

## Products catalog

### Water air liquid solenoid valve

#### RSP pilot operated solenoid valve

Valvebody material: brass, SS316 Interface size: 1/4" ~ 2"  
Working type: pilot operated ( NC, NO )  
Working pressure: 0.1 ~ 16bar  
Orifice size:  $\Phi$ 10 ~ 50mm Flange: DN15~50mm



P01~07

#### 2W direct acting solenoid valve

Valvebody material: brass, SS304  
Interface size: 1/8" ~ 2" Flange DN18 ~ 50mm  
Working type: direct acting, semi-direct acting ( NC NO )  
Working pressure: 0 ~ 20bar Orifice size:  $\Phi$ 1.5 ~ 50mm



P08~18

#### DFD/DG pilot operated solenoid valve

Valvebody material: brass, SS304, cast iron, ductule iron  
Interface size: 1/2" ~ 3" Flange: DN25 ~ 200mm  
Working type: pilot operated ( NC, NO )  
Working pressure: 0.3 ~ 16bar Orifice size:  $\Phi$ 13 ~ 200mm



P19~28

#### Signal feedback solenoid valve

Body material: brass, SS304, cast iron  
Interface size: 1/2" ~ 2"  
Orifice size: DN15~100mm  
Action type: semi-direct acting, pilot  
Working pressure: 0 ~ 7bar



P29

#### ZW direct acting solenoid valve

Valvebody material: brass, SS304  
Working pressure: 0 ~ 10bar  
Working type: semi-direct acting ( NC, NO )  
Interface size: 3/8" ~ 2" Orifice size:  $\Phi$ 15 ~ 50mm

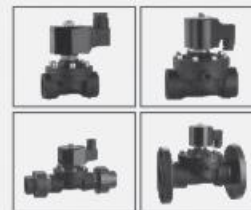


P30

### Water air liquid plastic solenoid valve

#### 2W-SL semi-direct acting plastic solenoid valve

Valvebody material: PA66  
Working type: semi-direct acting ( NC, NO )  
Working pressure: 0 ~ 7bar  
Interface size: 1/2" ~ 2" Flange and loose joint: DN15 ~ 50mm



P31~32

## Products catalog

### Water air liquid plastic solenoid valve

#### YSA pilot operated plastic solenoid valve

Valvebody material: PA66  
Working type: pilot operated ( NC, NO )  
Working pressure: 0.3 ~ 8bar  
Interface size: 1/2" ~ 3" Flange and loose joint: DN15 ~ 80mm



P33~34

### Steam solenoid valve

#### PS steam solenoid valve

Valvebody material: brass, SS304  
Interface size: 1/4" ~ 2" Flange DN18 ~ 80mm  
Working type: pilot operated ( NC, NO )  
Working pressure: 0.1 ~ 16bar Orifice size:  $\Phi$ 8 ~ 80mm



P35~39

#### RSPS zero differential pressure steam solenoid valve

Valvebody material: brass, SS304  
Interface size: 1/4" ~ 2" Flange DN18 ~ 50mm  
Working type: semi-direct acting ( NC )  
Working pressure: 0 ~ 10bar Orifice size:  $\Phi$ 15 ~ 50mm



P40~44

#### 2L piston steam solenoid valve

Valvebody material: brass, SS304  
Working type: pilot operated ( NC )  
Working pressure: 0.5 ~ 10bar  
Interface size: 1/2" ~ 2" Orifice size:  $\Phi$ 17 ~ 38mm



P45

### High pressure solenoid valve

#### YSE high pressure solenoid valve

Valvebody material: SS304  
Working type: direct acting, pilot operated ( NC, NO )  
Working pressure: 0 ~ 300bar  
Interface size: 1/4" ~ 1" Orifice size:  $\Phi$ 1 ~ 25mm



P46

#### YSI piston high pressure solenoid valve

Valvebody material: SS304  
Interface size: 1/2" ~ 2" Flange DN15 ~ 50mm  
Working type: pilot operated ( NC, NO )  
Working pressure: 6 ~ 100bar Orifice size:  $\Phi$ 15 ~ 50mm



P47~48

## Products catalog

### High pressure solenoid valve

#### YSP piston high pressure solenoid valve

Valvebody material: SS304  
Interface size: 1/2" ~ 2" Flange DN15 ~ 50mm  
Working type: pilot operated ( NC NO )  
Working pressure: 0.5 ~ 50bar Orifice size: Φ15 ~ 50mm



P49~50

### Medium pressure solenoid valve

#### RSQ low power solenoid valve

Valvebody material: brass, SS304  
Working type: pilot operated ( NC )  
Working pressure: 0.3 ~ 16bar  
Interface size: 1/2" ~ 2" Orifice size: Φ13.5 ~ 50mm



P51

#### RSV low power solenoid valve

Valvebody material: brass  
Working type: direct acting, pilot operated ( NC )  
Working pressure: 0 ~ 8bar  
Interface size: 1/8" ~ 1" Orifice size: Φ2.5 ~ 25mm



P52

### Underwater fountain solenoid valve

#### SLDF underwater fountain solenoid valve

valvebody material: brass, SS304, cast iron, PA66  
Interface size: 1/2" ~ 2" Flange: DN15 ~ 200mm  
working type: semi-direct acting, pilot operated ( NC,NO )  
working pressure: 0 ~ 8bar Orifice size: Φ15 ~ 200mm

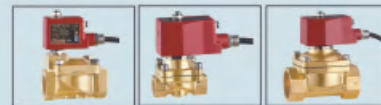


P53~54

### Explosion-proof solenoid valve

#### Encapsulated explosion-proof solenoid valve

Body material: brass, SS304, cast iron  
Connection size: thread: 1/8" ~ 2" Flange: DN15 ~ 200mm  
Action type: direct acting, semi-direct acting, pilot  
Working pressure: 0 ~ 150bar Orifice size: Φ1 ~ 200mm



P55~56

#### ZCSB explosion-proof solenoid valve

Valvebody material: brass, SS304, cast iron  
Interface size: 1/8" ~ 2" Flange: DN15 ~ 200mm  
Working type: direct acting, pilot operated ( NC,NO )  
Working pressure: 0 ~ 16bar Orifice size: Φ15 ~ 200mm



P57~58

## Products catalog

### Gas solenoid valve

#### ZCM gas solenoid valve

Valvebody material: brass, SS304, cast iron  
Interface size: 1/8" ~ 2" Flange: DN15 ~ 100mm  
Working type: direct acting, semi-direct acting ( NC, NO )  
Working pressure: 0 ~ 4bar Orifice size: Φ3 ~ 100mm



P59~61

### Anti-corrosive solenoid valve

#### ZCF anti-corrosive solenoid valve

Valvebody material: PTFE  
Working type: direct acting ( NC, NO )  
Working pressure: 0 ~ 4bar  
Interface size: 1/4" ~ 1"  
Orifice size: Φ2 ~ 11mm



P62~63

#### ZCF-P anti-corrosive solenoid valve

Valvebody material: UPVC, CPVC  
Working type: pilot operated ( NC, NO )  
Working pressure: 0 ~ 6bar  
Interface size: 1/4" ~ 2"  
Orifice size: Φ2 ~ 50mm



P64~65

### Bistable latching solenoid valve

#### YSG series bistable latching solenoid valve

Body material: PA66, SUS304, cast iron  
Connection type: thread: 1/2" ~ 2" Flange: DN65 ~ 200mm  
Working type: pilot NC Working pressure: 0.3 ~ 8bar  
Orifice size: Φ15 ~ 200mm



P66~68

#### RSZ bistable latching solenoid valve

Body material: brass, SUS304  
Working type: pilot NC  
Working pressure: 0.3 ~ 8bar  
Interface size: 3/8" ~ 2"  
Orifice size: Φ13 ~ 50mm



P69

#### YSZ bistable latching solenoid valve

Valvebody material: brass, SS304, PA66  
Working type: direct acting, pilot operated ( NC )  
Working pressure: 0 ~ 16bar  
Interface size: 1/8" ~ 2"  
Orifice size: Φ2 ~ 50mm



P70

## Products catalog

### Vacuum solenoid valve

#### ZK series Vacuum solenoid valve

Body material: brass, SUS304  
Interface size: 1/4" ~ 2" Flange: DN65 ~ 100mm  
Working type: direct acting, semi-direct acting  
Working pressure: -1 ~ +1bar



P71

### Large size 3-way solenoid valve

#### 231D series 2-position 3-way solenoid valve

Body material: SUS304 Interface size: 3/8" ~ 1"  
Working type: semi direct acting  
Control method: 2 in 1 out (hybrid), 1 in 2 out (diverted), 1 in 1 out (reversed)  
Working pressure: 0 ~ 10bar Orifice size: Φ15 ~ 25mm



P72

### Small size 3-way solenoid valve

#### 231Y VX3 3/2RSW 3-way mini solenoid valve

Valvebody material: brass, SS304 Interface size: 1/8" ~ 1/4"  
Working type: direct acting ( NC )  
Working pressure: 0 ~ 12bar Orifice size: Φ1.5 ~ 3mm



P73

#### VMI 3-way mini solenoid valve

Valvebody material: brass, SS304 Interface size: G1/4"  
Working type: direct acting ( NC, NO universal )  
Working pressure: 0 ~ 13bar Orifice size: Φ1.6 ~ 4mm



P74

### Ro machine water dispenser solenoid valve

#### RSC RO machine water dispenser solenoid valve

Valvebody material: PP, POM  
Interface size: 1/8" ~ 1/4", cannula  
Working type: direct acting ( NC )  
Working pressure: 0 ~ 8bar Orifice size: Φ2.5 ~ 12mm



P75~76

### Miniature ( water air, liquid ) solenoid valve

#### UD mini solenoid valve

Valvebody material: brass, SS304  
Working type: direct acting pilot operated ( NC NO )  
Working pressure: 0 ~ 30bar  
Interface size: 1/8" ~ 1/2" Orifice size: Φ1.5 ~ 15mm



P77

#### YSV YSV-K VX2 mini solenoid valve

Valvebody material: brass, SS304  
Working type: direct acting ( NC NO )  
Working pressure: 0 ~ 30bar  
Interface size: 1/8" ~ 1/2" Orifice size: Φ1.5 ~ 6mm



P78

## Products catalog

### Miniature ( water air, liquid ) solenoid valve

#### RSSM RSW RST mini solenoid valve

Valvebody material: brass, SS304  
Working type: direct acting ( NC ) Working pressure: 0 ~ 15bar  
Interface size: 1/8" ~ 1/4" Orifice size: Φ1.5 ~ 4mm



P79

#### RSO-SL RSO V2A mini solenoid valve

Valvebody material: brass, nylon, PP  
Working type: direct acting ( NC ) Working pressure: 0 ~ 14bar  
Interface size: 1/8" ~ 1/4" Orifice size: Φ1.5 ~ 2.5mm

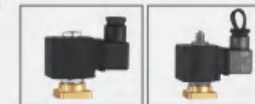


P80

### Plate type miniature solenoid valve

#### 231S 231W YSL-028 plate type miniature solenoid valve

Valvebody material: brass  
Working type: direct acting ( NC ) Working pressure: 0 ~ 30bar  
Interface size: G1/8" Orifice size: Φ1.5 ~ 2mm



P81

### Electric iron, coffee machine solenoid valve

#### YSF electric iron, coffee machine solenoid valve

Valvebody material: brass, SS316  
Working type: direct acting ( NC, NO ) Working pressure: 0 ~ 10bar  
Interface size: 1/8" Orifice size: Φ1.5 ~ 2.5mm



P82

### Digital timer for solenoid valve

#### YS-720 YS-790 YS-3800 digital timer

Working voltage: 24V~240V, 7V~36V, 110V~240V AC/DC  
Open/Closing time: 0.1s~99h



P83

### Encapsulated low temperature energy-saving plastic coil

#### Encapsulated low temperature explosion-proof coil

Certificate number: GYB17.1593X  
Explosion-proof grade: Exmb II C T6 Gb  
Working voltage: AC220V, AC110V 50/60Hz, DC24V  
Coil center hole: Φ14.5, Φ16, Φ20



P84

### Plastic seal coils

#### ES-series low power ( slowly heating-up ) energy saving coil

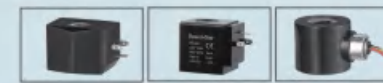
Coil diameter: Φ14.5, Φ16, Φ20



P85~86

#### Normal thermoset plastic coil

Coil diameter: Φ14.5, Φ16, Φ20



P87~88

Drafter of national safety  
standards for solenoid valves  
GB30439.6-2014

# ES SERIES BRAN-NEW SOLENOID VALVE

## Bran-new CORE TECHNOLOGY, Intelligent IC Module

**Strong** electromagnetic attraction, which is 3 times more powerful than normal coil

**Low** power consumption, only cost 20% power of normal coil

**Slowly** heating-up, under long-time durative power-on working status, the coil rises in temperature very slowly



CN Patent No.: ZL 2012 2 0323686.4  
CN Patent No.: ZL 2015 2 0620670.3  
CN Patent No.: ZL 201530309837.X  
Deutsch Patent: Nr. 20 2016 100 570  
European Patent: No. 003022334-0001  
European Patent: No. 003022334-0002



## ES series low temperature rise, high suction, low power consumption solenoid valve

Low temperature rise, high attraction, low power consumption solenoid valve, Fluid temperature: -10°C ~ 80°C.



DFD-15-50ES  
Main valve configuration: DFD series (P20-28)  
Normal voltage: AC220V 8VA DC24V 6W



RSP-10-50ES  
Main valve configuration: RSP series (P01-07)  
Normal voltage: AC220V 3VA DC24V 3W



2W-15-25ES  
Main valve configuration: 2W series (P08-18)  
Normal voltage: AC220V 4VA DC24V 4W



2W-32-50ES  
Main valve configuration: 2W series (P08-18)  
Normal voltage: AC220V 9VA DC24V 8W



2W-15-25SL-ES  
Main valve configuration: 2W-SLP plastic valve series (P31-32)  
Normal voltage: AC220V 4VA DC24V 4W



2W-32-50SL-ES  
Main valve configuration: 2W-SL series (P31-32)  
Normal voltage: AC220V 9VA DC24V 8W



YSA-15-50ES  
Main valve configuration: YSA series (P33-34)  
Normal voltage: AC220V 3VA DC24V 3W



YSE-10-25ES  
Main valve configuration: YSE series (P46)  
Normal voltage: AC220V 8VA DC24V 6W



YSI-15-50ES  
Main valve configuration: YSI series (P47-48)  
Normal voltage: AC220V 8VA DC24V 6W



2W-025-050ES  
Main valve configuration: 2W direct acting series (P08-09)  
Normal voltage: AC220V 6VA DC24V 4W

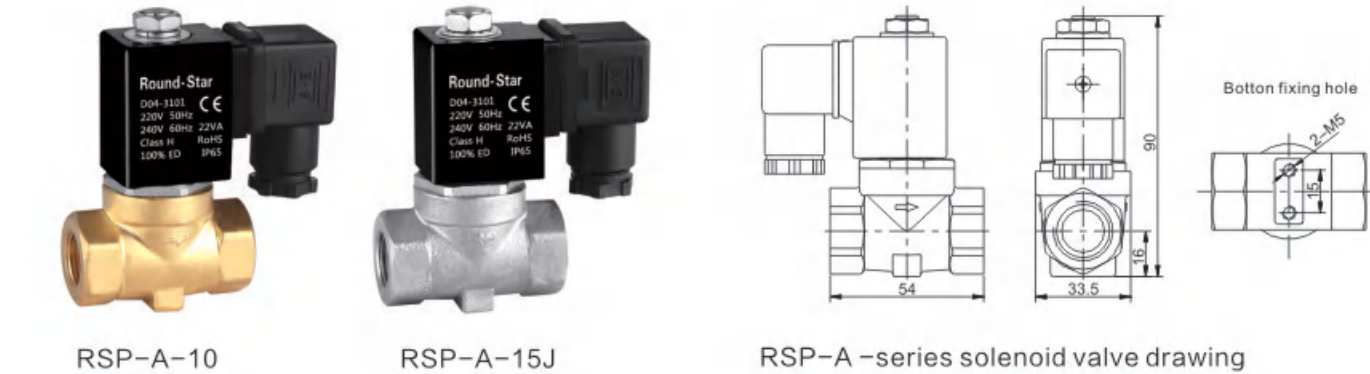


2W-A-08/15ES  
Main valve configuration: 2W series (P10)  
Normal voltage: AC220V 3VA DC24V 4W



YSE-010-040ES  
Main valve configuration: YSE direct acting series (P46)  
Normal voltage: AC220V 8VA DC24V 6W

RSP-A mini diaphragm ( NC ) solenoid valve 1/4 " ~1/2 "



**Working medium:** water, liquid, air, light oil(viscosity≤20cst)  
**Working pressure:** 0.1~16bar(details see specification table)  
**Valve body material:** Brass, SS316  
**Sealing material:** NBR, Optional EPDM (-20~130℃ ) or VITON (-15~120℃ )  
**Working voltage:** AC220~240V, AC110V 50/60Hz 22VA, DC24V/DC12V 13W, IP65, H degree  
**Options:** Rc thread, digital timer, LED light connector, ES low temp coil (AC3VA, DC3W)

**Medium temperature:** -10~ 80℃(NBR sealing )  
**Working type:** Piloted normally closed  
**Interface:** G thread, NPT thread

Order code

| RSP-A | Thread                        | J                      | ES                                                                      | T                              | V                              | Voltage                                      |
|-------|-------------------------------|------------------------|-------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------------------|
| Model | 08:1/4"<br>10:3/8"<br>15:1/2" | Blank:Brass<br>J:SS316 | Blank:plastic coil<br>ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>T:NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM | AC220V<br>AC110V<br>DC110V<br>DC24V<br>DC12V |

RSP-A-series mini diaphragm ( NC ) solenoid valve specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure ( bar ) |                                                    |                | Coil insulation degree | Power         |                |                                                            |   | Normal order code |                  |
|----------------|-------------------|-----|--------------------------|----------------------------------------------------|----------------|------------------------|---------------|----------------|------------------------------------------------------------|---|-------------------|------------------|
|                |                   |     | Min pressure             | Max pressure                                       | Normal         |                        | ES coil       |                | plastic seal<br>AC220V<br>G thread<br>sealing material:NBR |   |                   |                  |
|                |                   |     |                          | Air, gas, water,<br>hotwater,<br>liquid, light oil | VA             |                        | W             | VA             |                                                            |   | W                 |                  |
|                |                   |     |                          |                                                    | AC<br>220<br>V |                        | DC<br>24<br>V | AC<br>220<br>V |                                                            |   | DC<br>24<br>V     |                  |
|                |                   |     |                          |                                                    | AC             |                        | DC            |                |                                                            |   | Brass             |                  |
| 1/4"           | 10.5              | 1.5 | 0.1                      | 16                                                 | 10             | H                      | 22            | 13             | 3                                                          | 3 | RSP-A-08-AC220V   | RSP-A-08J-AC220V |
| 3/8"           | 10.5              | 1.5 | 0.1                      | 16                                                 | 10             | H                      | 22            | 13             | 3                                                          | 3 | RSP-A-10-AC220V   | RSP-A-10J-AC220V |
| 1/2"           | 10.5              | 1.5 | 0.1                      | 16                                                 | 10             | H                      | 22            | 13             | 3                                                          | 3 | RSP-A-15-AC220V   | RSP-A-15J-AC220V |

