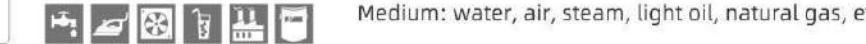
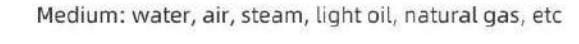
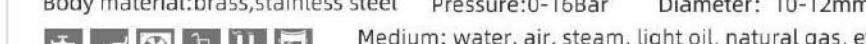
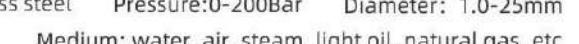
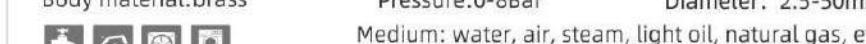
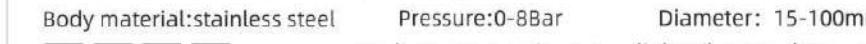
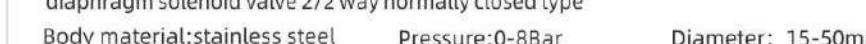
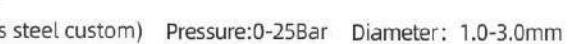
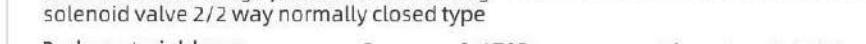


Valve body, seal material and medium selection table	P01		STP11 series pilot operated diaphragm Brass 2/2 way normally closed type Body material:brass Pressure:0-16Bar (Max 20Bar) Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P12
Model compilation method of solenoid valve	P02		2WS1 series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type Body material:brass Pressure:0-10Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P03
Flow calculation method Seal material review	P04		2WS1 series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type Body material:stainless steel Pressure:0-10Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P13
ZS series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type	P05		ZS series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type Body material:brass Pressure:0-10Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P06
ZS series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type	P07		ZS series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type Body material:stainless steel Pressure:0-10Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P08
ZS series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally closed type	P08		ZS series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally closed type Body material:stainless steel Pressure:0-10Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P09
ZS series Brass Direct lifting diaphragm solenoid valve 2/2 way normally open type	P09		ZS series Brass Direct lifting diaphragm solenoid valve 2/2 way normally open type Body material:brass Pressure:0-5Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P10
ZS series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally open type	P10		ZS series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally open type Body material:stainless steel Pressure:0-5Bar Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P11
ZS series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally open type	P11		ZS series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally open type Body material:stainless steel Pressure:0-5Bar Diameter:15-100mm Medium:water, air, steam, light oil, natural gas, etc	P12
STP11 series pilot operated diaphragm stainless steel 2/2 way normally closed type	P12		STP11 series pilot operated diaphragm Stainless steel 2/2 way normally closed type Body material:stainless steel Pressure:0-16Bar (Max 20Bar) Diameter:15-50mm Medium: water, air, steam, light oil, natural gas, etc	P13
STP11 flange series pilot operated diaphragm stainless steel 2/2 way normally closed type	P13		STP11 flange series pilot operated diaphragm stainless steel 2/2 way normally closed type Body material:stainless steel Pressure:0-16Bar (Max 20Bar) Diameter:15-50mm Medium: water, air, steam, light oil, natural gas, etc	P14
STP11 series pilot operated diaphragm brass 2/2 way normally open type	P14		STP11 series pilot operated diaphragm brass 2/2 way normally open type Body material:brass Pressure:0-16Bar (Max 20Bar) Diameter:15-50mm Medium:water, air, steam, light oil, natural gas, etc	P15
STP11 pilot operated diaphragm stainless steel 2/2 way normally open type	P15		STP11 pilot operated diaphragm stainless steel 2/2 way normally open type Body material:stainless steel Pressure:0-16Bar (Max 20Bar) Diameter:15-50mm Medium: water, air, steam, light oil, natural gas, etc	P16
STP11 flange series pilot operated diaphragm stainless steel 2/2 way normally open type	P16		STP11 flange series pilot operated diaphragm stainless steel 2/2 way normally open type Body material:stainless steel Pressure:0-16Bar (Max 20Bar) Diameter:15-50mm Medium: water, air, steam, light oil, natural gas, etc	P17
STP21 2/2 way compact direct-acting solenoid valve normally closed type	P17		STP21 2/2 way compact direct-acting solenoid valve normally closed type Body material:brass,stainless steel Pressure:0-25Bar Diameter:1.0-6.0mm Medium: water, air, steam, light oil, natural gas, etc	P18
STP21 2/2 way compact direct-acting solenoid valve normally open type	P18		STP21 2/2 way compact direct-acting solenoid valve normally open type Body material:brass,stainless steel Pressure:0-25Bar Diameter:1.0-5.0mm Medium: water, air, steam, light oil, natural gas, etc	P19
STP31 2/2 way compact pilot operated solenoid valve normally closed type	P19		STP31 2/2 way compact pilot operated solenoid valve normally closed type Body material:brass,stainless steel Pressure:0-16Bar Diameter: 12.0mm Medium: water, air, steam, light oil, natural gas, etc	P20

	<p>STP41 2/2 way compact direct-acting solenoid valve normally open type ..... P21      Body material:brass,stainless steel Pressure:0-15Bar Diameter: 1.0-4.0mm  </p>	<p>STGY series stainless steel high pressure direct-acting ..... P33      Body material:stainless steel Pressure:0-170Bar Diameter: 1.0-9.0mm  </p>
	<p>STP51 2/2 way compact direct-acting solenoid valve normally closed type ..... P22      Body material:brass,stainless steel Pressure:0-16Bar Diameter: 10-12mm  </p>	<p>STTG series high pressure solenoid valve 2/2 way normally closed type ..... P34      Body material:brass,stainless steel Pressure:0-200Bar Diameter: 1.0-25mm  </p>
	<p>DF cast iron flange series liquid solenoid valve ..... P23      Body material:cast iron Pressure:0-10Bar Diameter: 65-150mm  </p>	<p>STH series high pressure solenoid valve 2/2 way normally closed/normally open type ..... P35~36      Body material:brass Pressure:0-100Bar Diameter: 16.0mm  </p>
	<p>2W series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type ..... P24      Body material:brass Pressure:0-8Bar Diameter: 2.5-50mm  </p>	<p>ZCM Zero Pressure Differential Gas Solenoid Valve 2/2 way type ..... P37      Body material:brass,stainless steel Pressure:0-5Bar Diameter: 3-500mm  </p>
	<p>2W series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type ..... P25      Body material:stainless steel Pressure:0-8Bar Diameter: 15-100mm  </p>	<p>ZCM Zero Pressure Flange Differential Gas Solenoid Valve 2/2 way type ..... P38      Body material:cast iron,stainless steel Pressure:0-2Bar Diameter: 50-150mm  </p>
	<p>2W series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally closed type ..... P26      Body material:stainless steel Pressure:0-8Bar Diameter: 15-50mm  </p>	<p>STZH series combined type solenoid valve normally closed type ..... P39      Body material:brass,stainless steel Pressure:0-25Bar Diameter: 1.0-6.0mm  </p>
	<p>STGT series direct-acting solenoid valve 3/2 way type ..... P27-28      Body material:brass,stainless steel Pressure:0-25Bar Diameter: 1.0-4.0mm  </p>	<p>STM1 series small direct-acting solenoid valve 2/2 way type ..... P40      Body material:brass(stainless steel custom) Pressure:0-25Bar Diameter: 1.0-3.0mm  </p>
	<p>STGV series direct-acting solenoid valve 3/2 way type ..... P29~31      Body material:brass,stainless steel Pressure:0-40Bar Diameter: 1.0-4.0mm  </p>	<p>STM3 series small direct-acting solenoid valve 3/2 way type ..... P41      Body material:brass(stainless steel custom) Pressure:0-20Bar Diameter: 1.0-2.0mm  </p>
	<p>STGY series brass high pressure direct-acting solenoid valve 2/2 way normally closed type ..... P32      Body material:brass Pressure:0-170Bar Diameter: 1.0-9.0mm  </p>	<p>STDF series &lt;underwater&gt; Special solenoid valve ..... P42      Body material:brass,stainless steel Pressure:0-5Bar Diameter: 15-150mm        Applicable to waterscape, music fountain industry (running spring, jumping jet)</p>

## Valve body, seal material and medium selection table

	ZCT series stainless steel solenoid valve 2/2 way normally closed type Body material:stainless steel Pressure:0-12Bar Diameter: 3.0-25mm Medium: water, air, steam, light oil, natural gas, etc	P43
	STDP-1 2/2 way direct-acting Timing drain solenoid valve Body material:brass Pressure:0-16Bar Diameter: 3.0mm Medium: water, air, etc	P44
	STDP-2 2/2 way direct-acting Timing drain solenoid valve Body material:brass Pressure:0-16Bar Diameter: 3.0mm Medium: water, air, steam, light oil, natural gas, etc	P45
	STK series pilot operated diaphragm 2/2 way Plastic irrigation solenoid valve normally closed type Body material:nylon(PA66) Pressure:0-10Bar Diameter: 25-100mm Medium: water	P46~P47
	STDM Right angle electromagnetic pulse valve< dust removal valve > Body material:Aluminum alloy Pressure:0.3-8Bar Diameter: 15-76mm Applicable to dust removal system of dust collector	P48
	STF11 PTFE Solenoid Valve Body material: PTFF Pressure:0-6Bar Diameter: 3.0-50mm Suitable for strong acid and alkali (organic solution)	P49~50
	STF21 UPVC Solenoid Valve Body material: UPVC Pressure:0-6Bar Diameter: 15-50mm Suitable for weak acid and weak base (gas, liquid)	P51~52
	STF31 CPVC Solenoid Valve Body material: CPVC Pressure:0-6Bar Diameter: 15-50mm Suitable for Sulfuric acid below 60%, hydrochloric acid of any concentration and strong alkali	P53~54
	JZF series pneumatic angle seat valve Body material:stainless steel Pressure:0-16Bar Diameter: 15-65mm Connection mode: thread type, flange type and quick installation type	P55~59
Comparison of common coil forms		P61~63

