 bar	220VAC/50HZ 110VAC/50HZ DC24 DC12 30W~50W Tolerance: ± 10% Other voltage can becustomized
XSFP–15	G1/2''	5	50	105			
XSFP–20	G3/4''	5	64	110			
XSFP–25	G1''	5	72	125			
XSFP–15(Big)	G1/2''	13	78	145			
XSFP–20(Big)	G3/4''	13	78	145			
XSFP–25(Big)	G1''	13	85	165			
XSFP–15K	G1/2''	5	50	135			
XSFP–20K	G3/4''	5	64	140			
XSFP–25K	G1''	5	72	150			

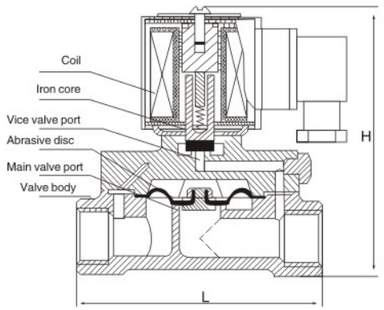
DF (ZCS) series liquid solenoid valve

DF-15K

DF–50

DF-100FS

Internal structure &profile size figure



Product features

- Suitable medium:liquid,gas,oil (≤ 20CST)
- Medium temp.: –5℃– 80℃
- Action type: pilot operated type
- Working pressure: normally closed: 0.5 ~16 bar
  normally open: 0.5 ~10 bar
- Valve body material: brass(forged),cast iron
- Diaphragm sealing: material: NBR
- Coil Protection level: Plastic coil IP65, iron clad coil IP54

Applications

- Applicable to building control,HVAC,water factory,electricity factory, water conservancy project,environmental protection water treatment, solar equipment,petrochemical industry etc.

Structure features

- Pilot operated diaphragm structure with good sealing
- Low requirement for medium clearness, high generality,need to work under certain pressure differential.
- If the medium contains impurity, a filter should be installed before the valve.(strainer ≥ 80mesh/cm^2)

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Valve body material	Working pressure (pressure differential)	Rated voltage
DF–15	G1/2''	15	4	85	115	Brass	Normally closed: 0.5~16 bar Normally open: 0.5~10 bar	220VAC/50HZ 110VAC/50HZ 22VA~70VA DC24 DC12 16W~50W Tolerance: ± 10% Other voltage can becustomized
DF–20	G3/4''	20	7	90	120			
DF–25	G1''	25	11	110	130			
DF–32	G1¼''	40	20	140	145			
DF–40	G1½''	40	24	140	145			
DF–50	G2''	50	40	177	165			
DF–40F	4–φ17.5 aperture φ110	40	24	165	205	Cast iron		
DF–50F	4–φ17.5 aperture φ125	50	35	200	225			
DF–65F	4–φ17.5 aperture φ145	65	50	256	270			
DF–80F	4–φ17.5 aperture φ160	80	80	275	290			
DF–100F	8–φ17.5 aperture φ180	100	125	350	305			
DF–125F	8–φ17.5 aperture φ210	125	220	400	400			
DF–150F	8–φ22 aperture φ240	150	280	450	440			
DF–65FS	4–φ17.5 aperture φ145	65	50	250	260	SS 304		
DF–80FS	4–φ17.5 aperture φ160	80	80	275	280			
DF–100FS	8–φ17.5 aperture φ180	100	125	340	305			

XSD Series pilot operated solenoid valve

XSD–15

XSD–20

XSD–25

XSD-25SK

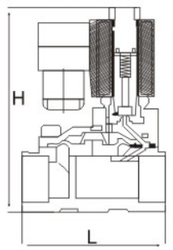
XSD-32S

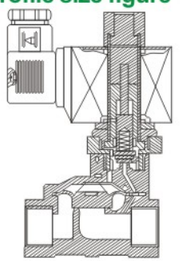
XSD–40

Product features

- Suitable medium:liquid,water,hot water,gas
- Medium temp.: –10℃– 80℃
- Action type: pilot operated type
- Working pressure: normally closed: 0.5 –16 bar
  normally open: 0.5 –10 bar
- Valve body material: brass(forged),stainless steel(precision casting)
- Diaphragm sealing: material: NBR, Viton
- Coil Protection level: Plastic coil IP65