Note: ES/Ex coil can be EPDM, VITON sealed, but fluid temperature ≤ 80℃

RSP series 2-way pilot operated(NC) solenoid valve 3/8 " ~2 "

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃(NBR sealing )  
**Working pressure:** 0.3~16bar (details see specification table)  
**Working type:** pilot operated ( NC )  
**Valve body material:** Brass, SS316  
**Sealing material:** NBR (-10~80℃ )  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, 22VA  
DC24V/DC12V 13W, IP65, H degree

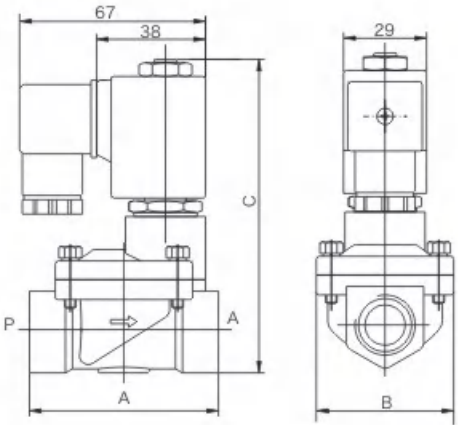
**Options:**  
**Sealing material:** EPDM (-20~130℃ ) or VITON (-15~120℃ )  
Rc thread  
Digital timer, LED light connector  
Germany NASS coil  
ES low temp coil ( power AC 3VA, DC3W ) , Encapsulated Ex-proof coil  
Solenoid valve fluid temperature with ES and Ex coil configurations -10 ~ 80℃



Order code

| RSP   | Thread                                                                    | J                      | ES                                                                      | T                            | V                              | Voltage                                      |
|-------|---------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------|--------------------------------|----------------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS316 | Blank:plastic coil<br>ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM | AC220V<br>AC110V<br>DC110V<br>DC24V<br>DC12V |

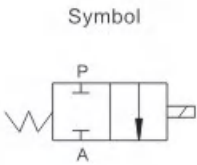
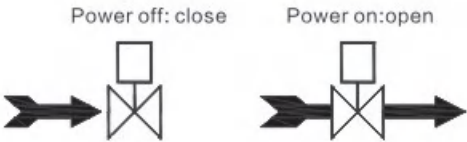
RSP series pilot operated ( NC ) solenoid valve drawing



| Model  | A   | B   | C   | Weight ( Kg ) |       |
|--------|-----|-----|-----|---------------|-------|
|        |     |     |     | Brass         | SS316 |
| RSP-10 | 66  | 48  | 112 | 0.7           | 0.7   |
| RSP-15 | 66  | 48  | 112 | 0.7           | 0.7   |
| RSP-20 | 75  | 58  | 118 | 0.85          | 0.8   |
| RSP-25 | 96  | 69  | 125 | 1.35          | 1.3   |
| RSP-32 | 131 | 96  | 150 | 2.8           | 2.8   |
| RSP-40 | 131 | 96  | 150 | 2.6           | 2.6   |
| RSP-50 | 165 | 120 | 165 | 3.9           | 3.6   |

RSP series 2-way pilot operated ( NC ) solenoid valve

NC solenoid valve ON/OFF status



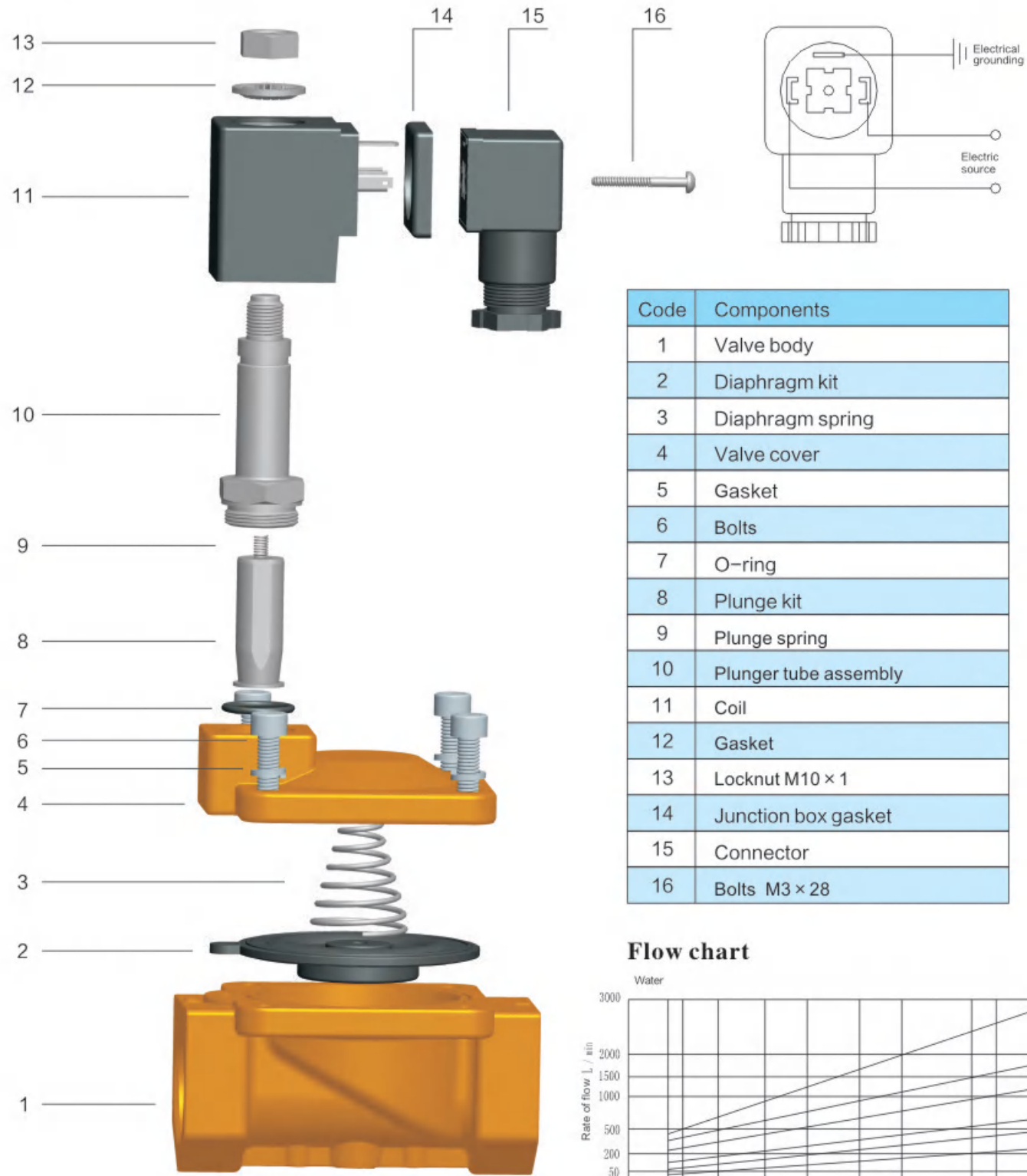
RSP series 2-way pilot operated ( NC ) solenoid valve specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure (bar) |                                                  |             | Max medium temp ( °C ) | Sealing material | Coil insulation degree | Coil power |          |                                                                                            |   | Normal order code |                  |
|----------------|-------------------|-----|------------------------|--------------------------------------------------|-------------|------------------------|------------------|------------------------|------------|----------|--------------------------------------------------------------------------------------------|---|-------------------|------------------|
|                |                   |     | Min pressure           | Max pressure                                     | Normal coil |                        |                  |                        | ES coil    |          | Plastic coil<br>AC220V<br>G thread<br>Sealing material:<br>Blank: NBR   E: EPDM   V: VITON |   |                   |                  |
|                |                   |     |                        | Air Gas<br>Water<br>Hotwater<br>Liquid Light Oil | VA          |                        |                  |                        | W          | VA       |                                                                                            |   | W                 |                  |
|                |                   |     |                        |                                                  | AC 220 V    |                        |                  |                        | DC 24 V    | AC 220 V |                                                                                            |   | DC 24 V           |                  |
|                |                   |     |                        |                                                  | AC          |                        |                  |                        | DC         | Brass    |                                                                                            |   | SS316             |                  |
| 3/8"           | 13                | 4.5 | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-10-AC220V     | RSP-10J-AC220V   |
|                | 13                | 4.5 | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-10-E-AC220V   | RSP-10J-E-AC220V |
|                | 13                | 4.5 | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-10-V-AC220V   | RSP-10J-V-AC220V |
| 1/2"           | 13                | 4.5 | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-15-AC220V     | RSP-15J-AC220V   |
|                | 13                | 4.5 | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-15-E-AC220V   | RSP-15J-E-AC220V |
|                | 13                | 4.5 | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-15-V-AC220V   | RSP-15J-V-AC220V |
| 3/4"           | 20                | 7.6 | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-20-AC220V     | RSP-20J-AC220V   |
|                | 20                | 7.6 | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-20-E-AC220V   | RSP-20J-E-AC220V |
|                | 20                | 7.6 | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-20-V-AC220V   | RSP-20J-V-AC220V |
| 1"             | 25                | 12  | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-25-AC220V     | RSP-25J-AC220V   |
|                | 25                | 12  | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-25-E-AC220V   | RSP-25J-E-AC220V |
|                | 25                | 12  | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-25-V-AC220V   | RSP-25J-V-AC220V |
| 1 1/4"         | 32                | 24  | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-32-AC220V     | RSP-32J-AC220V   |
|                | 32                | 24  | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-32-E-AC220V   | RSP-32J-E-AC220V |
|                | 32                | 24  | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-32-V-AC220V   | RSP-32J-V-AC220V |
| 1 1/2"         | 40                | 30  | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-40-AC220V     | RSP-40J-AC220V   |
|                | 40                | 30  | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-40-E-AC220V   | RSP-40J-E-AC220V |
|                | 40                | 30  | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-40-V-AC220V   | RSP-40J-V-AC220V |
| 2"             | 50                | 48  | 0.3                    | 16                                               | 16          | 80                     | NBR              | H                      | 22         | 13       | 3                                                                                          | 3 | RSP-50-AC220V     | RSP-50J-AC220V   |
|                | 50                | 48  | 0.3                    | 16                                               | 16          | 130                    | EPDM             | H                      | 22         | 13       |                                                                                            |   | RSP-50-E-AC220V   | RSP-50J-E-AC220V |
|                | 50                | 48  | 0.3                    | 16                                               | 16          | 120                    | VITON            | H                      | 22         | 13       |                                                                                            |   | RSP-50-V-AC220V   | RSP-50J-V-AC220V |

Note: ES, Ex coil can be EPDM, VITON sealed, but fluid temperature ≤ 80 °C

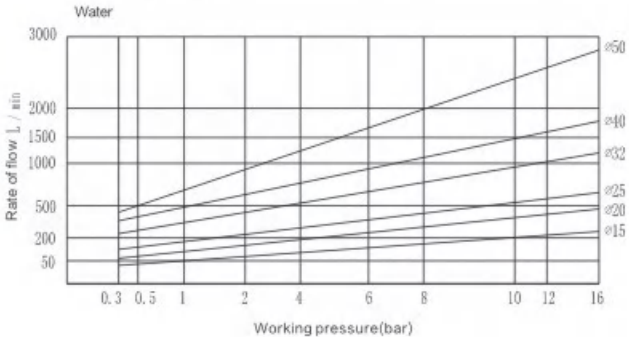
RSP series 2-way pilot operated ( NC ) solenoid valve

Components table



| Code | Components            |
|------|-----------------------|
| 1    | Valve body            |
| 2    | Diaphragm kit         |
| 3    | Diaphragm spring      |
| 4    | Valve cover           |
| 5    | Gasket                |
| 6    | Bolts                 |
| 7    | O-ring                |
| 8    | Plunge kit            |
| 9    | Plunge spring         |
| 10   | Plunger tube assembly |
| 11   | Coil                  |
| 12   | Gasket                |
| 13   | Locknut M10 × 1       |
| 14   | Junction box gasket   |
| 15   | Connector             |
| 16   | Bolts M3 × 28         |

Flow chart



## RSP series 2-way pilot operated ( NO ) solenoid valve 3/8~2 "

**Working medium:** water, liquid, air, light oil ( viscosity  $\leq 20$  cst )

**Medium temperature:** -10~80℃( NBR sealing )

**Working pressure:** 0.3~8bar ( details see specification table )

**Working type:** pilot operated ( NO )

**Valve body material:** Brass, SS316

**Sealing material:** NBR(-10~80℃ )

**Interface:** G thread, NPT thread

**Working voltage:** AC220~240V, AC110V, 50/60Hz  
DN15~25mm: 22VA, DN32~50mm, 24VA  
DC24V, DC12V, 13W, IP65, H deegree  
DN15~25mm: 13W, DN32~50mm, 20W



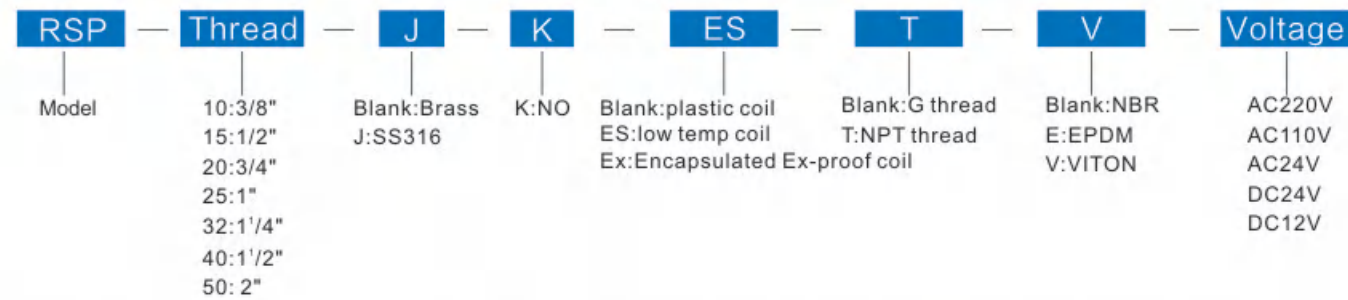
**Options:**

**Sealing material:** EPDM (-20~130°C) or VITON (-15~120°C)

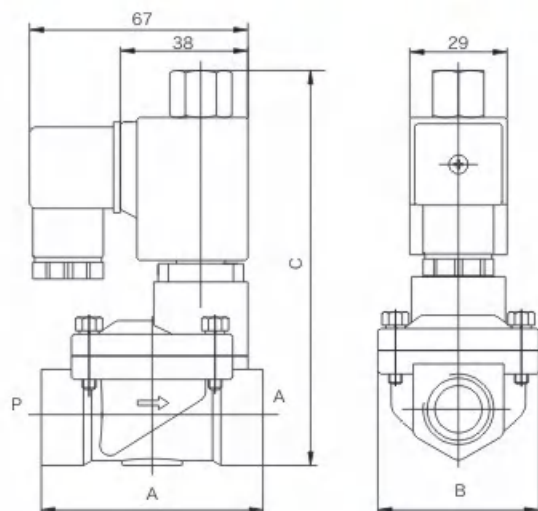
Digital timer, LED light connector, Germany NASS coil,

ES low temp coil ( power AC6VA , DC4W ) , Encapsulated Ex-proof coil

Solenoid valve fluid temperature with ES and Ex coil configurations -10~ 80℃

**Order code**

### RSP-series (NO) solenoid valve drawing



| Model   | A   | B   | C   | Weight (Kg) |       |
|---------|-----|-----|-----|-------------|-------|
|         |     |     |     | Brass       | SS316 |
| RSP-10K | 66  | 48  | 122 | 0.7         | 0.7   |
| RSP-15K | 66  | 48  | 122 | 0.7         | 0.7   |
| RSP-20K | 75  | 58  | 128 | 0.9         | 0.9   |
| RSP-25K | 96  | 69  | 135 | 1.4         | 1.3   |
| RSP-32K | 131 | 96  | 160 | 2.7         | 2.5   |
| RSP-40K | 131 | 96  | 160 | 2.7         | 2.5   |
| RSP-50K | 165 | 120 | 175 | 3.9         | 3.6   |

