



Xinsheng solenoid valve

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

YUYAO XINSHENG SOLENOID VALVE CO.,LTD
ADD:No. 262 Xixi , Sanxi Village, Lizhou Street, Yuyao, Ningbo, China
TEL: +86 574 62766188 PHONE: +86 15606603351
FAX: +86 574 62766788
Website: www.xs-valves.com
E-MAIL: sales1@xs-valves.com
QQ: 3472500858

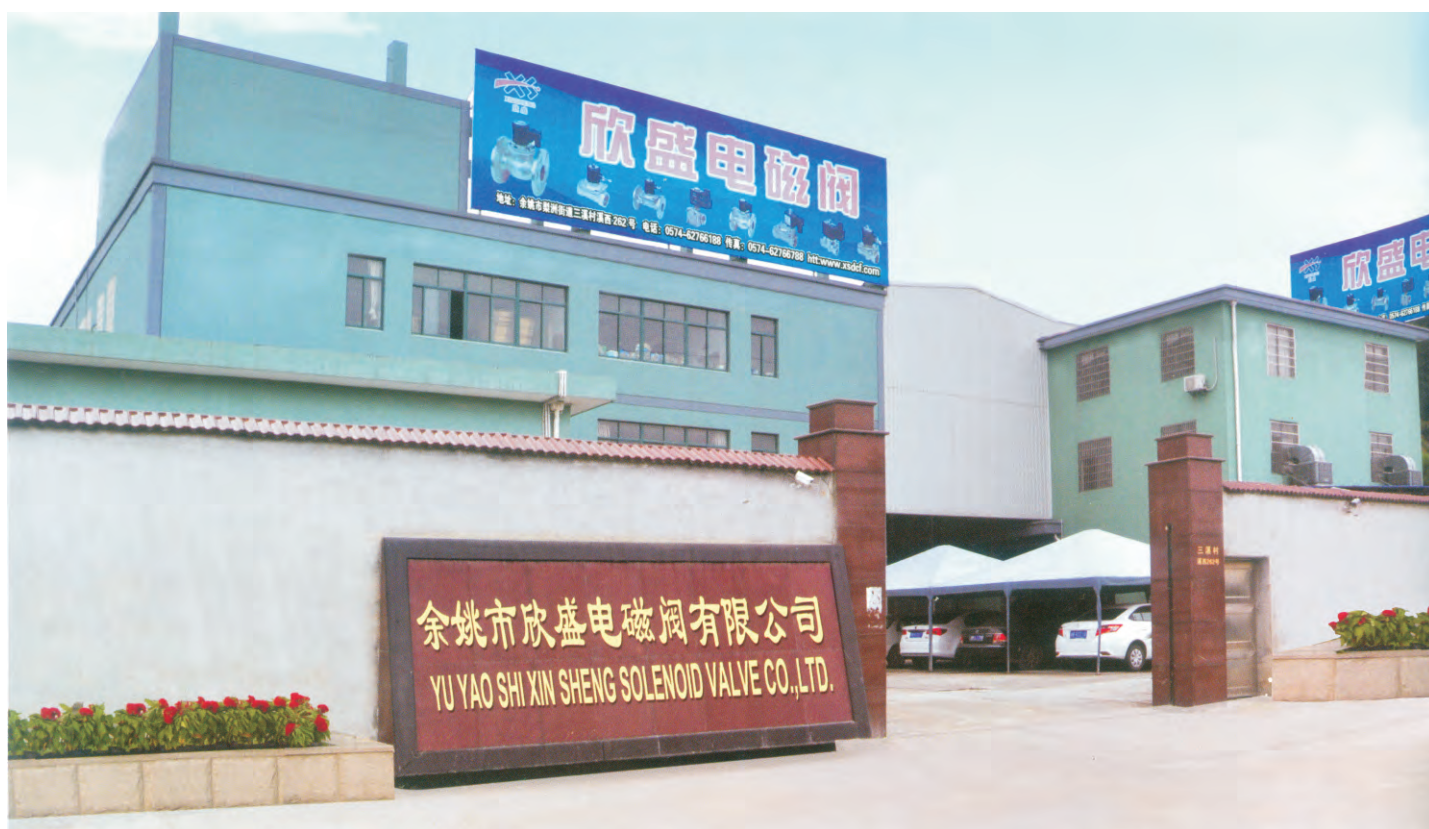
The company will follows the principles of continuous improvement OEM and ODM orders are welcome



The professional solenoid valve manufactory
XINSHENG SOLENOID VALVE



YUYAO XINSHENG SOLENOID VALVE CO.,LTD.



Yuyao Xinsheng Solenoid Valve Co.,Ltd. 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 Co.,Ltd. produces all kinds of working medium solenoid valve with diameter $\Phi 3 - \Phi 300$ and pressure range 0–1.7 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.



Index

- Ultra low power coil solenoid valve with high thrust -----P01
- How to choose the type of solenoid valve-----P02
- Valve body,sealing material and medium selection sheet-----P03
- 2W (UW) brass series water(hot water) & gas solenoid valve. Normally Closed-----P04-P05

Body material: forged brass,cast brass pressure:0~10kgf/cm²
DN: ϕ 2.5mm~50mm Connect: Thread G1/8" - 2" Flange: DN40-50
Medium: water. hot water. air. Mashgas.oil etc.



- 2W (UW) brass series water(hot water) & gas solenoid valve. Normally Open-----P06-P07

Body material: forged brass,cast brass pressure:0~8kgf/cm²
DN: ϕ 2.5mm~50mm Connect: Thread G1/8" - 2" Flange: DN40-50
Medium: water. hot water. air. Mashgas.oil etc.



- 2W(UW) Stainless steel series water(hot water) & gas solenoid valve. Normally close ---P08-P09

Body material: SS304 pressure:0~10kgf/cm²
DN: ϕ 2.5mm~100mm Connect: Thread G1/8" - 2" Flange: DN15-100
Medium: water. hot water. air. Mashgas.oil etc.



- 2W(UW) Stainless steel series water(hot water) & gas solenoid valve. Normally Open ---P10

Body material: SS304 pressure:0~8kgf/cm²
DN: ϕ 2.5mm~50mm Connect: Thread G1/8" - 2" Flange: DN15-50
Medium: water. hot water. air. Mashgas.oil etc.



- XS-A series 2/2 way (normally closed) solenoid valve -----P11

Body material: forged brass pressure:0~20kgf/cm²
DN: ϕ 10mm~13mm Connect: Thread G1/4" - 1/2"
Medium: water. hot water. air. Mashgas.oil etc.



- XSE Series 2/2 way high pressure solenoid valve -----P12

Body material: Brass, SS304 pressure:0~170kgf/cm²
DN: ϕ 1mm~25mm Connect: Thread G1/8" - 1"
Medium: water. hot water. air etc.



- XSBD Series 2/2 way piston middle pressure solenoid valve -----P13

Body material: Brass pressure:0~60kgf/cm²
DN: ϕ 1.5mm~12mm Connect: Thread G1/8" - 1/2"
Medium: water. hot water. air etc.



- XSGW Series 2/2 way high temperature solenoid valve -----P14

Body material: forged brass. SS304 Pressure: 0.5~20kgf/cm²
DN: ϕ 10mm~25mm Connect: Thread G3/8" - 1"
Medium: water.liquid.gas. heat conduct oil etc.



XSP Series 2/2 way steam solenoid valve-----P15

Body material: forged brass, SS304 Pressure: 0.5–25kgf/cm²
DN: ϕ 10mm~25mm Connect: Thread G3/8"– 1"
Medium: water.liquid.gas. etc.



XSG series 2/2 way high pressure diaphragm solenoid valve. -----P16

Body material: forged brass Pressure: 0.5–70kgf/cm²
DN: ϕ 10mm~25mm Connect: Thread G3/8"– 1"
Medium: water. liquid. gas etc.



ZBSF Seires SS304 solenoid valve-- -----P17

Body material : SS304 pressure: 0–1.6 kgf/cm²
DN: ϕ 10mm~150mm connect : Flange
Medium:corrosive liquid.gas.water.hot water.pure liquid.vacuum pipeline,
oil.steam etc

PU series water, hotwater ,gas solenoid valve-----P18

Body material: forged brass, SS304 Pressure:0–16kgf/cm²
DN: ϕ 13mm~50mm Connect: Thread G3/8"– 2"
Medium: water. hot water. air ,mashgas, oil etc.



2L (US) series 2/2 way piston steam solenoid valve -----P19

Body material: forged brass, cast brass, SS304 pressure:0.5~16kgf/cm²
DN: ϕ 17mm~40mm Connect: Thread G3/8"– 2" Flange:DN20–50
Medium: water. hot water. air. Steam.oil etc.



ZCZ Series 2/2 way piston steam solenoid valve -----P20-P21

Body material: forged brass, cast iron pressure:0.5~16kgf/cm²
DN: ϕ 15mm~100mm Connect: Thread G1/2"– 2" Flange:DN20–100
Medium: water. hot water. air. Steam.oil etc.



ZQDF series steam solenoid valve-----P22-P23

Body material: forged brass, cast brass,SS304 pressure:0~10kgf/cm²
DN: ϕ 15mm~50mm Connect: Thread G1/2"– 2" Flange:DN20–50
Medium: water. hot water. air. Steam.oil etc.



DF (ZCS) series 2/2 way diaphragm liquid solenoid valve-----P24-P25

Body material: forged Brass ,cast iron, SS304 pressure:0.5–16kgf/cm²
DN: ϕ 10mm~200mm Connect: Thread G3/8"– 2" Flange:DN40–200
Medium: water. hot water. air ,mashgas, oil etc.



XSD Series 2/2 way pilot operated solenoid valve (Normally closed)-----P26

Body material: forged Brass , SS304 pressure:1–16kgf/cm²
DN: ϕ 13mm~50mm Connect: Thread G3/8"– 2" Flange:DN65–100
Medium: water. hot water. air ,mashgas, oil etc.



XSD Series 2/2 way pilot operated solenoid valve (Normally Open) -----P27

Body material: forged Brass , SS304 pressure:1-10kgf/cm²
DN: ϕ 13mm~50mm Connect: Thread G3/8"- 2" Flange:DN65-100
Medium: water. hot water. air , mashgas, oil etc.



XSFP strong acid & strong alkali diaphragm anti-corrosion solenoid valve-----P28

Body material: PTFE pressure:0-2kgf/cm²
DN: ϕ 2mm~13mm Connect: Thread G1/8"- 1"
Medium: pure medium, strong acid, strong alkali.



XSB series 2/2 way solenoid valve -----P29

Body material: forged brass, SS304 Pressure: 0.3-16kgf/cm²
DN: ϕ 10mm~25mm Connect: Thread G3/8"- 1"
Medium: water. liquid. gas .oil etc



ZCT (ZCQ) series stainless steel solenoid valve -----P30

Body material: SS304 pressure:0-10kgf/cm²
DN: ϕ 3mm~15mm Connect: Thread G1/8"- 1"
Medium: water. hot water. air. Steam.oil etc.



XSDF fountain solenoid valve -----P31

Body material: forged brass. SS304, cast iron Pressure: 0-6kgf/cm²
DN: ϕ 15mm~150mm Connect: Thread G3/8"- 2" Flange:DN15-200
Medium: water.



ZCM series direct acting coal gas solenoid valve -----P32-P33

Body material: forged brass, cast iron, SS304 Pressure: 0-4kgf/cm²
DN: ϕ 2.5mm~100mm Connect: Thread G1/4"- 2" Flange:DN15-100
Medium: water. liquid. gas etc.



ZCA (XSZC) vacuum solenoid valve -----P34

Body material: forged brass. SS304 Pressure:-1-1kgf/cm²
DN: ϕ 13mm~50mm Connect: Thread G3/8"- 2" Flange:DN15-50
Medium: water. hot water. air , oil etc.



0927 series pilot operated diaphragm solenoid valve -----P35

Body material: forged brass Pressure: 0.3-16kgf/cm²
DN: ϕ 10mm~50mm Connect: Thread G3/8"- 2"
Medium: water. liquid. gas etc.



YLA series water (hot water) gas solenoid valve-----P36

Body material: forged brass, SS304 Pressure: 0-10kgf/cm²
DN: ϕ 10mm~50mm Connect: Thread G3/8"-2"
Medium: water. liquid. gas .oil etc



2W-NASS Series water (hot water) & gas solenoid valve-----P37

Body material: forged brass, SS304 Pressure: 0-10kgf/cm²
DN: ϕ 10mm~25mm Connect: Thread G3/8"- 1" Flange:DN15-25
Medium: water. liquid. gas .oil etc



Long time no overheat series energy-saving Water (hot water)& gas solenoid valve.-----P38

Body material: forged brass, SS304 Pressure: 0-10kgf/cm²
DN: ϕ 10mm~100mm Connect: Thread G3/8"- 1" Flange:DN15-100
Medium: water. liquid. gas .oil etc



Electric Ball Valve DQ200 -----P39

Body material: forged brass Pressure: 16kgf/cm²
DN: ϕ 15mm~25mm Connect: Thread G1/2"- 1"
Medium: water.



Electronic Timer -----P40

Installation and usage of solenoid valve-----P41

Flow calculation Formula -----P42

Solenoid valve

Ultra low power coil solenoid valve with high thrust

Technical Innovation

Characteristics:

1. Ultra high starting stripping force: quick response, 3 times output pull;
2. Ultra low power: working power is only 25% of previous coil;
3. Ultra low temperature rising: work for long time without overheating;
4. No any noise while working;

Application:

5. For those need to work for long time, energy saving situation;
6. Those has high request to coil overheating environment;



XSBD025-08

Data sheet Comparison for the normal
and GE series coil

Lteml	Normal coil	GE series
Flowrate	3.00mm	3.00mm
Power	12W/22VA	3W/5.5VA
Working pressure	13bar	36bar
Coil constant TEP	≥80℃	≥30℃
Noist	AC may have	No
Life time	≤100 Times	≤500 Times

Green initiative(technical)revolutionary creation

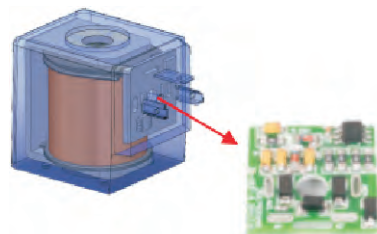
Ultra low power high thrust solenoid valve's application

New key technology Intell gent IC module

Integrated BMC plastic full enclosed coil

Low power low TEP, high pressure

Same voltage can be used both in AC and DC power



Main GE series solenoid valve



XSE-B-3



ZCM-15



XSG-15



XSP-15



ZCA-25

New series GE series will be launched

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.

The structure and principle of solenoid valve

● 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.

● 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 $\Phi 15$), ZCZ and so on. (Figure 2 is a typical structure figure)

● 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 factories generally belong to type test project, exactly to say that China has not yet the professional standards of solenoid valve, so it should be careful when choosing the solenoid factory.
- 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.

