

# Sanlixin Solenoid Valve

## ZCM Zero Pressure Differential Gas Solenoid Valve

### Using

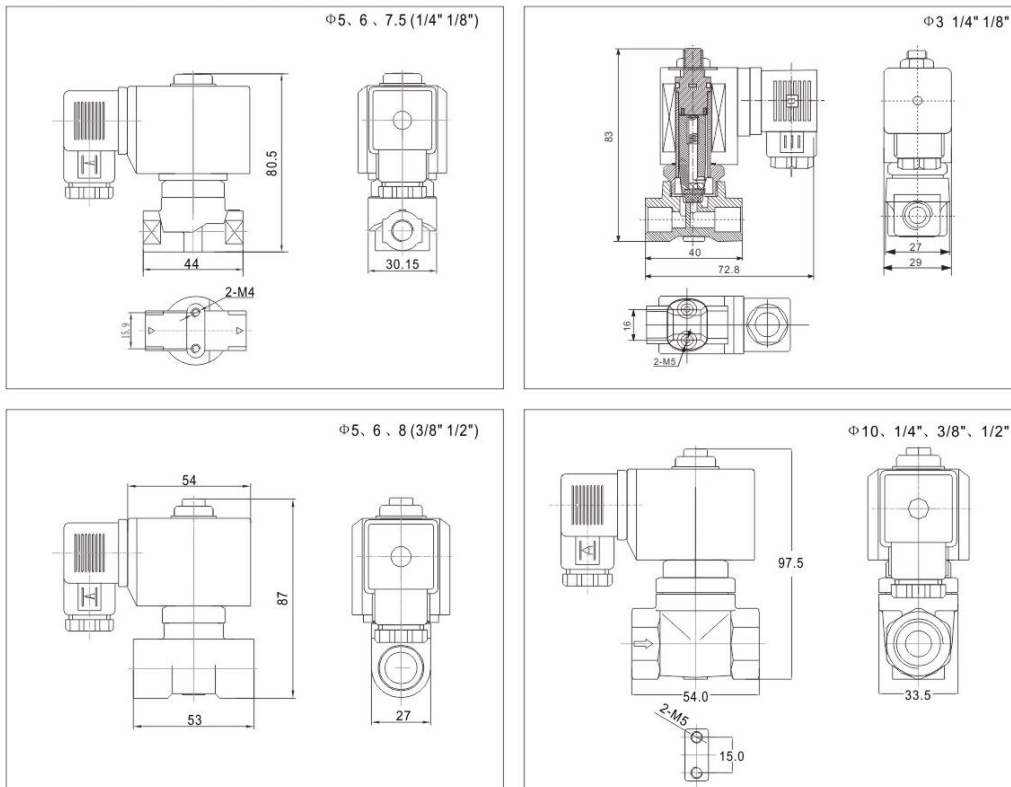
This series valve provide on-off control coal gas, natural gas, and other combustion fluid media, they also can control other low pressure fluids

### Characteristics

- 1 Special construction, low pressure
- 2 They are capable of operating at zero pressure differential, and have large flow.
- 3 Use high quality seals, no leaking.
- 4 Best position is solenoid vertical and upright direction, Flow as the arrow.
- Explosion- proof coil and be fitted ( for orifice under 25MM only)
- Explosion-proof certification NO.: Refer to standard: GB3836 · 9
- Explosion-proof Symbol: Exm I/II T4



### External Dimensions Chart



## ZCM Zero Pressure Differential Gas Solenoid Valve

### Parameters

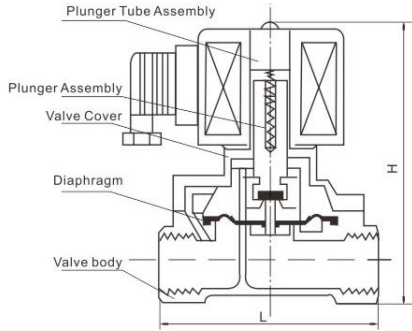
Orifice (mm)	3	5	6	8	10	15	20	25	32	40	50	65	80	100	
CV Factor	0.3	0.6	0.7	1.0	1.7	4.6	7.6	12	20	28	46	75	90	160	
Max. kgf/cm <sup>2</sup>	5	3	2.5	0.5	0.3	2.5		2.5		2.5					
Fluid Media	Coal Gas\Natural Gas\Other Normally Gas and Fluids etc														
Seals	NBR / VITON														
Fluid Temp	- 5 ~ + 6 0°C														
Voltage	A C : 2 2 0 V				1 1 0 V		3 6 V		2 4 V		D C : 2 4 V		1 2 V		
Power Consumption	1 5 W							3 0 W			5 0 W				