### RSP series 2-way pilot operated ( NO ) solenoid valve

### RSP-series (NO) solenoid valve ON/OFF drawing

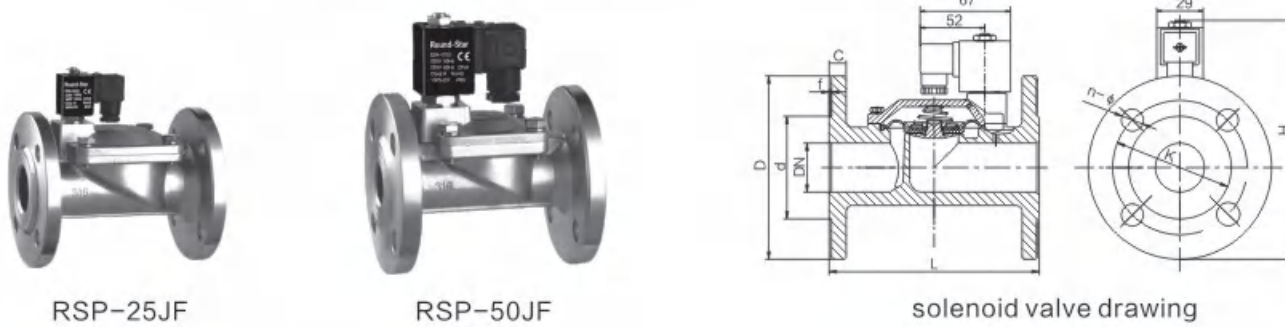


### RSP-series pilot operated ( NO ) solenoid valve specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure ( bar ) |                                                 |   | Max medium temp ( °C ) | Sealing material | Coil insulation degree | Coil Power                                                                                   |            |             |            | Normal order code |                    |
|----------------|-------------------|-----|--------------------------|-------------------------------------------------|---|------------------------|------------------|------------------------|----------------------------------------------------------------------------------------------|------------|-------------|------------|-------------------|--------------------|
|                |                   |     | Min pressure             | Max pressure                                    |   |                        |                  |                        | Plastic coil<br>AC220V<br>G thread<br>Sealing material:<br>Blank: NBR    E: EPDM    V: VITON |            |             |            |                   |                    |
|                |                   |     |                          | Air, gas,Water<br>Hotwater, Liquid<br>Light oil |   |                        |                  |                        | Normalcoil                                                                                   |            | ES coil     |            |                   |                    |
|                |                   |     |                          |                                                 |   |                        |                  |                        | VA                                                                                           | W          | VA          | W          |                   |                    |
|                |                   |     |                          |                                                 |   |                        |                  |                        | AC 220<br>V                                                                                  | DC 24<br>V | AC 220<br>V | DC 24<br>V | Brass             |                    |
| 3/8"           | 13                | 4.5 | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 22                                                                                           | 13         | 6           | 4          | RSP-10K-AC220V    | RSP-10JK-AC220V    |
|                | 13                | 4.5 | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 22                                                                                           | 13         |             |            | RSP-10K-E-AC220V  | RSP-10JK-E-AC220V  |
|                | 13                | 4.5 | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 22                                                                                           | 13         |             |            | RSP-10K-V-AC220V  | RSP-10JK-V-AC220V  |
| 1/2"           | 13                | 4.5 | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 22                                                                                           | 13         | 6           | 4          | RSP-15K-AC220V    | RSP-15JK-AC220V    |
|                | 13                | 4.5 | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 22                                                                                           | 13         |             |            | RSP-15K-E-AC220V  | RSP-15JK-E-AC220V  |
|                | 13                | 4.5 | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 22                                                                                           | 13         |             |            | RSP-15K-V-AC220V  | RSP-15JK-V-AC220V  |
| 3/4"           | 20                | 7.6 | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 22                                                                                           | 13         | 6           | 4          | RSP-20K-AC220V    | RSP-20JK-AC220V    |
|                | 20                | 7.6 | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 22                                                                                           | 13         |             |            | RSP-20K-E-AC220V  | RSP-20JK-E-AC220V  |
|                | 20                | 7.6 | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 22                                                                                           | 13         |             |            | RSP-20K-V-AC220V  | RSP-20JK-V-AC220V  |
| 1"             | 25                | 12  | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 22                                                                                           | 13         | 6           | 4          | RSP-25K-AC220V    | RSP-25JK-AC220V    |
|                | 25                | 12  | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 22                                                                                           | 13         |             |            | RSP-25K-E-AC220V  | RSP-25JK-E-AC220V  |
|                | 25                | 12  | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 22                                                                                           | 13         |             |            | RSP-25K-V-AC220V  | RSP-25JK-V-AC220V  |
| 1 1/4"         | 32                | 24  | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 24                                                                                           | 20         | 8           | 6          | RSP-32K-AC220V    | RSP-32JK-AC220V    |
|                | 32                | 24  | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 24                                                                                           | 20         |             |            | RSP-32K-E-AC220V  | RSP-32JK-E-AC220V  |
|                | 32                | 24  | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 24                                                                                           | 20         |             |            | RSP-32K-V-AC220V  | RSP-32JK-V-AC220V  |
| 1 1/2"         | 40                | 30  | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 24                                                                                           | 20         | 8           | 6          | RSP-40K-AC220V    | RSP-40JK-AC220V    |
|                | 40                | 30  | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 24                                                                                           | 20         |             |            | RSP-40K-E-AC220V  | RSP-40JK-E-AC220V  |
|                | 40                | 30  | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 24                                                                                           | 20         |             |            | RSP-40K-V-AC220V  | RSP-40JK-V-AC220V  |
| 2"             | 50                | 48  | 0.3                      | 8                                               | 6 | 80                     | NBR              | H                      | 24                                                                                           | 20         | 8           | 6          | RSP-50K-AC220V    | RSP-50JK-AC220V    |
|                | 50                | 48  | 0.3                      | 8                                               | 6 | 130                    | EPDM             | H                      | 24                                                                                           | 20         |             |            | RSP-50K-E-AC220V  | RSP-50JK-E-AC220V  |
|                | 50                | 48  | 0.3                      | 8                                               | 6 | 120                    | VITON            | H                      | 24                                                                                           | 20         |             |            | RSP-50K-V-AC220V  | RSP-50-JK-V-AC220V |

Note: ES coil can be EPDM, VITON sealed, but fluid temperature  $\leq 80^{\circ}\text{C}$

## RSP-JF flange series pilot operated diaphragm solenoid valve



**Working medium:** water, liquid, air, light oil ( $\leq 20\text{cst}$ )  
**Medium temperature:**  $-10\sim 80^{\circ}\text{C}$  (NBR sealing)  
**Working type:** Pilot operated (NC, NO)  
**Sealing material:** NBR( $-10\sim 80^{\circ}\text{C}$ ), EPDM( $-20\sim 130^{\circ}\text{C}$ ), VITON( $-15\sim 120^{\circ}\text{C}$ )  
**Working voltage:** AC220V, AC110V, 50/60Hz 22VA, DC24V, DC12V, 13W

**Ambient temperature:**  $-10\sim 55^{\circ}\text{C}$   
**Working pressure:** 0.3~16bar  
**Connection type:** flange  
**Valve body material:** SS316

### Order code

| RSP   | Orifice                                                        | J       | F        | K                | ES                                                                      | V                              | Voltage                                     |
|-------|----------------------------------------------------------------|---------|----------|------------------|-------------------------------------------------------------------------|--------------------------------|---------------------------------------------|
| Model | 15:15mm<br>20:20mm<br>25:25mm<br>32:32mm<br>40:40mm<br>50:50mm | J:SS316 | F:Flange | Blank:NC<br>K:NO | Blank:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NBR<br>E:EPDM<br>V:VITON | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

### RSP-JF SS flange pilot operated solenoid valve specification table

| Orifice size (mm) | Cv  | water,liquid, air, light oil ( ≤ 20cst) |          |         |         | coil insulation | Normally order code                                        |                  |
|-------------------|-----|-----------------------------------------|----------|---------|---------|-----------------|------------------------------------------------------------|------------------|
|                   |     | working pressure (bar)                  |          |         |         |                 | Voltage AC220V, Flange connection<br>Sealing material: NBR |                  |
|                   |     | NC                                      |          | NO      |         |                 | NC                                                         | NO               |
|                   |     | AC220V                                  | DC24V    | AC220V  | DC24V   |                 |                                                            |                  |
| 15                | 4.5 | 0.3 ~ 16                                | 0.3 ~ 16 | 0.3 ~ 8 | 0.3 ~ 6 | H               | RSP-15JF-AC220V                                            | RSP-15JFK-AC220V |
| 20                | 7.6 | 0.3 ~ 16                                | 0.3 ~ 16 | 0.3 ~ 8 | 0.3 ~ 6 | H               | RSP-20JF-AC220V                                            | RSP-20JFK-AC220V |
| 25                | 12  | 0.3 ~ 16                                | 0.3 ~ 16 | 0.3 ~ 8 | 0.3 ~ 6 | H               | RSP-25JF-AC220V                                            | RSP-25JFK-AC220V |
| 32                | 24  | 0.3 ~ 16                                | 0.3 ~ 16 | 0.3 ~ 8 | 0.3 ~ 6 | H               | RSP-32JF-AC220V                                            | RSP-32JFK-AC220V |
| 40                | 30  | 0.3 ~ 16                                | 0.3 ~ 16 | 0.3 ~ 8 | 0.3 ~ 6 | H               | RSP-40JF-AC220V                                            | RSP-40JFK-AC220V |
| 50                | 48  | 0.3 ~ 16                                | 0.3 ~ 16 | 0.3 ~ 8 | 0.3 ~ 6 | H               | RSP-50JF-AC220V                                            | RSP-50JFK-AC220V |

### RSP flange pilot operated solenoid valve drawing

| Model    | L   | D   | H   |     | K   | d  | C  | f | n-Φ   | Valve body material | Weight (Kg) |
|----------|-----|-----|-----|-----|-----|----|----|---|-------|---------------------|-------------|
|          |     |     | NC  | NO  |     |    |    |   |       |                     |             |
| RSP-15JF | 108 | 95  | 145 | 151 | 65  | 46 | 14 | 3 | 4-Φ14 | (SS316)             | 2.1         |
| RSP-20JF | 118 | 105 | 153 | 159 | 75  | 56 | 16 | 3 | 4-Φ14 |                     | 2.5         |
| RSP-25JF | 134 | 115 | 162 | 166 | 85  | 65 | 16 | 3 | 4-Φ14 |                     | 3.1         |
| RSP-32JF | 165 | 140 | 184 | 190 | 100 | 76 | 18 | 3 | 4-Φ18 |                     | 5.1         |
| RSP-40JF | 165 | 150 | 190 | 196 | 110 | 84 | 18 | 3 | 4-Φ18 |                     | 5.7         |
| RSP-50JF | 200 | 165 | 210 | 216 | 125 | 99 | 20 | 3 | 4-Φ18 |                     | 8.6         |

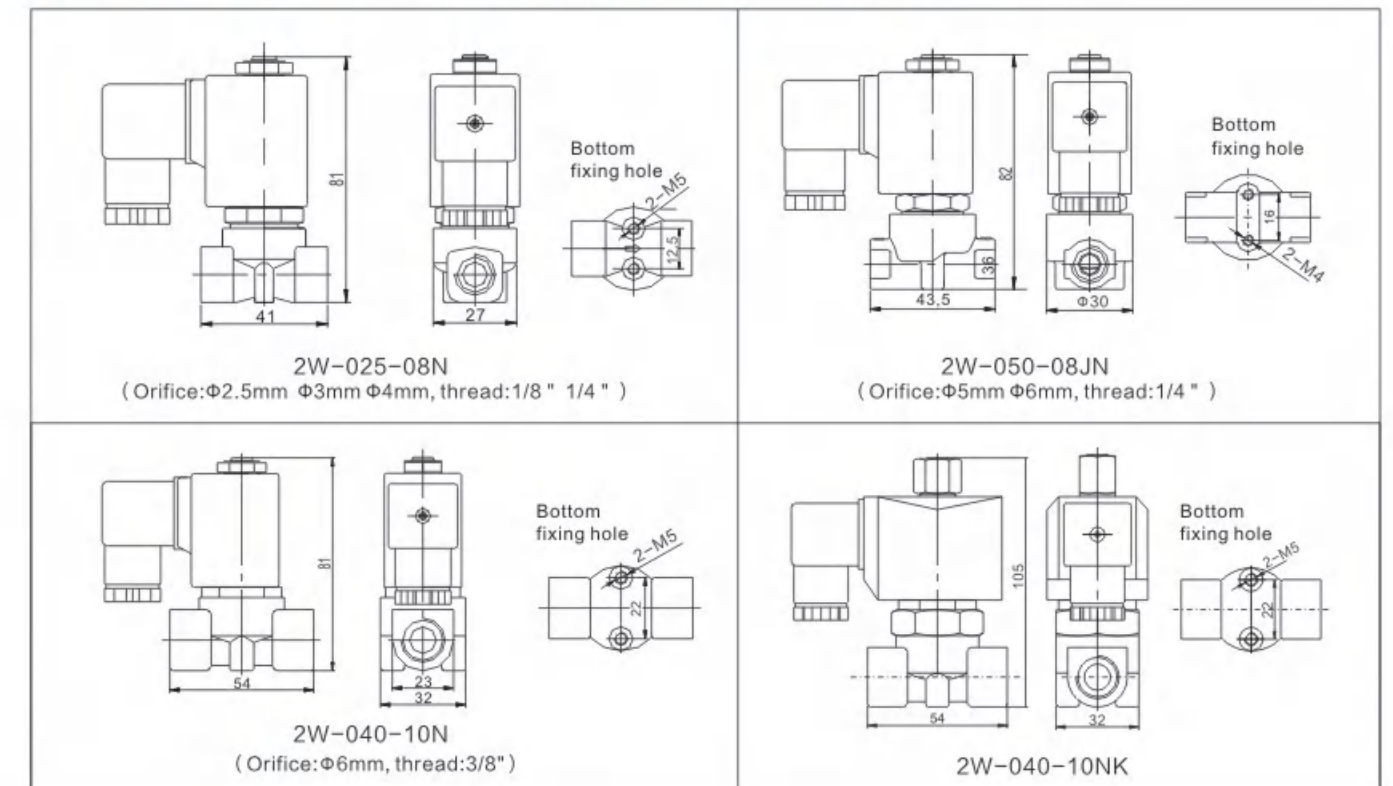
## 2W series 2-way direct acting (NC) solenoid valve 1/8" ~ 3/8"

**Working medium:** water, liquid, air, light oil (viscosity  $\leq 20\text{cst}$ )  
**Medium temperature:**  $-10\sim 80^{\circ}\text{C}$  (NBR sealing)  
**Working pressure:** 0~15bar (details see specification table)  
**Working type:** direct acting (NC/NO)  
**Valve body material:** Brass, SS316  
**Sealing material:** NBR( $-10\sim 80^{\circ}\text{C}$ )  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220~240V, AC110V 50/60Hz, 22VA, DC24V, DC12V, 13W, IP65, H degree  
**Options:** Rc thread, sealing material: EPDM ( $-20\sim 130^{\circ}\text{C}$ ) or VITON ( $-15\sim 120^{\circ}\text{C}$ )  
 Digital timer, LED light connector, ES low temp coil (AC220V 3VA, DC24V 3W)  
 Ex: encapsulated Ex-proof coil

### Order code

| 2W    | Orifice                                               | Thread                        | J                      | N                                                                   | T                              | V                                       | Voltage                            |
|-------|-------------------------------------------------------|-------------------------------|------------------------|---------------------------------------------------------------------|--------------------------------|-----------------------------------------|------------------------------------|
| Model | 025:2.5mm<br>030:3mm<br>040:4mm<br>050:5mm<br>060:6mm | 06:1/8"<br>08:1/4"<br>10:3/8" | Blank:Brass<br>J:SS316 | N:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON<br>Q:VMQ | AC220V<br>AC110V<br>DC24V<br>DC12V |

### 2W series 2-way direct acting (NC) solenoid valve drawing



2W series 2-way direct acting ( NC/NO ) solenoid valve



2W-025-08N



2W-050-08JN



2W-040-10N



2W-025-040-08NK



2W-040-10NK

2W series 2-way direct acting solenoid valve specification table

| Interface size | Orifice size (mm) | Cv   | Working pressure ( bar ) |      |     | Power          |               |                |               | Normal order code                                          |                   |
|----------------|-------------------|------|--------------------------|------|-----|----------------|---------------|----------------|---------------|------------------------------------------------------------|-------------------|
|                |                   |      |                          |      |     | Normal         |               | ES coil        |               |                                                            |                   |
|                |                   |      | Water, Liquid, Air, Gas  |      |     | VA             | W             | VA             | W             | plastic coil<br>AC220V<br>G thread<br>sealing material:NBR |                   |
|                |                   |      |                          |      |     | AC<br>220<br>V | DC<br>24<br>V | AC<br>220<br>V | DC<br>24<br>V |                                                            |                   |
|                |                   |      |                          |      |     |                |               |                |               |                                                            | NC                |
| AC220          | DC24              |      |                          |      |     | Brass          | SS316         |                |               |                                                            |                   |
| 1/8"           | 2.5               | 0.20 | 0~15                     | 0~12 | 0~6 | 22             | 13            | 6              | 4             | 2W-025-06N-AC220                                           | 2W-025-06JN-AC220 |
|                | 3.0               | 0.25 | 0~12                     | 0~10 | 0~5 | 22             | 13            | 6              | 4             | 2W-030-06N-AC220                                           | 2W-030-06JN-AC220 |
|                | 4.0               | 0.3  | 0~8                      | 0~5  | 0~3 | 22             | 13            | 6              | 4             | 2W-040-06N-AC220                                           | 2W-040-06JN-AC220 |
| 1/4"           | 2.5               | 0.2  | 0~15                     | 0~12 | 0~6 | 22             | 13            | 6              | 4             | 2W-025-08N-AC220                                           | 2W-025-08JN-AC220 |
|                | 3.0               | 0.25 | 0~12                     | 0~10 | 0~5 | 22             | 13            | 6              | 4             | 2W-030-08N-AC220                                           | 2W-030-08JN-AC220 |
|                | 4.0               | 0.3  | 0~8                      | 0~8  | 0~3 | 22             | 13            | 6              | 4             | 2W-040-08N-AC220                                           | 2W-040-08JN-AC220 |
| 1/4"           | 5.0               | 0.4  | 0~5                      | 0~3  |     | 22             | 13            | 6              | 4             | 2W-050-08N-AC220                                           | 2W-050-08JN-AC220 |
|                | 6.0               | 0.7  | 0~4                      | 0~3  |     | 22             | 13            | 6              | 4             | 2W-060-08N-AC220                                           | 2W-060-08JN-AC220 |
| 3/8"           | 4.0               | 0.3  | 0~8                      | 0~5  | 0~4 | 20             | 20            | 5              | 6             | 2W-040-10N-AC220                                           | 2W-040-10JN-AC220 |

Note: ES coil can be EPDM, VITON sealed, but fluid temperature ≤ 80 ° C

2W-A series 2-way mini semi direct acting(NC) solenoid valve 1/4 " ~ 1/2 "

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10 ~ 80℃ (NBR sealing )  
**Working pressure:** 0 ~ 20bar ( details see specification table )  
**Working type:** semi direct acting ( NC )  
**Valvebody material:** Brass, SS316  
**Sealing material:** NBR (-10 ~ 80℃)  
**Interface:** G thread NPT thread  
**Working voltage:** AC220 ~ 240V, AC110V, 50/60Hz, 22VA  
DC24V, DC12V, 13W, IP65, H degree  
**Options:** sealing material: EPDM (-20 ~ 130℃ ) or VITON (-15 ~ 120℃ ), Digital timer  
LED light connector, ES low temp coil ( AC220V 3VA, DC24V 4W )  
Ex: encapsulated Ex-proof coil

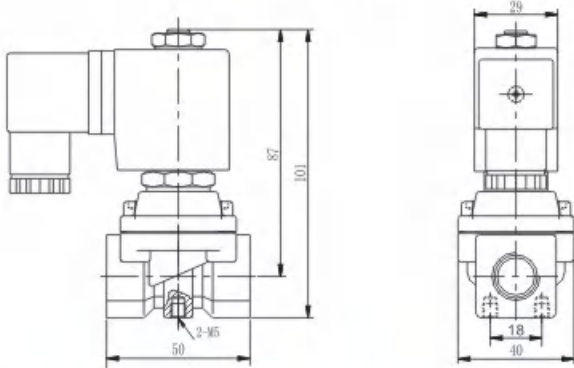


2W-A-15

Order code

| 2W-A  | Thread                        | J                      | ES                                                                      | T                              | V                                       | Voltage                            |
|-------|-------------------------------|------------------------|-------------------------------------------------------------------------|--------------------------------|-----------------------------------------|------------------------------------|
| Model | 08:1/4"<br>10:3/8"<br>15:1/2" | Blank:brass<br>J:SS316 | Blank:plastic coil<br>ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON<br>Q:VMQ | AC220V<br>AC110V<br>DC24V<br>DC12V |