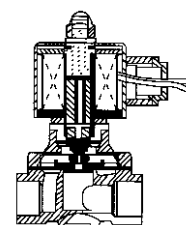


Figure 1 De-energized

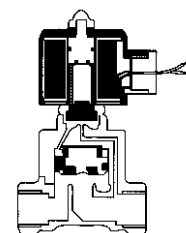


Figure 2 Energized

Valve Body, Sealing Material and Medium Type Selection Table

☒ Applicable
 ☒ 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	✓	✓	✓	✓		✓		✓
Seawater	✓		✓	✓	✓	✓	✓	✓
Industrial wastewater			✓				✓	✓
Gasoline	✓	✓	✓				✓	✓
Coal oil	✓	✓	✓	✓	✓	✗	✓	✓
Diesel oil	✓	✗	✓	✓	✓	✗	✓	✓
Milk	✓	✓	✓	✓	✓	✓	✓	✓
Wine	✓	✓	✓	✓	✓	✓	✓	✓
Alcohol	✓	✓	✓		✓	✗		✓
Ethyne	✓	✓	✓		✓	✗	✓	✓
Alcohol	✓	✓	✓		✓	✗	✓	✓
Methanol	✓	✓	✓		✓	✓	✗	✓
Acetone	✓	✓	✓		✓	✗	✗	✓
Ammonia					✗			✓
Methylbenzene	✓	✓	✓			✗	✓	✓
Dimethylbenzene	✓	✓	✓			✗	✓	✓
Propane	✓	✓	✓			✗	✓	✓
Methane	✓	✓	✓		✓	✗	✓	✓
Sulfur dioxide	✓	✓	✓				✓	✓
Sodium hydroxide<20%		✓	✓		✓	✗		✓
Nitric acid<10%			✓				✓	✓
Nitric acid<20%							✓	✓
Hydrochloric acid<10%					✓			✓
Acetic acid	✓	✓	✓		✓	✗	✓	✓

2W (UW) brass series water(hot water) & gas solenoid valve. Normally Closed



2W160-15



2W250-25



2W320-32



2W400-40

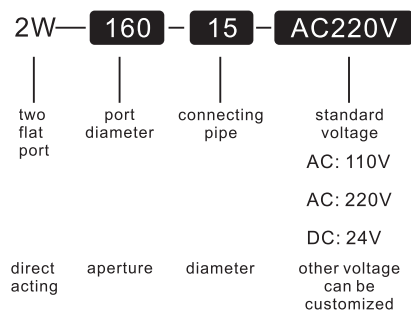


2W500-50

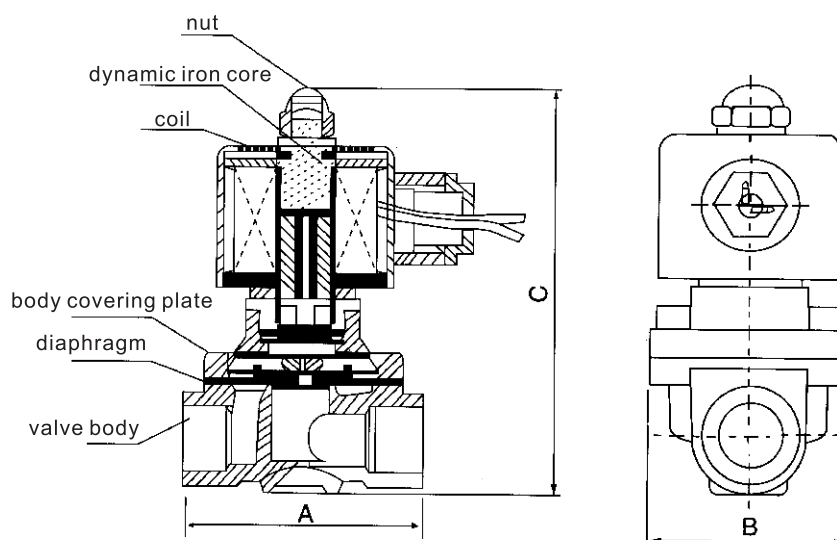


2W500-50F

Ordering code



Inside structure and profile size



Product features

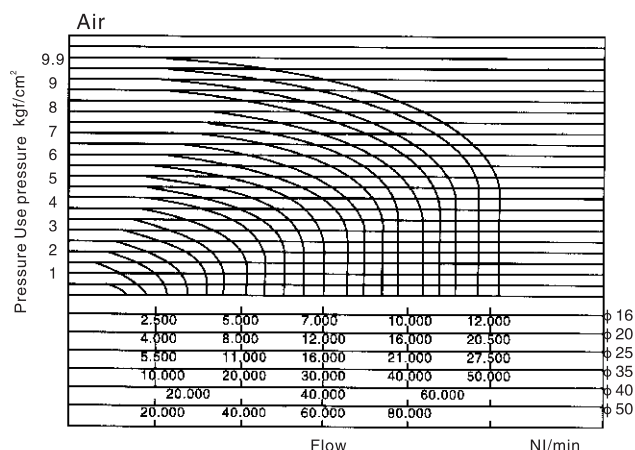
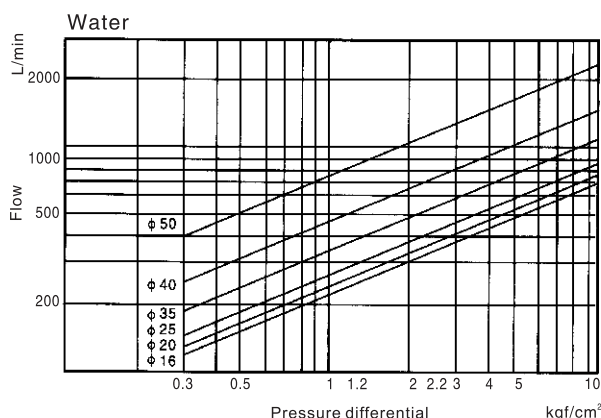
- Suitable medium: liquid, water, hot water, gas, mashgas, oil etc ($\leq 20^{\circ}\text{CST}$)
- Medium temp.: $-5^{\circ}\text{C} - 80^{\circ}\text{C}$
- Action type: direct acting type, step by step direct acting type
- Working Status: Normally Closed
- Valve body material: brass (casted), cast iron
- Diaphragm sealing, material: NBR, EPDM, VITON
- Coil Protection level: Plastic coil IP65, iron clad iron 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°C , should choose EPDM (150°C) or VITON diaphragm (180°C)
- 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.

2W (UW) brass series water(hot water) & gas solenoid valve. Normally Closed

Flow curve table



Data

Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure							Max Temperature of Fluid °C NBR/ VITON	Coil Data			SIZE LxWxH AxBxC
				Min Pressure	Max pressure							Coil Class	Power		
					Air		Watre hot water Liquid		light oil ≤ 20CST				VA	W	
					AC	DC	AC	DC	AC	DC			AC 220 V	DC 24 V	
2W025-08A	1/4"	2.5	0.23	0	8	8	8	8	8	8	80(180)	B	25	16	40X26X75
2W025-08	1/4"	2.5	0.23	0	8	8	8	8	8	8	80(180)	B	25	16	40X30X75
2W040-10	3/8"	4	0.6	0	8	5	10	5	5	4	80(180)	B	22	18	47X32X85
2W160-10	3/8"	16	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	64X52X102
2W160-15	1/2"	16	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	57X53X98
2W160-15	1/2"	16	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	64X56X108
2W160-15	1/2"	16	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	68X56X110
2W200-20	3/4"	20	7.6	0	10	6	10	6	7	4	80(180)	B	22	18	65X56X110
2W200-20	3/4"	20	7.6	0	10	6	10	6	7	4	80(180)	B	22	18	72X56X115
2W250-25	1"	25	12	0	10	6	10	6	7	4	80(180)	B	22	18	85X73X120
2W250-25	1"	25	12	0	10	6	10	6	7	4	80(180)	B	22	18	92X79X125
2W320-32	1 1/4"	30	20	0	10	6	10	6	7	4	80(180)	B	22	18	94X79X130
2W320-32	1 1/4"	32	24	0	10	6	10	6	7	4	80(180)	B	35	30	110X88X158
2W400-40	1 1/2"	36	26	0	10	6	10	6	7	4	80(180)	B	35	30	110X88X166
2W400-40	1 1/2"	40	29	0	10	6	10	6	7	4	80(180)	B	35	30	112X94X168
2W500-50	2"	46	40	0	10	6	10	6	7	4	80(180)	B	35	30	118X94X178
2W500-50	2"	46	40	0	10	6	10	6	7	4	80(180)	B	35	30	135X94X178
2W500-50	2"	50	48	0	10	6	10	6	7	4	80(180)	B	35	30	155X114X180
2W400-40F	4-Φ18 Φ110	40	29	0	10	6	10	6	7	4	80(180)	B	35	30	150X142X225
2W500-50F	4-Φ18 Φ125	50	48	0	10	6	10	6	7	4	80(180)	B	35	30	185X123X230
2W160-15 With Filter For car use	1/2"	16	4.8	0	5	5	5	5	4	4	80(180)	B	22	18	64X53X110

2W (UW) brass series water(hot water) & gas solenoid valve. Normally Open



2W160-15K



2W200-20K



2W250-25K

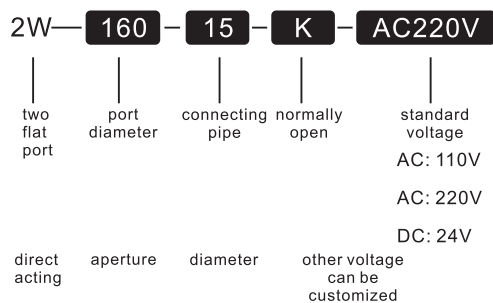


2W320-32K

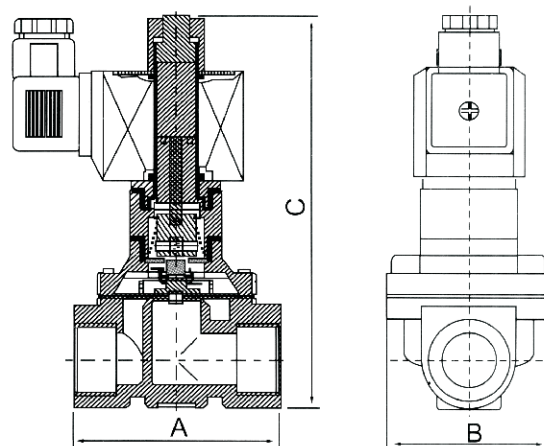


2W320-32K

Ordering code



Inside structure and profile size



Product features

- Suitable medium: liquid, water, hot water, gas, mashgas, oil etc ($\leq 20^{\circ}\text{CST}$)
- Medium temp.: $-5^{\circ}\text{C} - 80^{\circ}\text{C}$
- Action type: direct acting type, step by step direct acting type
- Working Status: Normally Open
- Valve body material: brass(casted), cast iron
- Diaphragm sealing, material: NBR, EPDM, VITON
- Coil Protection level: Plastic coil IP65, iron clad iron 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°C , should choose EPDM(150°C) or VITON diaphragm(180°C)
- 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.

2W (UW) brass series water(hot water) & gas solenoid valve. Normally Open



2W400-40K



2W400-40K

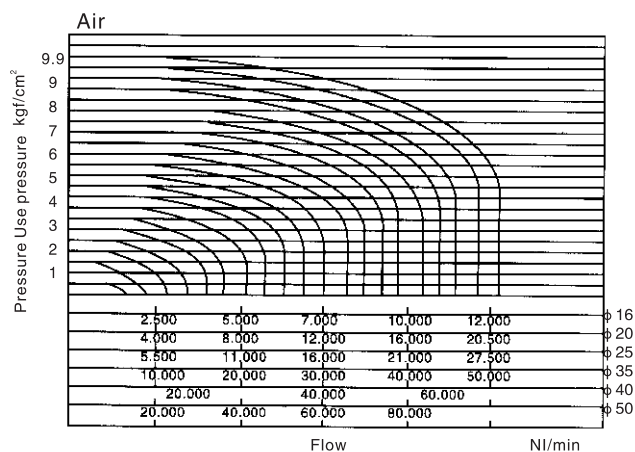
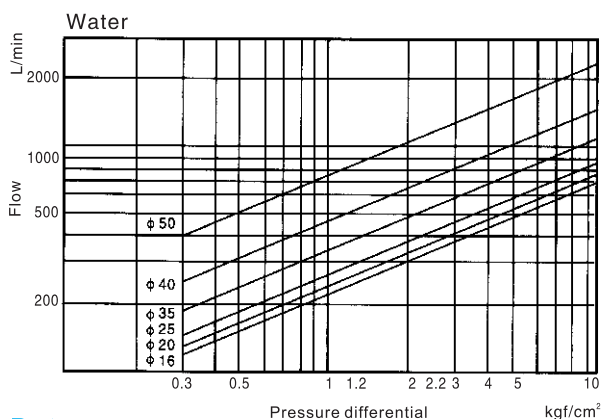


2W500-50K



2W500-50K

Flow curve table



Data

Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure							Max Temperature of Fluid ℃ NBR/ VITON	Coil Data			SIZE LxWxH AxBxC
				Min Pressure	Max pressure							Coil Class	Power		
					Air		Watre hot water Liquid		light oil ≤ 20CST				VA AC 220 V	W DC 24 V	
					AC	DC	AC	DC	AC	DC					
2W025-08K	1/4"	2.5	0.23	0	8	8	8	8	6	4	80(180)	F	22	17	40X30X110
2W040-10K	3/8"	4	0.6	0	4	4	4	4	4	3	80(180)	F	30	30	47X32X112
2W160-10K	3/8"	16	4.8	0	8	8	8	8	4	4	80(180)	F	30	30	64X56X120
2W160-15K	1/2"	16	4.8	0	8	8	8	8	4	4	80(180)	F	30	30	64X56X120
2W200-20K	3/4"	20	7.6	0	8	8	8	8	4	4	80(180)	F	30	30	64X56X126
2W250-25K	1"	25	12	0	8	8	8	8	4	4	80(180)	F	30	30	85X73X138
2W320-32K	1 1/4"	30	20	0	8	8	8	8	4	4	80(180)	F	30	30	94X79X150
2W320-32K	1 1/4"	32	24	0	6	6	6	6	4	4	80(180)	F	35	30	110X88X166
2W400-40K	1 1/2"	36	26	0	6	6	6	6	4	4	80(180)	F	35	30	110X88X170
2W400-40K	1 1/2"	40	29	0	6	6	6	6	4	4	80(180)	F	35	30	112X94X172
2W500-50K	2"	46	40	0	6	6	6	6	4	4	80(180)	F	35	30	118X94X185
2W500-50K	2"	46	40	0	6	6	6	6	4	4	80(180)	F	35	30	135X94X185
2W500-50K	2"	50	48	0	6	6	6	6	4	4	80(180)	F	35	30	155X114X188
2W400-40FK	4-Φ18 Φ110	40	29	0	6	6	6	6	4	4	80(180)	F	35	30	150X142X235
2W500-50FK	4-Φ18 Φ125	50	48	0	6	6	6	6	4	4	80(180)	F	35	30	185X152X250

2W(UW) Stainless steel series water(hot water) & gas solenoid valve. Normally closed