Internal structure &profile size figure





Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSD–15	G1/2''	15	4.5	64	110	–10~80℃	Normally closed: 0.5~16 bar Normally open: 0.5~10 bar	220VAC/50HZ 110VAC/50HZ 22VA DC24 DC12 17W Tolerance: ± 10% Other voltage can becustomized
XSD–20	G3/4''	20	7.6	74	115			
XSD–25	G1''	25	12	98	135			
XSD–32	G1¼''	32	22	130	140			
XSD–40	G1½''	40	30	130	140			
XSD–50	G2''	50	48	160	165			
XSD–15S	G1/2''	15	4.5	70	110			
XSD–20S	G3/4''	20	7.6	78	115			
XSD–25S	G1''	25	12	98	135			
XSD–32S	G1¼''	32	22	120	140			
XSD–40S	G1½''	40	30	120	140			
XSD–50S	G2''	50	48	150	165			

XSBD Series Solenoid Valve

XSBD-015-08

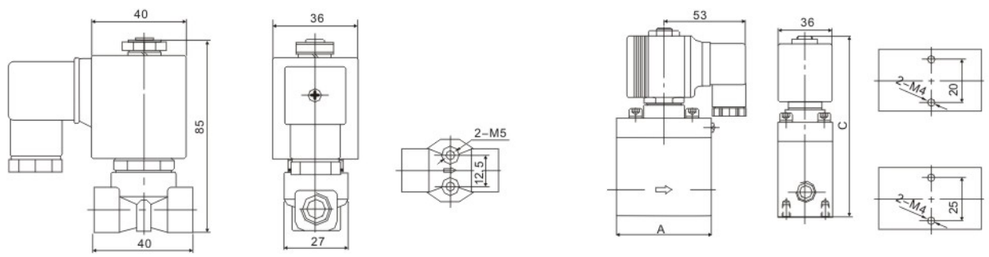
XSBD2400-06

XSBD2400-12

Product features

- The XSBD high pressure solenoid valve is a valve for use with gas and liquid.
- Operating pattern: normally closed or normally open.
- Materials: brass.
- Operating pressure of the BD high pressure solenoid valve: 1~60bar.
- Voltage: AC220V, 110V, AC power 32VA; DC24V 12V, power 18W.
- Voltager range: ±10%
- Protection degree of the coils: Ip65.
- The acting pattern: two position two way.

Internal structure &profile size figure



Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSBD–015–08	G 1/4"	1.5	0.06	40	85	−5~80℃	0~40 bar	220VAC/50HZ 110VAC/50HZ 32VA DC24 DC12 18W Tolerance: ± 10% Other voltage can becustomized
XSBD–020–08	G 1/4"	2.0	0.12	40	85		0~30 bar	
XSBD–025–08	G 1/4"	2.5	0.2	40	85		0~25 bar	
XSBD2400–06	G 1/4"	6	0.8	48	105		1~60 bar	
XSBD2400–08	G 3/8"	8	1.1	48	105		1~60 bar	
XSBD2400–12	G 1/2"	12	2.2	60	120		1~60 bar	
XSBD–015–08K	G 1/4"	1.5	0.06	40	85		0~25 bar	
XSBD–020–08K	G 1/4"	2.0	0.12	40	85		0~16 bar	
XSBD–025–08K	G 1/4"	2.5	0.2	40	85		0~10 bar	
XSBD2400–06K	G 1/4"	6	0.8	48	105		1~30 bar	
XSBD2400–08K	G 3/8"	8	1.1	48	105		1~30 bar	
XSBD2400–12K	G 1/2"	12	2.2	60	120		1~30 bar	

XSE Series High Pressure Solenoid Valve

XSE-A-1

XSE-B-3

XSE-15

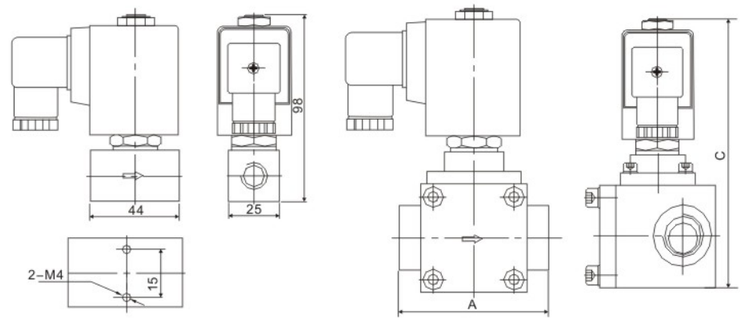
Technical parameters

- Working medium: High pressure liquid,gas,light oil
- Medium temperature: −5~130℃
- Working pressure: 0~250bar
- Voltage: AC220V/50HZ/DC24V/AC110V/50HZ
- Body material: stainless steel SS304
- Sealing material: PTFE