2W-A -series solenoid valve drawing



2W-A -series 2-way semi direct acting ( NC ) solenoid valve specification table

| Orifice size (mm) | Interface size | Cv  | Working pressure ( bar ) |                                 |    |             | Max medium temp ( °C ) | Sealing material | Coil insulation degree | Coil power |          |                                                                                                      |                  | Normal order code |  |
|-------------------|----------------|-----|--------------------------|---------------------------------|----|-------------|------------------------|------------------|------------------------|------------|----------|------------------------------------------------------------------------------------------------------|------------------|-------------------|--|
|                   |                |     | Min pressure             | Max pressure                    |    | Normal coil |                        |                  |                        | Es coil    |          | Plastic coil<br>Voltage AC220V<br>G thread<br>Sealing material:<br>Blank: NBR    E: EPDM    V: VITON |                  |                   |  |
|                   |                |     |                          | Air, gas,<br>Water,<br>Hotwater |    | VA          |                        |                  |                        | W          | VA       |                                                                                                      |                  | W                 |  |
|                   |                |     |                          |                                 |    | AC 220 V    |                        |                  |                        | DC 24 V    | AC 220 V |                                                                                                      |                  | DC 24 V           |  |
|                   |                |     |                          |                                 |    | AC220       |                        |                  |                        | DC24       | Brass    |                                                                                                      | SS316            |                   |  |
| 10                | 1/4"           | 2.1 | 0                        | 20                              | 16 | 80          | NBR                    | H                | 22                     | 13         | 3        | 4                                                                                                    | 2W-A-08-AC220V   | 2W-A-08J-AC220V   |  |
| 10                |                | 2.1 | 0                        | 20                              | 16 | 130         | EPDM                   | H                | 22                     | 13         |          |                                                                                                      | 2W-A-08-E-AC220V | 2W-A-08J-E-AC220V |  |
| 10                |                | 2.1 | 0                        | 20                              | 16 | 120         | VITON                  | H                | 22                     | 13         |          |                                                                                                      | 2W-A-08-V-AC220V | 2W-A-08J-V-AC220V |  |
| 10                | 3/8"           | 2.1 | 0                        | 20                              | 16 | 80          | NBR                    | H                | 22                     | 13         | 3        | 4                                                                                                    | 2W-A-10-AC220V   | 2W-A-10J-AC220V   |  |
| 10                |                | 2.1 | 0                        | 20                              | 16 | 130         | EPDM                   | H                | 22                     | 13         |          |                                                                                                      | 2W-A-10-E-AC220V | 2W-A-10J-E-AC220V |  |
| 10                |                | 2.1 | 0                        | 20                              | 16 | 120         | VITON                  | H                | 22                     | 13         |          |                                                                                                      | 2W-A-10-V-AC220V | 2W-A-10J-V-AC220V |  |
| 10                | 1/2"           | 2.1 | 0                        | 20                              | 16 | 80          | NBR                    | H                | 22                     | 13         | 3        | 4                                                                                                    | 2W-A-15-AC220V   | 2W-A-15J-AC220V   |  |
| 10                |                | 2.1 | 0                        | 20                              | 16 | 130         | EPDM                   | H                | 22                     | 13         |          |                                                                                                      | 2W-A-15-E-AC220V | 2W-A-15J-E-AC220V |  |
| 10                |                | 2.1 | 0                        | 20                              | 16 | 120         | VITON                  | H                | 22                     | 13         |          |                                                                                                      | 2W-A-15-V-AC220V | 2W-A-15J-V-AC220V |  |

Note: ES coil can be EPDM, VITON sealed, but fluid temperature ≤ 80 ° C

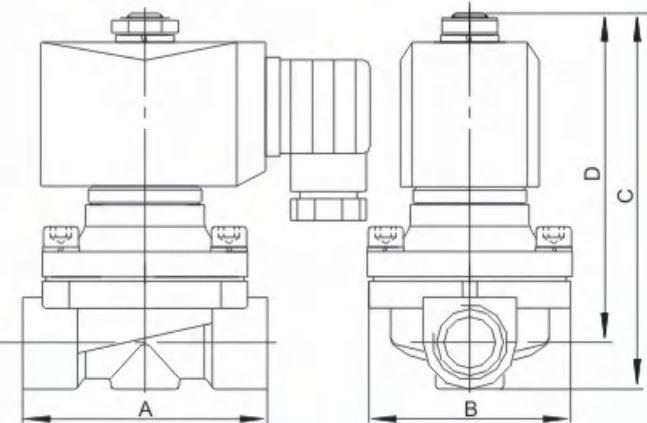
2W series thread zero differential pressure(NC) solenoid valve 3/8 " ~ 2 "

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃(NBR sealing )  
**Working pressure:** 0~10bar ( details see specification table)  
**Working type:** semi direct acting ( NC )  
**Valvebody material:** Brass, SS304  
**Sealing material:** NBR(-10~80℃)  
**Interface:** G thread, NPT thread  
**Voltage:** AC220~240V, AC 110V, AC24V, 50/60Hz, DC24V, DC12V, IP65, H degree ( iron seal coil: IP54, B degree )  
DN10~20, AC 20VA, DC 20W, DN25, AC 40VA, DC 32W, DN32~50, AC 30VA, DC 38W  
**Options:**  
Rc thread, sealing material: EPDM (-20~130℃ ) or VITON (-15~120℃ )  
Digital timer, LED light connector  
ES low temp coil( DN10~25, AC220V4VA, DC24V, 4W, DN35~50, AC220V, 9VA, DC24V, 8W )  
Ex: encapsulated Ex-proof coil  
Lead wire iron seal coil

Order code

| 2W    | Thread                                                                       | J                      | N                                                                                      | T                              | V                                       | Voltage                                     |
|-------|------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------|---------------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32: 1 1/4"<br>40: 1 1/2"<br>50: 2" | Blank:Brass<br>J:SS304 | Blank:Iron coil<br>N:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON<br>Q:VMQ | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

2W series semi direct acting ( NC ) solenoid valve drawing



| Model  | A   | B   | C   | D   | Weight ( Kg ) |       |
|--------|-----|-----|-----|-----|---------------|-------|
|        |     |     |     |     | Brass         | SS304 |
| 2W-10N | 68  | 56  | 105 | 91  | 0.9           | 0.8   |
| 2W-15N | 68  | 56  | 105 | 91  | 0.9           | 0.8   |
| 2W-20N | 73  | 56  | 111 | 95  | 0.9           | 0.9   |
| 2W-25N | 100 | 74  | 124 | 103 | 1.5           | 1.4   |
| 2W-32N | 110 | 85  | 154 | 129 | 2.2           | 2.1   |
| 2W-40N | 120 | 90  | 162 | 134 | 2.3           | 2.3   |
| 2W-50N | 154 | 115 | 185 | 151 | 3.0           | 4.0   |

2W series thread 2-way zero differential pressure ( NC ) solenoid valve



2W-10~25JN



2W-10~25N



2W-32~50N

2W series thread connection 2-way ( NC ) solenoid valve specification table

| Orifice size (mm) | Interface size | Cv  | Working pressure ( bar ) |                                                     |   |                | Max medium temp ( °C ) | Sealing material | Coil insulation degree | Coil power    |                |                                                                                                   |                 | Normal order code |       |
|-------------------|----------------|-----|--------------------------|-----------------------------------------------------|---|----------------|------------------------|------------------|------------------------|---------------|----------------|---------------------------------------------------------------------------------------------------|-----------------|-------------------|-------|
|                   |                |     | Min pressure             | Max pressure                                        |   | Normal coil    |                        |                  |                        | ES coil       |                | Plastic coil<br>Voltage AC220V<br>G thread<br>Sealing material:<br>Blank:NBR    E:EPDM    V:VITON |                 |                   |       |
|                   |                |     |                          | air,gas,<br>water,hot water<br>liquid,<br>light oil |   | VA             |                        |                  |                        | W             | VA             |                                                                                                   | W               |                   |       |
|                   |                |     |                          |                                                     |   | AC<br>220<br>V |                        |                  |                        | DC<br>24<br>V | AC<br>220<br>V |                                                                                                   | DC<br>24<br>V   |                   |       |
|                   |                |     |                          |                                                     |   |                |                        |                  |                        |               |                |                                                                                                   |                 | Brass             | Ss304 |
| 16                | 3/8"           | 4.8 | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 20                     | 20            | 4              | 4                                                                                                 | 2W-10N-AC220V   | 2W-10JN-AC220V    |       |
| 16                |                | 4.8 | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 20                     | 20            |                |                                                                                                   | 2W-10N-E-AC220V | 2W-10JN-E-AC220V  |       |
| 16                |                | 4.8 | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 20                     | 20            |                |                                                                                                   | 2W-10N-V-AC220V | 2W-10JN-V-AC220V  |       |
| 16                | 1/2"           | 4.8 | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 20                     | 20            | 4              | 4                                                                                                 | 2W-15N-AC220V   | 2W-15JN-AC220V    |       |
| 16                |                | 4.8 | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 20                     | 20            |                |                                                                                                   | 2W-15N-E-AC220V | 2W-15JN-E-AC220V  |       |
| 16                |                | 4.8 | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 20                     | 20            |                |                                                                                                   | 2W-15N-V-AC220V | 2W-15JN-V-AC220V  |       |
| 20                | 3/4"           | 7.6 | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 20                     | 20            | 4              | 4                                                                                                 | 2W-20N-AC220V   | 2W-20JN-AC220V    |       |
| 20                |                | 7.6 | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 20                     | 20            |                |                                                                                                   | 2W-20N-E-AC220V | 2W-20JN-E-AC220V  |       |
| 20                |                | 7.6 | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 20                     | 20            |                |                                                                                                   | 2W-20N-V-AC220V | 2W-20JN-V-AC220V  |       |
| 25                | 1"             | 12  | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 40                     | 32            | 4              | 4                                                                                                 | 2W-25N-AC220V   | 2W-25JN-AC220V    |       |
| 25                |                | 12  | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 40                     | 32            |                |                                                                                                   | 2W-25N-E-AC220V | 2W-25JN-E-AC220V  |       |
| 25                |                | 12  | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 40                     | 32            |                |                                                                                                   | 2W-25N-V-AC220V | 2W-25JN-V-AC220V  |       |
| 32                | 1 1/4"         | 24  | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 30                     | 38            | 9              | 8                                                                                                 | 2W-32N-AC220V   | 2W-32JN-AC220V    |       |
| 32                |                | 24  | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 30                     | 38            |                |                                                                                                   | 2W-32N-E-AC220V | 2W-32JN-E-AC220V  |       |
| 32                |                | 24  | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 30                     | 38            |                |                                                                                                   | 2W-32N-V-AC220V | 2W-32JN-V-AC220V  |       |
| 40                | 1 1/2"         | 29  | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 30                     | 38            | 9              | 8                                                                                                 | 2W-40N-AC220V   | 2W-40JN-AC220V    |       |
| 40                |                | 29  | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 30                     | 38            |                |                                                                                                   | 2W-40N-E-AC220V | 2W-40JN-E-AC220V  |       |
| 40                |                | 29  | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 30                     | 38            |                |                                                                                                   | 2W-40N-V-AC220V | 2W-40JN-V-AC220V  |       |
| 50                | 2"             | 48  | 0                        | 10                                                  | 6 | 80             | NBR                    | H                | 30                     | 38            | 9              | 8                                                                                                 | 2W-50N-AC220V   | 2W-50JN-AC220V    |       |
| 50                |                | 48  | 0                        | 10                                                  | 6 | 130            | EPDM                   | H                | 30                     | 38            |                |                                                                                                   | 2W-50N-E-AC220V | 2W-50JN-E-AC220V  |       |
| 50                |                | 48  | 0                        | 10                                                  | 6 | 120            | VITON                  | H                | 30                     | 38            |                |                                                                                                   | 2W-50N-V-AC220V | 2W-50JN-V-AC220V  |       |

Note: ES, Ex coil can be EPDM, VITON sealed, but fluid temperature ≤ 80 ° C

2W series thread 2-way zero pressure difference(NO) solenoid valve 3/8 " ~ 2 "

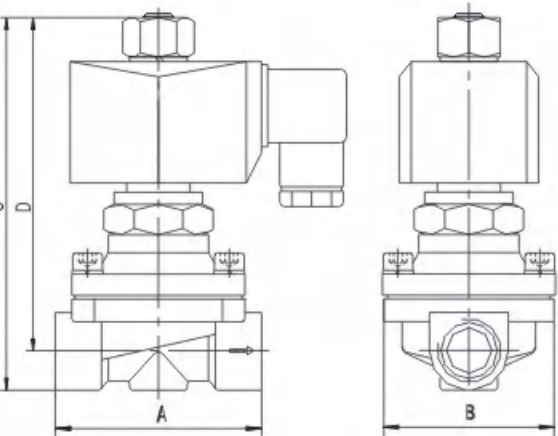
**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃( NBR sealing )  
**Working pressure:** 0~6bar  
**Working type:** semi direct acting ( NO )  
**Valvebody material:** Brass, SS304  
**Sealing material:** NBR(-10~80℃)  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, DC24 /12V, IP65, H degree, voltage could be customized  
DN10~20mm: AC220V 20VA, DC24V 20W, DN25mm: AC220V 40VA, DC24V 32W,  
DN32~50mm: AC220V 30VA, DC24V 38W

**Options:**  
**Rc thread, sealing material:** EPDM (-20~130℃ ) or VITON (-15~120℃ )  
Digital timer, LED light connector  
ES low temp coil (DN10~25: AC220V 5VA DC24V 6W, DN32~50: AC9VA, DC 8W)  
Ex: encapsulated Ex-proof coil

Order code

| 2W    | Thread                                                                    | J                                     | N                                                                                      | K    | T                              | V                                       | Voltage                            |
|-------|---------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------|------|--------------------------------|-----------------------------------------|------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS304<br>C:Cast iron | Blank:Iron coil<br>N:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | K:NO | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON<br>Q:VMQ | AC220V<br>AC110V<br>AC24V<br>DC24V |

2W series thread connection ( NO ) solenoid valve drawing and dimension table



| Model    | A   | B   | C   | D   | Weight ( Kg ) |     |
|----------|-----|-----|-----|-----|---------------|-----|
|          |     |     |     |     | Brass         | SS  |
| 2W -10NK | 68  | 56  | 131 | 118 | 1.0           | 0.9 |
| 2W -15NK | 68  | 56  | 131 | 118 | 1.0           | 0.9 |
| 2W -20NK | 73  | 56  | 140 | 123 | 1.0           | 0.9 |
| 2W -25NK | 100 | 74  | 168 | 147 | 1.6           | 1.6 |
| 2W -35NK | 110 | 85  | 185 | 160 | 2.3           | 2.2 |
| 2W -40NK | 120 | 90  | 193 | 165 | 2.5           | 2.5 |
| 2W -50NK | 154 | 115 | 210 | 176 | 3.2           | 4.2 |

2W series thread connection 2-way zero pressure difference(NO) solenoid valve



2W series thread connection 2-way ( NO ) solenoid valve specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure ( bar ) |                                                   |            | Max medium temp ( °C ) | Sealing material | Coil insulation degree | Coil power  |            |           |   | Normal order code                                                                                            |                   |
|----------------|-------------------|-----|--------------------------|---------------------------------------------------|------------|------------------------|------------------|------------------------|-------------|------------|-----------|---|--------------------------------------------------------------------------------------------------------------|-------------------|
|                |                   |     | Min pressure             | Max pressure                                      |            |                        |                  |                        | Normal coil |            | ES coil   |   | Plastic coil<br>Voltage AC220V<br>Thread:G thread<br>Sealing material:<br>Blank:NBR      E:EPDM      V:VITON |                   |
|                |                   |     |                          | Air Gas<br>Water<br>Hot water<br>Liquid Light oil | AC220<br>V |                        |                  |                        | DC24<br>V   | AC220<br>V | DC24<br>V |   |                                                                                                              |                   |
|                |                   |     |                          |                                                   |            |                        |                  |                        |             |            |           |   |                                                                                                              |                   |
|                |                   |     |                          |                                                   |            |                        |                  |                        |             |            |           |   |                                                                                                              |                   |
|                |                   |     |                          |                                                   |            |                        |                  |                        |             |            |           |   |                                                                                                              |                   |
| 3/8"           | 16                | 4.8 | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 20          | 20         | 5         | 6 | 2W-10NK-AC220V                                                                                               | 2W-10JNK-AC220V   |
|                | 16                | 4.8 | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 20          | 20         |           |   | 2W-10NK-E-AC220V                                                                                             | 2W-10JNK-E-AC220V |
|                | 16                | 4.8 | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 20          | 20         |           |   | 2W-10NK-V-AC220V                                                                                             | 2W-10JNK-V-AC220V |
| 1/2"           | 16                | 4.8 | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 20          | 20         | 5         | 6 | 2W-15NK-AC220V                                                                                               | 2W-15JNK-AC220V   |
|                | 16                | 4.8 | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 20          | 20         |           |   | 2W-15NK-E-AC220V                                                                                             | 2W-15JNK-E-AC220V |
|                | 16                | 4.8 | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 20          | 20         |           |   | 2W-15NK-V-AC220V                                                                                             | 2W-15JNK-V-AC220V |
| 3/4"           | 20                | 7.6 | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 20          | 20         | 5         | 6 | 2W-20NK-AC220V                                                                                               | 2W-20JNK-AC220V   |
|                | 20                | 7.6 | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 20          | 20         |           |   | 2W-20NK-E-AC220V                                                                                             | 2W-20JNK-E-AC220V |
|                | 20                | 7.6 | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 20          | 20         |           |   | 2W-20NK-V-AC220V                                                                                             | 2W-20JNK-V-AC220V |
| 1"             | 25                | 12  | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 40          | 32         | 5         | 6 | 2W-25NK-AC220V                                                                                               | 2W-25JNK-AC220V   |
|                | 25                | 12  | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 40          | 32         |           |   | 2W-25NK-E-AC220V                                                                                             | 2W-25JNK-E-AC220V |
|                | 25                | 12  | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 40          | 32         |           |   | 2W-25NK-V-AC220V                                                                                             | 2W-25JNK-V-AC220V |
| 1 1/4"         | 32                | 24  | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 30          | 38         | 9         | 8 | 2W-32NK-AC220V                                                                                               | 2W-32JNK-AC220V   |
|                | 32                | 24  | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 30          | 38         |           |   | 2W-32NK-E-AC220V                                                                                             | 2W-32JNK-E-AC220V |
|                | 32                | 24  | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 30          | 38         |           |   | 2W-32NK-V-AC220V                                                                                             | 2W-32JNK-V-AC220V |
| 1 1/2"         | 40                | 29  | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 30          | 38         | 9         | 8 | 2W-40NK-A-AC220V                                                                                             | 2W-40JNK-AC220V   |
|                | 40                | 29  | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 30          | 38         |           |   | 2W-40NK-E-AC220V                                                                                             | 2W-40JNK-E-AC220V |
|                | 40                | 29  | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 30          | 38         |           |   | 2W-40NK-V-AC220V                                                                                             | 2W-40JNK-V-AC220V |
| 2"             | 50                | 48  | 0                        | 6                                                 | 6          | 80                     | NBR              | H                      | 30          | 38         | 9         | 8 | 2W-50NK-AC220V                                                                                               | 2W-50JNK-AC220V   |
|                | 50                | 48  | 0                        | 6                                                 | 6          | 130                    | EPDM             | H                      | 30          | 38         |           |   | 2W-50NK-E-AC220V                                                                                             | 2W-50JNK-E-AC220V |
|                | 50                | 48  | 0                        | 6                                                 | 6          | 120                    | VITON            | H                      | 30          | 38         |           |   | 2W-50NK-V-AC220V                                                                                             | 2W-50JNK-V-AC220V |