A stands for applicable B stands for not applicable C stands for to be determined

Medium \ Material	brass	cast iron	stainless steel	Plastic	NBR	EPDM	VITON	PTFE
Air	A	A	A	A	A	A	A	A
Natural gas	A	A	A		A	A	A	A
oxygen	A	A	A	A	A	A	A	A
hydrogen	A		A		A		A	A
City gas	A		A				A	A
Industrial gas	A		A		A			A
nitrogen	A		A				A	A
Refined oil	A	A	A				A	A
Ordinary water	A	A	A	A	A	A	A	A
Steam	A	A	A		B	A	A	A
Drinking water	A	A	A	A		A		A
Seawater	A		A	A	A	A	A	A
industrial waste water			A				A	A
Gasoline	A	A	A			B	A	A
kerosene	A	A	A	A	A	B	A	A
Diesel oil	A	B	A	A	A	B	A	A
Milk	A	A	A	A	A	A	A	A
Liquor	A	A	A	A	A	A	A	A
Alcohol	A	A	A		A	B		A
Acetylene	A	A	A		A	B	A	A
Ethanol	A	A	A		A	B	A	A
Acetone	A	A	A		B	A	B	A
Ammonia					B			A
Toluene	A	A	A			B	A	A
Xylene	A	A	A			B	A	A
Propane	A	A	A			B	A	A
Methane	A	A	A		A	B	A	A
Sulfur dioxide	A	A	A				A	A
Sodium hydroxide<20%		A	A		A	B		A
Nitric acid<10%			A				A	A
Sulfuric acid<20%							A	A
Hydrochloric acid 10%								A
Acetic acid	A	A	A		A	B	A	A

1	2	3	4	5	6	7	8	9	10			
Model	Diameter ( DN )	Mode of Operation	Connection Mode	Body Material	Seal Material	Coil model			Coil class	Voltage	Other	
						category	number	Connection mode				
e.g. STDF	25	2	6	1	N	S	1	4	H	1		
STDF	01=1.0	B=80.0	K= Normally Open	1=1/8"	1=brass	N=NBR	B=Plastic encapsulated coil	1	1=DIN Standard connection	F= Fclass	01=AC220	S= Manual switch
2WS1	02=2.0	C=100		2=1/4"	2=SS304	E=EPDM		2	2=Lead connection 25cm	H= Hclass	02=AC110	X=Signal light
STP	03=3.0	D=125	1= Normally Open	3=3/8"	3=SS316	V=VITC	A= Iron-clad coil	3	3=Knob waterproof connection		03=AC36V	N=NPT (American standard)
2W	04=4.0	E=150		4=1/2"	4= cast iron	F=PTFE	S= Waterproof wire	4	4=Lead connection 90cm		04=AC24V	
ZS	05=5.0	A1=0.8		5=3/4"	5= stainless steel	Q=SILICA GEL	M=Pulse magnetic holding coil	5			05=AC48V	
DF	06=6.0	A2=1.2		6=1"	6= aluminum	H=HNBR	E=Explosion proof line	6			06=AC380V	
STGY	07=7.0	A3=1.5		7=1 1/4"				7			11=DC36V	
ZCM	08=8.0	A4=2.5		8=1 1/2"				8			12=DC24V	
STM	09=0.9	A5=3.5		9=2"				9			13=DC12V	
STH	10=10.0	A6=4.5			F=Flange connection	8=PTFE					14=DC48V	
STGT	11=11.0	A7=5.5				9=UPVC		A			15=DC6V	
STGV	12=12.0				K=	A=CPVC		B			16=DC110V	
	13=13.0				Fastplug-in	P=nylon		C			17=DC220V	
	15=15.0				Z=Mounting bracket			D				
	20=20.0							E				
	25=25.0							F				
	32=32.0											
	40=40.0											
	50=50.0											
	A=65.0											

## ◆ Flow calculation method

## ◆ 1、Liquid(volume)

$$Q=14.28Cv \frac{\sqrt{P_1-P_2}}{\sqrt{G}}$$

Note: Don't consider for viscosity influence less than 20mm<sup>2</sup>/s

## ◆ 2、Gas (Volume)

$$Q=198.3CvP_1 \cdot \frac{1}{\sqrt{G}} (P_2 \leq 1.89)$$

$$Q=396.6v\sqrt{\Delta P \cdot P_2} \cdot \frac{1}{\sqrt{G}} (P_2 > 1.89)$$

Note: Standard atmospheric conditions: 760mmHg, 15.6°C

Q:L/Min

Note:

P1: Inlet pressure kgf/cm<sup>2</sup>

P2: Outlet pressure kgf/cm<sup>2</sup>

ΔP: P1-P2

G: Specific Gravity (Water=1, Air=1)

Cv: Flow Coefficient Cv≈1.16x Kv Kv≈0.853x Cv

## ◆ Commonly Used Pressure Units Conversion

◆ 1kgf/cm<sup>2</sup>=1bar=0.1MPa=100KPa=14.5PSI

## ◆ Commonly Used Seal material review

(In different places of the dynamic situation use, so relevant data is only for reference)

## ◆ 1、NBR

Main used for diaphragm, O rings and seal material, Suitable for air, gas, liquid water, light oil etc. Fluid temperature -18°C to 80°C

## ◆ 2、EPDM

Main used the place the Temperature range above NBR, (Such as hot water, low pressure steam) suitable for the most of gas, liquid water. Fluid temperature -20°C to 139°C

## ◆ 3、VITON

Main used the place where NBR, EPDM can not be applied. Suitable for most of the gas, liquid water, gasoline, solvent etc. Fluid temperature -20°C to 169°C

## ◆ 4、TEFLON

Almost it can suitable for all fluid media. But as dynamic seal material, it will be leakage especially the media is gas.

## 2WS1 series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way direct lifting diaphragm type
- 0-10bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber - specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

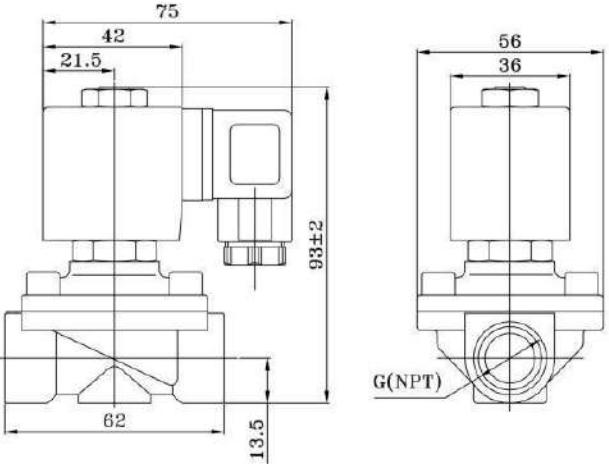
### General characteristics

Body material	Brass		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B21/B31/B32		

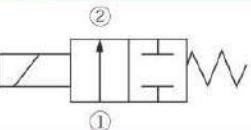
### Specification sheet (internal thread interface)

Connection way	Flow aperture/mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						DimensionsLength x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG		
			Minimum pressure		Maximum working pressure								
			Air, gas	Water, liquid	Light oil	AC	DC	AC	DC				
3/8"	15	2.4	0	10	7	10	7	7	4	62×56×93	2WS1-15-31X	0.85	
1/2"	15	2.4	0	10	7	10	7	7	4	62×56×93	2WS1-15-41X	0.8	
3/4"	20	6.3	0	10	7	10	7	7	4	73×57×114	2WS1-20-51X	1.1	
1"	25	8.3	0	10	7	10	7	7	4	99×77×121	2WS1-25-61X	1.45	
1 1/4"	32	19.4	0	10	7	10	7	7	4	112×86.5×150	2WS1-32-71X	2.3	
1 1/2"	40	22.4	0	10	7	10	7	7	4	123×94×160	2WS1-40-81X	2.9	
2"	50	34.8	0	10	7	10	7	7	4	165×123×176	2WS1-50-91X	4.8	

### Overall dimension drawing



### Electrical symbols



### Coil picture



## 2WS1 series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way direct lifting diaphragm
- 0-10bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