Matches

- With the LED indicator light connector
- With Germany Nass coil

Internal structure &profile size figure



Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSE–A–1	G 1/4"	1	0.04	44	100	−5~130℃	0~180 bar	220VAC/50HZ 110VAC/50HZ 40VA DC24 DC12 25W Tolerance: ± 10% Other voltage can becustomized
XSE–A–2	G 1/4"	2	0.15	44	100		0~100 bar	
XSE–A–3	G 3/8"	3	0.25	44	100		0~50 bar	
XSE–B–1	G 1/4"	1	0.04	49	98		0~180 bar	
XSE–B–2	G 1/4"	2	0.15	49	98		0~100 bar	
XSE–B–3	G 3/8"	3	0.25	49	98		0~50 bar	
XSE–10	G 3/8"	10	3.5	60	125		6~150 bar	
XSE–15	G 1/2"	15	4.4	70	138		6~150 bar	
XSE–20	G 3/4"	20	7	80	144		6~150 bar	
XSE–25	G 1"	25	11	90	154		6~150 bar	

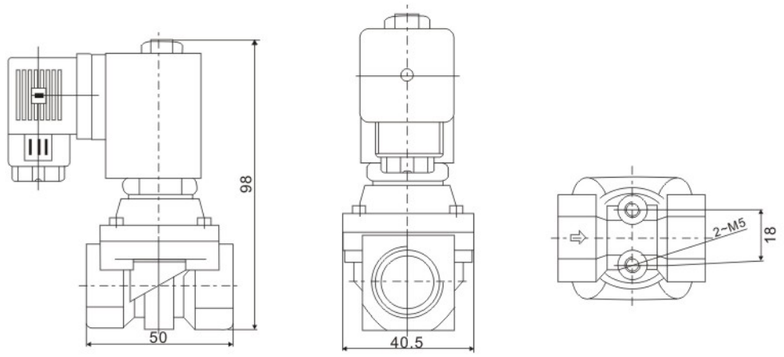
XS-A Series Two position two way direct acting solenoid valve

Product features

- 2/2 way normally closed,closed when de–energized open,open when enengized
- Max pressure tolerance: 25 kgf/cm²
- Working pressure: 0~20 kgf/cm²
- Ambient temp: 0–65℃
- Flow as the arrtow,mounts in any position: best positlon is solenold vertical and upright direction
- Only 3/8"&1/2" connection size, orifce ⌀10mm, can be widely use in the corresponding flow and pressure system, replace the same connection size but big onifce valve, can save a lot of cost
- Voltage: AC220V/230V/240V/110V/24V 50/60HZ DC24V/12V
  Tolerance: ±10% Other voltage can becustomized
- Seals: Can choose NBR、EPDM、VITON to fit the on/off control of different media;
- Body: Brass

XS-A-15

Internal structure &profile size figure



Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XS–A–08	G 1/4"	10	2.4	50	98	–5~80℃	0~20 bar	220VAC/50HZ 110VAC/50HZ 22VA DC24 DC12 15W
XS–A–10	G 3/8"	10	2.4	50	98			
XS–A–15	G 1/2"	10	2.4	50	98			

XSB Series Pilot Operated Diaphragm

Characteristic: 1. Pilot operated diaphragm construction with less power consumption for longtime working;
2. Applied to pressure system opened from0.3bars;
3. Lifespan can be at 1 million cycles.

Medium: Air, Water, Oil, etc.

Temperature: NBR Seal: -10˚C to 80˚C
EPDM Seal: -30˚C to 120˚C
VITON Seal: -30˚C to 150˚C

Voltage: DC - 12V, 24V
AC - 24V, 120V, 240V/60Hz; 110V, 220V/50Hz

Tolerance: +/- 10%

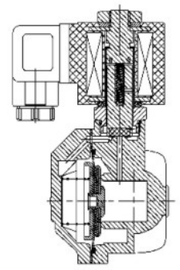
Special coils: EX coil AC 220 V DC 24 V;
Latching coil. DC 6 ~ 24 V on request