2W160-15S



2W320-32S



2W400-40S



2W250-25SF

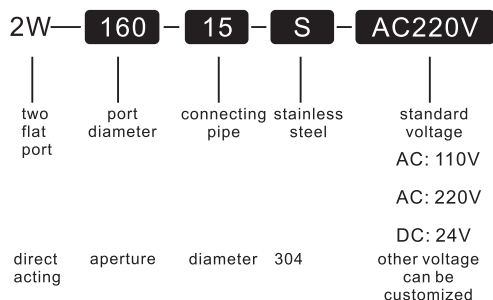


2W500-50SF

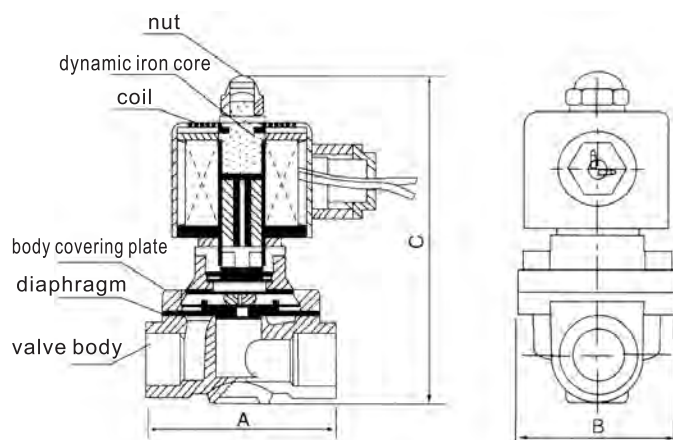


2W-100SF

Ordering code



Inside structure and profile size



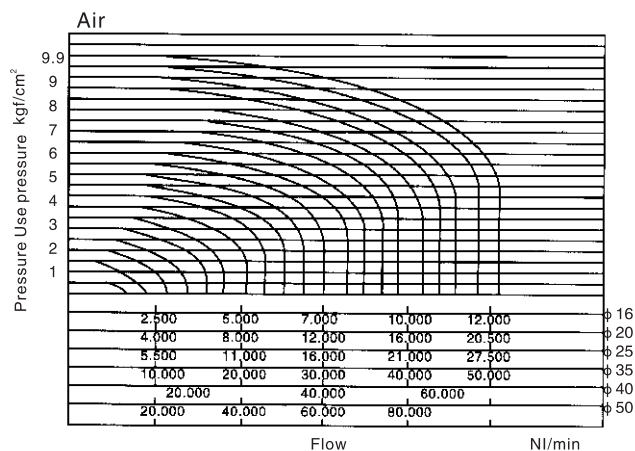
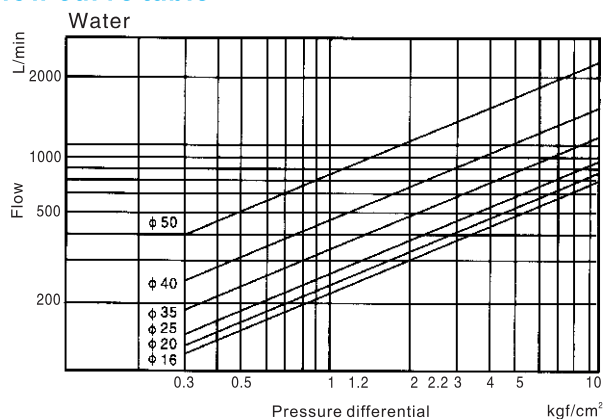
Product features

- Suitable medium: liquid, water, hot water, gas, mashgas, oil etc ($\leq 20\text{CST}$)
- Medium temp.: $-5^{\circ}\text{C} - 80^{\circ}\text{C}$
- Action type: direct acting type, step by step direct acting type
- Working Status: Normally Closed
- Valve body material: SUS304
- Diaphragm sealing, material: NBR, EPDM, VITON
- Coil Protection level: Plastic coil IP65, iron clad iron 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°C , should choose EPDM(150°C) or VITON diaphragm. (180°C)
- 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.

Flow curve table



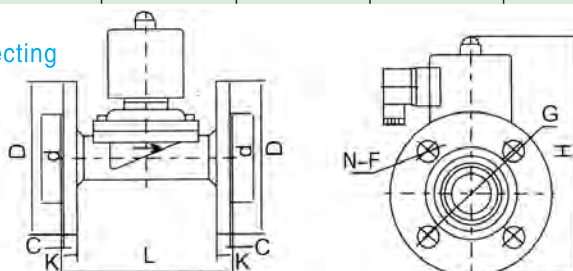
2W(UW) Stainless steel series water(hot water) & gas solenoid valve. Normally closed

Data

Model	Pipe Conn-ection	Orifice mm	Cv Value	Working pressure						Max Temperature of Fluid °C	Coil Data				SIZE
				Min Pressure	Max pressure						Coil Class	Power			
					Air Mashgas		Watre hot water Liquid		light oil ≤ 20CST			VA			
												AC 220 V	DC 24 V		
														LxWxH	
AxBxC															
2W025-08S	1/4"	2.5	0.23	0	8	8	8	8	8	8	80(180)	B	25	16	40X26X72
2W040-10S	3/8"	4	0.6	0	8	5	8	5	5	4	80(180)	B	22	18	42X28X88
2W160-10S	3/8"	16	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	68X57X110
2W160-15S	1/2"	16	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	68X57X110
2W200-20S	3/4"	20	7.6	0	10	6	10	6	7	4	80(180)	B	22	18	72X57X115
2W250-25S	1"	25	12	0	10	6	10	6	7	4	80(180)	B	22	18	98X76X128
2W320-32S	1 1/4"	30	22	0	10	6	10	6	7	4	80(180)	B	22	18	96X76X135
2W320-32S	1 1/4"	32	24	0	10	6	10	6	7	4	80(180)	B	35	30	115X86X158
2W400-40S	1 1/2"	40	29	0	10	6	10	6	7	4	80(180)	B	35	30	120X94X168
2W500-50S	2"	46	46	0	10	6	10	6	7	4	80(180)	B	35	30	120X94X180
2W500-50S	2"	50	48	0	10	6	10	6	7	4	80(180)	B	35	30	168X123X190
2W160-15SF	Flange connecting	15	4.8	0	10	6	10	6	7	4	80(180)	B	22	18	
2W200-20SF		20	7.6	0	10	6	10	6	7	4	80(180)	B	22	18	
2W250-25SF		25	12	0	10	6	10	6	7	4	80(180)	B	22	18	
2W320-32SF		32	24	0	10	6	10	6	7	4	80(180)	B	35	30	
2W400-40SF		40	29	0	10	6	10	6	7	4	80(180)	B	35	30	
2W500-50SF		50	48	0	10	6	10	6	7	4	80(180)	B	35	30	
2W-65SF		65	75	0	6	5	6	5	3	4	80(180)	B	70	50	
2W-80SF		80	90	0	6	5	6	5	3	2	80(180)	B	70	50	
2W-100SF		100	160	0	6	5	6	5	3	2	80(180)	B	70	50	

Model	DN	L	K	C	ΦD	Φd	N-ΦF	ΦG	H
2W160-15SF	15	106	11	2	95	45	4-Φ14	65	148
2W200-20SF	20	108	12	2	102	55	4-Φ14	75	155
2W250-25SF	25	140	13	2	108	65	4-Φ14	85	165
2W320-32SF	32	148	14	2	132	78	4-Φ18	100	200
2W400-40SF	40	158	15	2	142	85	4-Φ18	110	210
2W500-50SF	50	185	16	2	158	100	4-Φ18	125	228
2W-65SF	65	252	18	3	185	115	4-Φ18	145	250
2W-80SF	80	275	19	3	198	130	4-Φ18	160	265
2W-100SF	100	343	21	3	220	160	8-Φ18	180	295

Profile size of Flange connecting



2W (UW) Stainless steel series water(hot water) & gas solenoid valve. Normally Open



2W160-15SK



2W250-25SK



2W320-32SK



2W500-50SK

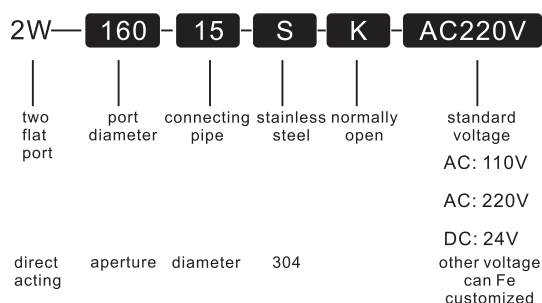


2W250-25SFK

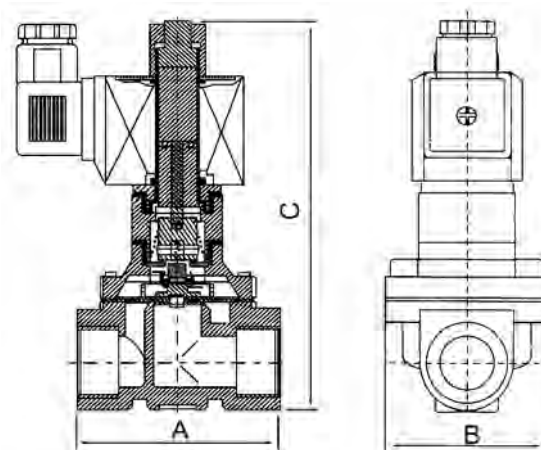


2W500-50SFK

Ordering code



Inside structure and profile size



Data

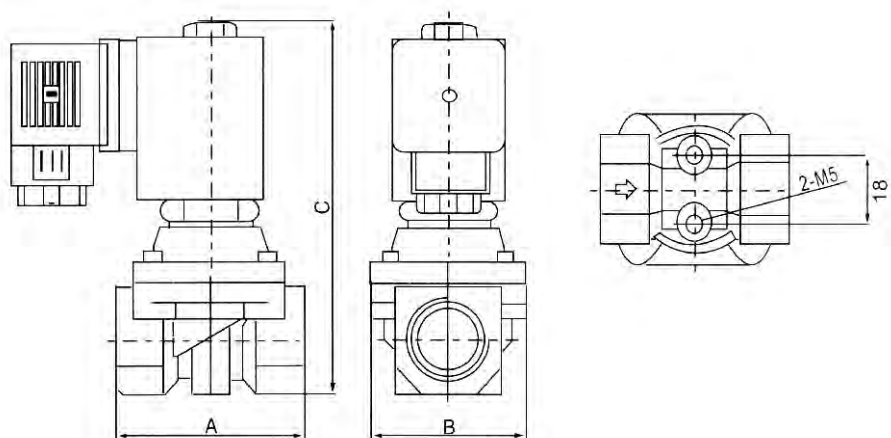
Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure							Max Temperature of Fluid ℃ NBR/ VITON	Coil Data			SIZE LxWxH AxBxC						
				Min Pressure	Max pressure							Coil Class	Power								
					Air Mashgas		Watre hot water Liquid		light oil ≤ 20CST				VA	W							
																AC	DC	AC	DC	AC	DC
2W025-08SK	1/4"	2.5	0.23	0	8	8	8	8	6	4	80(180)	F	22	17	40X28X86						
2W040-10SK	3/8"	4	0.6	0	4	4	4	4	4	4	80(180)	F	30	30	42X28X116						
2W160-10SK	3/8"	16	4.8	0	8	8	8	8	4	4	80(180)	F	30	30	68X57X128						
2W160-15SK	1/2"	16	4.8	0	8	8	8	8	4	4	80(180)	F	30	30	68X57X128						
2W200-20SK	3/4"	20	7.6	0	8	8	8	8	4	4	80(180)	F	30	30	72X57X134						
2W250-25SK	1"	25	12	0	8	8	8	8	4	4	80(180)	F	30	30	98X76X145						
2W320-32SK	1 1/4"	30	22	0	8	8	8	8	4	4	80(180)	F	30	30	96X76X150						
2W320-32SK	1 1/4"	32	24	0	6	6	6	6	4	4	80(180)	F	35	30	115X86X165						
2W400-40SK	1 1/2"	40	29	0	6	6	6	6	4	4	80(180)	F	35	30	120X93X175						
2W500-50SK	2"	46	46	0	6	6	6	6	4	4	80(180)	F	35	30	120X94X186						
2W500-50SK	2"	50	48	0	6	6	6	6	4	4	80(180)	F	30	30	168X123X196						
2W160-15SFK	Flange connecting	15	4.8	0	8	8	8	8	4	4	80(180)	F	30	30	106X95X165						
2W200-20SFK		20	7.6	0	8	8	8	8	4	4	80(180)	F	30	30	108X102X168						
2W250-25SFK		25	12	0	8	8	8	8	4	4	80(180)	F	35	30	140X108X178						
2W320-32SFK		32	24	0	6	6	6	6	4	4	80(180)	F	35	30	148X132X208						
2W400-40SFK		40	29	0	6	6	6	6	4	4	80(180)	F	35	30	158X142X215						
2W500-50SFK		50	49	0	6	6	6	6	4	4	80(180)	F	35	30	185X158X245						

XS-A series 2/2 way (normally closed) solenoid valve



XS-A-15

Inside structure and profile size



Product features

- Suitable medium: water, gas, liquid etc
- Max pressure: 25kgf/cm²
- Working Pressure: 0~20 kgf/cm²
- Ambient temp: -10℃~50℃
- Medium temp: -5℃~80℃
- Voltage: AC220V/110V/ 50/60Hz DC24V/12V/36V
- Valve Body material: Brass forged
- Coil type: Plastic coil IP65
- Insulation level: F

Data

Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure							Max Temperature of Fluid ℃	Coil Data			SIZE LxWxH AxBxC
				Min Pressure	Max pressure							Coil Class	Power		
					Air Mashgas		Watre hot water Liquid		light oil ≤ 20CST				VA	W	
AC	DC	AC	DC	AC	DC	NBR/ VITON	AC 220 V	DC 24 V							
XS-A-08	1/4"	10	1.9	0	20	16	20	16	20	16	80(180)	F	22	15	50X41X108
XS-A-10	3/8"	10	2.4	0	20	16	20	16	20	16	80(180)	F	22	15	50X41X108
XS-A-15	1/2"	10	2.4	0	20	16	20	16	20	16	80(180)	F	22	15	50X41X108

XSE Series 2/2 way high pressure solenoid valve



XSE-A-1.5



XSE-B-1.5



XSE-15



XSE-25

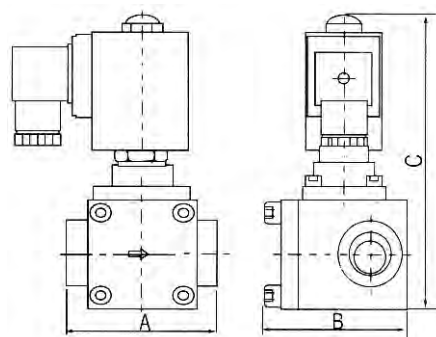


XSE-15S

Product features

- Suitable medium: Liquid, gas, light oil (Viscosity $\leq 20\text{Cst}$)
- Ambient temperature: $-10^{\circ}\text{C} - 50^{\circ}\text{C}$
- Working voltage: AC220V/110V 50/60Hz DC24V
- IP65 H insulation, other voltage can be customized
- Voltage tolerance: AC110 AC220 $-15\% \sim +10\%$ DC or AC under 36V: $\pm 10\%$
- Working pressure: 0~170 bar (refer to below sheet)
- Sealing material: PTFE
- Body material: SS304, Brass
- Connecting Type: G thread
- Optional: Nass Coil of Germany LED indicator plug

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working Pressure							Max Temper- ature of Fluid ℃	Coil Data			SIZE LxWxH AxBxC
				Min working pressure	Max working pressure							Coil Class	Power		
					Air Mashqas		Water Liquid		Light oil ≤ 20CST				VA	W	
													AC 220 V	DC 24 V	
XSE-A-1	1/8" or 1/4"	1.0	0.04	0	170	110	170	110	150	100	110	H	30	30	44X25X88
XSE-A-1.5		1.5	0.08	0	130	120	130	120	120	80	110	H	30	30	44X25X88
XSE-A-2		2	0.15	0	90	60	90	60	80	50	110	H	30	30	44X25X88
XSE-A-2.5		2.5	0.20	0	60	40	60	40	50	30	110	H	30	30	44X25X88
XSE-A-3	3/8"	3	0.25	0	40	30	40	30	30	20	110	H	30	30	44X25X88
XSE-B-1	1/8" or 1/4"	1	0.04	0	170	110	170	110	150	100	110	H	30	30	48X49X92
XSE-B-1.5		1.5	0.08	0	130	120	130	120	120	80	110	H	30	30	48X49X92
XSE-B-2		2	0.15	0	90	60	90	60	80	50	110	H	30	30	48X49X92
XSE-B-2.5		2.5	0.20	0	60	40	60	40	50	30	110	H	30	30	48X49X92
XSE-B-3	3/8"	3	0.25	0	40	30	40	30	30	20	110	H	30	30	48X49X92
XSE-10	3/8"	15	3.5	6	150	120	150	120	120	100	110	H	33	25	70X65X140
XSE-15	1/2"	15	4.7	6	150	120	150	120	120	100	110	H	33	25	70X65X140
XSE-20	3/4"	20	7.0	6	150	120	150	120	120	100	110	H	33	25	80X75X145
XSE-25	1"	25	11	6	150	120	150	120	120	100	110	H	33	25	90X88X152
XSE-10S	3/8"	15	3.5	6	150	120	150	120	120	100	110	H	33	25	70X65X140
XSE-15S	1/2"	15	4.7	6	150	120	150	120	120	100	110	H	33	25	70X65X140
XSE-20S	3/4"	20	7.0	6	150	120	150	120	120	100	110	H	33	25	80X75X145
XSE-25S	1"	25	11	6	150	120	150	120	120	100	110	H	33	25	90X88X152

XSBD Series 2/2 way piston middle pressure solenoid valve.