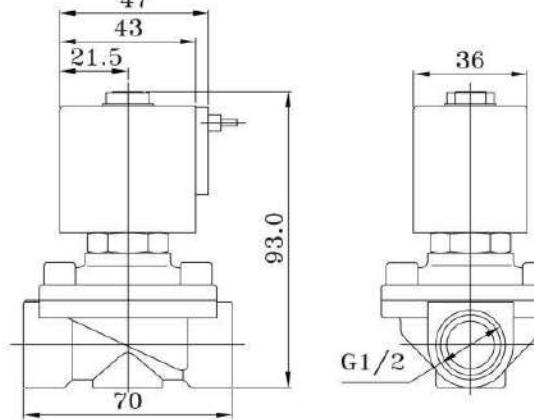
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B21/B31/B32		

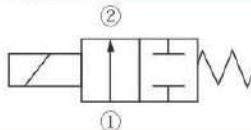
### Specification sheet (internal thread interface)

Connection way	Flow aperture/mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						DimensionsLength x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG		
			Minimum pressure		Maximum working pressure								
			Air, gas	Water, liquid	Light oil	AC	DC	AC	DC				
3/8"	15	2.4	0	10	7	10	7	7	4	70×57×100	2WS1-15-32X	0.85	
1/2"	15	2.4	0	10	7	10	7	7	4	70×57×100	2WS1-15-42X	0.8	
3/4"	20	6.3	0	10	7	10	7	7	4	72×57×107	2WS1-20-52X	1.1	
1"	25	8.3	0	10	7	10	7	7	4	98×76×115	2WS1-25-62X	1.45	
1 1/4"	32	19.4	0	10	7	10	7	7	4	112×86.5×150	2WS1-32-72X	2.3	
1 1/2"	40	22.4	0	10	7	10	7	7	4	123×94×160	2WS1-40-82X	2.9	
2"	50	34.8	0	10	7	10	7	7	4	165×123×176	2WS1-50-92X	4.8	

### Overall dimension drawing



### Electrical symbols



### Coil picture



## ZS series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way direct lifting diaphragm type
- 0-10bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

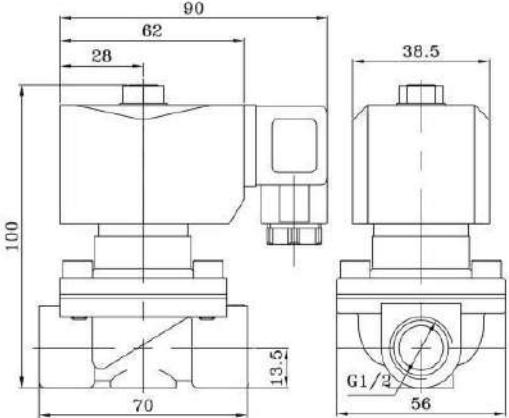
### General characteristics

Body material	Brass		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	15-28VA	15-28VA	11-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B41/B51		

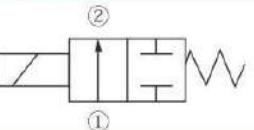
### Specification sheet (internal thread interface)

Connection way	Flow aperture mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						Dimensions x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG			
			Maximum working pressure											
			Air, gas		Water, liquid		Light oil							
AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	70x56x100	ZS-15-31X	0.85		
3/8"	15	2.4	0	10	7	10	7	7	4	70x56x100	ZS-15-41X	0.8		
1/2"	15	2.4	0	10	7	10	7	7	4	68x57x107	ZS-20-51X	1.1		
3/4"	20	6.3	0	10	7	10	7	7	4	98x76x115	ZS-25-61X	1.45		
1"	25	8.3	0	10	7	10	7	7	4	112x86.5x150	ZS-32-71X	2.3		
1 1/4"	32	19.4	0	10	7	10	7	7	4	123x94x160	ZS-40-81X	2.9		
1 1/2"	40	22.4	0	10	7	10	7	7	4	165x123x176	ZS-50-91X	4.8		
2"	50	34.8	0	10	7	10	7	7	4					

### Overall dimension drawing



### Electrical symbols



### Coil picture



## ZS series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way direct lifting diaphragm
- 0-10bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

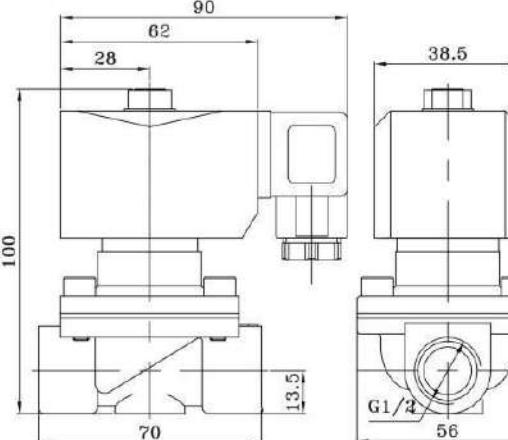
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	15-28VA	15-28VA	11-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B41/B51		

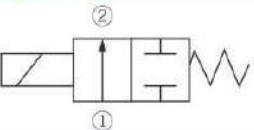
### Specification sheet (internal thread interface)

Connection way	Flow aperture mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						Dimensions x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG			
			Maximum working pressure											
			Air, gas		Water, liquid		Light oil							
AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	70x56x100	ZS-15-32X	0.85		
3/8"	15	2.4	0	10	7	10	7	7	4	70x56x100	ZS-15-42X	0.8		
1/2"	15	2.4	0	10	7	10	7	7	4	68x57x107	ZS-20-52X	1.1		
3/4"	20	6.3	0	10	7	10	7	7	4	98x76x106	ZS-25-62X	1.45		
1"	25	8.3	0	10	7	10	7	7	4	112x86.5x150	ZS-32-72X	2.3		
1 1/4"	32	19.4	0	10	7	10	7	7	4	123x94x160	ZS-40-82X	2.9		
1 1/2"	40	22.4	0	10	7	10	7	7	4	165x123x176	ZS-50-92X	4.8		
2"	50	34.8	0	10	7	10	7	7	4					

### Overall dimension drawing



### Electrical symbols



### Coil picture



## ZS series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way direct lifting diaphragm type
- 0-10bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

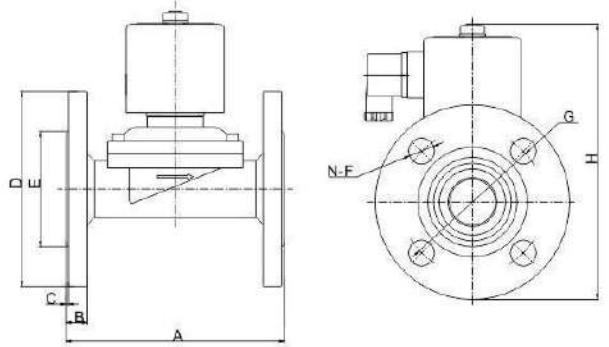
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	15-28VA	15-28VA	11-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B41/B51/A42F		

### Specification sheet (Flange interface)

Flow aperture mm mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						Model (voltage is 220v)	Weight KG		
		Maximum working pressure									
		Air, gas		Water, liquid		Light oil					
AC	DC	AC	DC	AC	DC	AC	DC	ZS-15F-42X	1.8		
15	2.1	0	10	7	10	7	7	ZS-20F-52X	2.0		
20	5.7	0	10	7	10	7	7	ZS-25F-62X	2.9		
25	9.6	0	10	7	10	7	7	ZS-32F-72X	5.1		
32	22	0	10	7	10	7	7	ZS-40F-82X	6.1		
40	27	0	10	7	10	7	7	ZS-50F-92X	8.2		
50	35	0	10	7	10	7	7	ZS-65F-A2X	15.2		
65	43	0	10	7	6	7	3	ZS-80F-B2X	18		
80	56	0	10	7	6	7	3	ZS-100F-C2X	23.5		
100	68	0	10	7	6	7	3				

### Overall dimension drawing



model	A	B	C	ΦD	ΦE	N-ΦF	ΦG	H
ZS-15F-42X	106	10	2	95	45	4-14	65	138
ZS-20F-52X	106	10	2	99	52	4-14	50	141
ZS-25F-62X	136	12	2	110	65	4-14	50	160
ZS-32F-72X	145	13	1	131	73	4-18	100	215
ZS-40F-82X	152	12	3	141	80	4-18	110	215
ZS-50F-92X	185	15	2	155	100	4-18	125	220
ZS-65F-A2X	250	19	3	185	118	4-18	145	308
ZS-80F-B2X	270	19	3	202	134	4-18	160	320
ZS-100F-C2X	342	21	3	222	162	8-18	180	345

## ZS series Brass Direct lifting diaphragm solenoid valve 2/2 way normally open type



### Features:

- 2/2 way direct lifting diaphragm
- 0-5bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

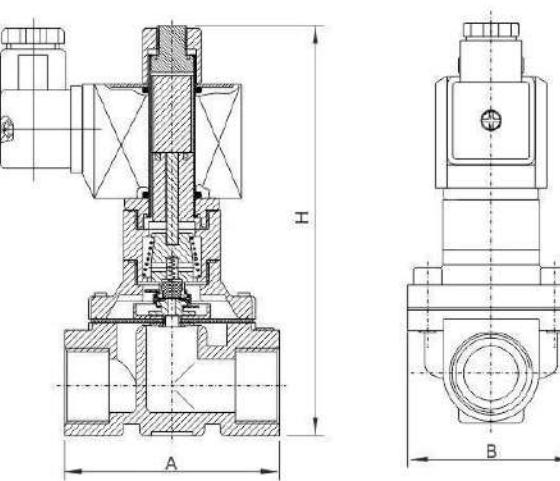
### General characteristics

Body material	Brass		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	15-28VA	15-28VA	11-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B41/B51/A42F		