Note: ES coil can be EPDM, VITON sealed, but fluid temperature ≤ 80 ° C

## 2W series flange zero differential pressure(NC) solenoid valve DN15 ~ 50mm

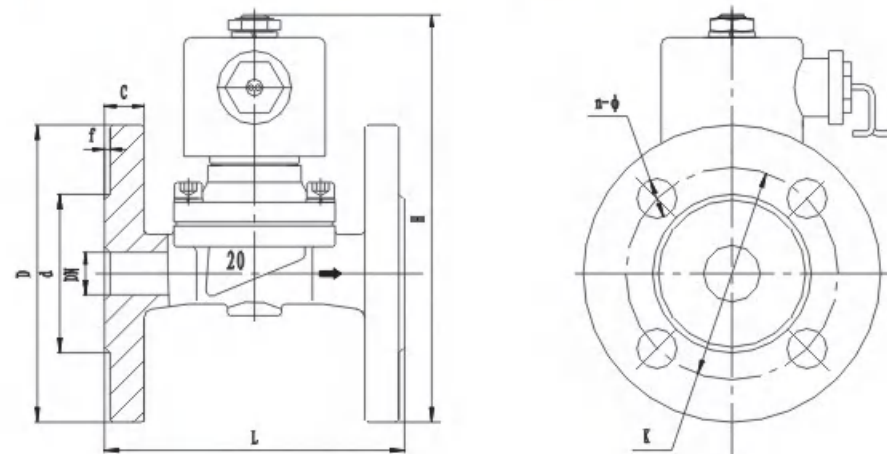


**Working medium:** water, liquid, air, light oil (viscosity ≤ 20cst)  
**Medium temperature:** -10~80°C (NBR sealing)  
**Working pressure:** 0~10bar (details see specification table)  
**Working type:** semi direct acting (NC)  
**Valvebody material:** Brass, SS304, cast iron  
**Sealing material:** NBR (-10~80°C)  
**Voltage:** AC220~240V, AC110V, 50/60Hz, DN10~20mm: 20VA, DN25mm: 40VA, DN32~50: 30VA  
 DC24V, DC12V; DN10~20: 20W, DN25mm: 32W, DN32~50mm: 38W, plastic coil: IP65, H degree  
**Options:**  
 Sealing material: EPDM (-20~130°C), VITON (-15~120°C), VMQ (-15~130°C)  
 Digital timer, LED light connector  
 ES low temp coil (DN10~25 AC220V 4VA, DC24V 4W; DN32~50 AC220V 9VA, DC24V 8W)  
 Ex: encapsulated Ex-proof coil

### Order code

| 2W    | Orifice                                             | J                                     | F        | N                                                                                               | V                                       | Voltage                            |
|-------|-----------------------------------------------------|---------------------------------------|----------|-------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|
| Model | 15:15mm<br>20:20mm<br>25:25mm<br>40:40mm<br>50:50mm | Blank:Brass<br>J:SS304<br>C:Cast iron | F:Flange | N:Plastic coil<br>L:Wire lead plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NBR<br>E:EPDM<br>V:VITON<br>Q:VMQ | AC220V<br>AC110V<br>DC24V<br>DC12V |

### 2W series flange connection(NC) solenoid valve drawing



## 2W series flange 2-way zero differential pressure (NC) solenoid valve

### 2W series flange connection (NC) solenoid valve specification table

| Model    | Connection | Orifice size(mm) | Cv  | Working pressure ( bar ) |                                                      |   | Max medium temp ( °C ) | Sealing material | Coil insulation degree | Coil power  |         |          |         | Material  | Weight (Kg) |
|----------|------------|------------------|-----|--------------------------|------------------------------------------------------|---|------------------------|------------------|------------------------|-------------|---------|----------|---------|-----------|-------------|
|          |            |                  |     | Min pressure             | Max pressure                                         |   |                        |                  |                        | Normal coil |         | ES coil  |         |           |             |
|          |            |                  |     |                          | Air,Gas,<br>Water,<br>Hot water,<br>Liquid,Light oil |   |                        |                  |                        | VA          | W       | VA       | W       |           |             |
|          |            |                  |     |                          |                                                      |   |                        |                  |                        | AC 220 V    | DC 24 V | AC 220 V | DC 24 V |           |             |
| 2W-15JFN | Flange     | 18               | 7.2 | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 20          | 20      | 4        | 4       | SS304     | 1.8         |
| 2W-20JFN |            | 18               | 7.2 | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 20          | 20      | 4        | 4       |           | 1.8         |
| 2W-25JFN |            | 25               | 12  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 40          | 32      | 4        | 4       |           | 2.7         |
| 2W-32JFN |            | 35               | 24  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       |           | 3.8         |
| 2W-40JFN |            | 40               | 29  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       |           | 4.8         |
| 2W-50JFN |            | 50               | 48  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       |           | 6.3         |
| 2W-32FN  |            | 35               | 24  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       | Brass     | 4.0         |
| 2W-40FN  |            | 40               | 29  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       |           | 5.2         |
| 2W-50FN  |            | 50               | 48  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       |           | 6.8         |
| 2W-40CFN |            | 40               | 29  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       | Cast iron | 4.6         |
| 2W-50CFN |            | 50               | 48  | 0                        | 10                                                   | 6 | 80                     | NBR              | H                      | 30          | 38      | 9        | 8       |           | 6.1         |

Note: ES/Ex coil can be EPDM, VITON sealed, but fluid temperature ≤ 80°C

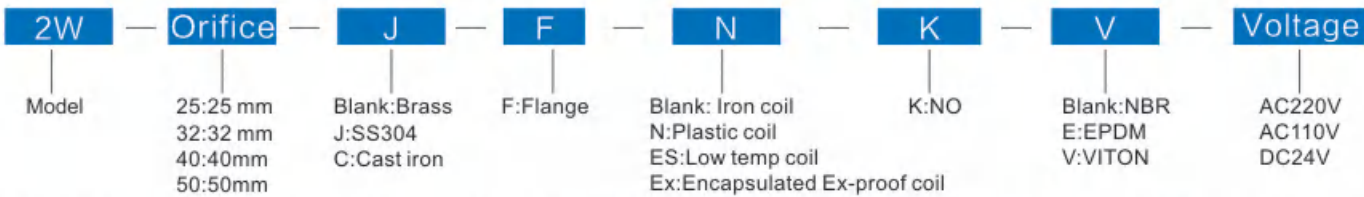
### 2W series flange connection(NC) solenoid valve dimension table

| Model    | PN=1.6MPa GB/T9113.1-2000 Flange connection dimension(mm) |     |     |     |     |    |    |   |       |
|----------|-----------------------------------------------------------|-----|-----|-----|-----|----|----|---|-------|
|          | DN                                                        | L   | D   | H   | K   | d  | C  | f | n-Φ   |
| 2W-15JFN | 18                                                        | 106 | 95  | 141 | 65  | 46 | 14 | 2 | 4-Φ14 |
| 2W-20JFN | 18                                                        | 106 | 105 | 143 | 75  | 56 | 16 | 2 | 4-Φ14 |
| 2W-25JFN | 25                                                        | 135 | 115 | 166 | 85  | 65 | 16 | 3 | 4-Φ14 |
| 2W-32JFN | 32                                                        | 142 | 140 | 204 | 100 | 76 | 18 | 3 | 4-Φ18 |
| 2W-40JFN | 40                                                        | 149 | 150 | 217 | 110 | 84 | 18 | 3 | 4-Φ18 |
| 2W-50JFN | 50                                                        | 184 | 165 | 227 | 125 | 99 | 20 | 3 | 4-Φ18 |
| 2W-32FN  | 32                                                        | 140 | 140 | 198 | 100 | 76 | 18 | 3 | 4-Φ18 |
| 2W-40FN  | 40                                                        | 150 | 150 | 211 | 110 | 84 | 18 | 3 | 4-Φ18 |
| 2W-50FN  | 50                                                        | 186 | 165 | 234 | 125 | 99 | 20 | 3 | 4-Φ18 |
| 2W-40CFN | 40                                                        | 165 | 150 | 215 | 110 | 84 | 18 | 3 | 4-Φ18 |
| 2W-50CFN | 50                                                        | 195 | 165 | 240 | 125 | 99 | 20 | 3 | 4-Φ18 |

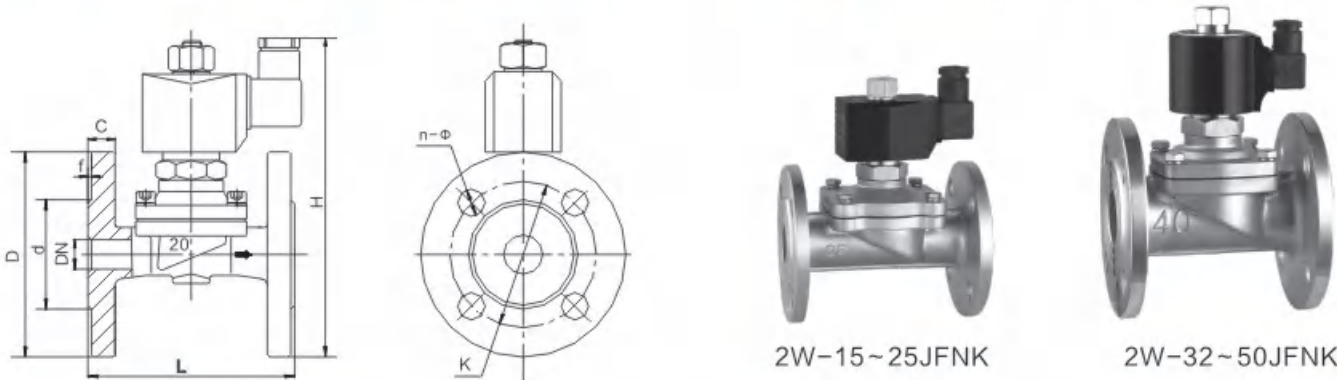
2W series flange 2-way zero pressure difference(NO) solenoid valve DN15~50mm

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃( NBR sealing )  
**Working pressure:** 0~6bar  
**Working type:** semi direct acting ( NO )  
**Valvebody material:** Brass, SS304, cast iron  
**Sealing material:** NBR(-10~80℃)  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, DC24V, DC12V, IP65 H degree, voltage could be customized  
DN10~20:AC20VA, DC20W, DN25: AC40VA, DC32W, DN32~50: AC30VA, DC38W  
**Options:**  
Sealing material: EPDM (-20~130℃ ) or VITON (-15~120℃ )  
Digital timer, LED light connector  
ES low temp coil ( DN10~25: AC220V5VA, DC24V6W, DN32~50: AC9VA, DC8W )  
Ex: encapsulated Ex-proof coil

Order code



2W series flange connection(NO) solenoid valve drawing and dimension table



| Model      | PN=1.6MPa GB/T9113.1-2000 flange connection dimension(mm) |     |     |     |     |    |    |   |       |
|------------|-----------------------------------------------------------|-----|-----|-----|-----|----|----|---|-------|
|            | DN                                                        | L   | D   | H   | K   | d  | C  | f | n-Φ   |
| 2W-15JF-NK | 18                                                        | 106 | 95  | 152 | 65  | 46 | 14 | 2 | 4-Φ14 |
| 2W-20JF-NK | 18                                                        | 106 | 105 | 152 | 75  | 56 | 16 | 2 | 4-Φ14 |
| 2W-25JF-NK | 25                                                        | 135 | 115 | 165 | 85  | 65 | 16 | 3 | 4-Φ14 |
| 2W-32JF-NK | 32                                                        | 142 | 140 | 224 | 100 | 76 | 18 | 3 | 4-Φ18 |
| 2W-40JF-NK | 40                                                        | 149 | 150 | 236 | 110 | 84 | 18 | 3 | 4-Φ18 |
| 2W-50JF-NK | 50                                                        | 184 | 165 | 256 | 125 | 99 | 20 | 3 | 4-Φ18 |
| 2W-32F-NK  | 32                                                        | 140 | 140 | 224 | 100 | 76 | 18 | 3 | 4-Φ18 |
| 2W-40F-NK  | 40                                                        | 150 | 150 | 236 | 110 | 84 | 18 | 3 | 4-Φ18 |
| 2W-50F-NK  | 50                                                        | 186 | 165 | 256 | 125 | 99 | 20 | 3 | 4-Φ18 |
| 2W-40CF-NK | 40                                                        | 170 | 150 | 236 | 110 | 84 | 18 | 3 | 4-Φ18 |
| 2W-50CF-NK | 50                                                        | 200 | 165 | 256 | 125 | 99 | 20 | 3 | 4-Φ18 |

2W series flange 2-way zero differential pressure(NO) solenoid valve

2W series flange connection ( NO ) solenoid valve specification table

| Model                       | Orifice size (mm) | Cv  | Working pressure (bar) |                                                      |                | Max medium temp (℃) | Sealing material | Coil insulation degree | Coil power    |                |               |   | Normal order code  | Weight ( Kg ) |
|-----------------------------|-------------------|-----|------------------------|------------------------------------------------------|----------------|---------------------|------------------|------------------------|---------------|----------------|---------------|---|--------------------|---------------|
|                             |                   |     | Min pressure           | Max pressure                                         | Normal coil    |                     |                  |                        | ES coil       |                |               |   |                    |               |
|                             |                   |     |                        | Air,Gas,<br>Water,<br>Hot water,<br>Liquid Light oil | VA             |                     |                  |                        | W             | VA             | W             |   |                    |               |
|                             |                   |     |                        |                                                      | AC<br>220<br>V |                     |                  |                        | DC<br>24<br>V | AC<br>220<br>V | DC<br>24<br>V |   |                    |               |
| 2W-15JF-NK<br>( SS304 )     | 18                | 7.2 | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 20            | 20             | 5             | 6 | 2W-15JF-NK- AC220  | 1.9           |
|                             | 18                | 7.2 | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 20            | 20             |               |   | 2W-15JF-NK-E-AC220 | 1.9           |
|                             | 18                | 7.2 | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 20            | 20             |               |   | 2W-15JF-NK-V-AC220 | 1.9           |
| 2W-20JF-NK<br>( SS304 )     | 18                | 7.2 | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 20            | 20             | 5             | 6 | 2W-20JF-NK--AC220  | 1.9           |
|                             | 18                | 7.2 | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 20            | 20             |               |   | 2W-20JF-NK-E-AC220 | 1.9           |
|                             | 18                | 7.2 | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 20            | 20             |               |   | 2W-20JF-NK-V-AC220 | 1.9           |
| 2W-25JF-NK<br>( SS304 )     | 25                | 12  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 40            | 32             | 5             | 6 | 2W-25JF-NK-AC220   | 2.8           |
|                             | 25                | 12  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 40            | 32             |               |   | 2W-25JF-NK-E-AC220 | 2.8           |
|                             | 25                | 12  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 40            | 32             |               |   | 2W-25JF-NK-V-AC220 | 2.8           |
| 2W-32JF-NK<br>( SS304 )     | 32                | 24  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-35JF-NK-AC220   | 4.2           |
|                             | 32                | 24  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-35JF-NK-E-AC220 | 4.2           |
|                             | 32                | 24  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-35JF-NK-V-AC220 | 4.2           |
| 2W-40JF-NK<br>( SS304 )     | 40                | 29  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-40JF-NK-AC220   | 5.3           |
|                             | 40                | 29  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-40JF-NK-E-AC220 | 5.3           |
|                             | 40                | 29  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-40JF-NK-V-AC220 | 5.3           |
| 2W-50JF-NK<br>( SS304 )     | 50                | 48  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-50JF-NK-AC220   | 6.8           |
|                             | 50                | 48  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-50JF-NK-E-AC220 | 6.8           |
|                             | 50                | 48  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-50JF-NK-V-AC220 | 6.8           |
| 2W-32F-NK<br>( Brass )      | 32                | 24  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-32F-NK-AC220    | 5.2           |
|                             | 32                | 24  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-32F-NK-E-AC220  | 5.2           |
|                             | 32                | 24  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-32F-NK-V-AC220  | 5.2           |
| 2W-40F-NK<br>( Brass )      | 40                | 29  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-40F-NK-AC220    | 6.3           |
|                             | 40                | 29  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-40F-NK-E-AC220  | 6.3           |
|                             | 40                | 29  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-40F-NK-V-AC220  | 6.3           |
| 2W-50F-NK<br>( Brass )      | 50                | 48  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-50F-NK-AC220    | 7.0           |
|                             | 50                | 48  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-50F-NK-E-AC220  | 7.0           |
|                             | 50                | 48  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-50F-NK-V-AC220  | 7.0           |
| 2W-40CF-NK<br>( Cast iron ) | 40                | 29  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-40CF-NK-AC220   | 6.7           |
|                             | 40                | 29  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-40CF-NK-E-AC220 | 6.7           |
|                             | 40                | 29  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-40CF-NK-V-AC220 | 6.7           |
| 2W-50CF-NK<br>( Cast iron ) | 50                | 48  | 0                      | 6                                                    | 6              | 80                  | NBR              | H                      | 30            | 38             | 9             | 8 | 2W-50CF-NK-AC220   | 8.0           |
|                             | 50                | 48  | 0                      | 6                                                    | 6              | 130                 | EPDM             | H                      | 30            | 38             |               |   | 2W-50CF-NK-E-AC220 | 8.0           |
|                             | 50                | 48  | 0                      | 6                                                    | 6              | 120                 | VITON            | H                      | 30            | 38             |               |   | 2W-50CF-NK-V-AC220 | 8.0           |

Note: ES coil can be EPDM, VITON sealed, but fluid temperature ≤ 80℃

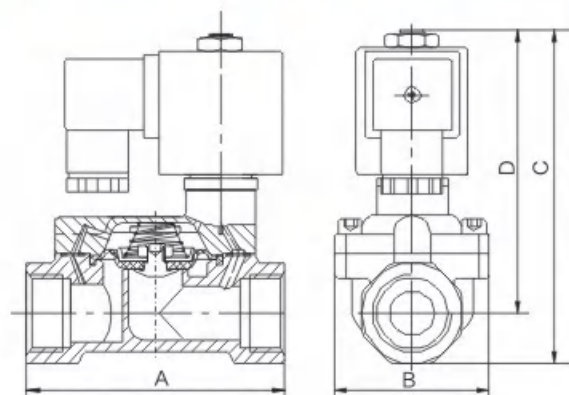
DFD series 2-way pilot operated ( NC ) solenoid valve 3/8 " ~ 3 "

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃( NBR sealing )  
**Working pressure:** 0.3~12bar ( details see specification table )  
**Working type:** pilot operated ( NC )  
**Valvebody material:** Brass, SS304  
**Sealing material:** NBR(-10~80℃)  
**Interface:** G thread, NPT, thread  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, 24VA  
DC24V, DC12V, 20W, IP65, H degree  
**Options:** Rc thread  
Sealing material: EPDM (-20~130℃ ) or VITON (-15~120℃ )  
Digital timer, LED light connector  
ES low temp coil ( AC220V 4VA, DC24V 4W )  
Ex: encapsulated Ex-proof coil  
**Note:** Select ES, Ex coil fluid temperature≤80℃