XSBD-015-08



XSBD2400-06



XSBD2400-08

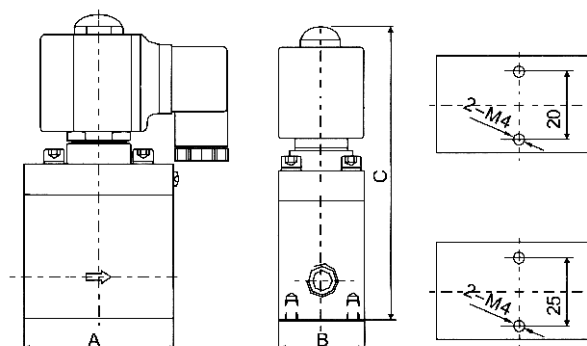


XSBD2400-12

Product features

- Suitable medium: liquid, gas
- Medium temp: $-5^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- Ambient temp: $-10^{\circ}\text{C} \sim 65^{\circ}\text{C}$
- Action type: Direct acting DN1.5~2.5, Pilot operated DN6~12
- Sealing material: VITON for Direct acting, PTFE for pilot operated
- Valve body material: Brass, SS304, Brass (When $\text{DN} \geq 6$)
- Coil data: AC220V/110V 50/60Hz Direct acting 28VA, Pilot operated 22VA, DC24V/12V Direct acting 18W
- Optional: Nass Coil of Germany LED indicator plug

Inside structure and profile size



Data

Model	Thread G	Orifice mm	Cv value	Working pressure bar		Coil insulation Level	Max medium temperature	LxWxH AxBxC	Working method
				AC220V	DC24V				
XSBD015-08	1/4"	1.5	0.06	0~40	0~40	F	80	40X28X88	Normally Closed
XSBD020-08	1/4"	2.0	0.12	0~30	0~30	F	80	40X28X88	
XSBD025-08	1/4"	2.5	0.2	0~25	0~25	F	80	40X28X88	
XSBD2400-06	1/4"	6	0.8	1~60	1~50	F	80	48X30X114	
XSBD2400-08	3/8"	8	1.1	1~60	1~50	F	80	48X30X114	
XSBD2400-12	1/2"	12	2.2	1~60	1~50	F	80	60X35X122	Normally Open
XSBD015-08K	1/4"	1.5	0.06	0~20	0~16	F	80	40X28X91	
XSBD020-08K	1/4"	2.0	0.12	0~12	0~10	F	80	40X28X91	
XSBD025-08K	1/4"	2.5	0.2	0~8	0~6	F	80	40X28X91	
XSBD2400-06K	1/4"	6	0.8	1~25	1~20	F	80	48X30X117	
XSBD2400-08K	3/8"	8	1.1	1~25	1~20	F	80	48X30X117	
XSBD2400-12K	1/2"	12	2.2	1~25	1~20	F	80	60X35X125	

XSGW Series 2/2 way high temperature solenoid valve



XSGW-15



XSGW-20



XSGW-25

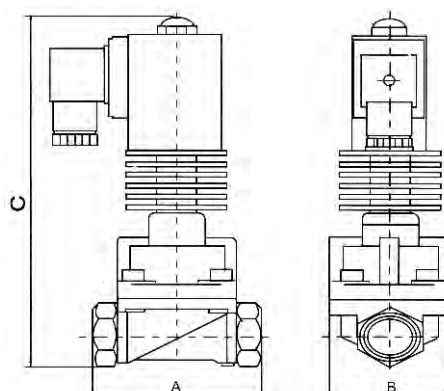


XSGW-15S

Product features

- Suitable medium: high temperature gas, heat conduct oil
- Medium temp: -5℃~300℃(With radiating fin)
- Action type: Pilot operated
- Working pressure: Normally closed 0.5 ~20bar
- Valve body material: brass(forged),stainless steel(precision casting)
- Diaphragm sealing,material: Teflon+Metal
- Coil Protection level: Plastic coil IP65

Inside structure and profile size



Data

Model	Thread Connecting G	Orifice mm	Cv value	Working pressure			Coil data			Max medium tempertaure	LxWxH AxBxC
				Min working pressure	Maxworking pressure		Coil Class	power			
					Steam oil	Heat Conduct		VA	W		
								AC 220 V	DC 24 V		
XSGW-10	3/8"	15	4.8	0.5	20	20	F	24	18	300	80X55X185
XSGW-15	1/2"	15	4.8	0.5	20	20	F	24	18	300	80X55X185
XSGW-20	3/4"	20	9	0.5	20	20	F	24	18	300	85X59X195
XSGW-25	1"	25	13	0.5	20	20	F	24	18	300	100X68X208
XSGW-10S	3/8"	15	4.8	0.5	20	20	F	24	18	300	70X48X178
XSGW-15S	1/2"	15	4.8	0.5	20	20	F	24	18	300	70X48X178
XSGW-20S	3/4"	20	9	0.5	20	20	F	24	18	300	78X54X192
XSGW-25S	1"	25	13	0.5	20	20	F	24	18	300	98X70X205

XSP Series 2/2 way steam solenoid valve



XSP-15



XSP-20



XSP-25

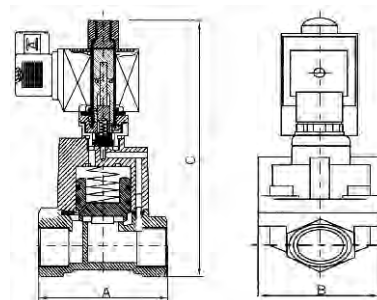


XSP-15S

Product features

- Suitable medium: steam ,hot water,water,light oil,air
- Medium temp: -5℃- 200℃
- Action type: pilot operated type
- Working status: normally closed / normally open
- Valve body material: brass(forged),stainless steel(precision casting)
- Piston sealing,material: Teflon
- Coil Protection level: Plastic coil IP65

Inside structure and profile size



Data

Model	Thread Connecting G	Orifice mm	Cv Value	Working pressure								Coil Data			SIZE LxWxH AxBxC	
				Min Pressure	Max pressure								Coil Class	Power		
					Air Mashgas		watre hot water Liquid		Light oil ≤ 20CST		Steam			VA		W
					AC	DC	AC	DC	AC	DC	AC	DC		AC 220 V		DC 24 V
XSP-10	3/8"	15	4.8	0.5	25	20	25	20	20	20	10	10	F	24	18	80X55X142
XSP-15	1/2"	15	4.8	0.5	25	20	25	20	20	20	10	10	F	24	18	80X55X142
XSP-20	3/4"	20	9	0.5	25	20	25	20	20	20	10	10	F	24	18	85X59X155
XSP-25	1"	25	1.3	0.5	25	20	25	20	20	20	10	10	F	24	18	100X68X168
XSP-10S	3/8"	15	4.8	0.5	25	20	25	20	20	20	10	10	F	24	18	70X48X138
XSP-15S	1/2"	15	4.8	0.5	25	20	25	20	20	20	10	10	F	24	18	70X48X138
XSP-20S	3/4"	20	9	0.5	25	20	25	20	20	20	10	10	F	24	18	78X54X150
XSP-25S	1"	25	13	0.5	25	20	25	20	20	20	10	10	F	24	18	98X70X162
XSP-10K	3/8"	15	4.8	0.5	10	10	10	10	10	10	10	10	F	30	30	80X55X140
XSP-15K	1/2"	15	4.8	0.5	10	10	10	10	10	10	10	10	F	30	30	80X55X140
XSP-20K	3/4"	20	9	0.5	10	10	10	10	10	10	10	10	F	30	30	85X59X152
XSP-25K	1"	25	13	0.5	10	10	10	10	10	10	10	10	F	30	30	100X68X165
XSP-10SK	3/8"	15	4.8	0.5	10	10	10	10	10	10	10	10	F	30	30	70X48X135
XSP-15SK	1/2"	15	4.8	0.5	10	10	10	10	10	10	10	10	F	30	30	70X48X135
XSP-20SK	3/4"	20	9	0.5	10	10	10	10	10	10	10	10	F	30	30	78X54X148
XSP-25SK	1"	25	13	0.5	10	10	10	10	10	10	10	10	F	30	30	98X70X148

XSG series 2/2 way high pressure diaphragm solenoid valve.



XSG-15



XSG-20

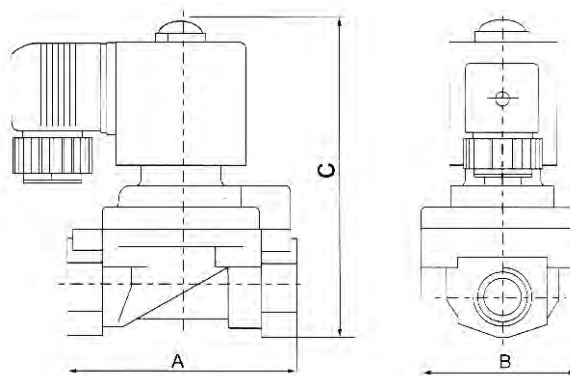


XSG-25

Product features

- Suitable medium: Gas or fluid
- Medium temp: -10℃~80℃
- Action type: pilot operated type
- Working status: normally closed 1~70bar
- Valve body material: brass (forged)
- Diaphragm sealing material: Teflon
- Coil Protection level: Plastic coil IP65

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working pressure		Coil Data			Max medium tempertaure	LxWxH AxBxC
				Min working pressure	Max working pressure	Coil Class	Power			
							VA	W		
							AC 220 V	DC 24 V		
XSG-10	3/8"	15	4.8	1	70	F	24	18	80	78X52X122
XSG-15	1/2"	15	4.8	1	70	F	24	18	80	78X52X122
XSG-20	3/4"	20	7.6	1	70	F	24	18	80	80X52X126
XSG-25	1"	25	12	1	70	F	24	18	80	96X67X142

ZBSF Series SS304 solenoid valve



ZBSF-40SF



ZBSF-50SF



ZBSF-65SF

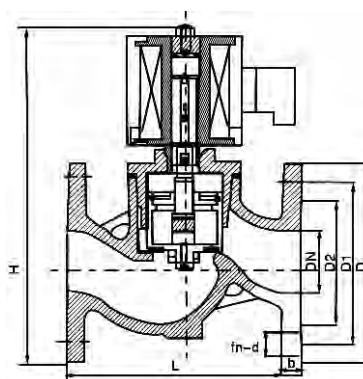
Applicable area

- Applicable to anti-corrosion liquid, pure fluid, edible fluid and vacuum pipeline, steam, high temperature oil, hot water, water, gas etc, widely used in chemical, pharmacy, food, plastics etc industry.

Feature of structure

- Electromagnetic indirect acting piston type.
- Valve core uses the lubrication of fluid to decrease wear.
- Valve cover use thread connect and detach which is easy to maintain.
- Simple and compact structure, change the coil without detaching the body.
- Long time working in special occasion, temperature of medium up to 200°C.

Inside structure and profile size



Technical data

Model	ZBSF-1F	ZBSF-2F	ZBSF-1YF		ZBSF-2YF	
Working pressure	0~1.6					
Medium	Corrosive gas, coal gas, vacuum	Middle temp of gas	Pure fluid		Middle temp of fluid	
Medium temp	≤60	≤220	≤60		≤220	
Voltage	AC220V DC24V Other specification can be customized					
CN	15	20	25	32	40	50
Flow coefficient	3.8	7.4	10.3	18.8	25.7	41
Power	AC≤60VA DC≤50W					

Flange connect size

Model	DN	L	H	D	D1	D2	b	fn-d
ZBSF-10S	10	115	148	Φ90	Φ60	Φ41	14	4-Φ14
ZBSF-15S	15	115	148	Φ95	Φ65	Φ46	14	4-Φ14
ZBSF-20S	20	115	148	Φ105	Φ75	Φ56	14	4-Φ14
ZBSF-25S	25	125	190	Φ115	Φ85	Φ65	14	4-Φ14
ZBSF-32S	32	150	240	Φ140	Φ100	Φ76	18	4-Φ18
ZBSF-40S	40	160	215	Φ145	Φ110	Φ84	18	4-Φ18
ZBSF-50S	50	190	230	Φ155	Φ125	Φ99	19	4-Φ18
ZBSF-65S	65	250	302	Φ180	Φ145	Φ118	18	4-Φ18
ZBSF-80S	80	272	312	Φ195	Φ160	Φ132	20	8-Φ18
ZBSF-100S	100	322	332	Φ215	Φ185	Φ156	21	8-Φ18
ZBSF-125S	125	400	385	Φ250	Φ210	Φ184	22	8-Φ18
ZBSF-150S	150	410	420	Φ285	Φ240	Φ211	24	8-Φ22

■ PU series water, hotwater ,gas solenoid valve



PU-15



PU-20S

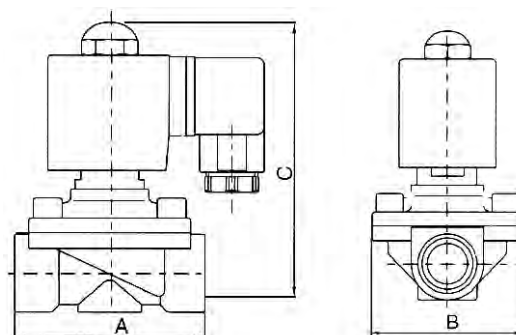


PU-40S

■ Product features

- Suitable medium: liquid.water. hot water. gas,mashgas.oil ($\leq 20^{\circ}\text{CST}$)
- Medium temp: -5°C – 80°C
- Action type: direct acting type ,indirect acting type
- Working status: normally closed / normally open
- Valve body material: SS304,forged copper
- Diaphragm sealing material: NBR,EPDM,VITON
- Coil Protection level: Plastic coil IP65, iron coil IP54