Material: Body- Brass or Stainless Steel
Seal- NBR, EPDM or VITON
Armature Tube- Stainless Steel 304
Plunger- Stainless Steel 430F
Stop- Stainless Steel 430F
Springs- SS 304
Shading Rings- Copper

XSB-A-15K

XSB-B-20

XSB-B-25



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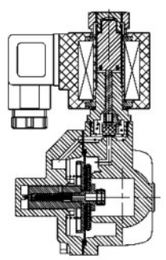

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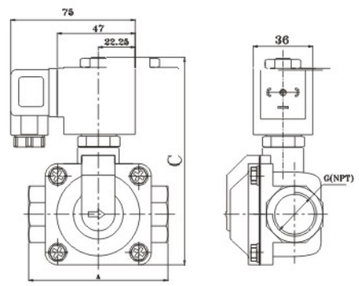


Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSB–A–15	G 1/2"	15	4.5	72	112	–5~80℃	0.03~16 bar	220VAC/50HZ 110VAC/50HZ 22VA DC24 DC12 17W Tolerance: ± 10% Other voltage can becustomized
XSB–A–20	G 3/4"	20	9.3	84	125			
XSB–A–25	G 1"	25	12	100	135			
XSB–A–15K	G 1/2"	15	4.5	72	116		0.03~10 bar	
XSB–A–20K	G 3/4"	20	9.3	84	128			
XSB–A–25K	G 1"	25	12	100	138			
XSB–15	G 1/2"	15	4.5	72	112		0.03~16 bar	
XSB–20	G 3/4"	20	9.3	84	125			
XSB–25	G 1"	25	12	100	135			
XSB–15K	G 1/2"	15	4.5	72	116		0.03~10 bar	
XSB–20K	G 3/4"	20	9.3	54	128			
XSB–25K	G 1"	25	12	100	138			

ZCA (XSZC) vacuum solenoid valve

ZCA–15

ZCA–20

ZCA–25

ZCA–32

ZCA–40

ZCA–50

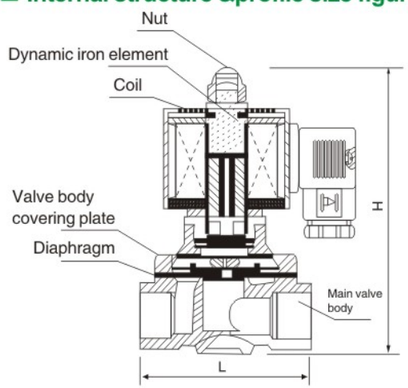
Product features

- Suitable medium: gas
- Medium temp.: –5℃– 80℃
- Action type: direct acting type or diaphragm type
- Working pressure:–1 ~1bar
- Valve body material: brass(forged),stainless steel(precision casting)
- Diaphragm sealing: material: NBR
- Coil Protection level: Plastic coil IP65

Structure features

- Low voltage or vacuum pipeline
- Big flow
- Directing acting or diaphragm type with fast reaction
- Coil power consumption is high

Internal structure &profile size figure



Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
ZCA025–08	G1/4''	2.5	0.23	40	75	–5~80℃	–1~1 bar	220VAC/50HZ 110VAC/50HZ 26VA~30VA DC24 DC12 18W ~ 30W Tolerance: ±10% Other voltage can becustomized
ZCA040–10	G3/8''	4	0.6	47	85			
ZCA160–10	G3/8''	16	4.8	64	105			
ZCA–15	G1/2''	16	4.8	64	105			
ZCA–20	G3/4''	20	7.6	65	110			
ZCA–25	G1''	25	12	85	125			
ZCA–32	G1 1/4''	32	24	95/110	135/160			
ZCA–40	G1 1/2''	40	28	110/112	160/165			
ZCA–50	G2''	50	45	118/155	175/190			

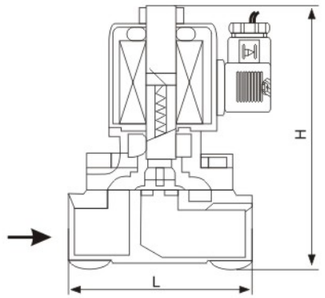
XSDF fast open-close fountain submersible solenoid valve

XSDF–25

XSDF–40

XSDF–65F

Internal structure &profile size figure



Product features

- Suitable medium: water
- Medium temp.: –5℃– 80℃
- Working pressure: 0 ~6 bar
- Valve body material: brass(forged),stainless steel(precision casting), cast iron
- Life :200000 times
- Lead wire length of coil: 1m, if need longer please specify when ordering.