### SLP Series Coils Characteristics List (Small size direct acting Normally Closed)

Model	Orifice mm	Pipe size	L(mm)	H(mm)	Body Material	Brass Weight (KG)	SS Weight (KG)		
ZCM-3	3	1/8"	40	83	Brass Stainless Steel	0.48	0.48		
ZCM-3	3	1/4"	40	83		0.62	0.62		
ZCM-5	5	1/8"	43.4	80.5					
ZCM-5	5	1/4"	43.4	80.5					
ZCM-5	5	3/8"	53	87					
ZCM-5	5	1/2"	53	87					
ZCM-6	6	3/8"	53	87					
ZCM-6	6	1/2"	53	87					
ZCM-8	7.5(8)	3/8"	53	87					
ZCM-8	7.5(8)	1/2"	53	87					
ZCM-10	10	3/8"	54	97.5				0.62	—
ZCM-10	10	1/2"	54	97.5					
ZCM-15	15	1/2"	69	117				0.9	0.8
ZCM-20	20	3/4"	73	123				1.0	1.1
ZCM-25	25	1"	99	135				1.54	1.5
ZCM-32	32	1 1/4"	112	175				2.23	2.3
ZCM-40	40	1 1/2"	123	175				2.7	2.9
ZCM-50	50	2"	168	209				4.4	4.7

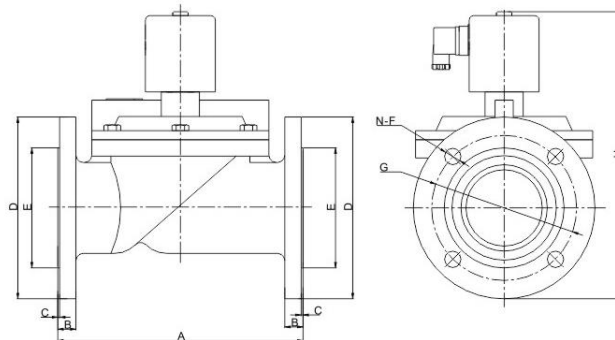
# ZCM Zero Pressure Differential Gas Solenoid Valve

## Construction&External Dimension Chart(large size)



"E" : If you want the EX-PROOF coil please tell us

## Construction&External Dimension Chart(large size:flange)



### Parameters

Model	A	B	C	ΦD	ΦE	ΦF	ΦG	H	N	Body	Weight(KG)
ZCM-40F	155	15	2	150	88	18	110	210	4	Cast Iron	———
ZCM-50F	200	16	2	160	88	18	125	240	4		
ZCM-65F	250	20	3	185	118	18	145	290	4		
ZCM-80F	270	18	2	200	132	18	160	310	4		
ZCM-100F	350	20	2	220	160	18	180	350	8		
ZCM-65BF	250	19	3	185	118	18	145	208	4	SS304	15.2
ZCM-80BF	270	19	3	202	134	18	160	320	4		18
ZCM-100BF	342	21	3	222	162	18	180	345	8		23.5

## SLB 2/2-way High (Low) Temperature Solenoid Valve • Normally Closed

- SLB series solenoid valve it is serialized products, large flow rate, good applicability, widely used in steam, oil and the other high & low temperature liquid control.
- Adopted high temperature resistance seal material-PTFE (which material import), when the media passage the properties is good.
- Coils type: high temperature resistance coil meanwhile has the heat conduction protection.
- Ensure the long life time and high reliability.