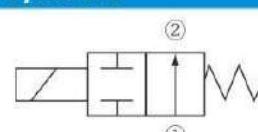
### Specification sheet (internal thread interface)

Connection way	Flow aperture mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						DimensionsLength x width x height A x B x C	Model (voltage is 220v) X =N or E or V	Weight KG			
			Maximum working pressure											
			Air, gas		Water, liquid		Light oil							
AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	ZS-15K-31X	0.85			
3/8"	15	2.4	0	5	5	5	5	5	5	66x57x100	ZS-15K-31X	0.85		
1/2"	15	2.4	0	5	5	5	5	5	5	66x57x100	ZS-15K-41X	0.8		
3/4"	20	6.3	0	5	5	5	5	5	5	68x57x107	ZS-20K-51X	1.1		
1"	25	8.3	0	5	5	5	5	5	5	98x76x115	ZS-25K-61X	1.45		
1 1/4"	32	19.4	0	5	5	5	5	5	5	112x86.5x150	ZS-32K-71X	2.3		
1 1/2"	40	22.4	0	5	5	5	5	5	5	123x94x160	ZS-40K-81X	2.9		
2"	50	34.8	0	5	5	5	5	5	5	165x123x176	ZS-50K-91X	4.8		

### Overall dimension drawing



### Electrical symbols



### Coil picture



## ZS series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally open type



### Features:

- 2/2way direct lifting diaphragm
- 0-5bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

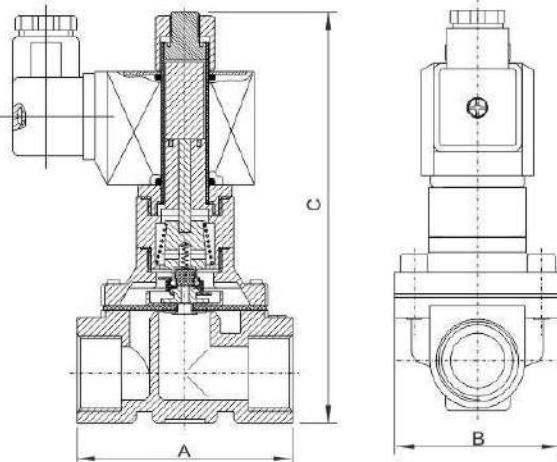
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	15-28VA	15-28VA	11-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	±10%		
Can be equipped with coil	B41/B51/A42F		

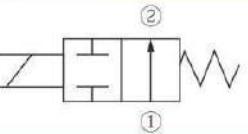
### Specification sheet (Flange interface)

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)						Dimensions	Length x width x height	Model (voltage is 220v)X =N or E or V	Weight KG					
			Maximum working pressure														
			Air, gas		Water, liquid		Light oil										
AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	70 x 56 x 100	ZS-15K-32X	0.7					
3/8"	15	2.4	0	5	5	5	3	3	3	70 x 56 x 100	ZS-15K-42X	1.05					
1/2"	15	2.4	0	5	5	5	3	3	3	72 x 56 x 107	ZS-20K-52X	1.2					
3/4"	20	6.3	0	5	5	5	3	3	3	98 x 76.5 x 106	ZS-25K-62X	1.6					
1"	25	8.3	0	5	5	5	3	3	3	112 x 86.5 x 180	ZS-32K-72X	2.6					
11/4"	32	19.4	0	5	5	5	3	3	3	123 x 94 x 190	ZS-40K-82X	3.2					
11/2"	40	22.4	0	5	5	5	3	3	3	168 x 120 x 209	ZS-50K-92X	5.2					
2"	50	34.8	0	5	5	5	3	3	3								

### Overall dimension drawing



### Electrical symbols



### Coil picture



## ZS series stainless steel Flange Direct lifting diaphragm solenoid valve 2/2 way normally open type



### Features:

- 2/2way direct lifting diaphragm
- 0-5bar
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

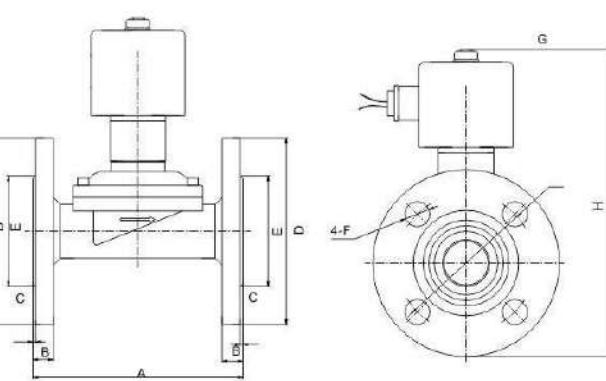
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	15-28VA	15-28VA	11-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	±10%		
Can be equipped with coil	B41/B51/A42F		

### Specification sheet (internal thread interface)

Flow aperture mm	KV value m³/h	Pressure difference(BAR)						Dimensions	Length x width x height	Model (voltage is 220v)X =N or E or V	Weight KG				
		Maximum working pressure													
		Air, gas		Water, liquid		Light oil									
AC	DC	AC	DC	AC	DC	AC	DC	AC	DC	15 x 48 x 100	ZS-15FK-42X	1.95			
15	4.8	0	5	5	5	3	3	5	5	20 x 7.6 x 100	ZS-15FK-52X	2.15			
20	7.6	0	5	5	5	5	5	5	5	25 x 12 x 107	ZS-15FK-62X	3.05			
25	12	0	5	5	5	5	5	5	5	32 x 24 x 180	ZS-15FK-72X	5.4			
32	24	0	5	5	5	5	5	5	5	40 x 29 x 190	ZS-15FK-82X	6.4			
40	29	0	5	5	5	5	5	5	5	50 x 48 x 209	ZS-15FK-92X	8.6			

### Overall dimension drawing



model	A	B	C	ΦD	ΦE	N-ΦF	ΦG	H
ZS-15FK-42X	106	10	2	95	45	4-14	65	138
ZS-20FK-52X	106	10	2	99	52	4-14	50	141
ZS-25FK-62X	136	12	2	110	65	4-14	50	160
ZS-32FK-72X	145	13	1	131	73	4-18	100	215
ZS-40FK-82X	152	12	3	141	80	4-18	110	215
ZS-50FK-92X	185	15	2	155	100	4-18	125	220
ZS-65FK-A2X	250	19	3	185	118	4-18	145	308
ZS-85FK-B2X	270	19	3	202	134	4-18	160	320
ZS-100FK-C2X	342	21	3	222	162	8-18	180	345

## STP11 series pilot operated diaphragm Brass 2/2 way normally closed type



### Features:

- 2/2 way pilot operated diaphragm type normally closed
- 0-16bar (Max 20bar)
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application. Models that close slowly to prevent water hammer impact are available.

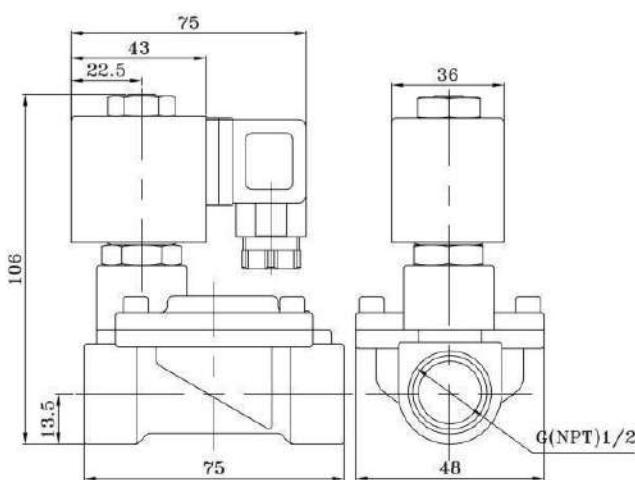
### General characteristics

Body material	Brass		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best.		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B31/B32		

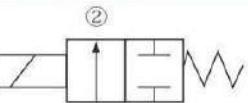
### Specification sheet

Connection way	Flow aperture mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)			Dimensions x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG		
			Minimum pressure	Maximum working pressure						
				Air, gas	Water, liquid	Light oil ≤20CST				
3/8"	15	2.4	0.3	16	16	13	75 x 48 x 106	STP11-15-31X 0.8		
1/2"	15	2.4	0.3	16	16	13	75 x 48 x 106	STP11-15-41X 0.7		
3/4"	20	6.3	0.3	16	16	13	75 x 58 x 112	STP11-20-51X 0.9		
1"	25	8.3	0.3	16	16	13	96 x 70 x 131	STP11-25-61X 1.4		
1 1/4"	32	19.4	0.3	16	16	13	131 x 96 x 146	STP11-32-71X 2.8		
1 1/2"	40	22.4	0.3	16	16	13	131 x 96 x 146	STP11-40-81X 2.7		
2"	50	34.8	0.3	16	16	13	165 x 120 x 167	STP11-50-91X 4		

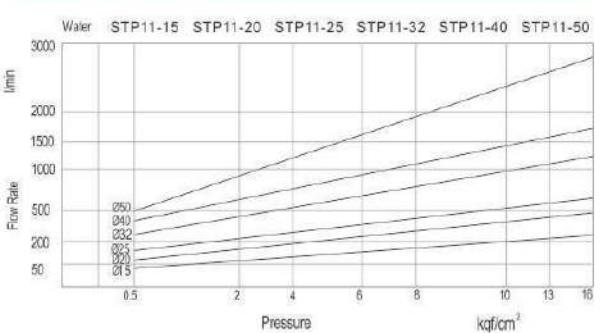
### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP11 series pilot operated diaphragm Stainless steel 2/2 way normally closed type



### Features:

- 2/2 way pilot operated diaphragm type normally closed
- 0-16bar (Max 20bar)
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application. Models that close slowly to prevent water hammer impact are available.