Applications

- It is designed specially for solenoid valve to work under water,coil is sealed by special material,reliable and safe,the valve can be opened rapidly, it is very suitable for water control of musical fountain,run fountain and jump fountain.

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Valve body material	Working pressure (pressure differential)	Rated voltage
XSDF–15	G1/2''	15	4	64	112	Brass	0~6 bar	220VAC/50HZ 110VAC/50HZ 26VA~36VA DC24 DC12 13W~30W Tolerance: ±10% Other voltage can becustomized
XSDF–20	G3/4''	20	7	65	118			
XSDF–25	G1''	25	11	85	130			
XSDF–32	G1 1/4''	32	14	95/110	145/160			
XSDF–40	G1 1/2''	40	24	110/112	160/165			
XSDF–50	G2''	50	30	118/155	75/190			
XSDF–65F	4–ϕ17.5 aperture ϕ145	65	50	256	335	Cast iron	0.5~6 bar	
XSDF–80F	4–ϕ17.5 aperture ϕ160	80	80	275	360			
XSDF–100F	8–ϕ17.5 aperture ϕ180	100	125	350	375			
XSDF–125F	8–ϕ17.5 aperture ϕ210	125	220	400	460			
XSDF–150F	8–ϕ22 aperture ϕ240	150	280	450	480			
XSDF–65FS	4–ϕ17.5 aperture ϕ145	65	50	250	340	SS 304		
XSDF–80FS	4–ϕ17.5 aperture ϕ160	80	80	275	360			
XSDF–100FS	8–ϕ17.5 aperture ϕ180	100	125	340	380			

0927 series diaphragm solenoid valve


0927–200


0927–300


0927–400


0955–305

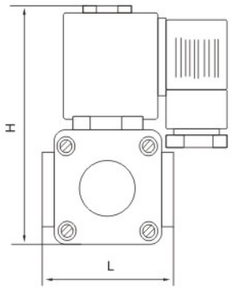

0955–405


0955–505

Product features

- Suitable medium:water,gas,oil (≤20CST)
- Medium temp.: –5℃– 80℃
- Action type:pilot operated type
- Working pressure: normally closed: 0.3 ~16 bar
- Valve body material: brass(forged)
- Diaphragm sealing: material: NBR
- Coil Protection level: Plastic coil IP65

Internal structure &profile size figure



Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
0927–200	G 1/2"	15	4.5	54	100	–5~80℃	0.3~16 bar	220VAC/50HZ 110VAC/50HZ 15VA DC24 DC12 12W Tolerance: ± 10% Other voltage can becustomized
0927–300	G 3/4"	20	14	80	118			
0927–400	G 1"	25	14	80	120			
0927–500	G 1 1/4"	32	14	115	127			
0927–600	G1 1/2"	40	24	124	130			
0927–700	G2	50	30	150	150			
0955–305	G 1/2"	15	4.5	54	115			
0955–405	G 3/4"	20	14	80	130			
0955–505	G 1"	25	14	80	130			
0955–605	G 1 1/4"	32	14	115	132			
0955–705	G1 1/2"	40	24	124	132			
0955–805	G2	50	30	150	152			

XSGW series High temperature solenoid valve

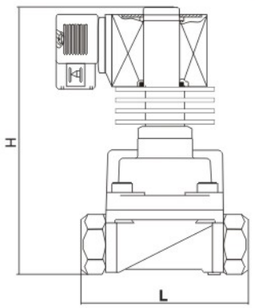

XSGW-15


XSGW-20


XSGW-25


XSGW-15S

Internal structure &profile size figure



Product features

- Suitable medium: high temperature gas, heat conduct oil
- Medium temp.: –5℃– 300℃,use radiation fin to radiate heat
- Action type:pilot operated type
- Working pressure: normally closed: 0.5 ~20 bar
- Valve body material: brass(forged),stainless steel (precision casting)
- Piston type sealing, material: Teflon+metal
- Coil Protection level: Plastic coil IP65

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSGW–10	G3/8"	15	4.8	80	175	–5~300℃	0.5~20 bar	220VAC/50HZ 110VAC/50HZ 24VA DC24 DC12 18W Tolerance: ± 10% Other voltage can becustomized
XSGW–15	G1/2"	15	4.8	80	175			
XSGW–20	G3/4"	20	7.6	86	185			
XSGW–25	G1"	25	12	100	200			
XSGW–10S	G3/8"	15	4.8	80	175			
XSGW–15S	G1/2"	15	4.8	80	175			
XSGW–20S	G3/4"	20	7.6	86	185			
XSGW–25S	G1"	25	12	100	200			