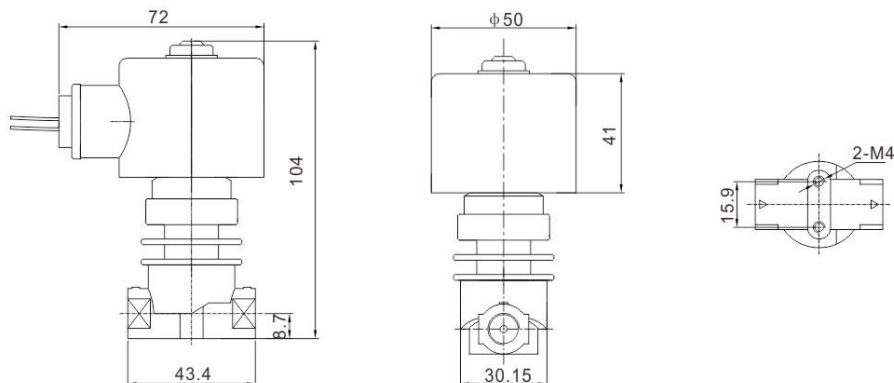
### Main Technical Parameters

1. 2/2-way solenoid valve, closed when de-energized, open when energized.
2. Main material: body: forged brass component: stainless steel
3. Seal material: teflon
4. Ambient temp.: -20~65°C
5. Operating pressure: 0.0~50.0 kgf/cm<sup>2</sup>
6. Media temp.: low temp.: -100°C~-10°C high temp.: 99°C~200°C
7. Media: high temperature: steam, heat conducting oil and so on  
low temperature: n<sub>2</sub>, o<sub>2</sub>, co<sub>2</sub>  
attention: under the nature temperature, such as air, water and the other media, please choose the other economy & suitable solenoid valve.
8. Voltage: ac24v/110v/240v/230v 50/60hz dc12v/24v  
power consumption: ac27va (16w) dc24w  
voltage tolerance: -10%~+10%  
coils type: w (normal) a=din standard, metallic housing  
safty series: class h heat resistance coil, ip 65
9. Install: flow as the arrow, solenoid vertical and upright direction. if media has the granule impurity, please install more than 60 mesh filter.

### Normally Closed



### External Dimensions



## Sanlixin Solenoid Valve

### **SLB 2/2-way High (Low) Temperature Solenoid Valve • Normally Closed**

#### Valve Slection List

Connection	Orifice (mm)	CV Factor	Operating Pressure kgf/cm <sup>2</sup>			Fluid temp		Coil Type	Model Code AC220V TEFLON+Forged Brass	N.W. (Kg)
			Min	Max		Low Temp °C	Steam °C			
				Low Temp	Steam					
1/8"	1.5	0.08	0	50	30	-100~ -10	99~200	W	SLB1WH02T1AC2	0.6
1/8"	2.0	0.14	0	30	20	-100~ -10	99~200	W	SLB1WH02T1A02	0.6
1/8"	2.5	0.23	0	17	17	-100~ -10	99~200	W	SLB1WH02T1AC3	0.6
1/8"	3.0	0.3	0	13	13	-100~ -10	99~200	W	SLB1WH02T1A03	0.6
1/8"	4.0	0.6	0	7	7	-100~ -10	99~200	W	SLB1WH02T1A04	0.6
1/4"	1.5	0.08	0	50	30	-100~ -10	99~200	W	SLB1WH02T1BC2	0.6
1/4"	2.0	0.14	0	30	20	-100~ -10	99~200	W	SLB1WH02T1B02	0.6
1/4"	2.5	0.23	0	17	17	-100~ -10	99~200	W	SLB1WH02T1BC3	0.6
1/4"	3.0	0.3	0	13	13	-100~ -10	99~200	W	SLB1WH02T1B03	0.6
3/8"	4.0	0.6	0	7	7	-100~ -10	99~200	W	SLB1WH02T1C04	0.7
3/8"	5.0	0.65	0	5	5	-100~ -10	99~200	W	SLB1WH02T1C05	0.7
3/8"	6.0	0.8	0	4	4	-100~ -10	99~200	W	SLB1WH02T1C06	0.7
1/2"	5.0	0.65	0	5	5	-100~ -10	99~200	W	SLB1WH02T1D05	0.7
1/2"	6.0	0.8	0	4	4	-100~ -10	99~200	W	SLB1WH02T1D06	0.7

#### Solenoid Valve Numbering System for Order

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
	Valve Series	Mode of Operation	Coil Type	Voltage	Seal Material Body Material	Pipe Size	Orifice	Options
E.G.	<b>SLB</b>	<b>1</b>	<b>W H</b>	<b>02</b>	<b>T1</b>	<b>B</b>	<b>02</b>	
		1= Normally Closed 2= Normally Open	W=Metallic Housing Lead Wires H CLASS A=DIN Standard Connections H CLASS	02=AC220V 01=AC110V 08=AC380V 12=DC12V 13=DC24V	T= Teflon 1= Forged Brass 4=SS304	A=1/8" B=1/4" C=3/8" D=1/2"	C2=1.5 02=2.0 C3=2.5 03=3.0 04=4.0 05=5.0 C2=1.5 02=2.0 C3=2.5 03=3.0 04=4.0 05=5.0 05=5.0 06=6.0 05=5.0 06=6.0	N=NPT Thread