■ Inside structure and profile size



■ Data

Model	Thread Connecting G	Orifice mm	Cv Value	Working pressure				Max Temperature of Fluid °C NBR/ VITON	Coil Data			SIZE
				Min Pressure	Max pressure				Coil Class	Power		
					Air Mashgas	watre hot water Liquid	light oil ≤ 20CST			VA	W	LxWxH
					AC /DC	AC /DC	AC /DC			AC 220 V	DC 24 V	AxBxC
PU-10	3/8"	15	4.8	0	16	16	8	80(180)	F	30	30	64X48X95
PU-15	1/2"	15	4.8	0	16	16	8	80(180)	F	30	30	64X48X95
PU-20	3/4"	20	7.6	0	16	16	8	80(180)	F	30	30	74X57X105
PU-25	1"	25	12	0	16	16	8	80(180)	F	30	30	98X72X108
PU-32	1 1/4"	36	24	0	16	16	8	80(180)	F	35	30	130X95X158
PU-40	1 1/2"	36	30	0	16	16	8	80(180)	F	35	30	130X95X158
PU-50	2"	50	48	0	16	16	8	80(180)	F	35	30	150X110X178
PU-10S	3/8"	14	4.7	0	16	16	8	80(180)	F	30	30	70X48X95
PU-15S	1/2"	14	4.7	0	16	16	8	80(180)	F	30	30	70X48X95
PU-20S	3/4"	19	7.6	0	16	16	8	80(180)	F	30	30	78X54X105
PU-25S	1"	25	12	0	16	16	8	80(180)	F	30	30	98X72X118
PU-32S	1 1/4"	36	24	0	16	16	8	80(180)	F	35	30	120X90X158
PU-40S	1 1/2"	36	30	0	16	16	8	80(180)	F	35	30	120X90X158
PU-50S	2"	49	48	0	16	16	8	80(180)	F	35	30	155X123X178

2L (US) series 2/2 way piston steam solenoid valve



2L-15S



2L-25S



2L-40

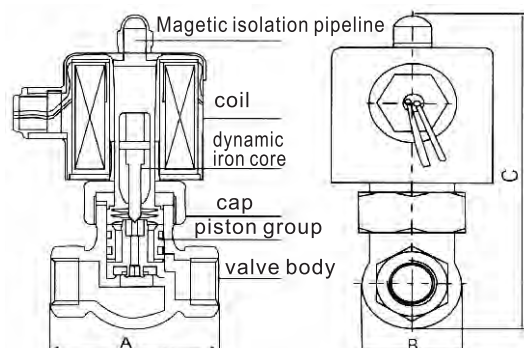


2L-50F

Product features

- Suitable medium: steam, gas, water
- Medium temp.: -5°C- 200°C
- Action type: Pilot operated type
- Working pressure: 0.5 - 16 bar
- Valve body material: Brass(casted), Stainless steel (precision casting) Forged copper
- Piston type sealing, material: Teflon
- Coil Protection level: Iron clad coil IP54
- Coil power: 50VA(AC), 30W(DC)

Internal structure & profile size figure



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 be installed in level and the coil should be upwards to make the function of open-close reliable.
- Sealing element is made by teflon, it is suitable for different liquids.

Data

Model	Pipe Conn-ection	Orifice mm	Cv Value	Working pressure		SIZE LxWxH AxBxC	Body material
				AC220V	DC24V		
2L-15	17	1/2"	4.8	0.5~16	0.5~16	80X35X140	Brass
2L-20	17	3/4"	4.8	0.5~16	0.5~16	80X40X145	
2L-25	20	1"	12	0.5~16	0.5~16	86X46X155	
2L-32	30	1 1/4"	22	0.5~16	0.5~16	110X63X162	
2L-40	30	1 1/2"	22	0.5~16	0.5~16	110X63X170	
2L-50	40	2"	30	0.5~16	0.5~16	118X76X192	
2L-15S	17	1/2"	4.8	0.5~16	0.5~16	80X42X145	SUS 304
2L-20S	17	3/4"	4.8	0.5~16	0.5~16	80X42X145	
2L-25S	20	1"	12	0.5~16	0.5~16	90X52X158	
2L-32S	30	1 1/4"	22	0.5~16	0.5~16	110X67X175	
2L-40S	30	1 1/2"	22	0.5~16	0.5~16	110X69X175	
2L-50S	40	2"	30	0.5~16	0.5~16	118X82X192	
2L-20F	17	4-Φ14hole Φ75	4.8	0.5~16	0.5~16	110X100X178	Brass
2L-25F	20	4-Φ14hole Φ85	12	0.5~16	0.5~16	110X110X190	
2L-32F	30	4-Φ18hole Φ100	22	0.5~16	0.5~16	130X132X205	
2L-40F	30	4-Φ18hole Φ110	22	0.5~16	0.5~16	130X142X210	
2L-50F	40	4-Φ18hole Φ125	30	0.5~16	0.5~16	140X152X235	

ZCZ Series 2/2 way piston steam solenoid valve

Inside structure and profile size



ZCZ-15



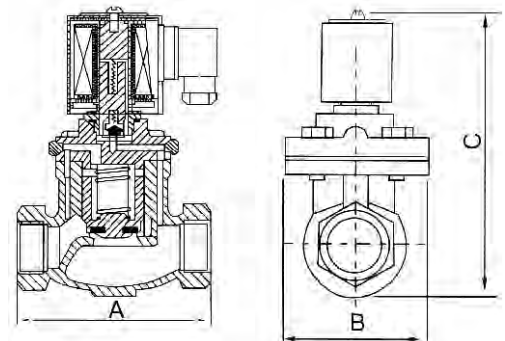
ZCZ-40



ZCZ-50SF



ZCZ-100F



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.

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.

Product features

- Suitable medium: steam, gas, water, oil ($\leq 20\text{CST}$)
- Medium temp.: $-5^{\circ}\text{C} - 200^{\circ}\text{C}$
- Action type: pilot operated type
- Working status: Normally closed / Normally open
- Valve body material: Brass (casted), Cast iron, SUS304
- Piston type sealing, material: Teflon
- Coil Protection level: Iron coil IP54
- Coil Power: 22VA(AC), 17W(DC)

Data

Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure(bar)				SIZE LxWxH AxBxC	Body material
				Normally Closed		Normally Open			
				AC220V	DC24V	AC220V	DC24V		
ZCZ-15	17	1/2"	3.1	0.4~12	0.4~10	0.4~0.8	0.4~0.8	80X60X145	Brass
ZCZ-20	17	3/4"	5	0.4~12	0.4~10	0.4~0.8	0.4~0.8	80X60X145	
ZCZ-25	22	1"	9.5	0.4~12	0.4~10	0.4~0.8	0.4~0.8	80X71X155	
ZCZ-32	30	1 1/4"	12	0.4~12	0.4~10	0.4~0.8	0.4~0.8	110X80X175	
ZCZ-40	30	1 1/2"	21	0.4~12	0.4~10	0.4~0.8	0.4~0.8	110X80X175	
ZCZ-50	40	2"	30	0.4~12	0.4~10	0.4~0.8	0.4~0.8	118X90X190	
ZCZ-20F	17	Flange connecting	5	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-25F	22		9.5	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-32F	30		12	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-40F	30		21	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-50F	40		30	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-65F	65		45	0.4~10	0.4~10	-----	-----		
ZCZ-80F	80		70	0.4~10	0.4~10	-----	-----		
ZCZ-100F	100		100	0.4~10	0.4~10	-----	-----		
ZCZ-25SF	25		9.5	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-32SF	40		12	0.4~12	0.4~10	0.4~0.8	0.4~0.8		
ZCZ-40SF	40	21	0.4~12	0.4~10	0.4~0.8	0.4~0.8			
ZCZ-50SF	50	30	0.4~12	0.4~12	0.4~0.8	0.4~0.8			

ZCZ Series 2/2 way piston steam solenoid valve



ZCZ-25F



ZCZ-40F



ZCZ-50F



ZCZ-50SF

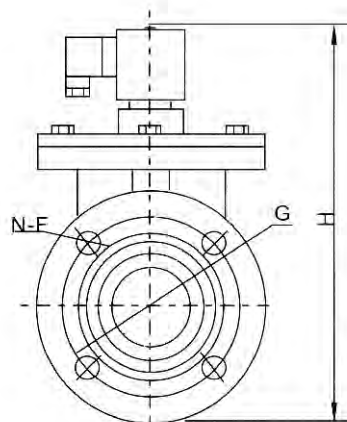
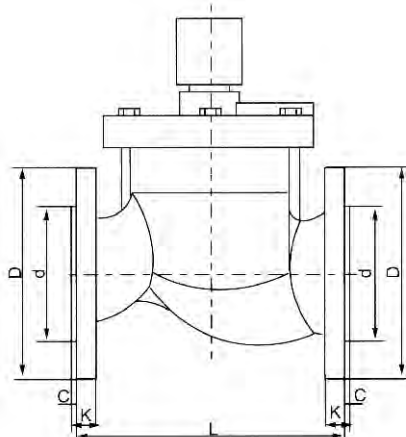


ZCZ-80F



ZCZ-100F

Flange connecting profile size



Model	Flange connecting size(mm)									Body material
	DN	L	K	C	ΦD	Φd	N-ΦF	ΦG	H	
ZCZ-20F	25	124	13	2	100	55	4-Φ14	75	190	Brass
ZCZ-25F	25	124	13	2	110	65	4-Φ14	85	195	
ZCZ-32F	40	138	13	2	132	75	4-Φ18	100	210	
ZCZ-40F	40	138	13	2	142	85	4-Φ18	110	115	
ZCZ-50F	50	152	15	3	152	100	4-Φ18	125	225	
ZCZ-65F	65	265	23	3	185	115	4-Φ18	145	375	Cast Iron
ZCZ-80F	80	285	23	3	200	130	4-Φ18	160	388	
ZCZ-100F	100	328	28	3	220	160	8-Φ18	180	420	
ZCZ-25SF	25	124	13	2	110	65	4-Φ18	85	190	SUS 304
ZCZ-32SF	32	134	13	2	132	75	4-Φ18	100	210	
ZCZ-40SF	40	134	13	2	142	85	8-Φ18	110	215	
ZCZ-50SF	50	150	15	3	152	100	4-Φ18	125	225	

ZQDF series steam solenoid valve



ZQDF-15S



ZQDF-25

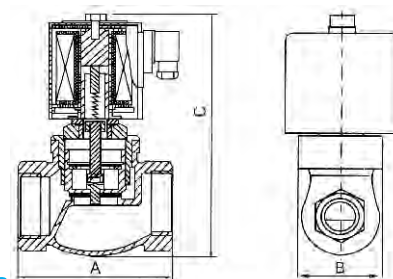


ZQDF-40



ZQDF-50S

Inside structure and profile size



Product features

- Suitable medium: steam, liquid, gas, oil ($\leq 20\text{CST}$)
- Medium temp.: $-5^{\circ}\text{C} - 200^{\circ}\text{C}$
- Working pressure: 0 ~ 10 bar
- Valve body material: brass (forged), stainless steel (precision casting), copper
- Piston type sealing, material: Teflon
- Coil Protection level: iron 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

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.

Data

Model	Pipe Conn-ection	Orifice mm	Cv Value	Working pressure	Coil power		SIZE LxWxH AxBxC	Body material
					VA	W		
					AC220V	DC24V		
ZQDF-15	17	1/2"	3.7	0~10	35	30	80X35X140	Brass
ZQDF-20	17	3/4"	3.7	0~10	35	30	80X40X145	
ZQDF-25	22	1"	8.0	0~10	35	30	86X46X155	
ZQDF-32	30	1 1/4"	14	0~10	35	30	110X64X165	
ZQDF-40	30	1 1/2"	20	0~10	35	30	110X64X170	
ZQDF-50	40	2"	30	0~10	70	50	118X76X205	
ZQDF-15S	17	1/2"	3.7	0~10	35	30	80X42X145	SUS 304
ZQDF-20S	17	3/4"	3.7	0~10	35	30	80X42X148	
ZQDF-25S	20	1"	8.0	0~10	35	30	90X52X158	
ZQDF-32S	30	1 1/4"	14	0~10	35	30	110X67X175	
ZQDF-40S	30	1 1/2"	20	0~10	35	30	110X69X178	
ZQDF-50S	40	2"	30	0~10	70	50	118X82X210	
ZQDF-20F	22	Flange connecting	3.7	0~10	35	30		Brass
ZQDF-25F	22		8.0	0~10	35	30		
ZQDF-32F	30		14	0~10	35	30		
ZQDF-40F	30		20	0~10	35	30		
ZQDF-50F	40		30	0~10	35	30		
ZQDF-25SF	25		12	0~8	70	50		SUS 304
ZQDF-32SF	40		18	0~8	70	50		
ZQDF-40SF	40		24	0~8	70	50		
ZQDF-50SF	50		35	0~8	70	50		
ZQDF-25AF	25		12	0~8	70	50		Brass
ZQDF-32AF	40		18	0~8	70	50		
ZQDF-40AF	40		24	0~8	70	50		
ZQDF-50AF	48		32	0~8	70	50		

ZQDF series steam solenoid valve



ZQDF-20F



ZQDF-25AF



ZQDF-25SF

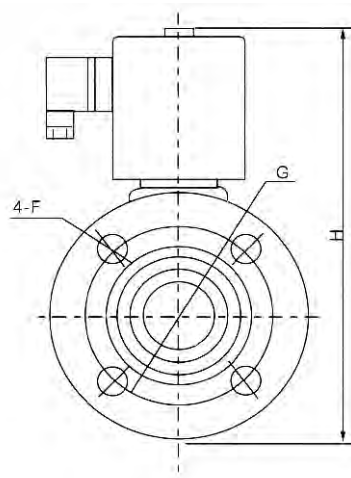
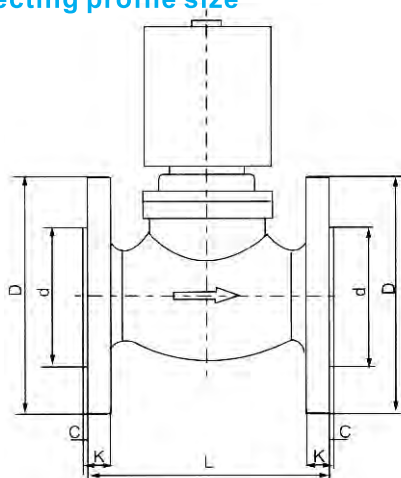


ZQDF-40F



ZQDF-50AF

Flange connecting profile size



Model	Flange connecting size(mm)									Body material
	DN	L	K	C	ΦD	Φd	N-ΦF	ΦG	H	
ZQDF-20F	22	110	12	2	110	55	4-Φ14	75	178	Brass
ZQDF-25F	22	110	12	2	110	65	4-Φ14	85	190	
ZQDF-32F	30	130	13	2	132	75	4-Φ18	100	210	
ZQDF-40F	30	130	13	2	142	85	4-Φ18	110	215	
ZQDF-50F	40	140	13	2	152	100	4-Φ18	125	248	
ZQDF-25SF	25	124	13	2	110	65	4-Φ14	85	215	SUS 304
ZQDF-32SF	40	134	13	2	132	75	4-Φ18	100	240	
ZQDF-40SF	40	134	13	2	142	85	4-Φ18	110	245	
ZQDF-50SF	50	150	14	2	152	100	4-Φ18	125	255	
ZQDF-25AF	25	124	13	2	110	65	4-Φ14	85	220	Brass
ZQDF-32AF	40	138	13	2	132	75	4-Φ18	100	243	
ZQDF-40AF	40	138	13	2	142	85	4-Φ18	110	248	
ZQDF-50AF	48	152	13	2	152	100	4-Φ18	125	258	

DF(ZCS)series 2/2 way diaphragm liquid solenoid valve



DN-15



DF-25



DF-25K



DF-40

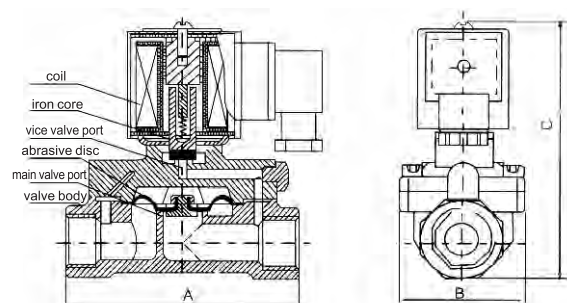


DF-50

Product features

- Suitable medium: liquid, gas, oil ($\leq 20\text{CST}$)
- Medium temp: $-5^{\circ}\text{C} - 80^{\circ}\text{C}$
- Action type: pilot operated type
- Working status: normally closed/ normally open
- Valve body material: brass(forged), cast iron, SS304
- Diaphragm sealing, material: NBR, VITON
- Coil Protection level: Plastic coil IP65, iron coil IP54

Internal structure and profile size figure



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 $\geq 80\text{mesh/cm}^2$).