Order code

| DFD   | Thread                                                                             | J                      | ES                                                                      | S                                              | T                              | V                              | Voltage                                     |
|-------|------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2"<br>80:3" | Blank:Brass<br>J:SS304 | Blank:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:No manual switch<br>S:With manual switch | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

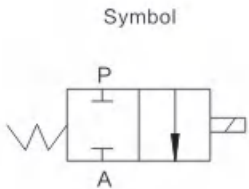
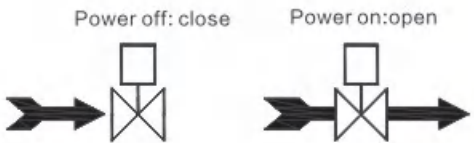
DFD series ( NC ) solenoid valve drawing



| Model  | A   | B   | C   | D   | Weight(Kg) |       |
|--------|-----|-----|-----|-----|------------|-------|
|        |     |     |     |     | Brass      | SS304 |
| DFD-15 | 80  | 45  | 105 | 91  | 0.7        | 0.65  |
| DFD-20 | 87  | 52  | 115 | 98  | 0.9        | 0.8   |
| DFD-25 | 107 | 67  | 125 | 104 | 1.3        | 1.2   |
| DFD-32 | 130 | 84  | 133 | 108 | 1.9        | 1.7   |
| DFD-40 | 145 | 95  | 151 | 122 | 2.5        | 2.3   |
| DFD-50 | 177 | 128 | 166 | 131 | 4.3        | 4.0   |
| DFD-80 | 250 | 195 | 215 | 165 | 11.5       |       |

DFD series 2-way pilot operated ( NC ) solenoid valve

NC solenoid valve ON/OFF status



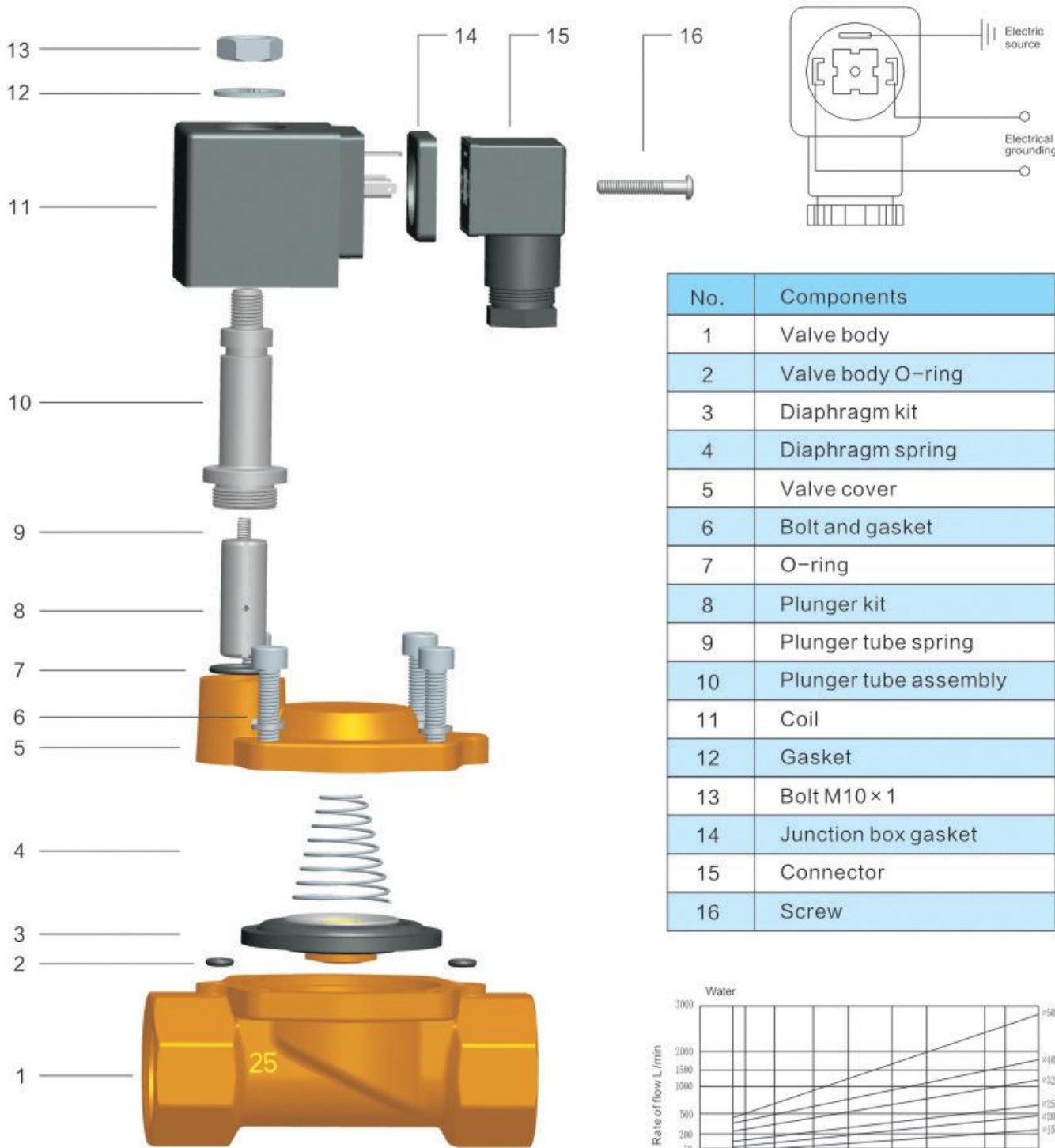
DFD series 2-way pilot operated ( NC ) specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure (bar) |                                                      |             | Max medium temp (℃) | Sealing material | Coil insulation degree | Coil power |          |                                                                                             |   | Normal order code |                  |
|----------------|-------------------|-----|------------------------|------------------------------------------------------|-------------|---------------------|------------------|------------------------|------------|----------|---------------------------------------------------------------------------------------------|---|-------------------|------------------|
|                |                   |     | Min pressure           | Max pressure                                         | Normal coil |                     |                  |                        | ES coil    |          | Plastic coil<br>Voltage AC220V<br>G thread<br>Sealing material:<br>Blank:NBR E:EPDM V:VITON |   |                   |                  |
|                |                   |     |                        | air, gas<br>water,<br>hot water,<br>liquid light oil | VA          |                     |                  |                        | W          | VA       |                                                                                             |   | W                 |                  |
|                |                   |     |                        |                                                      | AC 220 V    |                     |                  |                        | DC 24 V    | AC 220 V |                                                                                             |   | DC 24 V           |                  |
|                |                   |     |                        |                                                      | AC          |                     |                  |                        | DC         | Brass    |                                                                                             |   | SS304             |                  |
| 1/2"           | 13                | 4.5 | 0.3                    | 12                                                   | 12          | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-15-AC220V     | DFD-15J-AC220V   |
|                | 13                | 4.5 | 0.3                    | 12                                                   | 12          | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-15-E-AC220V   | DFD-15J-E-AC220V |
|                | 13                | 4.5 | 0.3                    | 12                                                   | 12          | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-15-V-AC220V   | DFD-15J-V-AC220V |
| 3/4"           | 18                | 7.2 | 0.3                    | 12                                                   | 12          | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-20-AC220V     | DFD-20J-AC220V   |
|                | 18                | 7.2 | 0.3                    | 12                                                   | 12          | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-20-E-AC220V   | DFD-20J-E-AC220V |
|                | 18                | 7.2 | 0.3                    | 12                                                   | 12          | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-20-V-AC220V   | DFD-20J-V-AC220V |
| 1"             | 23                | 12  | 0.3                    | 12                                                   | 12          | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-25-AC220V     | DFD-25J-AC220V   |
|                | 23                | 12  | 0.3                    | 12                                                   | 12          | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-25-E-AC220V   | DFD-25J-E-AC220V |
|                | 23                | 12  | 0.3                    | 12                                                   | 12          | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-25-V-AC220V   | DFD-25J-V-AC220V |
| 1 1/4"         | 32                | 24  | 0.3                    | 12                                                   | 8           | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-32-AC220V     | DFD-32J-AC220V   |
|                | 32                | 24  | 0.3                    | 12                                                   | 8           | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-32-E-AC220V   | DFD-32J-E-AC220V |
|                | 32                | 24  | 0.3                    | 12                                                   | 8           | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-32-V-AC220V   | DFD-32J-V-AC220V |
| 1 1/2"         | 40                | 30  | 0.3                    | 12                                                   | 8           | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-40-AC220V     | DFD-40J-AC220V   |
|                | 40                | 30  | 0.3                    | 12                                                   | 8           | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-40-E-AC220V   | DFD-40J-E-AC220V |
|                | 40                | 30  | 0.3                    | 12                                                   | 8           | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-40-V-AC220V   | DFD-40J-V-AC220V |
| 2"             | 50                | 48  | 0.3                    | 12                                                   | 8           | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-50-AC220V     | DFD-50J-AC220V   |
|                | 50                | 48  | 0.3                    | 12                                                   | 8           | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-50-E-AC220V   | DFD-50J-E-AC220V |
|                | 50                | 48  | 0.3                    | 12                                                   | 8           | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-50-V-AC220V   | DFD-50J-V-AC220V |
| 3"             | 80                | 82  | 0.3                    | 10                                                   | 8           | 80                  | NBR              | H                      | 24         | 20       | 4                                                                                           | 4 | DFD-80 -AC220V    |                  |
|                | 80                | 82  | 0.3                    | 10                                                   | 8           | 130                 | EPDM             | H                      | 24         | 20       |                                                                                             |   | DFD-80-E -AC220V  |                  |
|                | 80                | 82  | 0.3                    | 10                                                   | 8           | 120                 | VITON            | H                      | 24         | 20       |                                                                                             |   | DFD-80-V -AC220V  |                  |

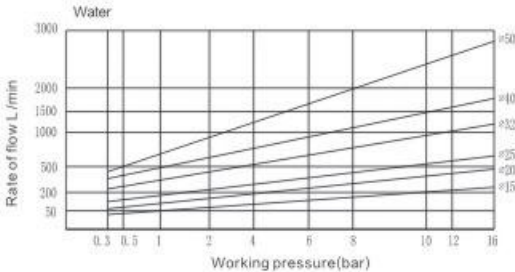
Note: ES coil can be EPDM, VITON sealed, but fluid temperature ≤ 80℃

DFD series 2-way pilot operated ( NC ) solenoid valve

Components table



| No. | Components            |
|-----|-----------------------|
| 1   | Valve body            |
| 2   | Valve body O-ring     |
| 3   | Diaphragm kit         |
| 4   | Diaphragm spring      |
| 5   | Valve cover           |
| 6   | Bolt and gasket       |
| 7   | O-ring                |
| 8   | Plunger kit           |
| 9   | Plunger tube spring   |
| 10  | Plunger tube assembly |
| 11  | Coil                  |
| 12  | Gasket                |
| 13  | Bolt M10 × 1          |
| 14  | Junction box gasket   |
| 15  | Connector             |
| 16  | Screw                 |



DFD series flange 2-way pilot operated ( NC ) solenoid valve DN25~200mm

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃ ( NBR sealing )  
**Working pressure:** 0.3~12bar ( details see specification table )  
**Working type:** pilot operated ( NC )  
**Valve body material:** SS304, cast iron  
**Sealing material:** NBR ( -10~80℃ )  
**Interface:** flange  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, IP65, H degree  
DN25~100mm: 24VA, DN125~200mm: 40VA  
DC24V/12V: DN25~100mm: 20W, DN125~200mm: 32W  
**Options:**  
Sealing material: EPDM ( -20~130℃ ) or VITON ( -15~120℃ )  
Digital timer, LED light connector  
ES low temp coil DN<125mm: AC220V 4VA, DC24V 4W  
DN≥125mm: AC220V 8VA, DC24V 7W  
Ex: encapsulated Ex-proof coil, wire lead plastic coil  
**Note:** Select ES, Ex coil fluid temperature≤80℃



DFD-100JF

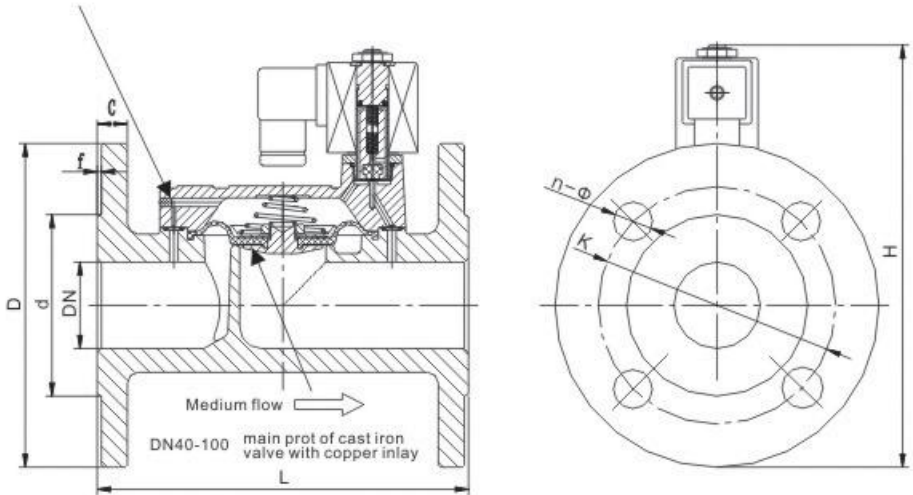


DFD-200CF

Order code

| DFD   | Orifice                                                                       | J                      | F        | ES                                                                      | V                                 | Voltage                                     |
|-------|-------------------------------------------------------------------------------|------------------------|----------|-------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|
| Model | 25:25 mm<br>32:32 mm<br>40:40mm<br>50:50mm<br>65:65mm<br>80:80mm<br>100:100mm | J:SS304<br>C:cast iron | F:flange | Blank:plastic coil<br>ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank: NBR<br>E: EPDM<br>V: VITON | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

Install stainless steel filter in the inlet of cast iron valve above DN65



DFD-series flange 2-way pilot operated ( NC ) solenoid valve drawing

DFD series flange 2-way pilot operated ( NC ) solenoid valve

DFD series SS304 and cast iron flange( NC ) solenoid valve specification table

| Model     | Orifice size (mm) | Cv  | Working pressure (bar) |                                                   |    | Max medium temperature | Coil insulation degree | Coil power  |         |          |         | Normal order code                                       |
|-----------|-------------------|-----|------------------------|---------------------------------------------------|----|------------------------|------------------------|-------------|---------|----------|---------|---------------------------------------------------------|
|           |                   |     | Min pressure           | Max pressure                                      |    |                        |                        | Normal coil |         | ES coil  |         | Plastic coil<br><br>AC220V<br><br>Sealing material: NBR |
|           |                   |     |                        | Air, liquid,<br>Water,<br>Hot water,<br>Light oil |    |                        |                        | VA          | W       | VA       | W       |                                                         |
|           |                   |     |                        |                                                   |    |                        |                        | AC 220 V    | DC 24 V | AC 220 V | DC 24 V |                                                         |
|           |                   |     |                        |                                                   |    |                        |                        | AC          | DC      |          |         |                                                         |
| DFD-25JF  | 25                | 12  | 0.3                    | 12                                                | 12 | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-25JF-AC220V                                         |
| DFD-32JF  | 32                | 24  | 0.3                    | 12                                                | 12 | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-32JF-AC220V                                         |
| DFD-40JF  | 40                | 30  | 0.3                    | 12                                                | 12 | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-40JF-AC220V                                         |
| DFD-50JF  | 50                | 48  | 0.3                    | 12                                                | 12 | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-50JF-AC220V                                         |
| DFD-65JF  | 65                | 52  | 0.3                    | 10                                                | 8  | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-65JF-AC220V                                         |
| DFD-80JF  | 80                | 82  | 0.3                    | 10                                                | 8  | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-80JF-AC220V                                         |
| DFD-100JF | 100               | 128 | 0.3                    | 10                                                | 8  | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-100JF-AC220V                                        |
| DFD-150JF | 150               | 292 | 0.3                    | 8                                                 | 8  | 80                     | H                      | 40          | 32      | 8        | 7       | DFD-150JF-AC220V                                        |
| DFD-40CF  | 40                | 30  | 0.3                    | 10                                                | 10 | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-40CF-AC220V                                         |
| DFD-50CF  | 50                | 48  | 0.3                    | 10                                                | 10 | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-50CF-AC220V                                         |
| DFD-65CF  | 65                | 52  | 0.3                    | 10                                                | 8  | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-65CF-AC220V                                         |
| DFD-80CF  | 80                | 82  | 0.3                    | 10                                                | 8  | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-80CF-AC220V                                         |
| DFD-100CF | 100               | 128 | 0.3                    | 10                                                | 8  | 80                     | H                      | 24          | 20      | 4        | 4       | DFD-100CF-AC220V                                        |
| DFD-125CF | 125               | 222 | 0.3                    | 8                                                 | 8  | 80                     | H                      | 40          | 32      | 8        | 7       | DFD-125CF-AC220V                                        |
| DFD-150CF | 150               | 292 | 0.3                    | 8                                                 | 8  | 80                     | H                      | 40          | 32      | 8        | 7       | DFD-150CF-AC220V                                        |
| DFD-200CF | 200               | 513 | 0.3                    | 8                                                 | 8  | 80                     | H                      | 40          | 32      | 8        | 7       | DFD-200CF-AC220V                                        |

DFD series flange( NC ) solenoid valve dimensions table ( PN=1.6MPa GB/T9113.1-2000 )

| Model     | L   | D   | H   | K   | d   | C  | f | n-Φ    | Valvebody material | Weight (Kg) |
|-----------|-----|-----|-----|-----|-----|----|---|--------|--------------------|-------------|
| DFD-25JF  | 141 | 115 | 165 | 85  | 65  | 16 | 3 | 4-Φ14  | SS304              | 2.9         |
| DFD-32JF  | 158 | 145 | 185 | 100 | 76  | 18 | 3 | 4-Φ18  |                    | 4.4         |
| DFD-40JF  | 173 | 150 | 196 | 110 | 84  | 18 | 3 | 4-Φ18  |                    | 5.1         |
| DFD-50JF  | 204 | 165 | 200 | 125 | 99  | 20 | 3 | 4-Φ18  |                    | 7.7         |
| DFD-65JF  | 256 | 185 | 248 | 145 | 118 | 20 | 3 | 4-Φ18  |                    | 12.5        |
| DFD-80JF  | 277 | 200 | 268 | 160 | 132 | 20 | 3 | 8-Φ18  |                    | 15.3        |
| DFD-100JF | 350 | 220 | 290 | 180 | 156 | 22 | 3 | 8-Φ18  |                    | 23.2        |
| DFD-150JF | 450 | 285 | 402 | 240 | 211 | 24 | 3 | 8-Φ22  | cast iron          | 62          |
| DFD-40CF  | 170 | 150 | 196 | 110 | 84  | 18 | 3 | 4-Φ18  |                    | 6.0         |
| DFD-50CF  | 200 | 165 | 200 | 125 | 99  | 20 | 3 | 4-Φ18  |                    | 9.2         |
| DFD-65CF  | 259 | 185 | 277 | 145 | 118 | 20 | 3 | 4-Φ18  |                    | 15.1        |
| DFD-80CF  | 278 | 200 | 289 | 160 | 132 | 20 | 3 | 8-Φ18  |                    | 17          |
| DFD-100CF | 350 | 220 | 316 | 180 | 156 | 22 | 3 | 8-Φ18  |                    | 23.2        |
| DFD-125CF | 425 | 250 | 398 | 210 | 186 | 22 | 3 | 8-Φ18  |                    | 54.7        |
| DFD-150CF | 450 | 285 | 430 | 240 | 211 | 24 | 3 | 8-Φ22  |                    | 55.2        |
| DFD-200CF | 560 | 340 | 516 | 295 | 266 | 24 | 3 | 12-Φ22 |                    | 112         |