# SLB 2/2-way High (Low) Temperature Solenoid Valve • Normally Closed

- SLB Series solenoid valve it is serialized products, large flow rate, good applicability. Widely used in steam, oil and the other high & low temperature liquid control.
- Adopted high temperature resistance seal material- PTFE (which material is import), when the media passage the properties is good.
- Coils type: high temperature resistance coil meanwhile has the heat conduction protection.
- Ensure the long life time and high reliability.
- Main Technical Parameters



## Main Technical Parameters

1. 2/2-Way solenoid valve, Closed when de-energized, open when energized.
2. main material: body: forged brass component: stainless steel
3. Seal Material: TEFLON
4. Ambient Temp.: -20~65°C
5. Operating Pressure: 1.0~10.0kgf/cm<sup>2</sup> Max.: 15.0kgf/cm<sup>2</sup>
6. media Temp.: low Temp.: -100°C~-10°C high Temp.: 99°C~185°C
7. media: high temperature: steam, heat conducting oil and so on  
low temperature: N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub>  
Attention: Under the nature temperature, such as air, water and the other media, please choose the other economy & suitable solenoid valve.
8. Voltage: AC24V/110V/240V/230V 50/60HZ DC12V/24V  
Power Consumption: AC27VA (16W) DC24W  
Voltage Tolerance: -10%~+10%  
Coils type: W (Normal)=Lead Wires A=DIN Standard, Metallic Housing  
Safety Series: Class H Heat resistance coil, IP 65
9. Install: Flow as the arrow, solenoid vertical and upright direction. If media has the granule impurity, please install more than 60 mesh filter.

## Solenoid Valve Numbering System for Order

	1	2	3	4	5	6	7	8
	Valve Series	Mode of Operation	Normally Closed	Voltage	Seal Material & Body Material	Pipe Size	Orifice	Options
E.G.	<b>SLB</b>	<b>1</b>	<b>WH</b>	<b>02</b>	<b>T1</b>	<b>E</b>	<b>20</b>	
		1= Normally Closed 2= Normally Open	W=Metallic Housing Lead Wires H CLASS A=DIN Standard Connections H CLASS	02=AC220V 01=AC110V 08=AC380V  12=DC12V 13=DC24V	T= Teflon  1=Forged Brass  4=SS304	C=3/8"  D=1/2"  E=3/4"  G=1"  H=1 1/4"  J=1 1/2"  F=Flange	10=10.0 13=13.0  10=10.0 13=13.0  20=20.0  25=25.0  32=32.0  40=40.0  25=DN25 32=DN32 40=DN40	N= NPT Thread

# Sanlixin Solenoid Valve

## SLB 2/2-way High (Low) Temperature Solenoid Valve · Normally Closed

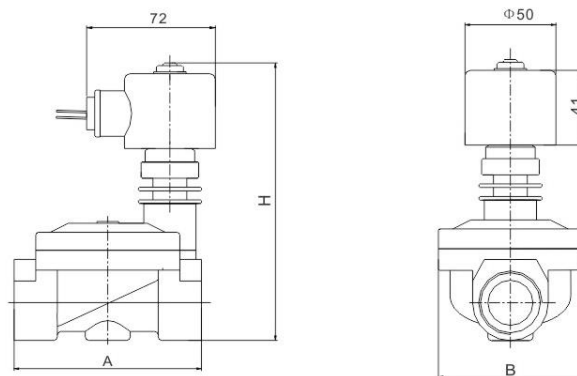
### valve selection list

Pipe Size	Orifice (mm)	CV Factor	Operating Pressure kgf/cm <sup>2</sup>			Fluid temp°C		Coil Type	External Size mm			Model Code AC220V	Weight (KG)
			Min	Max		Low Temp	Steam		A	B	C		
				Low Temp	Steam								
3/8"	13	4.2	1	15	10	-80~-10	99~185	W	75	52	136	SLB1WH02T1C13	1.1
1/2"	13	4.2	1	15	10	-80~-10	99~185	W	75	52	136	SLB1WH02T1D13	1.1
3/4"	20	7.3	1	15	10	-80~-10	99~185	W	80	58	141	SLB1WH02T1E20	1.2
1"	25	11.5	1	15	10	-80~-10	99~185	W	104	80	152	SLB1WH02T1G25	1.7
1 1/4"	32	22.0	1	15	10	-80~-10	99~185	W	130	92	173	SLB1WH02T1H32	3.1
1 1/2"	40	29.0	1	15	10	-80~-10	99~185	W	130	90	173	SLB1WH02T1J40	3.0