Flange connecting size

Model	DN	L	K	C	ΦD	Φd	N- ΦF	ΦG	H
DF-40F	40	165	17	2	145	85	4- $\Phi 14$	110	202
DF-50F	50	200	17	2	160	100	4- $\Phi 14$	125	222
DF-65F	65	250	21	2	185	110	4- $\Phi 18$	145	270
DF-80F	80	275	22	2	198	130	4- $\Phi 18$	160	298
DF-100F	100	348	22	3	215	160	8- $\Phi 18$	180	300
DF-125F	125	405	25	3	250	180	8- $\Phi 18$	210	390
DF-150F	150	450	28	3	285	210	8- $\Phi 22$	240	428
DF-65SF	65	252	18	3	185	115	4- $\Phi 18$	145	250
DF-80SF	80	275	19	3	198	130	4- $\Phi 18$	160	265
DF-100SF	100	343	21	3	220	160	8- $\Phi 18$	180	295



DF-50F



DF-65SF



DF-65F

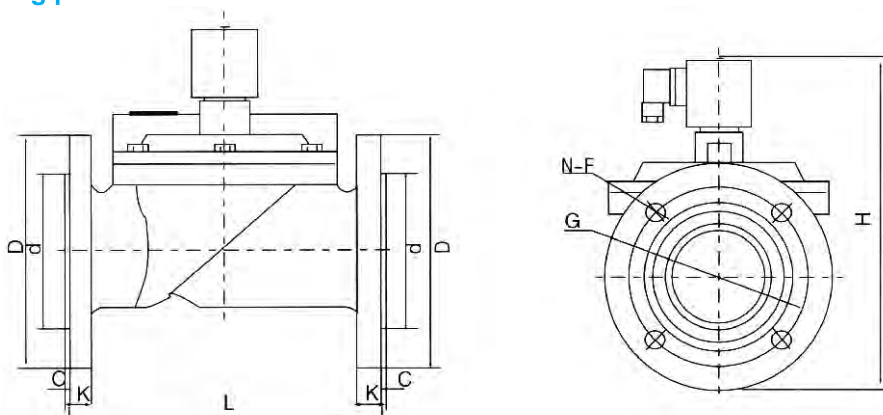


DF-100SF



DF-150 F

■ Flange connecting profile size



■ Data

Model	Pipe Conn- ection	Orifice mm	CV Value	Coil data			Working pressure				SIZE LXWXH AXBXC	Body material
				Coil Class	Power		Normally closed		normally open			
					VA	W	AC	DC	AC	DC		
					AC 220 V	DC 24 V						
DF-15	1/2"	15	4.5	F	22	17	0.3~16	0.3~10	0.3~10	0.3~8	85X53X117	Brass
DF-20	3/4"	20	7.2	F	22	17	0.3~16	0.3~10	0.3~10	0.3~8	90X58X120	
DF-25	1"	25	11	F	22	17	0.3~16	0.3~10	0.3~10	0.3~8	110X72X130	
DF-32	1 1/4"	32	14	F	22	17	0.3~16	0.3~8	0.3~10	0.3~8	144X94X152	
DF-40	1 1/4"	40	24	F	22	17	0.3~16	0.3~8	0.3~10	0.3~8	144X94X152	
DF-50	2"	50	35	F	22	17	0.3~16	0.3~8	0.3~10	0.3~8	175X128X170	
DF-40F	Flange connecting	40	24	B	20	16	0.3~16	0.3~8	0.3~8	0.3~8		Cast Iron
DF-50F		50	35	B	20	16	0.3~16	0.3~8	0.3~8	0.3~8		
DF-65F		65	52	B	20	16	0.3~16	0.3~8	0.3~8	0.3~6		
DF-80F		80	82	B	20	16	0.3~16	0.3~8	0.3~8	0.3~6		
DF-100F		100	125	B	20	16	0.3~16	0.3~8	0.3~8	0.3~6		
DF-125F		125	220	B	70	50	0.3~16	0.3~8	0.3~6	0.3~6		
DF-150F		150	280	B	70	50	0.3~16	0.3~8	0.3~6	0.3~6		
DF-65SF		65	52	F	30	30	0.3~16	0.3~8	0.3~8	0.3~6		SUS 304
DF-80SF		80	82	F	30	30	0.3~16	0.3~8	0.3~8	0.3~6		
DF-100SF		100	125	F	30	30	0.3~16	0.3~8	0.3~8	0.3~6		

XSD Series 2/2 way pilot operated solenoid valve (Normally closed)



XSD-15



XSD-25S



XSD-40S



XSD-50S

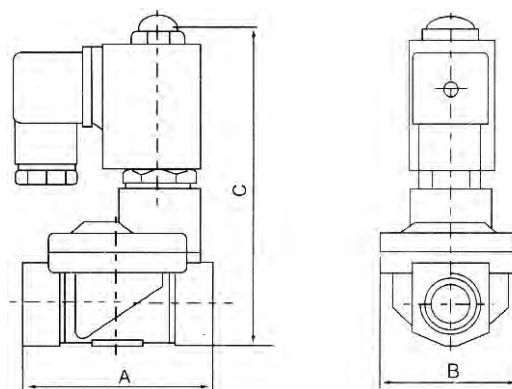


XSD-80S

Product features

- Suitable medium: liquid, water, hot water, gas
- Medium temp: -10°C– 80°C
- Action type: pilot operated type
- Working status: normally closed / normally open
- Valve body material: brass(forged), stainless steel(precision casting)
- Diaphragm sealing, material: NBR, EPDM, VITON
- Coil Protection level: Plastic coil IP65

Inside structure and profile size



Data

Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure							Max Temperature of Fluid °C NBR/ VITON	Coil Data			SIZE LxWxH AxBxC
				Min Pressure	Max pressure							Coil Class	Power		
					Air Mashgas		Watre hot water Liquid		light oil ≤ 20CST				VA	W	
AC	DC	AC	DC	AC	DC	AC 220 V	DC 24 V								
XSD-10	3/8"	13	4.5	0.5	16	16	16	16	13	13	80(180)	F	22	17	64X48X115
XSD-15	1/2"	13	4.5	0.5	16	16	16	16	13	13	80(180)	F	22	17	64X48X115
XSD-20	3/4"	18	7.6	0.5	16	16	16	16	13	13	80(180)	F	22	17	74X57X120
XSD-25	1"	24	12	0.5	16	16	16	16	13	13	80(180)	F	22	17	98X72X132
XSD-32	11/4"	38	28	0.5	16	16	16	16	13	13	80(180)	F	22	17	130X95X145
XSD-40	11/2"	38	30	0.5	16	16	16	16	13	13	80(180)	F	22	17	130X95X145
XSD-50	2"	49	46	0.5	16	16	16	16	13	13	80(180)	F	22	17	150X110X155
XSD-10S	3/8"	14	4.5	0.5	16	16	16	16	13	13	80(180)	F	22	17	70X48X115
XSD-15S	1/2"	14	4.5	0.5	16	16	16	16	13	13	80(180)	F	22	17	70X48X115
XSD-20S	3/4"	19	7.6	0.5	16	16	16	16	13	13	80(180)	F	22	17	78X54X120
XSD-25S	1"	25	12	0.5	16	16	16	16	13	13	80(180)	F	22	17	98X70X140
XSD-32S	11/4"	36	22	0.5	16	16	16	16	13	13	80(180)	F	22	17	120X90X148
XSD-40S	11/2"	36	24	0.5	16	16	16	16	13	13	80(180)	F	22	17	120X90X148
XSD-50S	2"	49	46	0.5	15	15	15	15	12	12	80(180)	F	22	17	155X123X162
XSD-65SF	Flange connecting	65	52	0.5	10	10	10	10	8	6	80(180)	F	30	30	252X185X250
XSD-80SF		80	80	0.5	10	10	10	10	8	6	80(180)	F	30	30	275X198X265
XSD-100SF		100	128	0.5	10	10	10	10	8	6	80(180)	F	30	30	343X230X295

XSD Series 2/2 way pilot operated solenoid valve (Normally Open)



XSD-15SK



XSD-25K



XSD-32SK

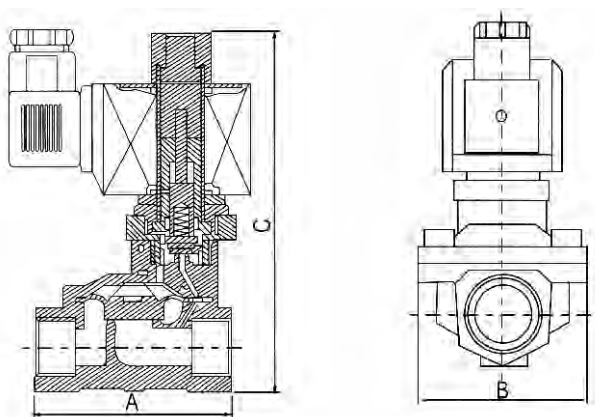


XSD-50SK



XSD-50K

Inside structure and profile size



Data

Model	Pipe Conn- ection	Orifice mm	Cv Value	Working pressure							Max Temperature of Fluid °C NBR/ VITON	Coil Data			SIZE
				Min Pressure	Max pressure							Coil Class	Power		LxWxH
					Air Mashgas		Watre hot water Liquid		light oil ≤ 20CST				VA	W	
AC	DC	AC	DC	AC	DC	AC 220 V	DC 24 V	AxBxC							
XSD-10K	3/8"	13	4.5	0.5	10	10	10	10	8	8	80(180)	F	25	17	64X48X113
XSD-15K	1/2"	13	4.5	0.5	10	10	10	10	8	8	80(180)	F	25	17	64X48X113
XSD-20K	3/4"	18	7.6	0.5	10	10	10	10	8	8	80(180)	F	22	17	74X57X118
XSD-25K	1"	24	12	0.5	10	10	10	10	6	6	80(180)	F	22	17	98X72X130
XSD-32K	1 1/4"	38	28	0.5	8	8	8	8	6	6	80(180)	F	22	17	130X95X143
XSD-40K	1 1/2"	38	30	0.5	8	8	8	8	6	6	80(180)	F	22	17	130X95X143
XSD-50K	2"	49	46	0.5	8	8	8	8	8	8	80(180)	F	22	17	150X110X153
XSD-10SK	3/8"	14	4.5	0.5	10	10	10	10	8	8	80(180)	F	22	17	70X48X113
XSD-15SK	1/2"	14	4.5	0.5	10	10	10	10	8	8	80(180)	F	22	17	70X48X113
XSD-20SK	3/4"	19	7.6	0.5	10	10	10	10	8	8	80(180)	F	22	17	78X54X118
XSD-25SK	1"	25	12	0.5	10	10	10	10	6	6	80(180)	F	22	17	98X70X138
XSD-32SK	1 1/4"	36	22	0.5	8	8	8	8	6	6	80(180)	F	22	17	120X90X146
XSD-40SK	1 1/2"	36	24	0.5	8	8	8	8	6	6	80(180)	F	22	17	120X90X146
XSD-50SK	2"	49	46	0.5	8	8	8	8	6	6	80(180)	F	22	17	155X123X160
XSD-65SFK	Flange connecting	65	52	0.5	8	8	8	8	6	6	80(180)	F	30	30	252X185X272
XSD-80SFK		80	80	0.5	8	8	8	8	6	6	80(180)	F	30	30	275X198X287
XSD-100SFK		100	128	0.5	8	8	8	8	6	6	80(180)	F	30	30	343X230X317

XSFP strong acid alkaline diaphragm anti-corrosion solenoid valve



XSFP-15



XSFP-15K



XSFP-25



XSFP-20 big



XSFP-25 big

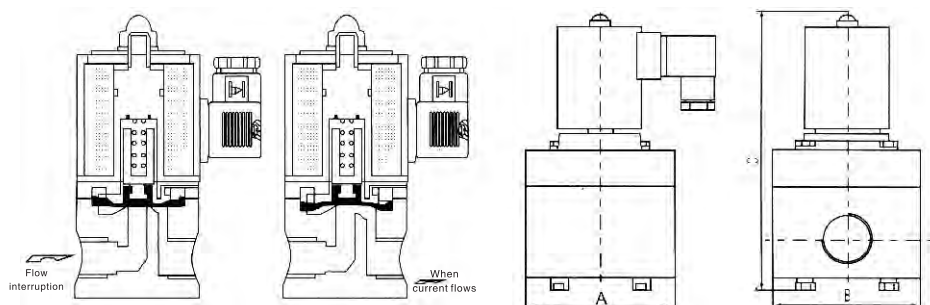
Product features

- Suitable medium: strong acid, strong alkaline ect 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
- Coil Power : 30W

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.