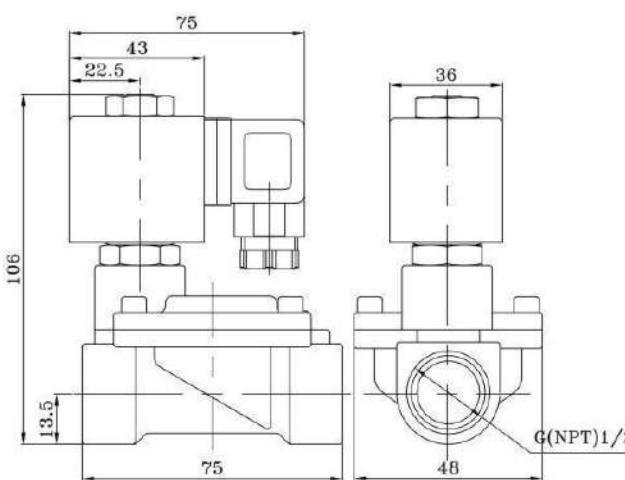
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best.		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B31/B32		

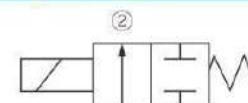
### Specification sheet

Connection way	Flow aperture mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)			Dimensions x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG		
			Minimum pressure	Maximum working pressure						
				Air, gas	Water, liquid	Light oil				
3/8"	15	1.86	0.3	16	16	13	75 x 48 x 106	STP11-15-32X 0.8		
1/2"	15	2.1	0.3	16	16	13	75 x 48 x 106	STP11-15-42X 0.7		
3/4"	20	5.7	0.3	16	16	13	75 x 58 x 112	STP11-20-52X 0.9		
1"	25	9.6	0.3	16	16	13	96 x 70 x 131	STP11-25-62X 1.4		
1 1/4"	32	22	0.3	16	16	13	131 x 96 x 146	STP11-32-72X 2.8		
1 1/2"	40	27	0.3	16	16	13	131 x 96 x 146	STP11-40-82X 2.7		
2"	50	35	0.3	16	16	13	165 x 120 x 167	STP11-50-92X 4		

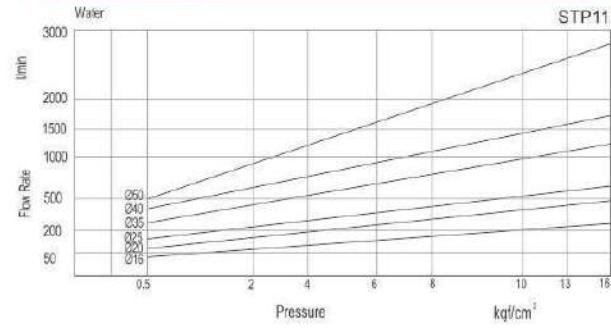
### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP11 flange series pilot operated diaphragm stainless steel 2/2way normally closed type



### Features:

- 2/2 way pilot operated diaphragm type normally closed
- 0-16bar (Max 20bar)
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application. Models that close slowly to prevent water hammer impact are available.

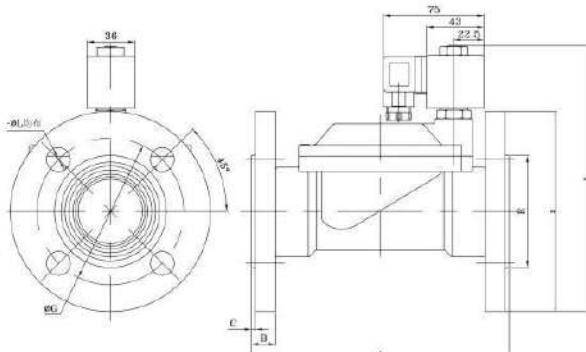
### General characteristics

Body material	Stainless steel(SUS304 outstrip DN65)		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10 %		
Can be equipped with coil	B11/B31/B32		

### Specification sheet (Flange interface)

Flow aperture mm mm	KV value m³/h	Pressure difference(BAR)						Model (voltage is 220v)X =N or E or V	Weight KG	
		Minimum pressure	Maximum working pressure			Air, gas	Water, liquid			
			AC	DC	AC	DC	AC	DC		
15	2.1	0.3	16	16	16	16	13	13	STP11-15F-42X	1.8
20	5.7	0.3	16	16	16	16	13	13	STP11-20F-52X	2.0
25	9.6	0.3	16	16	16	16	13	13	STP11-25F-62X	2.9
32	22	0.3	16	16	16	16	13	13	STP11-32F-72X	5.1
40	27	0.3	16	16	16	16	13	13	STP11-40F-82X	6.1
50	35	0.3	16	16	16	16	13	13	STP11-50F-92X	8.2
65	43	0.3	16	16	16	16	13	13	STP11-65F-A2X	15.2
80	56	0.3	16	16	16	16	13	13	STP11-80F-B2X	18
100	68	0.3	16	16	16	16	13	13	STP11-100F-C2X	23.5

### Overall dimension drawing



model	A	B	C	ΦD	ΦE	ΦL	ΦG	H
STP11-15F-42X	134	13	2	110	58	4-14	85	172
STP11-20F-52X	160	15	2	135	74	4-18	100	187
STP11-25F-62X	134	13	2	110	58	4-14	85	160
STP11-32F-72X	160	15	2	135	74	4-18	100	175
STP11-40F-82X	160	15	2	145	84	4-18	110	180
STP11-50F-92X	200	16	2	160	88	4-18	125	207
STP11-65F-A2X	250	19	3	185	118	4-18	145	250
STP11-80F-B2X	270	19	3	202	134	4-18	160	262
STP11-100F-C2X	342	21	3	220	162	8-18	180	287

## STP11 series pilot operated diaphragm brass 2/2 way normally open type



### Features:

- 2/2 way pilot operated diaphragm type normally closed
- 0-16bar (Max 20bar)
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

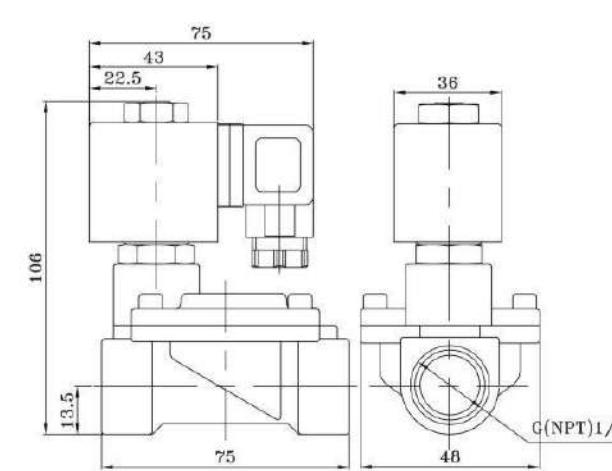
### General characteristics

Body material	Brass		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10 %		
Can be equipped with coil	B11/B31/B32		

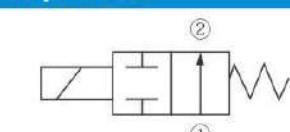
### Specification sheet

Connection way	Flow aperture mm mm	KV value m³/h	Pressure difference(BAR)			Dimensions Length x width x height A x B x C	Model (voltage is 220v)X =N or E or V	Weight KG		
			Minimum pressure	Maximum working pressure						
				Air, gas	Water, liquid	Light oil				
3/8"	15	1.86	0.3	16	16	13	75 x 48 x 106	STP11-15K-31X	0.8	
1/2"	15	2.1	0.3	16	16	13	75 x 48 x 106	STP11-15K-41X	0.7	
3/4"	20	5.7	0.3	16	16	13	75 x 58 x 112	STP11-20K-51X	0.9	
1"	25	9.6	0.3	16	16	13	96 x 70 x 131	STP11-25K-61X	1.4	
1 1/4"	32	22	0.3	16	16	13	131 x 96 x 146	STP11-32K-71X	2.8	
1 1/2"	40	27	0.3	16	16	13	131 x 96 x 146	STP11-40K-81X	2.7	
2"	50	35	0.3	16	16	13	165 x 120 x 167	STP11-50K-91X	4	

### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP11 pilot operated diaphragm stainless steel 2/2way normally open type



### Features:

- 2/2 way pilot operated diaphragm type normally open
- 0-16bar (Max 20bar)
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application. Models that close slowly to prevent water hammer impact are available.