### Normally Closed



### External Dimensions



# Sanlixin Solenoid Valve

## SAV Direct Acting Gas Solenoid Valve

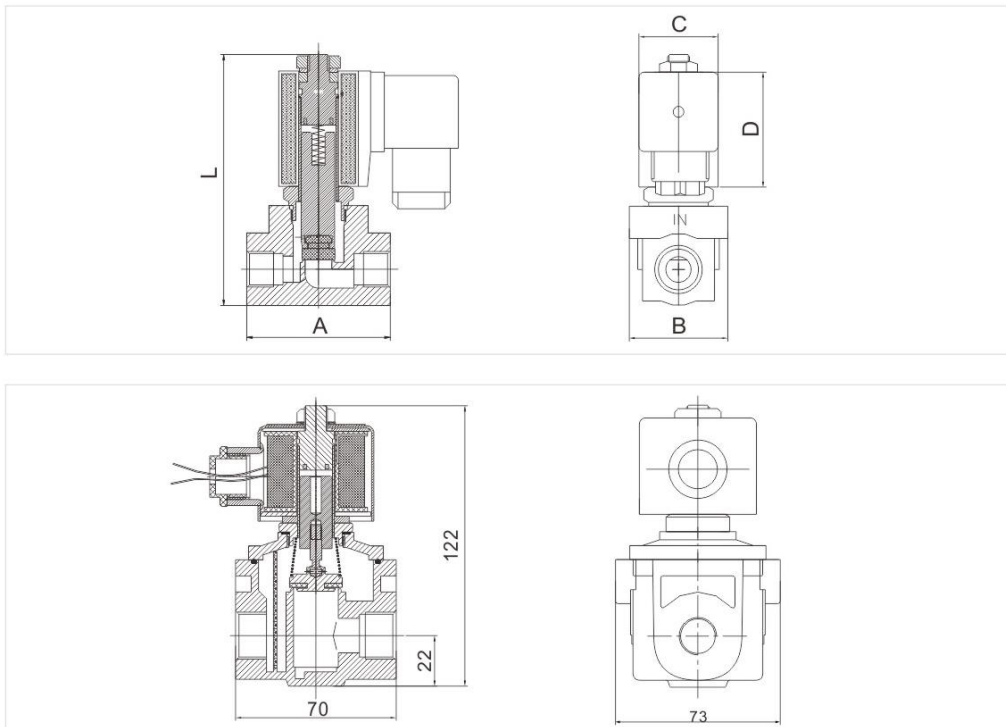
SAV series gas solenoid valve used in the Bumer, Hear Equipment, Industrial Furnace and so on of the gas or air media. So as to achieve the procedure control or long-distance control of systems and equipment.

### Main Technical Parameters

1. direct acting zero differential pressure, large flow rate
2. 2-way normally closed solenoid valve, closed when de-energized, open when energized.
3. open and closed time: <1 second
4. material: main valve body material: die-casting aluminium, others: stainless steel/ brass
5. seal material: nitrile
6. media: coal gas, nature gas, air and the other normal non-etchant gas
7. media temp.: <65°C ambient temp.: 0~50°C
8. voltage: dc12v dc24vac220v/50hz class: h ed100% voltage tolerance: -10%~+10%
9. it can used explosion-proof coil, ex class: exm i/ii t4
10. install: flow as the arrow, solenoid vertical and upright direction
11. Parts of coil can fix SM Coil. AC 220V/AC110V/AC24V/DC24V



### External Dimensions





## SAV Direct Acting Gas Solenoid Valve

### valve selection list

Connection	Orifice (mm)	CV Factor	Operating Pressure(mbar) kgf/cm <sup>2</sup>		Power Consumption		Coil Type	external size mm			Model Code AC220V	N.W. (KG)
			Min	Max	AC	DC		A	B	H		
			V	A	W							
1/4"	9	1.2	0	600	22	13	D	51	35	91	SAV1DF02N8B09	0.3
3/8"	9	1.4	0	600	22	13	D	51	35	91	SAV1DF02N8C09	0.3
1/2"	9	1.4	0	600	22	13	D	51	35	91	SAV1DF02N8D09	0.3
	19	7.5	0	360	33	20	A	70	73	122	SAV1AF02N8D19	0.7
3/4"	19	7.5	0	360	33	20	A	70	73	122	SAV1AF02N8E20	0.7
1"	25	13	0	360	33	20	A	90	75	127	SAV1AF02N8G25	1.5
1 1/4"	45	31	0	500	41	34	A	137	122	208	SAV1AF02N8H45	3.0
1 1/2"	45	31	0	500	41	34	A	137	122	208	SAV1AF02N8J45	3.0
2"	45	31	0	500	41	34	A	137	122	208	SAV1AF02N8K45	3.0