Inside structure and profile size



Data

Model	Thread Connecting G	Orifice mm	Cv value	working pressure	LxWxH
XSFP-10	3/8"	5	0.35	0~2	50X54X108
XSFP-15	1/2"	5	0.35	0~2	50X54X108
XSFP-20	3/4"	5	0.35	0~2	64X68X110
XSFP-25	1"	5	0.35	0~2	73X79X122
XSFP-15big	1/2"	11	3.3	0~1	78X81X148
XSFP-20big	3/4"	11	3.3	0~1	78X81X148
XSFP-25big	1"	11	3.3	0~1	87X95X165
XSFP-15K	1/2"	5	0.35	0~1	50X54X130
XSFP-20K	3/4"	5	0.35	0~1	64X68X135
XSFP-25K	1"	5	0.35	0~1	73X79X150

XSB series 2/2 way solenoid valve



XSB-B-15



XSB-B-25



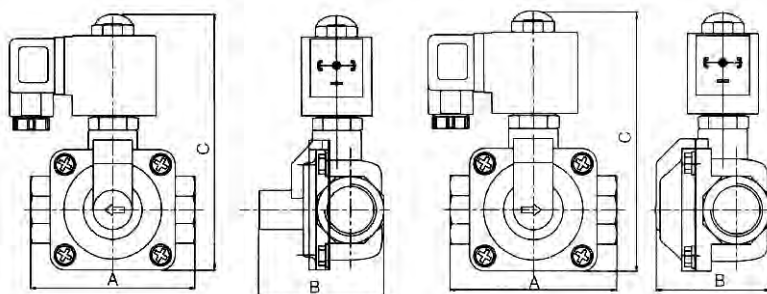
XSB-A-15K



XSB-A-25

Product features

- Suitable medium: water, hotwater, gas
- Medium temp: -5°C– 80°C
- Type: normally closed and normally open.
- Valve body material: brass(forged),stainless steel(precision casting)
- Diaphragm sealing material: NBR ,VITON
- Coil Protection level: Plastic coil IP65



Data

Model	Thread connecting G	Orifice mm	Cv value	Working Pressure								Max Temperature of Fluid NBR/ VITON	Coil Data				SIZE LxWxH AxBxC		
				Min working pressure	Max working pressure								Coil Class	Power					
					Air Mashgas				Water Liquid					Light oil ≤ 20CST		VA		W	
					AC		DC		AC		DC								
					AC	DC	AC	DC	AC	DC	AC			DC	220 V				24 V
XSB-A-10	3/8"	15	4.5	0.3	16	16	16	16	12	12	80(180)	F	22	17	72X66X115				
XSB-A-15	1/2"	15	4.5	0.3	16	16	16	16	12	12	80(180)	F	22	17	72X66X115				
XSB-A-20	3/4"	20	9.3	0.3	16	16	16	16	12	12	80(180)	F	22	17	84X73X125				
XSB-A-25	1"	25	12	0.3	16	16	16	16	12	12	80(180)	F	22	17	100X81X135				
XSB-A-10K	3/8"	15	4.5	0.3	10	10	10	10	8	8	80(180)	F	22	17	72X66X119				
XSB-A-15K	1/2"	15	4.5	0.3	10	10	10	10	8	8	80(180)	F	22	17	72X66X119				
XSB-A-20K	3/4"	20	9.3	0.3	10	10	10	10	8	8	80(180)	F	22	17	84X73X129				
XSB-A-25K	1"	25	12	0.3	10	10	10	10	8	8	80(180)	F	22	17	100X81X139				
XSB-B-10	3/8"	15	4.5	0.3	16	16	16	16	12	12	80(180)	F	22	17	72X48X115				
XSB-B-15	1/2"	15	4.5	0.3	16	16	16	16	12	12	80(180)	F	22	17	72X48X115				
XSB-B-20	3/4"	20	9.3	0.3	16	16	16	16	12	12	80(180)	F	22	17	84X58X125				
XSB-B-25	1"	25	12	0.3	16	16	16	16	12	12	80(180)	F	22	17	100X63X135				
XSB-B-10K	3/8"	15	4.5	0.3	10	10	10	10	8	8	80(180)	F	22	17	72X48X119				
XSB-B-15K	1/2"	15	4.5	0.3	10	10	10	10	8	8	80(180)	F	22	17	72X48X119				
XSB-B-20K	3/4"	20	9.3	0.3	10	10	10	10	8	8	80(180)	F	22	17	84X58X129				
XSB-B-25K	1"	25	12	0.3	10	10	10	10	8	8	80(180)	F	22	17	100X63X139				

ZCT (ZCQ) series stainless steel solenoid valve



ZCT-15



ZCT-20



ZCT-25



ZCT-15K

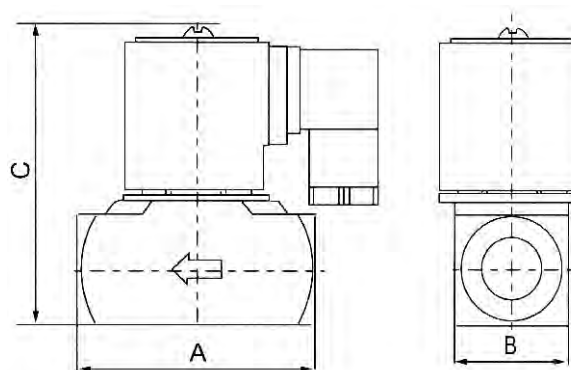


ZCT-25K

Product features

- Suitable medium: steam, water, oil, weak acid and alkaline liquid etc
- Medium temp.: -50°C– 180°C
- Action type: indirect acting type, direct acting type
- Working status: normally closed/normally open
- Valve body material: stainless steel SUS304
- Sealing material: Viton
- Coil Protection level: Plastic coil IP65, iron coil IP54

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working Pressure							Max Temperature of Fluid ℃	Coil Data			SIZE LxWxH AxBxC
				Min working pressure	Max working pressure							Coil Class	Power		
					Air Mashgas		Water Liquid		Light oil ≤ 20CST				VA AC 220 V	W DC 24 V	
					AC	DC	AC	DC	AC	DC					
ZCT-3	1/8",1/4"	3	0.23	0	10	10	10	10	7	7	155	B	22	13	50X30X85
ZCT-6	1/4",1/2"	4.5	0.6	0	6	6	6	6	5	5	155	B	22	13	50X30X88
ZCT-10	3/8",1/2"	10	1.5	0.1	10	10	10	10	7	7	155	B	20	16	68X34X102
ZCT-15	1/2"	10	1.5	0.1	10	10	10	10	7	7	155	B	20	16	68X34X102
ZCT-20	3/4"	15	4.5	0.1	10	10	10	10	7	7	155	B	20	16	78X38X110
ZCT-25	1"	15	4.5	0.1	10	10	10	10	7	7	155	B	20	16	78X40X110
ZCT-10K	3/8",1/2"	10	1.5	0.1	8	8	8	8	6	6	155	B	30	30	68X34X120
ZCT-15K	1/2"	10	1.5	0.1	8	8	8	8	6	6	155	B	30	30	68X34X120
ZCT-20K	3/4"	15	4.5	0.1	8	8	8	8	6	6	155	B	30	30	78X38X130
ZCT-25K	1"	15	4.5	0.1	8	8	8	8	6	6	155	B	30	30	78X40X130

XSDF fountain solenoid valve



XSDF-15



XSDF-25

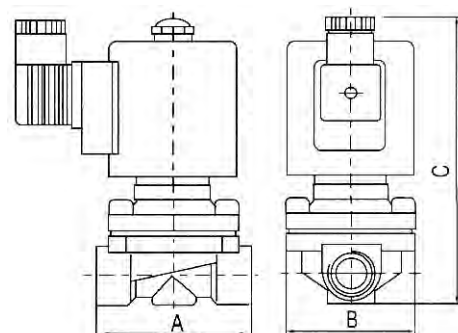


XSDF-40大



XSDF-100F

Inside structure and profile size



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 cycles
- 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.

Data

Model	Pipe Conn- ection	Orifice mm	Cv value	Working Pressure		Coil data			Product Size L×W×H A×B×C	Body material
				AC220V	DC24V	Coil Class	Power			
							VA	W		
							AC 220 V	DC 24 V		
XSDF-15	1/2"	15	3.8	0~6	0~6	F	26	18	64X56X112	Brass
XSDF-20	3/4"	20	7.6	0~6	0~6	F	26	18	65X56X115	
XSDF-25	1"	25	12	0~6	0~6	F	26	18	85X73X125	
XSDF-32	1 1/4"	30	20	0~6	0~6	F	26	18	94X80X135	
XSDF-32	1 1/4"	32	24	0~6	0~6	F	36	27	110X88X158	
XSDF-40	1 1/2"	36	26	0~6	0~6	F	36	27	110X88X158	
XSDF-40	1 1/2"	40	30	0~6	0~6	F	36	27	112X94X116	
XSDF-50	2"	46	40	0~6	0~6	F	36	27	118X94X178	
XSDF-50	2"	46	40	0~6	0~6	F	36	27	135X94X178	
XSDF-50	2"	50	48	0~6	0~6	F	36	27	155X114X180	
XSDF-65SF	Flange connecting	65	50	0.3~6	0.3~6	F	26	18	252X185X340	SUS304
XSDF-80SF		80	80	0.3~6	0.3~6	F	26	18	275X198X355	
XSDF-100SF		100	125	0.3~6	0.3~6	F	26	18	343X230X380	
XSDF-65F		65	50	0.3~6	0.3~6	F	26	18	250X185X335	Cast iron
XSDF-80F		80	80	0.3~6	0.3~6	F	26	18	275X198X360	
XSDF-100F		100	125	0.3~6	0.3~6	F	26	18	348X215X375	
XSDF-125F		125	220	0.3~6	0.3~6	F	26	18	405X250X460	
XSDF-150F		150	280	0.3~6	0.3~6	F	26	18	450X286X490	

ZCM series direct acting coal gas solenoid valve



ZCM-15



ZCM-25K



ZCM-40



ZCM-65F



ZCM-100SF

Product features

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

Applications

- Applicable to automatic or remote temperature control and two position on–off switch control for the pipeline of gas and other combustible medium.

Data

Structure feature

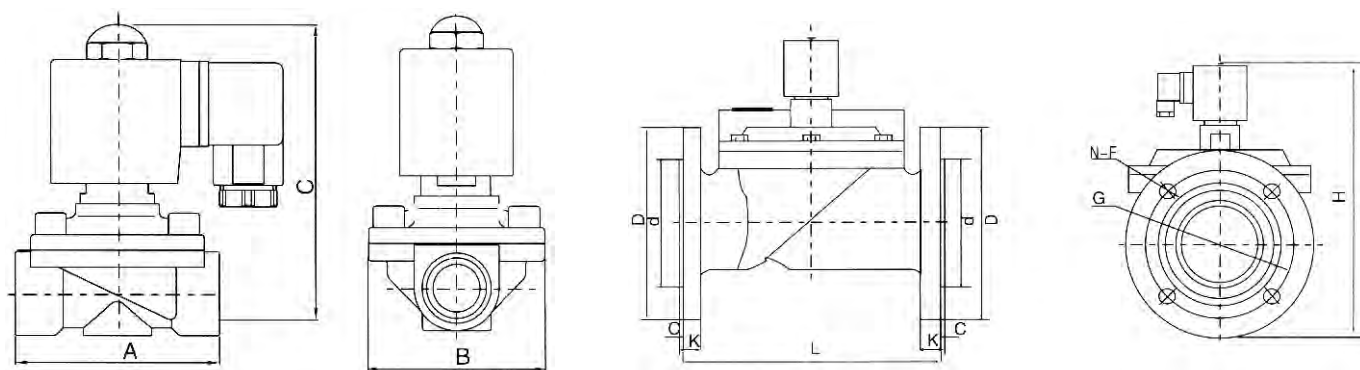
- Direct acting valve–open type, no limits for pressure differential,it can open under low pressure and zero pressure differential, low loss in pressure and big flow under low pressure.
- Using high quality valve body sealing material, no leakage , it is an ideal actuator for combustible liquid and gas.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

Model	Flange connecting size (mm)									Body material
	DN	L	K	C	ΦD	Φd	N- ΦF	ΦG	H	
ZCM-40F	40	150	13	2	142	85	4- $\Phi 18$	110	215	Brass
ZCM-50F	50	155	13	2	152	100	4- $\Phi 18$	125	230	
ZCM-15SF	15	106	11	2	95	45	4- $\Phi 14$	65	148	SUS 304
ZCM-20SF	20	108	12	2	102	55	4- $\Phi 14$	75	155	
ZCM-25SF	25	140	13	2	108	65	4- $\Phi 14$	85	165	
ZCM-32SF	32	148	14	2	132	78	4- $\Phi 18$	100	200	
ZCM-40SF	40	158	15	2	142	85	4- $\Phi 18$	110	210	
ZCM-50SF	50	185	16	2	158	100	4- $\Phi 18$	125	228	
ZCM-65SF	65	252	18	3	185	115	4- $\Phi 18$	145	305	
ZCM-80SF	80	275	19	3	198	130	4- $\Phi 18$	160	320	
ZCM-100SF	100	343	21	3	220	160	8- $\Phi 18$	180	345	Cast iron
ZCM-50F	50	200	18	2	158	100	4- $\Phi 18$	125	230	
ZCM-65F	65	250	21	3	185	115	4- $\Phi 18$	145	300	
ZCM-80F	80	275	22	3	198	130	4- $\Phi 18$	160	320	
ZCM-100F	100	348	22	3	215	160	8- $\Phi 18$	180	335	

Inside structure and profile size



Data

Model	Pipe Conn- ection	Orifice mm	Cv value	Working Pressure		Coil data			SIZE LxWxH AxBxC	Body material
				AC220V	DC24V	Coil Class	Power			
							VA	W		
							AC 220 V	DC 24 V		
ZCM04-S	1/4"	4	0.35	0~4	0~4	F	22	17	43X25X108	Brass or Stainless steel
ZCM025-08	1/4"	2.5	0.32	0~4	0~4	F	26	18	40X30X78	
ZCM040-10	3/8"	4	0.35	0~4	0~4	F	26	18	47X32X84	
ZCM160-10	3/8"	16	2.1	0~4	0~4	F	26	18	64X56X110	
ZCM160-15	1/2"	16	4.5	0~4	0~4	F	26	18	64X56X110	
ZCM200-20	3/4"	20	7.5	0~4	0~4	F	26	18	65X56X115	
ZCM250-25	1"	25	12	0~4	0~4	F	26	18	85X73X128	
ZCM250-25	1"	25	12	0~4	0~4	F	26	18	92X79X130	
ZCM320-32	1 1/4"	30	20	0~4	0~4	F	26	18	94X79X138	
ZCM320-32	1 1/4"	32	22	0~2.5	0~2.5	F	35	30	110X88X158	
ZCM400-40	1 1/2"	36	26	0~2.5	0~2.5	F	35	30	110X88X165	
ZCM400-40	1 1/2"	40	30	0~2.5	0~2.5	F	35	30	112X94X168	
ZCM500-50	2"	46	40	0~2.5	0~2.5	F	35	30	118X94X178	
ZCM500-50	2"	50	48	0~2.5	0~2.5	F	35	30	155X114X180	
ZCM-40F	Flange connecting	40	30	0~2.5	0~2.5	F	35	30		Cast iron
ZCM-50F		50	48	0~2.5	0~2.5	F	35	30		
ZCM-50F		50	48	0~2.5	0~2.5	F	35	30		
ZCM-65F		65	55	0~2	0~2	F	70	50		
ZCM-80F		80	85	0~2	0~2	F	70	50		
ZCM-100F		100	129	0~2	0~2	F	70	50		Stainless steel
ZCM-65FS		65	55	0~2	0~2	F	70	50		
ZCM-80FS		80	85	0~2	0~2	F	70	50		
ZCM-100FS		100	129	0~2	0~2	F	70	50		

ZCA (XSZC) vacuum solenoid valve



ZCA-15



ZCA-25



ZCA-32



ZCA-40



ZCA-50

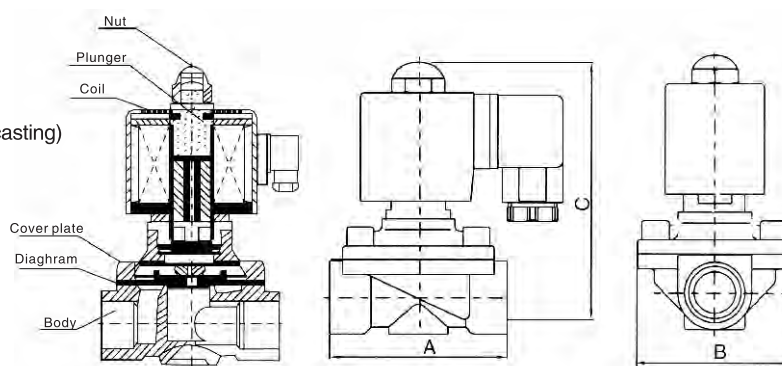
Product features

- 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,VITON
- 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