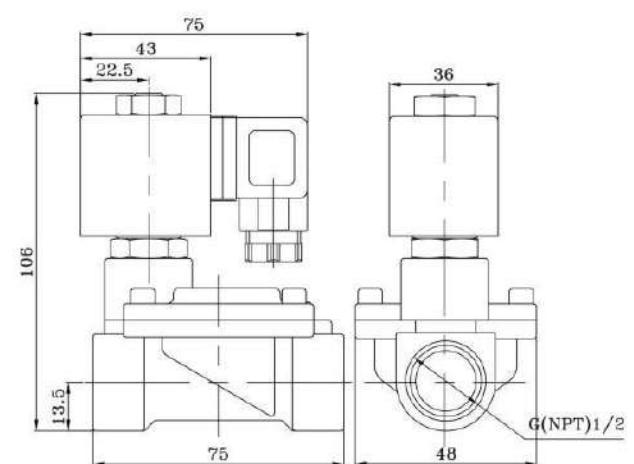
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B31/B32		

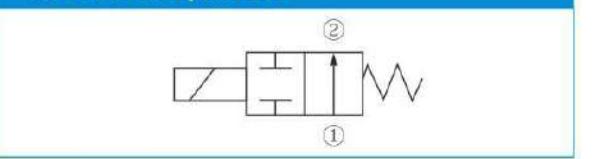
### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)			Dimensions	Length x width x height	Model (voltage is 220v)X =N or E or V	Weight KG				
			Minimum pressure	Maximum working pressure									
				Air, gas	Water, liquid								
3/8"	15	1.86	0.3	16	16	13	75 x 48 x 106	STP11-15K-32X	0.8				
1/2"	15	2.1	0.3	16	16	13	75 x 48 x 106	STP11-15K-42X	0.7				
3/4"	20	5.7	0.3	16	16	13	75 x 58 x 112	STP11-20K-52X	0.9				
1"	25	9.6	0.3	16	16	13	96 x 70 x 131	STP11-25K-62X	1.4				
1 1/4"	32	22	0.3	16	16	13	131 x 96 x 146	STP11-32K-72X	2.8				
1 1/2"	40	27	0.3	16	16	13	131 x 96 x 146	STP11-40K-82X	2.7				
2"	50	35	0.3	16	16	13	165 x 120 x 167	STP11-50K-92X	4				

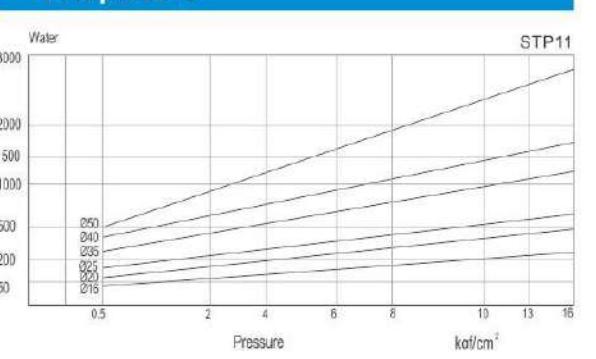
### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP11 flange series pilot operated diaphragm stainless steel 2/2way normally open type



### Features:

- 2/2 way pilot operated diaphragm type normally open
- 0-16bar (Max 20bar)
- Flow channel 15-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application. Models that close slowly to prevent water hammer impact are available.

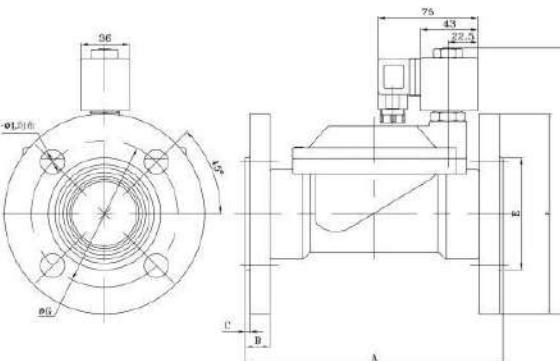
### General characteristics

Body material	Stainless steel(SUS304 outstrip DN65)		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B31/B32		

### Specification sheet (Flange interface)

Flow aperture mm	KV value m³/h	Pressure difference(BAR)						Model (voltage is 220v)X =N or E or V	Weight KG		
		Minimum pressure	Maximum working pressure								
			Air, gas	Water, liquid	Light oil	AC	DC				
15	2.1	0.3	16	16	16	13	13	STP11-15FK-42X	1.8		
20	5.7	0.3	16	16	16	13	13	STP11-20FK-52X	2.0		
25	9.6	0.3	16	16	16	13	13	STP11-25FK-62X	2.9		
32	22	0.3	16	16	16	13	13	STP11-32FK-72X	5.1		
40	27	0.3	16	16	16	13	13	STP11-40FK-82X	6.1		
50	35	0.3	16	16	16	13	13	STP11-50FK-92X	8.2		
65	43	0.3	16	16	16	13	13	STP11-65FK-A2X	15.2		
80	56	0.3	16	16	16	13	13	STP11-80FK-B2X	18		
100	68	0.3	16	16	16	13	13	STP11-100FK-C2X	23.5		

### Overall dimension drawing



model	A	B	C	ΦD	ΦE	ΦL	ΦG	H
STP11-15F-42X	134	13	2	110	58	4-14	85	172
STP11-20F-52X	160	15	2	135	74	4-18	100	187
STP11-25F-62X	134	13	2	110	58	4-14	85	160
STP11-32F-72X	160	15	2	135	74	4-18	100	175
STP11-40F-82X	160	15	2	145	84	4-18	110	180
STP11-50F-92X	200	16	2	160	88	4-18	125	207
STP11-65F-A2X	250	19	3	185	118	4-18	145	250
STP11-80F-B2X	270	19	3	202	134	4-18	160	262
STP11-100F-C2X	342	21	3	220	162	8-18	180	287

## STP21 2/2 way compact direct-acting solenoid valve normally closed type



### Features:

- 2/2 way direct acting type normally closed
- 0-25bar
- Flow channel 1.0-6.0mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- PTFE - specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil

### Product Description



The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

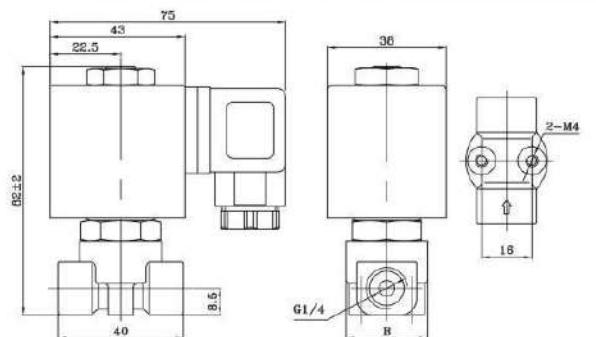
### General characteristics

Body material	Brass, Stainless steel (Configurable integrated)		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature			-10°C-80°C
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B21/B31/B32/B81/E11		

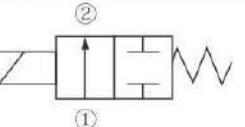
### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)		Model (voltage is 220v)X=N or E or V or F	
			Maximum working pressure			
			Air, gas, Water, liquid	Light oil		
1/8"	1.0	0.02	0	30	STP21-01-11X STP21-01-12X	
	1.2	0.03	0	26	STP21-A2-11X STP21-A2-12X	
	1.5	0.06	0	20	STP21-A3-11X STP21-A3-12X	
	2.0	0.08	0	18	STP21-02-11X STP21-02-12X	
	2.5	0.13	0	15	STP21-A4-11X STP21-A4-12X	
	3.0	0.21	0	12	STP21-03-11X STP21-03-12X	
	4.0	0.35	0	10	STP21-04-11X STP21-04-12X	
	5.0	0.46	0	8	STP21-05-11X STP21-05-12X	
	1.0	0.02	0	30	STP21-01-21X STP21-01-22X	
	1.2	0.03	0	26	STP21-A2-21X STP21-A2-22X	
1/4"	1.5	0.06	0	20	STP21-A3-21X STP21-A3-22X	
	2.0	0.08	0	18	STP21-02-21X STP21-02-22X	
	2.5	0.13	0	15	STP21-A4-21X STP21-A4-22X	
	3.0	0.21	0	12	STP21-03-21X STP21-03-22X	
	4.0	0.35	0	10	STP21-04-21X STP21-04-22X	
	5.0	0.46	0	8	STP21-05-21X STP21-05-22X	
	6.0	0.52	0	8	STP21-06-21X STP21-06-22X	
	3.0	0.21	0	12	STP21-03-31X STP21-03-32X	
	4.0	0.35	0	10	STP21-04-31X STP21-04-32X	
	5.0	0.46	0	8	STP21-05-31X STP21-05-32X	
3/8"	6.0	0.52	0	8	STP21-06-31X STP21-06-32X	

### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP21 2/2 way compact direct-acting solenoid valve normally open type



### Features:

- 2/2 way direct acting type normally closed
- 0-25bar
- Flow channel 1.0-6.0mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- PTFE - specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