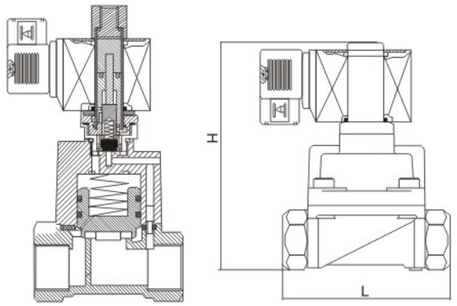
XSP Series steam solenoid valve

XSP-15　XSP-20　XSP-25　XSP-15S

Product features

- Suitable medium:steam ,hot water,water,light oil,air
- Medium temp.: −5℃− 200℃
- Action type: pilot operated type
- Working pressure: normally closed: 0.5 ~25 bar
  normally open: 0.5 ~10 bar
- Valve body material: brass(forged),stainless steel(precision casting)
- Diaphragm sealing: material: Teflon
- Coil Protection level: Plastic coil IP65

Internal structure &profile size figure



Technology data

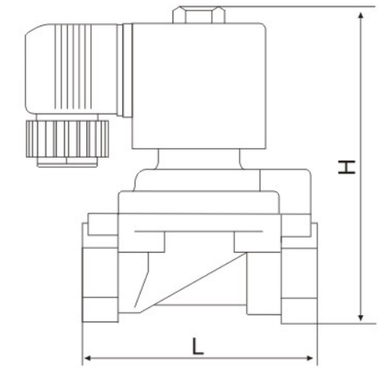
Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSP−10	G3/8"	15	4.8	80	145	−5~200℃	Normally closed: 0.5~25 bar Normally open: 0.5~10 bar	220VAC/50HZ 110VAC/50HZ 24VA DC24 DC12 18W Tolerance: ± 10% Other voltage can becustomized
XSP−15	G1/2"	15	4.8	80	145			
XSP−20	G3/4"	20	7.6	86	155			
XSP−25	G1"	25	12	100	170			
XSP−10S	G3/8"	15	4.8	80	145			
XSP−15S	G1/2"	15	4.8	80	145			
XSP−20S	G3/4"	20	7.6	86	155			
XSP−25S	G1"	25	12	100	170			

XINSHENG SOLENOID VALVE
www.xsdcf.com
PROFESSIONAL SOLENOID VALVE MANUFACTURER

XSG series 2/2 way high pressure solenoid valve

XSG-15　XSG-20　XSG-25

Internal structure &profile size figure



Product features

- Suitable medium: gas or fluid
- Medium temp.: −10℃− 80℃
- Action type: pilot operated type
- Working pressure: Normaly closed： 1−70 bar
- Valve body material: Brass(Forged).
- Sealing material: Teflon
- Coil Protection level: Plastic coil IP65

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
XSG−10	G3/8"	15	4.8	78	120	−10~80℃	1~70 bar	220VAC/50HZ; 24VA DC24 DC12 18W Tolerance: ± 10% Other voltage can becustomized
XSG−15	G1/2"	15	4.8	78	120			
XSG−20	G3/4"	20	7.6	80	125			
XSG−25	G1"	25	12	96	140			

Long time no overheat series Water (hot water) gas solenoid valve

2W160–15

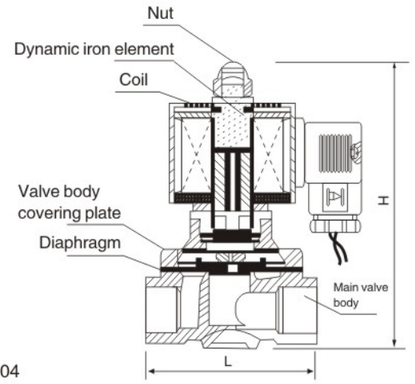
2W200–20

2W250–25

Product features

- Suitable medium: Water. Hot water. Gas
- Medium temp.: –5℃– 80℃
- Action type: Direct acting type, step by step direct acting type
- Working pressure: 0–10 bar
- Valve body material: Brass(Forged). Stainless steel(precision casting)
- Diaphragm sealing material: NBR / VITON
- Coil Protection level: Iron clad coil IP54