DFD series 2-way pilot operated ( NO ) solenoid valve 3/8 " ~ 3 "

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80℃ ( NBR sealing )  
**Working pressure:** 0.3~8bar ( details see specification table )  
**Working type:** pilot operated ( NO )  
**Valvebody material:** Brass, SS304  
**Sealing material:** NBR ( -10~80℃ )  
**Interface:** G thread NPT thread  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, 24VA  
DC24V, DC12V, 20W, IP65, H degree

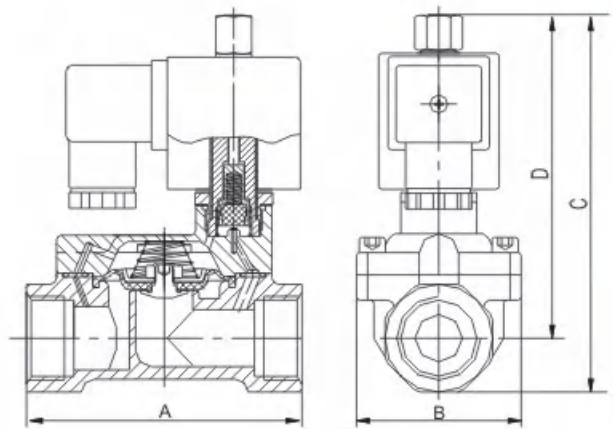
**Options:**  
Rc thread  
Sealing material: EPDM ( -20~130℃ ) or VITON ( -15~120℃ )  
digital timer, LED light connector  
ES low temp coil ( AC220V 8VA, DC24V 6W )  
Ex: encapsulated Ex-proof coil  
Valvebody material: SS316



DFD-20K DFD-25JKES

Order code

| DFD   | Thread                                                                             | J                      | K    | ES                                                                      | T                              | V                              | Voltage                                     |
|-------|------------------------------------------------------------------------------------|------------------------|------|-------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2"<br>80:3" | Blank:Brass<br>J:SS304 | K:NO | Blank:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |



DFD series ( NO ) solenoid valve drawing

| Model   | A   | B   | C   | D   | Weight ( Kg ) |       |
|---------|-----|-----|-----|-----|---------------|-------|
|         |     |     |     |     | Brass         | SS304 |
| DFD-15K | 80  | 45  | 108 | 94  | 0.7           | 0.7   |
| DFD-20K | 87  | 52  | 118 | 101 | 0.9           | 0.8   |
| DFD-25K | 107 | 67  | 128 | 107 | 1.3           | 1.1   |
| DFD-32K | 130 | 84  | 135 | 110 | 1.9           | 1.7   |
| DFD-40K | 145 | 95  | 153 | 124 | 2.5           | 2.3   |
| DFD-50K | 177 | 128 | 168 | 133 | 4.3           | 4.0   |
| DFD-80K | 250 | 195 | 225 | 175 | 11.5          |       |

DFD series 2-way pilot operated ( NO ) solenoid valve

DFD series 2-way pilot operated ( NO ) solenoid valve specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure (bar) |                                                |             | Max medium temp (℃) | Sealing material | Coil insulation degree | Coil power |    |                                                                                                      |   | Normal order code |                   |
|----------------|-------------------|-----|------------------------|------------------------------------------------|-------------|---------------------|------------------|------------------------|------------|----|------------------------------------------------------------------------------------------------------|---|-------------------|-------------------|
|                |                   |     | Min pressure           | Max pressure                                   | Normal coil |                     |                  |                        | ES coil    |    | Plastic coil<br>Voltage AC220V<br>G thread<br>Sealing material:<br>Blank: NBR    E: EPDM    V: VITON |   |                   |                   |
|                |                   |     |                        | air, gas<br>water hotwater<br>liquid light oil | VA          |                     |                  |                        | W          | VA |                                                                                                      |   | W                 |                   |
|                |                   |     |                        |                                                |             |                     |                  |                        |            |    |                                                                                                      |   |                   |                   |
|                |                   |     |                        |                                                |             |                     |                  |                        |            |    |                                                                                                      |   |                   |                   |
| AC             | DC                |     |                        |                                                |             | Brass               | SS304            |                        |            |    |                                                                                                      |   |                   |                   |
| 1/2"           | 13                | 4.5 | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-15K-AC220V    | DFD-15JK-AC220V   |
|                | 13                | 4.5 | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-15K-E-AC220V  | DFD-15JK-E-AC220V |
|                | 13                | 4.5 | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-15K-V-AC220V  | DFD-15JK-V-AC220V |
| 3/4"           | 18                | 7.2 | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-20K-AC220V    | DFD-20JK-AC220V   |
|                | 18                | 7.2 | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-20K-E-AC220V  | DFD-20JK-E-AC220V |
|                | 18                | 7.2 | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-20K-V-AC220V  | DFD-20JK-V-AC220V |
| 1"             | 23                | 12  | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-25K-AC220V    | DFD-25JK-AC220V   |
|                | 23                | 12  | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-25K-E-AC220V  | DFD-25JK-E-AC220V |
|                | 23                | 12  | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-25K-V-AC220V  | DFD-25JK-V-AC220V |
| 1 1/4"         | 32                | 24  | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-32K-AC220V    | DFD-32JK-AC220V   |
|                | 32                | 24  | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-32K-E-AC220V  | DFD-32JK-E-AC220V |
|                | 32                | 24  | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-32K-V-AC220V  | DFD-32JK-V-AC220V |
| 1 1/2"         | 40                | 30  | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-40K-AC220V    | DFD-40JK-AC220V   |
|                | 40                | 30  | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-40K-E-AC220V  | DFD-40JK-E-AC220V |
|                | 40                | 30  | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-40K-V-AC220V  | DFD-40JK-V-AC220V |
| 2"             | 50                | 48  | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-50K-AC220V    | DFD-50JK-AC220V   |
|                | 50                | 48  | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-50K-E-AC220V  | DFD-50JK-E-AC220V |
|                | 50                | 48  | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-50K-V-AC220V  | DFD-50JK-V-AC220V |
| 3"             | 80                | 82  | 0.3                    | 8                                              | 6           | 80                  | NBR              | H                      | 24         | 20 | 8                                                                                                    | 6 | DFD-80K-AC220V    |                   |
|                | 80                | 82  | 0.3                    | 8                                              | 6           | 130                 | EPDM             | H                      | 24         | 20 |                                                                                                      |   | DFD-80K-E-AC220V  |                   |
|                | 80                | 82  | 0.3                    | 8                                              | 6           | 120                 | VITON            | H                      | 24         | 20 |                                                                                                      |   | DFD-80K-V-AC220V  |                   |

Note: ES, Ex coil can be EPDM, VITON sealed, but fluid temperature ≤ 80°C

DFD series flange 2-way pilot operated ( NO ) solenoid valve DN25~200mm

**Working medium:** water, liquid, air, light oil ( viscosity≤20cst )  
**Medium temperature:** -10~80°C (NBR sealing )  
**Working pressure:** 0.3~8bar ( details see specification table )  
**Working type:** pilot operated ( NO )  
**Valvebody material:** SS304 cast iron  
**Sealing material:** NBR ( -10~80°C )  
**Connection type:** flange connection  
**Working voltage:** AC220~240V, AC110V, 50/60Hz;  
DN≤100mm 24VA, DN≥125mm 40VA  
DC24/12V DN≤100mm 20W, DN≥125mm 32W, IP65, H degree

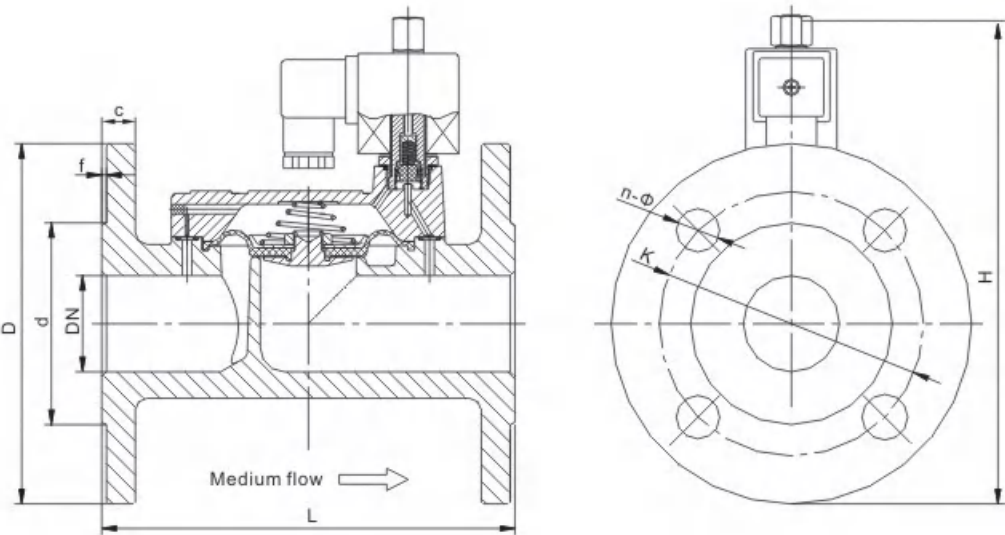


DFD-25JFK

**Options:**  
Sealing material: EPDM ( -20~130°C ) or VITON ( -15~120°C )  
Digital timer, LED light connector  
ES low temp coil, DN25~100, AC220V 8VA, DC24V 6W, DN125~200, AC220V 8VA, DC24V 7W  
Ex: encapsulated Ex-proof coil  
**Note:** Select ES, Ex coil fluid temperature≤80°C

Order code

| DFD   | Orifice                                                                       | J                      | F        | K    | ES                                                                      | V                              | Voltage                                     |
|-------|-------------------------------------------------------------------------------|------------------------|----------|------|-------------------------------------------------------------------------|--------------------------------|---------------------------------------------|
| Model | 25:25 mm<br>32:32 mm<br>40:40mm<br>50:50mm<br>65:65mm<br>80:80mm<br>100:100mm | J:SS304<br>C:Cast iron | F:Flange | K:NO | Blank:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NBR<br>E:EPDM<br>V:VITON | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |



DFD-series flange connection(NO) solenoid valve drawing

DFD series flange 2-way pilot operated ( NO ) solenoid valve

DFD series SS304 and cast iron flange connection ( NO ) solenoid valve specification table

| Model      | Orifice size (mm) | Cv  | Working pressure (bar) |                                         |   | Max medium temp (℃) | Coil insulation degree | Coil power  |         |          |         | Normal order code                              |
|------------|-------------------|-----|------------------------|-----------------------------------------|---|---------------------|------------------------|-------------|---------|----------|---------|------------------------------------------------|
|            |                   |     | Min pressure           | Max pressure                            |   |                     |                        | Normal coil |         | ES coil  |         | Plastic coil<br>AC220V<br>Sealing material:NBR |
|            |                   |     |                        | Water, hotwater, air, liquid, light oil |   |                     |                        | VA          | W       | VA       | W       |                                                |
|            |                   |     |                        |                                         |   |                     |                        | AC 220 V    | DC 24 V | AC 220 V | DC 24 V |                                                |
|            |                   |     |                        |                                         |   |                     |                        |             |         |          |         |                                                |
| DFD-25JFK  | 25                | 12  | 0.3                    | 8                                       | 8 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-25JFK - AC220V                             |
| DFD-32JFK  | 32                | 24  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-32JFK - AC220V                             |
| DFD-40JFK  | 40                | 30  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-40JFK - AC220V                             |
| DFD-50JFK  | 50                | 48  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-50JFK - AC220V                             |
| DFD-65JFK  | 65                | 52  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-65JFK - AC220V                             |
| DFD-80JFK  | 80                | 82  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-80JFK - AC220V                             |
| DFD-100JFK | 100               | 128 | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-100JFK - AC220V                            |
| DFD-150JFK | 150               | 292 | 0.3                    | 8                                       | 6 | 80                  | H                      | 40          | 32      | 8        | 7       | DFD-150JFK - AC220V                            |
| DFD-40CFK  | 40                | 30  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-40CFK - AC220V                             |
| DFD-50CFK  | 50                | 48  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-50CFK - AC220V                             |
| DFD-65CFK  | 65                | 52  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-65CFK - AC220V                             |
| DFD-80CFK  | 80                | 82  | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-80CFK - AC220V                             |
| DFD-100CFK | 100               | 128 | 0.3                    | 8                                       | 6 | 80                  | H                      | 24          | 20      | 8        | 6       | DFD-100CFK - AC220V                            |
| DFD-125CFK | 125               | 222 | 0.3                    | 8                                       | 6 | 80                  | H                      | 40          | 32      | 8        | 7       | DFD-125CFK - AC220V                            |
| DFD-150CFK | 150               | 292 | 0.3                    | 8                                       | 6 | 80                  | H                      | 40          | 32      | 8        | 7       | DFD-150CFK - AC220V                            |
| DFD-200CFK | 200               | 513 | 0.3                    | 8                                       | 6 | 80                  | H                      | 40          | 32      | 8        | 7       | DFD-200CFK - AC220V                            |

DFD series flange(NO ) solenoid valve dimensions table ( PN=1.6MPa GB/T9113.1-2000 )

| Model      | L   | D   | H   | K   | d   | C  | f | n-Φ    | Valvebody material | Weight (Kg) |
|------------|-----|-----|-----|-----|-----|----|---|--------|--------------------|-------------|
| DFD-25JFK  | 141 | 115 | 175 | 85  | 65  | 16 | 3 | 4-Φ14  | SS304              | 2.9         |
| DFD-32JFK  | 158 | 145 | 195 | 100 | 76  | 18 | 3 | 4-Φ18  |                    | 4.4         |
| DFD-40JFK  | 173 | 150 | 206 | 110 | 84  | 18 | 3 | 4-Φ18  |                    | 5.1         |
| DFD-50JFK  | 204 | 165 | 210 | 125 | 99  | 20 | 3 | 4-Φ18  |                    | 7.7         |
| DFD-65JFK  | 256 | 185 | 258 | 145 | 118 | 20 | 3 | 4-Φ18  |                    | 12.5        |
| DFD-80JFK  | 277 | 200 | 278 | 160 | 132 | 20 | 3 | 8-Φ18  |                    | 15.3        |
| DFD-100JFK | 350 | 220 | 300 | 180 | 156 | 22 | 3 | 8-Φ18  |                    | 23.2        |
| DFD-150JFK | 450 | 285 | 412 | 240 | 211 | 24 | 3 | 8-Φ22  | Cast iron          | 62          |
| DFD-40CFK  | 170 | 150 | 206 | 110 | 84  | 18 | 3 | 4-Φ18  |                    | 6           |
| DFD-50CFK  | 200 | 165 | 210 | 125 | 99  | 20 | 3 | 4-Φ18  |                    | 9.2         |
| DFD-65CFK  | 259 | 185 | 287 | 145 | 118 | 20 | 3 | 4-Φ18  |                    | 15.1        |
| DFD-80CFK  | 278 | 200 | 299 | 160 | 132 | 20 | 3 | 8-Φ18  |                    | 17          |
| DFD-100CFK | 350 | 220 | 326 | 180 | 156 | 22 | 3 | 8-Φ18  |                    | 23.2        |
| DFD-125CFK | 425 | 250 | 408 | 210 | 186 | 22 | 3 | 8-Φ18  |                    | 54.7        |
| DFD-150CFK | 450 | 285 | 440 | 240 | 211 | 24 | 3 | 8-Φ22  |                    | 55.2        |
| DFD-200CFK | 560 | 340 | 526 | 295 | 266 | 24 | 3 | 12-Φ22 |                    | 112         |

DG series big size backflush(anti water hammer)NC solenoid valveDN50~200mm

**Working medium:** water、liquid、air、light oil ( ≤20CST )  
**Medium temperature:** -10~80℃ ( NBR sealing )  
**Working pressure:** 0.3~16bar ( all series )  
**Working type:** pilot operated ( NC )  
**Valvebody material:** ductile iron QT450  
**Sealing material:** NBR (-10~80℃)  
**Interface:** flange  
**Working voltage:** AC220V 50/60Hz 24VA, DC24V 20W, IP65, H degree  
**Options:**  
Sealing material: EPDM ( -20~130℃ ), VITON ( -15~120℃ )  
ES low temperature coil ( power AC220V 8VA, DC24V 6W ) ,  
Ex encapsulated Ex-proof coil ( power AC220V 5VA,DC24V 4W )

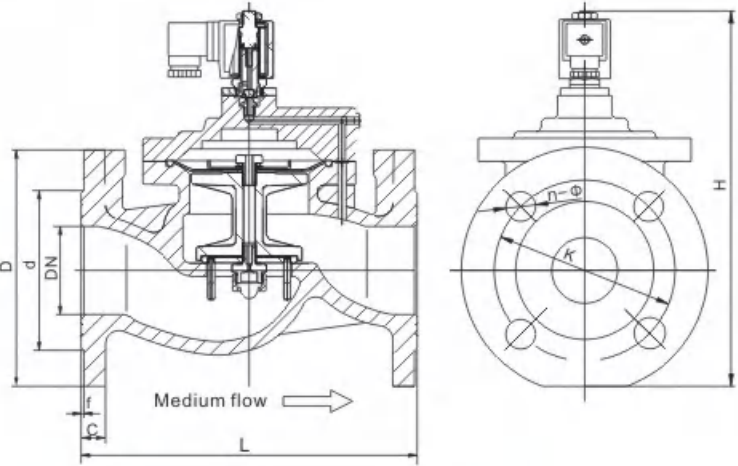


Order code

If order DG model, DN50mm, normal coil, NBR seal, DC24V, order code DG-50-DC24V  
If order DG model, DN80mm, ES coil, NBR seal, AC220V, order code DG-80ES-AC220V

| DG    | Orifice                                                                           | ES                                                                             | V                              | Voltage                   |
|-------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------|---------------------------|
| Model | 50:50mm<br>65:65mm<br>80:80mm<br>100:100mm<br>125:125mm<br>150:150mm<br>200:200mm | Blank:Plastic coil<br>ES:Low temperature coil<br>Ex:Encapsulated Ex-proof coil | Blank:NBR<br>E:EPDM<br>V:VITON | AC220V<br>AC110V<br>AC24V |