Inside structure and profile size



Data

Model	Pipe Conn- ection	Orifice mm	Cv value	working pressure		Coil data			Product Size LXWXH A×B×C
				AC220V	DC24V	Coil Class	Power		
							VA	W	
							AC 220 V	DC 24 V	
ZCA025-08	1/4"	2.5	0.23	-1~+1	-1~+1	F	26	18	40X30X78
ZCA040-10	3/8"	4	0.6	-1~+1	-1~+1	F	26	18	47X32X84
ZCA160-10	3/8"	16	4.8	-1~+1	-1~+1	F	26	18	64X56X105
ZCA160-15	1/2"	16	4.8	-1~+1	-1~+1	F	26	18	64X56X105
ZCA200-20	3/4"	20	7.6	-1~+1	-1~+1	F	26	18	65X56X115
ZCA250-25	1"	25	12	-1~+1	-1~+1	F	26	18	85X73X120
ZCA320-32	1 1/4"	30	22	-1~+1	-1~+1	F	26	18	94X79X130
ZCA320-32	1 1/4"	32	24	-1~+1	-1~+1	F	35	30	110X88X150
ZCA400-40	1 1/2"	36	26	-1~+1	-1~+1	F	35	30	110X88X150
ZCA400-40	1 1/2"	40	28	-1~+1	-1~+1	F	35	30	112X94X160
ZCA500-50	2"	46	40	-1~+1	-1~+1	F	35	30	118X94X172
ZCA500-50	2"	50	45	-1~+1	-1~+1	F	35	30	155X114X180
ZCA400-40F	Flange connecting	40	28	-1~+1	-1~+1	F	35	30	150X142X225
ZCA500-50F		50	45	-1~+1	-1~+1	F	35	30	185X152X230

0927 series pilot operated diaphragm solenoid valve



0927-200



0955-305



0955-405



0927-400

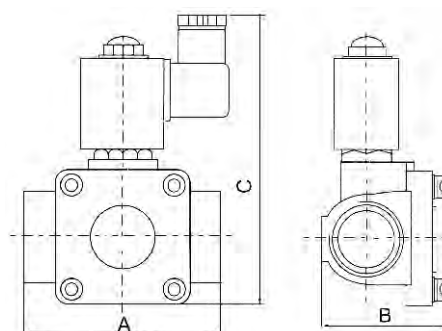


0927-700

Product features

- Suitable medium: water, gas, oil ($\leq 20\text{CST}$)
- Medium temp: $-5^{\circ}\text{C} - 80^{\circ}\text{C}$
- Action type: pilot operated type
- Working pressure: normally closed: 0.3 ~ 16 bar
- Valve body material: brass (forged)
- Diaphragm sealing, material: NBR, EPDM, VITON
- Coil Protection level: Plastic coil IP65

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working pressure		L × W × H A × B × C	Working status
				Air gas	Water liquid		
0927-100	3/8"	12	3.7	0.3~16	0.3~16	50X43X112	Normally closed
0927-200	1/2"	12	4.5	0.3~16	0.3~16	50X43X112	
0927-300	3/4"	20	14	0.3~16	0.3~16	80X54X126	
0927-400	1"	20	14	0.3~16	0.3~16	80X61X128	
0927-500	1 1/4"	36	20	0.5~16	0.5~16	120X87X146	
0927-600	1 1/2"	36	26	0.5~16	0.5~16	120X87X146	
0927-700	2"	50	40	0.5~16	0.5~16	150X110X152	
0955-205	3/8"	12	3.7	0.3~16	0.3~16	50X43X115	Normally open
0955-305	1/2"	12	4.5	0.3~16	0.3~16	50X43X115	
0955-405	3/4"	20	14	0.3~16	0.3~16	80X54X129	
0955-5055	1"	20	14	0.3~16	0.3~16	80X61X131	
0955-5055	1 1/4"	36	20	0.5~16	0.5~16	120X87X149	
0955-7055	1 1/2"	36	26	0.5~16	0.5~16	120X87X149	
0955-805	2"	50	40	0.5~16	0.5~16	150X110X155	

YLA series water (hot water) gas solenoid valve



YLA-15



YLA-20



YLA-25

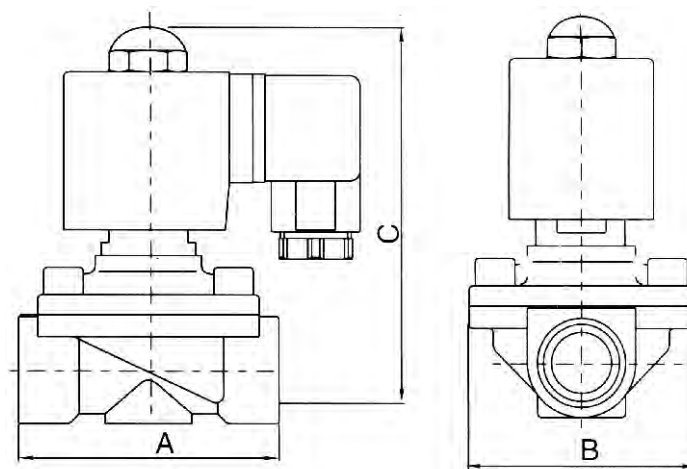
Product features

- Suitable medium: water ,hot water,gas
- Medium temp: -25℃- 125℃
- Action type: Indirect acting type
- Working status: Normally closed 0~16bar Normally open:0~8 bar
- Valve body material: brass(forged)
- Diaphragm sealing, material: NBR,EPDM,VTION
- Coil Protection level: Plastic coil IP65

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 VITON diaphragm.
- Ordering code K means normally open.

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working Pressure								Max Temperature of Fluid NBR/ VITON	Coil Data				SIZE LxWxH AxBxC		
				Min workiing pressure	Max working pressure								Coil Class	Power					
					Air Mashgas				Water Liquid					Light oil ≤ 20CST		VA		W	
					AC		DC		AC		DC			AC 220 V	DC 24 V				
					AC	DC	AC	DC	AC	DC	AC			DC					
YLA-15	1/2"	16	4.8	0	10	6	10	6	7	4	80(180)	F	22	15	68X56X108				
YLA-20	3/4"	20	7.8	0	10	6	10	6	7	4	80(180)	F	22	15	72X56X112				
YLA-25	1"	25	12	0	10	6	10	6	7	4	80(180)	F	22	15	92X79X128				

2W-NASS Series water (hot water) & gas solenoid valve



2W-NASS-15



2W-NASS-20



2W-NASS-25

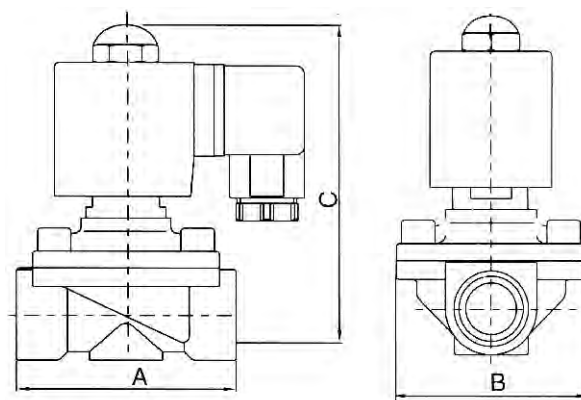
Product features

- Suitable medium: water, hot water, gas
- Medium temp: -5°C – 80°C
- Action type: Indirect acting type
- Working pressure: 0–10bar
- Valve body material: brass (forged), SS304 (precise casting)
- Diaphragm sealing, material: NBR, VITON.
- Coil Protection level: German NASS Plastic coil IP65

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°C , should choose VITON diaphragm. (180°C)
- Ordering code S means SS304 material of valve body.

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working Pressure								Max Temperature of Fluid NBR/ VITON	Coil Data				SIZE LxWxH AxBxC
				Min working pressure	Max working pressure								Coil Class	Power			
					Air Mashqas		watre hot water Liquid		Light oil ≤ 20CST		VA			W			
											AC 220 V			DC 24 V			
2W-NASS-15	1/2"	16	4.8	0	10	6	10	6	7	4	80(180)	H	22	15	68X56X108		
2W-NASS-20	3/4"	20	7.6	0	10	6	10	6	7	4	80(180)	H	22	15	72X56X112		
2W-NASS-25	1"	25	12	0	10	6	10	6	7	4	80(180)	H	22	15	92X79X128		
2W-NASS-32	1 1/4"	30	24	0	10	6	10	6	7	4	80(180)	H	22	15	94X79X132		

Long time no overheat series energy-saving Water (hot water)& gas solenoid valve.



2WJN160-15



2WJN200-20



2WJN250-25



2WJN400-40

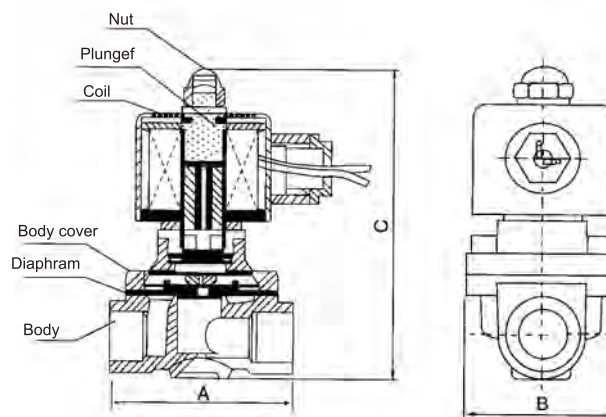
Product features

- Suitable medium: Water. Hot water. Gas
- Medium temp: -5°C- 80°C
- Action type: Indirect acting type
- Working pressure: 0-8bar
- Valve body material: Brass(Forged), Stainless steel(precision casting)
- Diaphragm sealing material: NBR ,EPDM,VITON
- Coil Protection level: Iron coil IP54

Remark

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

Inside structure and profile size



Data

Model	Thread connecting G	Orifice mm	Cv value	Working Pressure				Max Temperature of Fluid NBR/ VITON	Coil Data		SIZE LxWxH AxBxC
				Min working pressure	Max working pressure				Coil Class	Power	
					Air Mashqas	Water Liquid	Light oil ≤ 20CST			VA	
					AC/DC	AC/DC	AC/DC			AC 220V	
2WJN025-08A	1/4"	2.5	0.23	0	8	8	7	80(180)	B	5	40X26X75
2WJN025-08	1/4"	2.5	0.23	0	8	8	7	80(180)	B	5	40X30X75
2WJN040-10	3/8"	4	0.6	0	8	8	7	80(180)	B	5	47X32X85
2WJN160-10	3/8"	16	4.8	0	8	8	7	80(180)	B	5	64X52X102
2WJN160-15	1/2"	16	4.8	0	8	8	7	80(180)	B	5	57X53X98
2WJN200-20	3/4"	20	7.6	0	8	8	7	80(180)	B	5	65X56X110
2WJN250-25	1"	25	12	0	8	8	7	80(180)	B	5	85X73X120
2WJN320-32	1 1/4"	30	20	0	8	8	7	80(180)	B	5	94X79X130
2WJN400-40	1 1/2"	36	26	0	8	8	7	80(180)	B	5	110X88X166
2WJN500-50	2"	46	40	0	8	8	7	80(180)	B	5	118X94X178
2WJN400-40F	4-Φ17.5holeΦ110	40	29	0	8	8	7	80(180)	B	5	150X142X225
2WJN500-50F	4-Φ17.5holeΦ125	50	48	0	8	8	7	80(180)	B	5	185X123X230

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

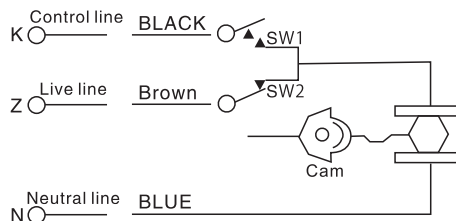
- Controlling feature: three lines and one control. three lines two control motor drive reset
- Working voltage: 230VAC $\pm$ 10% 50~60HZ
- Power consumption: 4W(only when valve opens or closes)
- Motor type: bidirectional synchronous motor
- Action time: about 20s(open~close)
- Lead length: 30cm
- Nominal pressure: 1.6Mpa
- Leakage rate: $\leq$ 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°C
- Environment temp: -5~60°C
- 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

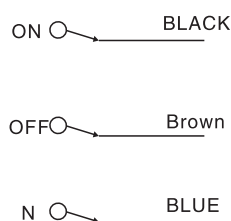
Model		Specification		Size		Kv(m ³ /h)
		DN(mm)	Internal thread (G)	L	H	
2 way	DQ215	15	1/2"	110	64	11
	DQ220	20	3/4"	110	64	20
	DQ225	25	1"	125	75	60
3 way	DQ315	15	1/2"	120	80	11
	DQ320	20	3/4"	120	80	20
	DQ325	25	1"	140	100	60

Wiring diagram

Three line one control



Three line two control



■ Analog electronic timer

- Working voltage: 24–220V AC/DC 50HZ/60HZ
- Static electrcity: 4mA Max
- Working temperature: –10℃~+50℃
- Protection level: IP65–EN 60529
- Keeping voltage: 400V Max
- Capanty: 1A
- Instantaneous current: 10A for 10ms
- Electrify efficiency: 100%ED
- The life time of switch: 3 × 10⁸
- Time ON: form 0.5–10s
- Time OFF: form 0.5–45min
- Indicator: yellowLED
- Connection type: DIN43650A



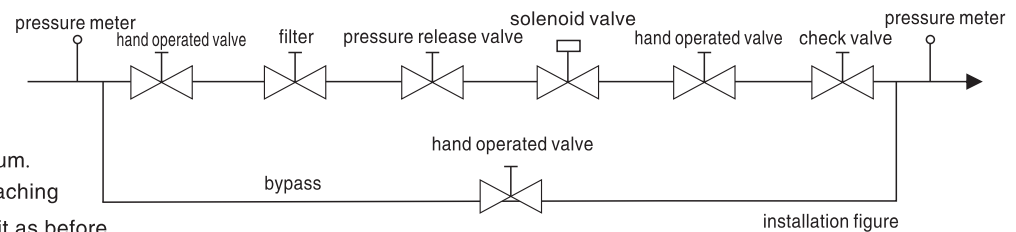
■ Digital electronic timer

- 1: High quality flame retardant plastic shell,high strength and security.
- 2: Microcomputer chip control,powerful,high precision.
- 3: LED digital tube display with night vision fudtion.
- 4: Time adjustment: range:two–way adjustable time switch,
ON time 1Sec–9min59Sec;
OFF time 1Sec–99h59min59Sec.
- 5: Function mode:loop mode(two wayw:first on then off or first off then on);
Single mode(one way:specified time on).
- 6: Power supply:high–voltage AC/DC 110~240V(XY–3800H)
Low–voltage AC/DC ~36V(XY–3800L)
- 7: Protection IP65 When properly installed
- 8: The standard DIN43650A input and output interfaces.
- 9: If indicator is light.it is ON state.otherwise it is the OFF state.
- 10: Field of use:solenoid valve controlling and other similar timing application.



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, loosening will cause the solenoid valve not work.
- It is better to adopt bypass for continuously working solenoid valve which makes repair easier and no affect to production.



- 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

■ Solenoid valve does not work after power

- 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

Flow calculation

1.Liquid (Volume)

- Due to incompressibility of liquid, we can calculate the flow according to pressure differential

$$Q=14.28C_v \sqrt{\frac{\Delta P}{\rho}}$$

2.Gas (volume)

- As air is compressible, when calculating the flow, we need to know the pressure of inlet and outlet, or the pressure differential

$$Q=400XC_v X \sqrt{(p_2+1.013) X \Delta P} X \sqrt{\frac{273}{273+t}}$$

Remark: standard atmospheric state:760mmHg.15.6℃

Explanation: Q :Liter / minute

P1:inlet pressure kgf/cm²

P2:Outlet pressure kgf/cm²

ΔP:P1-P2

ρ :Liquid density

Cv: flow coefficient $C_v \approx 1.16 X K_v$ $k_v \approx 0.853 X C_v$

t: temperature of gas℃

Commonly used pressure unit conversion

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

Summarization 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.VTON

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