Internal structure &profile size figure



Remark

- If used for food machine and drinking water, may request for sealing material when ordering.
- May use PYMQ material.
- If the medium temperature is over 80℃ , should use VITON diaphragm numbering code K means normally Open type, S means the valve material is SUS304

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
2W025–08A	G1/4"	2.5	0.23	40	75	–5~80℃	0~10 bar	220VAC/50HZ 110VAC/50HZ 5VA Tolerance: ± 10% Other voltage can becustomized
2W025–08	G1/4"	2.5	0.23	40	75			
2W040–10	G3/8"	4	0.6	47	85			
2W160–10	G3/8"	16	4.8	64	105			
2W160–15	G1/2"	16	4.8	58/64/68	100/105110			
2W200–20	G3/4"	20	7.6	65/72	110/115			
2W250–25	G1"	25	12	85/92	125/125			
2W320–32	G1¼"	32	24	96/110	135/160			
2W400–40	G1½"	40	29	110/112	160/165			
2W500–50	G2"	50	48	118/155	170/180			
2W400–40F	4–φ17.5 aperture φ110	40	29	150	215			
2W500–50F	4–φ17.5 aperture φ125	50	48	185	230			

2W-NASS series water (hot water) gas solenoid valve

2W–NASS–15

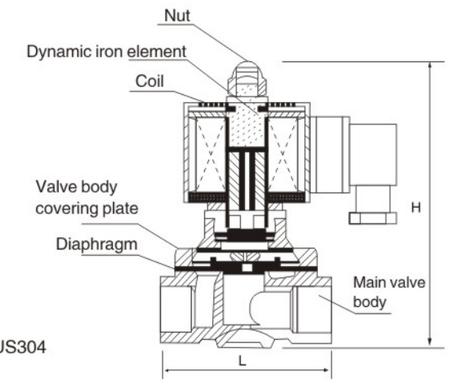
2W–NASS–20

2W–NASS–25

Product features

- Suitable medium: Water. Hot water. Gas
- Medium temp.: –5℃– 80℃
- Action type: Direct acting type, step by step direct acting type
- Working pressure:Normally closed : 0–10 bar
- Valve body material: Brass(Forged). Stainless steel(precision casting)
- Diaphragm sealing material: NBR / VITON
- Coil Protection level: plastic coil IP65 (Using the German NASS coil)

Internal structure &profile size figure



Remark

- If used for food machine and drinking water, may request for sealing material when ordering.
- May use PYMQ material.
- If the medium temperature is over 80℃ , should use VITON diaphragm numbering code K means normally Open type, S means the valve material is SUS304

Technology data

Model	Connecting Method	Diameter	Cv value	Length (mm)	Height (mm)	Medium temp.	Working pressure (pressure differential)	Rated voltage
2W–NASS–15	G1/2"	16	4.8	68	110	–5~80℃	0~10 bar	220VAC/50HZ: 22VA DC24 DC12 15W Tolerance: ± 10% Other voltage can becustomized
2W–NASS–20	G3/4"	20	7.6	72	115			
2W–NASS–25	G1"	25	12	92	125			

Electric Ball Valve DQ200

Product overview

DQ200 series electric ball valve is suitable for on–off control of water system in Heating Ventilation Air Conditioning(HVAC),it is composed by electric driver and valve body .The Driver (actuator) uses a synchronous motor driver with stable action.The built–in limit contact can cut off power when valve is fully open or closed.
Valve body is forged by brass, also can be processed by nickel plating on surface. Suggest to use with HFW–3,HFW–12，HFW–6 series thermostat.

Remark

Normally, the valve is set in normally open position when in factory.
If any special requirement,please specify.

Technology data

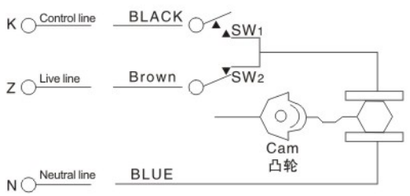
- Controlling feature:three lines and one control, three lines two control motor drive reset.
- Working voltage:230VAC ± 10%，50~60Hz
- Power cosumption:4W (only when valve opens or closes)
- Motor type: bidirectional synchronous motor
- Action time: about 20s (open ~ close)
- Lead length:30cm
- Nominal pressure:1.6Mpa
- Leakage rate: ≤0.008%Kvs (when pressure lower than 500Kpa)
- Connecting method: Pipe thread G
- Suitable medium: cold water，hot water or 50% ethylene glycol aqueous solution
- Medium temp.:2~90℃
- Environment temp.:–5~60℃
- Valve body: brass forged(HPb59–1)
- Sealing ring: Teflon
- O ring: NBR
- Actuator shell material: upper shell (flame retardant ABS plastic), Lower shell(Enforced flame retardant PBT)