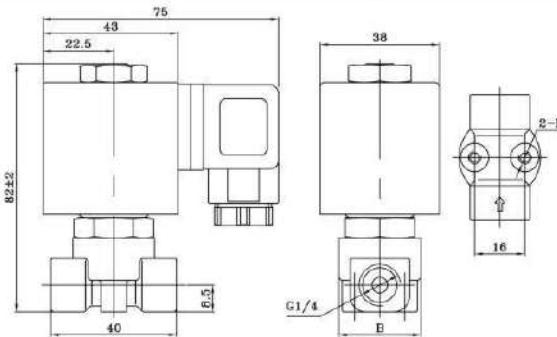
### General characteristics

Body material	Brass, Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	15W / 17W
Ambient temperature			-10°C-80°C
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	B11/B21/B31/B32/B81/E11		

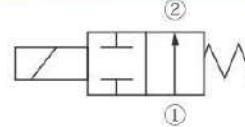
### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)		Model (voltage is 220v)X=N or E or V or F	
			Maximum working pressure			
			Air, gas, Water, liquid	Light oil		
1/8"	1.0	0.02	0	30	STP21-01K-11X STP21-01K-12X	
	1.2	0.03	0	26	STP21-A2K-11X STP21-A2K-12X	
	1.5	0.06	0	20	STP21-A3K-11X STP21-A3K-12X	
	2.0	0.08	0	18	STP21-02K-11X STP21-02K-12X	
	2.5	0.13	0	15	STP21-A4K-11X STP21-A4K-12X	
	3.0	0.21	0	12	STP21-03K-11X STP21-03K-12X	
	4.0	0.35	0	10	STP21-04K-11X STP21-04K-12X	
	5.0	0.46	0	8	STP21-05K-11X STP21-05K-12X	
	1.0	0.02	0	30	STP21-01K-21X STP21-01K-22X	
	1.2	0.03	0	26	STP21-A2K-21X STP21-A2K-22X	
1/4"	1.5	0.06	0	20	STP21-A3K-21X STP21-A3K-22X	
	2.0	0.08	0	18	STP21-02K-21X STP21-02K-22X	
	2.5	0.13	0	15	STP21-A4K-21X STP21-A4K-22X	
	3.0	0.21	0	12	STP21-03K-21X STP21-03K-22X	
	4.0	0.35	0	10	STP21-04K-21X STP21-04K-22X	
	5.0	0.46	0	8	STP21-05K-21X STP21-05K-22X	
	3.0	0.21	0	12	STP21-03K-31X STP21-03K-32X	
	4.0	0.35	0	10	STP21-04K-31X STP21-04K-32X	
	5.0	0.46	0	8	STP21-05K-31X STP21-05K-32X	

### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP31 2/2 way compact pilot operated solenoid valve normally closed type



### Features:

- 2/2 way pilot operated type normally closed
- 0-16bar
- Flow channel 12.0mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber - specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

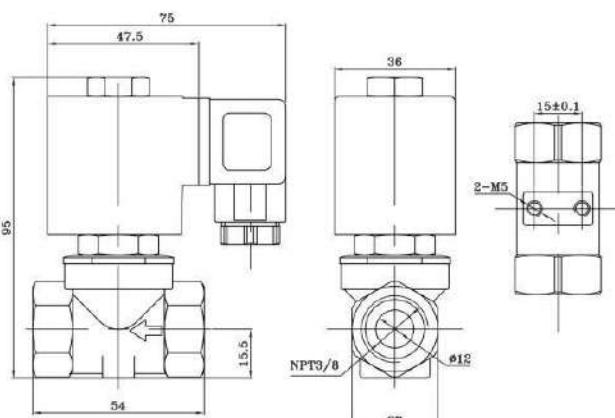
### General characteristics

Body material	Brass, Stainless steel							
Sealing material	NBR		EPDM		VITON			
Temperature	80°C			140°C				
Insulation grade	H							
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz		12-24DC				
Power	22VA	22VA		15W / 17W				
Ambient temperature	-10°C-80°C							
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best							
Connection	The standard is G, and the thread requirements such as NPT can be selected.							
Voltage fluctuation	± 10%							
Can be equipped with coil	B11/B21/B31/B32/E11							

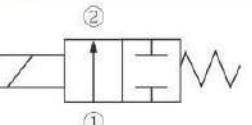
### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)						Model (voltage is 220v)X=N or E or V	Weight KG		
			Maximum working pressure									
			Air, gas		Water, liquid		Light oil					
			AC	DC	AC	DC	AC	DC	brass	stainless steel		
1/4"	12	2.1	0	16	16	16	13	13	STP-12-21X	STP-12-22X		
3/8"	12	2.1	0	16	16	16	13	13	STP-12-31X	STP-12-32X		
1/2"	12	2.1	0	16	16	16	13	13	STP-12-41X	STP-12-42X		

### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP41 2/2way compact direct-acting solenoid valve normally open type



### Features:

- 2/2 way direct acting type normally closed
- 0-25bar
- Flow channel 1.0-6.0mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber - specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection / explosion-proof coil



### Product Description

The products are closed when powered on and opened when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

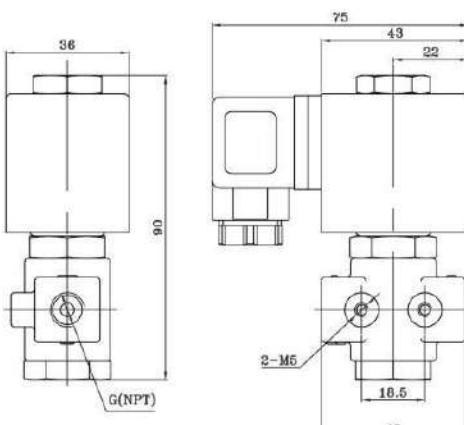
### General characteristics

Body material	Brass, Stainless steel					
Sealing material	NBR			EPDM		VITON
Temperature	80°C			140°C		150°C
Insulation grade	H					
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz		12-24DC		
Power	22VA	22VA		15W / 17W		
Ambient temperature	-10°C-80°C					
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best					
Connection	The standard is G, and the thread requirements such as NPT can be selected.					
Voltage fluctuation	± 10%					
Can be equipped with coil	B11/B21/B31/B32/E11					

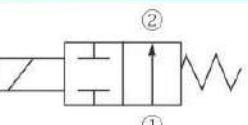
### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)				Model (voltage is 220v)X=N or E or V	Weight KG		
			Maximum working pressure							
			Air, gas		Water, liquid					
			AC	DC	AC	DC	brass	stainless steel		
1/8"	1.0	0.02	0	30	30	25	25	STP41-01K-11X		
1.2	0.03	0	26	26	20	20	STP41-A2K-11X			
1.5	0.06	0	20	20	15	15	STP41-A3K-11X			
2.0	0.08	0	18	18	13	13	STP41-02K-11X			
2.5	0.13	0	15	15	10	10	STP41-A4K-11X			
3.0	0.21	0	12	12	8	8	STP41-03K-11X			
4.0	0.35	0	10	10	6	6	STP41-04K-11X			
1/4"	1.0	0.02	0	30	30	25	25	STP41-01K-21X		
1.2	0.03	0	26	26	20	20	STP41-A2K-21X			
1.5	0.06	0	20	20	15	15	STP41-A3K-21X			
2.0	0.08	0	18	18	13	13	STP41-02K-21X			
2.5	0.13	0	15	15	10	10	STP41-A4K-21X			
3.0	0.21	0	12	12	8	8	STP41-03K-21X			
4.0	0.35	0	10	10	6	6	STP41-04K-21X			

### Overall dimension drawing



### Electrical symbols



### Coil picture



## STP51 2/2 way compact direct-acting solenoid valve normally closed type



### Features:

- 2/2 way direct acting type normally closed
- 0-16bar
- Flow channel 10-12mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) / lead connection



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

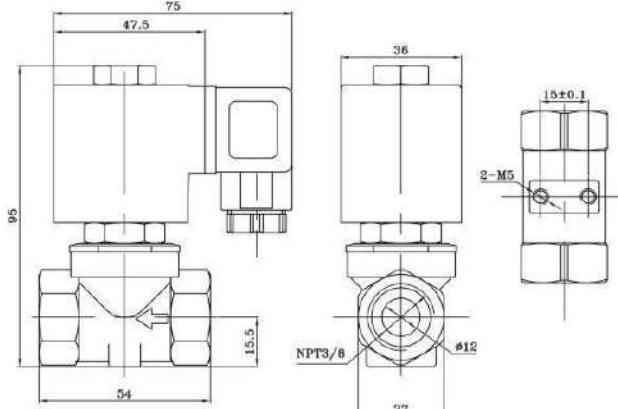
### General characteristics

Body material	Brass, Stainless steel					
Sealing material	NBR		EPDM			VITON
Temperature	80°C			140°C		150°C
Insulation grade	H					
Voltage	220-230VAC 50-60Hz		100-120VAC 60Hz		12-24DC	
Power	22VA		22VA		15W / 17W	
Ambient temperature	-10°C-80°C					
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best					
Connection	The standard is G, and the thread requirements such as NPT can be selected.					
Voltage fluctuation	± 10%					
Can be equipped with coil	B11/B21/B31/B32/E11					