### Solenoid Valve Numbering System for Order

	1	2	3	4	5	6	7	8	9
	Valve Series	Mode of Operation	Coil Type	Coils Class	Voltage	Seal Material & Body Material	Pipe Size	Orifice	Options
E.G.	<b>SAV</b>	<b>1</b>	<b>A</b>	<b>H</b>	<b>02</b>	<b>N8</b>	<b>E</b>	<b>20</b>	<input type="checkbox"/>
	Special for Gas Solenoid Valve Main body material :Anodized Aluminium	1= Normally Closed 2= Normally Open	W=Metallic Housing Lead Wires A=DIN Standard Connections, Ironclad Coils D=DIN Standard Connections, Fully Encapsulated X=Explosion-proof	F= F class H= H class	02=AC220V 01=AC110V 08=AC380V 12=DC12V 13=DC24V	Seal Material: NBR Body Material: Aluminium	B=1/4" C=3/8" D=1/2" E=3/4" G=1" H=1 1/4" J=1 1/2" K=2"	06=6.0 09=9.0 06=6.0 09=9.0 09=9.0 19=19.0 20=20.0 25=25.0 45=45.0	N= NPT Thread

## Sanlixin Solenoid Valve

### **SCF Fuel Gas Emergency Cut Off Solenoid Valve**

#### Product Characteristics

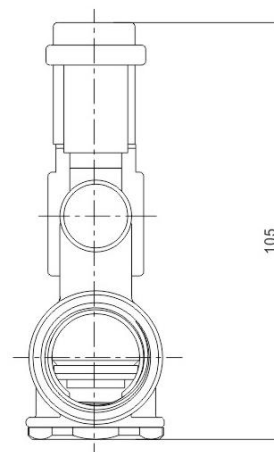
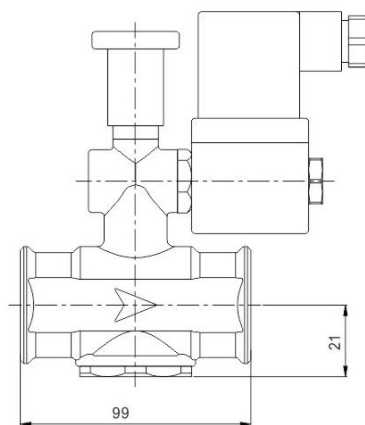
- 1: SCF series is the normally open valve.
- 2: The valve in daily work is normally open. coils be de-energized
- 3: When the accident happens, coils has energized. through the internal spring instructions reaction. the valve quickly closed. if this time to cut off the power the valve still closed. After deal with the accident please press the black button so that the valve open and working.

#### Main Parameters

- 1: 2/2-way solenoid valve
- 2: Body: Forged brass
- 3: Seals: VITON (NBR)
- 4: Media: Gas, nature gas, lpg, etc
- 5: Ambient temp: -15°C ~ +60°C
- 6: Voltage: DC12V, DC24V, AC220V/50HZ
- 7: On/off: < 1S
- 8: Max. pressure: 500mbar
- 9: Wounting: flow as arrow



#### External Dmension



## SCF Fuel Gas Emergency Cut Off Solenoid Valve

### Valve selection list

Pipe Size	Orifice φ mm	Factor CV	Working Pressure mbar		Power		Coils Type	Size mm		Model AC220V	Weight (KG)
					AC	DC		L (A)	W (B)		
			Min	Max	V A	W					
1/2"	15	5	0	500	8	7	D	66	107	SCF2DF02VID15M	0.55
3/4"	20	7.5	0	500	8	7	D	66	107	SCF2DF02VIE20M	0.48
1"	25	13	0	500	8	7	D	82	122	SCF2DF02VIG25M	0.78