Technology data

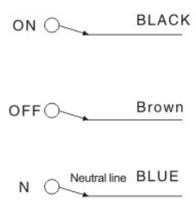
Model		Specification		Size		Kv(m^3/h)
		DN(mm)	Internal thread (G)	L	H	
	DQ215	15	1/2''	110	64	11
2 way	DQ220	20	3/4''	110	64	20
	DQ225	25	1''	125	75	60
	DQ315	15	1/2''	120	80	11
3 way	DQ320	20	3/4''	120	80	20
	DQ325	25	1''	140	100	60

Wiring diagram

Three line one control



Three line two control



FILTER

Technology data

	1/2"	3/4"	1"	2"
L	57	66	73	90
H	53	62	72	91

CHECK VALVE

Technology data

	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	49	56	65	67	75	85
H	48	58	70	78	82	101

Technology data

	1/2"	3/4"	1"
L	56	58	63
H	61	71	75

BALL VALVE

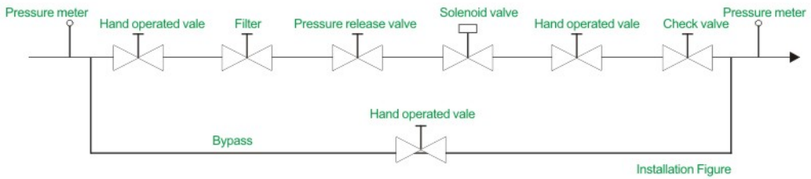
Technology data

	1/4"	3/8"	1/2"	3/4"	1"
L	11	21	29	34	38
H	13	17	21	27	33

CONNECTER

Installation and usage of solenoid valve

- Please read the instruction manual before installation to check whether it satisfies your requirement of usage.
- Clean the pipe before using it, a filter should be installed if the medium is not clean to prevent the impurity affecting the normal working of solenoid valve.
- Normally the solenoid valve works in one–way ,so reverse installation is not allowed,the arrow on the valve body means the direction of pipe flow,it should maintain consistency.
- Normally the solenoid valve should be installed in level and coil should be vertical, part of products could be installed in any directions, but it is better vertical to prolong its life,if conditions permits .
- The solenoid should be heated when it works again in frozen space,or make some measures of heat preservation.
- Make sure it is solid enough after electromagnetic coil lead wire is connected, the contactor of electrical components shall not shake, loosing will cause the solenoid valve not work.
- It is better to adopt bypass for continously working solenoid valve which makes repair easier and no affect to production.



Installation Figure

- After running a long time,the solenoid valve only can be used after cleaning the coagulum.
- Put all parts in order when detaching and cleaning it,then assemble it as before.
- If anything unclear for you, please contact us anytime.

Troubleshooting for solenoid

The Solenoid Valve does not work after power on

- Check whether the power wiring is bad → reconnect the wire and connector
- Check whether the voltage is in working range→ adjust to be in normal range
- Check whether the coil solder is loose → re–weld it.
- Coil is in short circuit →replace the coil
- Fluid temperature is too high→ replace it with a appropriate solenoid valve
- Impurities make the main valve core and the movable iron core be blocked→ clean it ,if the sealing element is broken, please change a new one and install a filter.
- Liquid viscosity and frequency is too high, service life is over→ replace it with a new product

Solenoid valve can not be closed

- The sealing element of main valve core or dynamic iron core damaged→replace seals
- Liquid temperature and viscosity is too high→replace it with a appropriate solenoid valve
- Impurities came into the main valve core or dynamic iron core→clear it
- The life of Spring is over or it is deformed→replace it
- The orifice and the balance hole is blocked→clean timely
- The working frequency is too high or the life is over→ Change or replace it.

Other situations

- Leakage inside→check if the sealing element is broken and if the spring assembled properly
- Leakage outside→ Loose at the connecting place or the sealing element is broken→ tighten the screw or change the sealing element
- Noise when power on→the fastener on head is loose,tighten it. If the voltage is not in the allowed range,adjust it. If there is impurity on the connecting surface of iron core or it is not smooth, clean it timely or change a new one.

CERTIFICATE