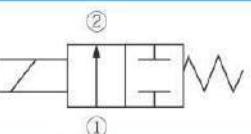
### Specification sheet

Connection way	Flow aperture/mm	KV value m <sup>3</sup> /h	Pressure difference(BAR)						Model (voltage is 220v)X=N or E or V	Weight KG		
			Maximum working pressure									
			Air, gas		Water, liquid		Light oil		Body material			
			AC	DC	AC	DC	AC	DC	brass	stainless steel		
1/4"	10	1.9	0	16	10	16	10	13	10	STP51-10-21X	STP51-10-22X	0.51
	12	2.1	0	16	10	16	10	13	10	STP51-12-21X	STP51-12-22X	0.51
3/8"	10	1.9	0	16	10	16	10	13	10	STP51-10-31X	STP51-10-32X	0.49
	12	2.1	0	16	10	16	10	13	10	STP51-12-31X	STP51-12-32X	0.49
1/2"	10	1.9	0	16	10	16	10	13	10	STP51-10-41X	STP51-10-42X	0.46
	12	2.1	0	16	10	16	10	13	10	STP51-12-41X	STP51-12-42X	0.46

### Overall dimension drawing



### Electrical symbols



### Coil picture



## DF cast iron flange series liquid solenoid valve



### Features:

- 2/2 way
- 0-10bar
- Flow channel 65-150mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber
- Suitable for water
- Provide IP65 three-pole connector in accordance with UNI ISO 4400 (DIN 43650A) (Normally open type )



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

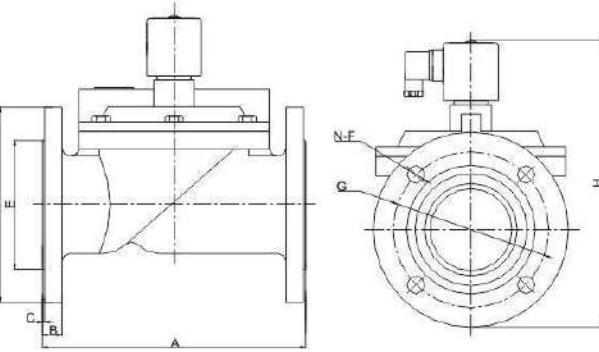
### General characteristics

Body material	Cast iron		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	18W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	A21		

### Specification sheet (Flange interface)

Connection way	Flow aperture/mm	Pressure difference(BAR)						Model (voltage is 220v)X=N or E or V	
		Maximum working pressure							
		Air, gas		Water, liquid		DC			
		AC	DC	AC	DC	AC	DC		
65F	65	0	10	8	10	8	8	DF-65F-A4X	
80F	80	0	10	8	10	8	8	DF-80F-B4X	
100F	100	0	10	8	10	8	8	DF-100F-C4X	
125F	125	0	10	8	10	8	8	DF-125F-D4X	
150F	150	0	10	8	10	8	8	DF-150F-E4X	

### Overall dimension drawing



model	A	B	C	ΦD	ΦE	ΦF	ΦG	H	N
DF-65F-A4X	250	20	3	185	118	18	145	260	4
DF-80F-B4X	270	18	2	200	132	18	160	275	4
DF-100F-C4X	350	20	2	220	160	18	180	310	8
DF-125F-D4X	400	25	3	250	184	18	210	380	8
DF-150F-E4X	450	24	3	285	212	22	240	405	8

## 2W series Brass Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way
- 0-8bar
- Flow channel 2.5-50mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- lead connection



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

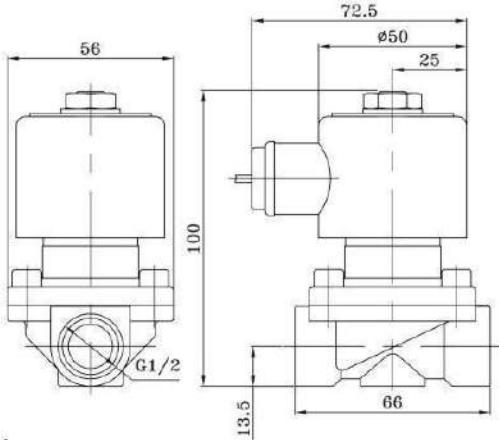
### General characteristics

Body material	Brass		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	8-20VA	8-20VA	8-20W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	A12/A32/A42		

### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)						Dimensions Length x width x height A x B x C	Model (voltage is 220V) X=N or E or V		
			Minimum pressure	Maximum working pressure								
				Air, gas	Water, hot water	Light oil	AC	DC				
1/4"	2.5	0.23	0	8	7	8	7	7	50×40.5×98	2W-A4-21X		
3/8"	4.0	0.6	0	8	7	8	7	7	50×40.5×98	2W-04-31X		
3/8"	15	1.86	0	8	7	8	7	4	66×56×100	2W-15-31X		
1/2"	15	2.1	0	8	7	8	7	4	66×56×100	2W-15-41X		
3/4"	20	5.7	0	8	7	8	7	4	73×57×123.5	2W-20-51X		
1"	25	9.6	0	8	7	8	7	4	99×73.5×134.5	2W-25-61X		
1 1/4"	32	22	0	8	7	8	7	4	112×95×172	2W-32-71X		
1 1/2"	40	27	0	8	7	8	7	4	123×95×172	2W-40-81X		
2"	50	35	0	8	7	8	7	4	168×123×209	2W-50-91X		

### Overall dimension drawing



model	A	B	C	G	Weight KG
2W-A4-21X	50	40.5	98	1/4"	0.64
2W-04-31X	50	40.5	98	3/8"	0.68
2W-15-31X	66	56	100	3/8"	0.9
2W-15-41X	66	56	100	1/2"	0.9
2W-20-51X	73	57	123.5	3/4"	1.0
2W-25-61X	99	73.5	134.5	1"	1.5
2W-32-71X	112	95	172	1 1/4"	2.4
2W-40-81X	123	95	172	1 1/2"	2.7
2W-50-91X	168	123	209	2"	4.5

## 2W series stainless steel Direct lifting diaphragm solenoid valve 2/2 way normally closed type



### Features:

- 2/2 way direct lifting diaphragm type normally closed
- 0-8bar
- Flow channel 15-100mm
- Detachable repair
- Sealing material: NBR rubber - EPDM rubber - fluoro rubber- specific material
- Suitable for water, air, water vapor, light oil, natural gas, etc.
- lead connection



### Product Description

The products are opened when powered on and closed when powered off. Being produced in series, the products have small volume, compact structure, large flow and wide application.

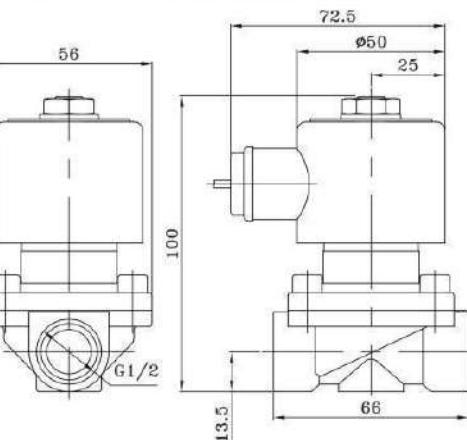
### General characteristics

Body material	Stainless steel		
Sealing material	NBR	EPDM	VITON
Temperature	80°C	140°C	150°C
Insulation grade	H		
Voltage	220-230VAC 50-60Hz	100-120VAC 60Hz	12-24DC
Power	22VA	22VA	18W
Ambient temperature	-10°C-80°C		
Installation	Installed according to the flow direction of the valve body, to improve the life and reliability, install it horizontal upward is best		
Connection	The standard is G, and the thread requirements such as NPT can be selected.		
Voltage fluctuation	± 10%		
Can be equipped with coil	A32/A42		

### Specification sheet

Connection way	Flow aperture mm	KV value m³/h	Pressure difference(BAR)						Dimensions Length x width x height A x B x C	Model (voltage is 220V) X=N or E or V		
			Minimum pressure	Maximum working pressure								
				Air, gas	Water, hot water	Light oil	AC	DC				
3/8"	15	1.86	0	8	7	8	7	7	2W-15-32X			
1/2"	20	2.1	0	8	7	8	7	7	2W-15-42X			
3/4"	25	5.7	0	8	7	8	7	7	2W-20-52X			
1"	32	9.6	0	8	7	8	7	7	2W-25-62X			
1 1/4"	40	22	0	8	7	8	7	7	2W-32-72X			
1 1/2"	50	27	0	8	7	8	7	7	2W-40-82X			
2"	65	35	0	8	7	8	7	7	2W-50-92X			
2 1/2"	80	22	0	8	7	8	7	7	2W-65-A2X			
3"	100	35	0	8	7	8	7	7	2W-80-B2X			
4"			0	8	7	8	7	7	2W-100-C2X			

### Overall dimension drawing



model	A	B	C	Weight KG
2W-15-32X	66	56	100	0.30
2W-15-42X	66	56	100	0.29
2W-20-52X	72	56	107	0.6
2W-25-62X	98	76	106	0.85
2W-32-72X	112	86.5	180	0.8
2W-40-82X	123	94	190	1.1
2W-50-92X	168	120	209	1.45
2W-65-A2X	177.5	121.5	205	2.3
2W-80-B2X	226	156	226	2.9
2W-100-C2X	232	156	226	4.8