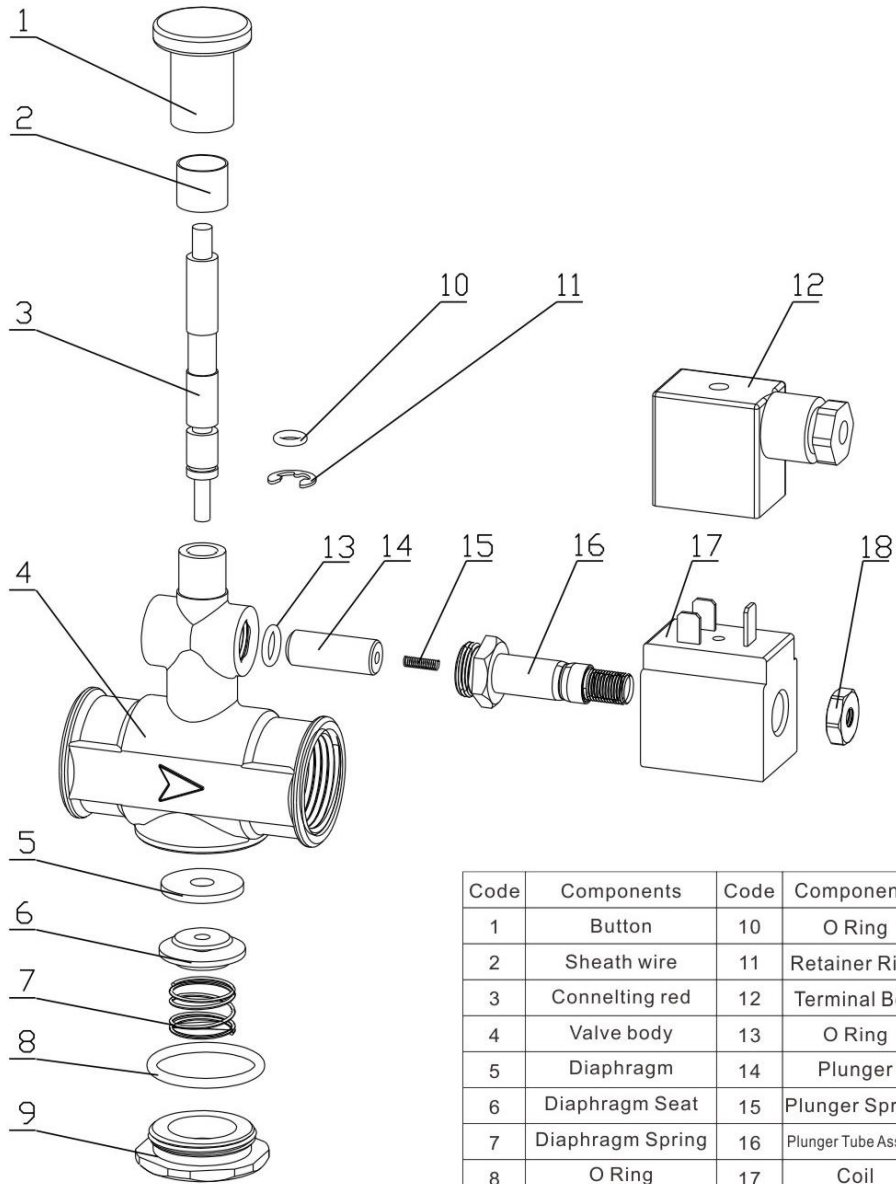
### Solenoid Valve Numbering System for Order

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
	Valve Series	Mode of Operation	Coil Type	Coils Class	Voltage	Seal Material & Body Material	Pipe Size	Orifice	Options
E.G.	<b>SCF</b>	<b>2</b>	<b>D</b>	<b>F</b>	<b>02</b>	<b>V/1</b>	<b>D</b>	<b>15</b>	<b>M</b>
	Fuel Gas Emergency Cut Off Solenoid Valve	2= Normally Open	D=DIN Standard Connection Fully Encapsulated	F= F Class H= H Class	02=AC220V 01=AC110V 12=DC12V 13=DC24V	V=VITON  1=Forged Brass  6=Iron	D=1/2"  E=3/4"  G=1"	15=15.0  20=20.0  25=25.0	N=NPT Thread  M= Manual override

# Sanlixin Solenoid Valve

## **SCF Fuel Gas Emergency Cut Off Solenoid Valve**

### Components



Code	Components	Code	Components
1	Button	10	O Ring
2	Sheath wire	11	Retainer Ring
3	Connelting red	12	Terminal Box
4	Valve body	13	O Ring
5	Diaphragm	14	Plunger
6	Diaphragm Seat	15	Plunger Spring
7	Diaphragm Spring	16	Plunger Tube Assembly
8	O Ring	17	Coil
9	Bottoun End Cover	18	Nut

## SCF Large diameter Emergency Cut Off Solenoid Valve

### Main Parameters

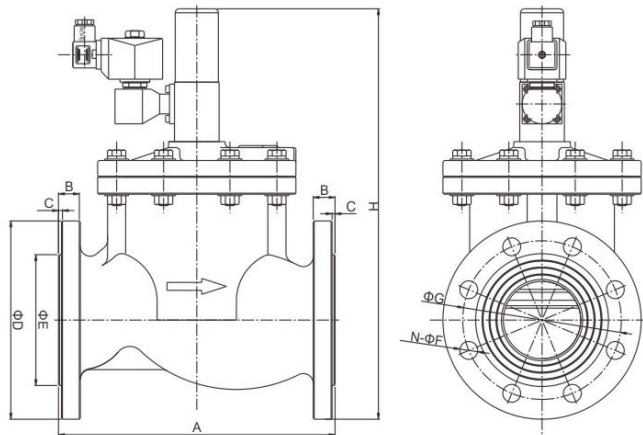
- 1: 2/2-way solenoid valve
- 2: Body: Iron
- 3: Seals: VITON (NBR)
- 4: Media: Gas, nature gas, lpg, etc
- 5: Ambient temp: -15°C ~ +60°C
- 6: Voltage: AC220V/50HZ, DC12V, DC24V,
- 7: On/off: <1S
- 8: Working pressure: 0-6bar
- 9: Wounting: flow as arrow.



### Valve slection list(Flange)

Pipe Size	Orifice $\phi$ mm	Factor CV	Working Pressure (bar)		Power		Coils Type	Model AC220V
			Min	Max	AC	DC		
					V A	W		
65F	63	52	0	6	57	25	D	SCF2DF02V6F65M
80F	80	81	0	6	57	25	D	SCF2DF02V6F80M
100F	96	127	0	6	57	25	D	SCF2DF02V6F100M

### External Dimensions Chart



Model	A	B	C	$\Phi$ D	$\Phi$ E	$\Phi$ F	$\Phi$ G	H	N	Weight (KG)
SCF-65F	240	20	3	185	118	18	145	392	4	23.7
SCF-80F	280	22	3	200	132	18	160	415	8	29.1
SCF-100F	320	25	3	220	160	18	180	447	8	44.8

## SBLF Series Gas station special Solenoid Valve

This valve special used for gas. oil station recycle.  
Match GB3836 and GB3836.9 standard.

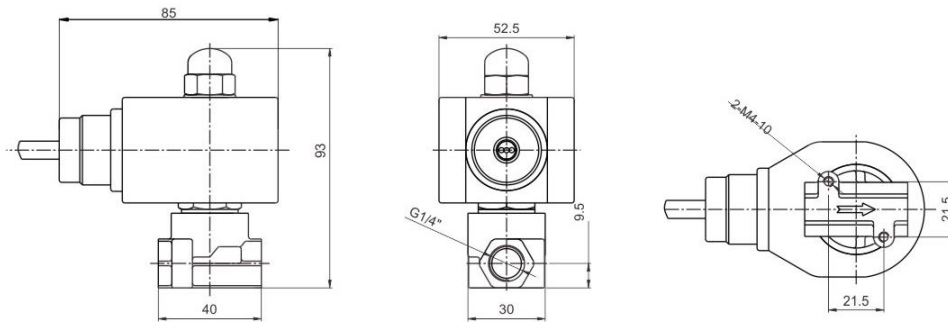
1. Body material: Brass
2. Voltage: 24VDC+/-10%
3. Ambient temperature: -40°C~+55°C
4. Pipe size: 1/8~1/4
5. Power: 8.2W
6. Surface High temperature: T3
7. Technical characteristics:  
Late delay < 8%    repeatability < 5%    Sensitivity < 3%
8. Voltage range: 24VDC pulse width modulation (600 to 800Hz)  
or PWM pulse width scheduling control.
9. Ex mb IIC T3 Gb



### Solenoid Valves Numbering System for Order

Position description	1	2	3	4	5	6	7	8	9	10
	Valve Series	Mode of Operation	Coil Type	Coil Class	Voltage	Seal Material	Body Material	Pipe Size	Orifice (φ mm)	Options
E.G.	SBLF	1	X	F	13	V	1	B	C7	□
	<b>SBLF Series</b>	1: Normally Closed	X: Ex-proof coil	F: F Class	13=DC24V	V=VITON	1=Forged Brass	A=1/8 B=1/4	C7=5.5	L: Neon Lamp N: NPT Connection P: PT R: RC

### External Dimensions Chart



### Valve Selection List

Pipe Conn-ection	Orifice (mm)	CV Factor	Operating pressure differential (kgf/cm <sup>2</sup> )		Coil Type	Coil Class	Power consumption DC 24V	Max. Fluids Temp. °C	Model Code	Weight (KG)
			Min.	Max.					Brass	
1/8"	5.5	0.65	0	0.5	X	F	8.2	130	SBLF1XF13V1AC7	0.8
1/4"	5.5	0.65	0	0.5	X	F	8.2	130	SBLF1XF13V1BC7	0.8