DG series(NC)solenoid valve drawing



DG series solenoid valve Flange dimensions ( PN=1.6MPa GB/T9113.1-2000 )

| Model  | L   | D   | H   | K   | d   | C  | f | n-Φ    | Valve material        |
|--------|-----|-----|-----|-----|-----|----|---|--------|-----------------------|
| DG-50  | 240 | 160 | 256 | 125 | 99  | 20 | 2 | 4-Φ18  | ductile iron<br>QT450 |
| DG-65  | 248 | 178 | 277 | 145 | 118 | 20 | 2 | 4-Φ18  |                       |
| DG-80  | 295 | 193 | 300 | 160 | 132 | 20 | 3 | 8-Φ18  |                       |
| DG-100 | 328 | 215 | 328 | 180 | 156 | 22 | 3 | 8-Φ18  |                       |
| DG-125 | 425 | 250 | 398 | 210 | 186 | 22 | 3 | 8-Φ18  |                       |
| DG-150 | 400 | 285 | 405 | 240 | 211 | 24 | 3 | 8-Φ22  |                       |
| DG-200 | 560 | 340 | 516 | 295 | 266 | 24 | 3 | 12-Φ22 |                       |

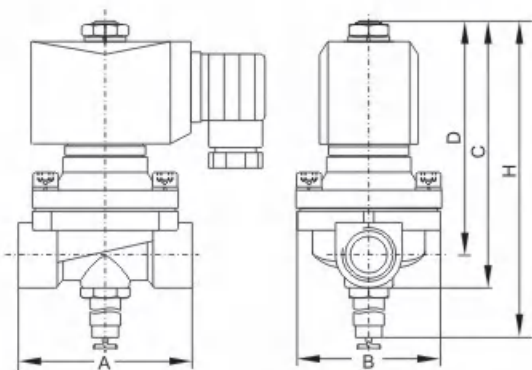
2W-XH series signal feedback solenoid valve



2W-15N-XH



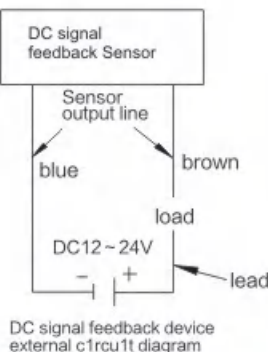
2W-25N-XH



Normally closed valve outline drawing

**Working medium:** Liquid, gas  
**Work pressure:** 0~7bar  
**Body material:** Brass, SS304  
**Interface thread:** G thread, NPT thread  
**Working voltage:** AC220~240V, AC110V 50/60Hz; 20VA, DC24V 20W。 IP65, Hdegree。  
**Sensor working voltage:** DC12~24V, Current consumption≤15mA, Load current200mA, Cable length 2M  
**Sensor output type:** NC. The LED (red) lights up when the solenoid valve is open Protection class IP68  
**Optional:** Sealing material: EPDM, VITON, VMQ, ES Low temperature coil

**Fluid temperature:** -10~70℃  
**Ambient temperature:** -10~55℃  
**Working type:** Semi direct acting, pilot operated  
**Sealing material:** (NBR)



Order code

| 2W        | Thread                                                         | J                   | N                                                                                      | K                | T                              | E                              | XH                  | Voltage                   |
|-----------|----------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------|------------------|--------------------------------|--------------------------------|---------------------|---------------------------|
| 2W series | 15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS | Blank:Iron coil<br>N:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON | Feedback Identifier | AC220V<br>AC110V<br>DC24V |

DF65 ~ 100mm with DFD series

Signal feedback solenoid valve specification parameter table

| Model        | Orifice (mm) | Interface           | Cv  | Working pressure (bar) |       | Dimension (mm) |                     |
|--------------|--------------|---------------------|-----|------------------------|-------|----------------|---------------------|
|              |              |                     |     | NC type                |       | NC type        |                     |
|              |              |                     |     | AC220V                 | DC24V | AC220V/DC24V   | A×B×C×D×H           |
| 2W-15N-XH    | 16           | 1/2"                | 4.8 | 0~7                    | 0~6   | 0~6            | 68×56×105×91×140    |
| 2W-20N-XH    | 20           | 3/4"                | 7.6 | 0~7                    | 0~6   | 0~6            | 73×56×111×95×140    |
| 2W-25N-XH    | 25           | 1"                  | 12  | 0~7                    | 0~6   | 0~6            | 100×74×124×103×140  |
| 2W-32N-XH    | 32           | 1 1/4"              | 24  | 0~7                    | 0~6   | 0~6            | 110×85×154×129×165  |
| 2W-40N-XH    | 40           | 1 1/2"              | 29  | 0~7                    | 0~6   | 0~6            | 120×90×162×134×180  |
| 2W-50N-XH    | 50           | 2"                  | 48  | 0~7                    | 0~6   | 0~6            | 154×115×185×151×200 |
| DFD-65CF-XH  | 65           | Flange<br>Cast iron | 52  | 0.3~7                  | 0~6   | 0~6            | 259×185×277×185×265 |
| DFD-80CF-XH  | 80           |                     | 82  | 0.3~7                  | 0~6   | 0~6            | 278×200×289×189×275 |
| DFD-100CF-XH | 100          |                     | 128 | 0.3~7                  | 0~6   | 0~6            | 350×220×316×206×285 |

ZW series 2-way semi direct acting solenoid valve 3/8 " ~ 2 "



ZW-10~25N



ZW-15~25NK



ZW-32~50N



ZW-32~50JNK

**Working medium:** water, liquid, gas, light oil (viscosity ≤ 20cst)  
**Working pressure:** 0~10bar (see specification table for details)  
**Body material:** forged brass, stainless steel SS304  
**Interface thread:** G thread, NPT thread  
**Operating Voltage:** AC220V/AC110V 50/60Hz, DC24/12V  
DN10~20: AC220V20VA,DC24V20W, DN25: AC220V 40VA, DC24V 32W,  
DN32~50: AC220V 30VA, DC24V 38W, Plastic coil terminal, IP65, Hdegree  
**Optional:** sealing material: EPDM(-20~130℃), VITON(-15~120℃), Rc thread, LED light connector  
ES low temp coil,Ex: encapsulated Ex-proof coil , ES/Ex coil solenoid valve fluid temperature-10~80℃

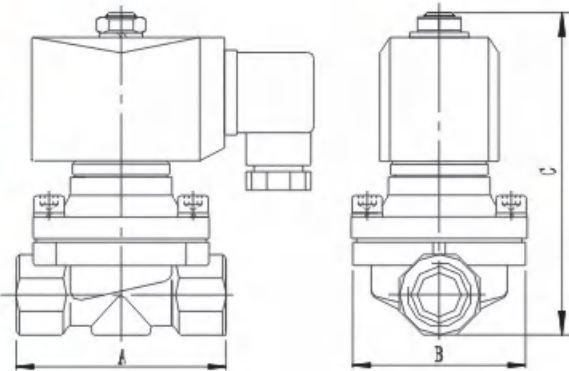
**Fluid temperature:** -10~80℃(NBR)  
**Working type:** semi-direct acting  
**Sealing material:** NBR(-10~80℃)

Order code

| ZW    | Thread                                                                    | J                      | N                                                                                                                  | K                | T                              | V                                       | Voltage                            |
|-------|---------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|-----------------------------------------|------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS304 | Blank:Iron coil<br>N:Plastic coil<br>L:Wire lead plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM<br>Q:VMQ | AC220V<br>AC110V<br>DC24V<br>DC12V |

ZW series solenoid valve specification table and(NC) drawing

| Model  | Orifice<br>(mm) | Interface | Cv  | Work pressure(bar) |       |       | NC dimensions<br>A×B×C<br>(mm) |
|--------|-----------------|-----------|-----|--------------------|-------|-------|--------------------------------|
|        |                 |           |     | NC                 |       | NO    |                                |
|        |                 |           |     | AC220V             | DC24V | AC/DC |                                |
| ZW-10N | 15              | 3/8 "     | 3.5 | 0~10               | 0~6   | 0~6   | 60×45×101                      |
| ZW-15N | 15              | 1/2 "     | 3.5 | 0~10               | 0~6   | 0~6   | 60×45×101                      |
| ZW-20N | 20              | 3/4 "     | 7.6 | 0~10               | 0~6   | 0~6   | 67×50×107                      |
| ZW-25N | 25              | 1 "       | 12  | 0~10               | 0~6   | 0~6   | 82×66×115                      |
| ZW-32N | 32              | 1 1/4 "   | 24  | 0~10               | 0~6   | 0~6   | 102×82×147                     |
| ZW-40N | 40              | 1 1/2 "   | 29  | 0~10               | 0~6   | 0~6   | 110×85×153                     |
| ZW-50N | 50              | 2 "       | 48  | 0~10               | 0~6   | 0~6   | 134×108×166                    |



## 2W-SL series 2-way zero differential pressure plastic solenoid valve 1/2" ~2"



2W-15~25SLN



2W-32~50SLN



2W-32~50SLNK

**Working medium:** water, liquid, gas

**Working pressure:** 0~7bar

**Body material:** PA66 (made in Germany)

**Interface thread:** G thread, NPT thread

**Operating Voltage:** AC220V/110V50/60Hz, DC24/12V, IP65 H degree

DN15~20: AC220V20VA, DC24V20W

DN25: AC220V40VA, DC24V32W

DN32~50: AC220V 30VA, DC24V 38W

**Optional:** LED light connector, wire lead plastic coil, ES /Ex coil (requires fluid temperature -10~80°C).

**Fluid temperature:** -10~+80°C

**Working type:** semi-direct acting (NC, NO)

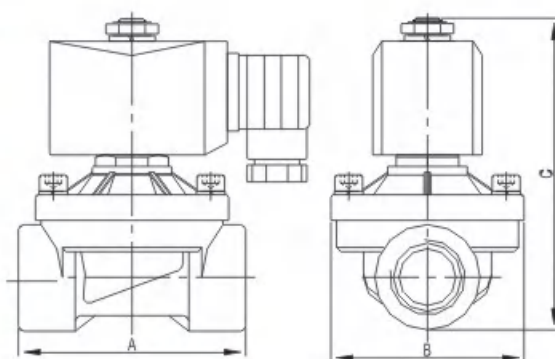
**Sealing material:** NBR (fluid temperature -10~80°C)

### Order code

| 2W    | Thread                                                         | SL         | N                                                                                                                  | K                | T                              | V                              | Voltage                      |
|-------|----------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|--------------------------------|------------------------------|
| Model | 15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | SL:Plastic | Blank:Iron coil<br>N:Plastic coil<br>L:Wire lead plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM | AC 220V<br>AC 110V<br>DC 24V |

### 2W-SL series (NC) plastic valve specification table

| Model    | Orifice<br>( mm ) | Interface | Cv  | Work pressure(bar) |       |       | NC dimensions<br>A×B×C<br>( mm ) |
|----------|-------------------|-----------|-----|--------------------|-------|-------|----------------------------------|
|          |                   |           |     | NC                 |       | NO    |                                  |
|          |                   |           |     | AC220V             | DC24V | AC/DC |                                  |
| 2W-15SLN | 15                | 1/2"      | 4.8 | 0~7                | 0~6   | 0~6   | 76×68×107                        |
| 2W-20SLN | 20                | 3/4"      | 7.6 | 0~7                | 0~6   | 0~6   | 80×68×111                        |
| 2W-25SLN | 25                | 1"        | 12  | 0~7                | 0~6   | 0~6   | 107×82×117                       |
| 2W-32SLN | 32                | 1 1/4"    | 22  | 0~6                | 0~5   | 0~4   | 140×112×160                      |
| 2W-40SLN | 40                | 1 1/2"    | 30  | 0~6                | 0~5   | 0~4   | 140×112×170                      |
| 2W-50SLN | 50                | 2"        | 48  | 0~6                | 0~5   | 0~4   | 159×130×190                      |



2W-SL series (NC) solenoid valve outline drawing

## 2W-SL series 2-way zero differential pressure, loose joint and flange plastic solenoid valve DN15~DN50 mm

The connecting material of the solenoid valve is PVC, The on-site PVC pipe can be directly coated with PVC special adhesive for use.



2W-15~25SLH



2W-32SL-F



2W-50SL-F

**Working medium:** water, liquid, gas

**Working pressure:** NC 0~6 bar

NO: DN15~25: 0~6 bar

DN32~50: 0~4 bar

**Interface thread:** G thread, NPT thread

**Working Voltage:** AC220V/110V50/60Hz; DC24/12V, IP65 H degree, Other voltages can be customized

DN15~20: AC220V20VA, DC24V20W, DN25, AC220V40VA, DC24V32W

DN32~50: AC220V 30VA, DC24V 38W

**Optional:** LED light connector, wire lead plastic coil, ES low temp coil, Encapsulated Ex-proof coil

**Fluid temperature:** -10~+80°C

**Working type:** semi-direct acting (NC, NO)

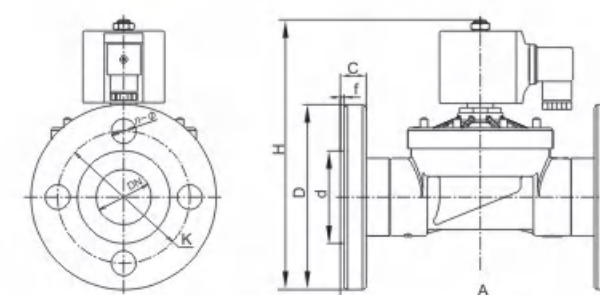
**Sealing material:** NBR (fluid temperature -10~80°C)

**Body material:** PA66, union or flange: UPVC

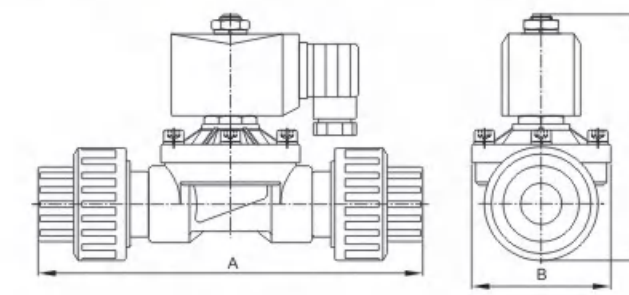
### Order code

| 2W    | Orifice                                                        | SL         | N                                                                                               | K                | H                         | V                              | Voltage                   |
|-------|----------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------|------------------|---------------------------|--------------------------------|---------------------------|
| Model | 15:15mm<br>20:20mm<br>25:25mm<br>32:32mm<br>40:40mm<br>50:50mm | SL:Plastic | N:Plastic coil<br>L:Wire lead plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | H:Loose joint<br>F:Flange | Blank:NBR<br>V:VITON<br>E:EPDM | AC220V<br>AC110V<br>DC24V |

The solenoid valve connecting material is PVC, and when the pipe is PVC pipe, The site can be directly coated with PVC special adhesive for use, which is extremely convenient.



2W-15~50SLF drawing



2W-15~50SLH drawing

### 2W-15~50SLF specification (mm)

| Model    | Orifice | A   | H   | PN=1.6MPa flange size (GB/T9113.1-2000) |     |    |    |   |       |
|----------|---------|-----|-----|-----------------------------------------|-----|----|----|---|-------|
|          |         |     |     | D                                       | K   | d  | C  | f | n-Φ   |
| 2W-15SLF | 15      | 126 | 139 | 95                                      | 65  | 46 | 14 | 2 | 4-Φ14 |
| 2W-20SLF | 20      | 136 | 145 | 105                                     | 75  | 56 | 16 | 2 | 4-Φ14 |
| 2W-25SLF | 25      | 170 | 153 | 115                                     | 85  | 65 | 16 | 2 | 4-Φ14 |
| 2W-32SLF | 32      | 208 | 203 | 140                                     | 100 | 76 | 18 | 2 | 4-Φ18 |
| 2W-40SLF | 40      | 217 | 215 | 150                                     | 110 | 84 | 18 | 2 | 4-Φ18 |
| 2W-50SLF | 50      | 248 | 235 | 165                                     | 125 | 99 | 20 | 3 | 4-Φ18 |

### 2W-15~50SLH specification (mm)

| Model    | Orifice | A   | B   | C   |
|----------|---------|-----|-----|-----|
| 2W-15SLH | 15      | 171 | 68  | 114 |
| 2W-20SLH | 20      | 189 | 68  | 120 |
| 2W-25SLH | 25      | 230 | 82  | 128 |
| 2W-32SLH | 32      | 264 | 112 | 169 |
| 2W-40SLH | 40      | 283 | 112 | 182 |
| 2W-50SLH | 50      | 324 | 130 | 205 |

## YSA series 2-way pilot operated plastic solenoid valve 1/2" ~ 2"

Can use ES low power energy saving coil, low temperature explosion-proof coil



**Working medium:** water, liquid, gas

**Working pressure:** 0.3~8 bar(See the table below)

**Body material:** PA66

**Operating Voltage:** AC220V/110V 50/60Hz 22VA, DC24V/12V 13W, IP65, H degree

**Interface thread:** G thread, NPT thread

**Optional:** LED light connector, ES low temp coil, Ex:encapsulated Ex-proof coil

**power:** NC:AC220V3VA, DC24V3W, NO:AC220V6VA, DC24V4W

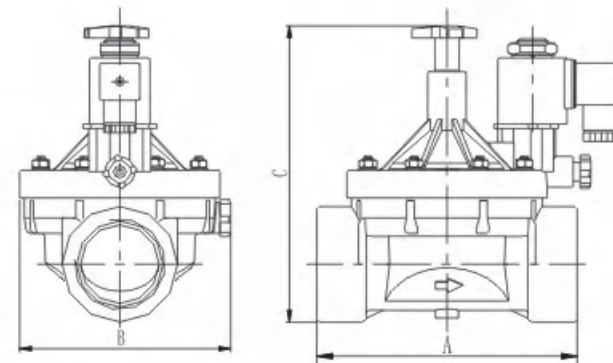
- Note:**
1. The whole series has independent inlet water filter, which can effectively ensure that the medium entering the upper chamber of the valve is clean. Clean and maintain is simple and convenient.
  2. The full range of normally closed type with manual switch device can rotate the manual switch counterclockwise to open the valve when there is no electricity. The normally open manual switch is locked.
  3. DN32~50mm products also have flow adjustment devices, which can adjust the flow rate according to requirements.

### Order code

| YSA   | Thread                                                         | K                | ES                                                                      | T                              | Voltage                                     |
|-------|----------------------------------------------------------------|------------------|-------------------------------------------------------------------------|--------------------------------|---------------------------------------------|
| Model | 15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:NC<br>K:NO | Blank:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:G thread<br>T:NPT thread | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

### YSA series solenoid valve specification parameter table and (NC) drawing

| Model  | Orifice (mm) | Interface | Cv  | Work pressure (bar) |       | NC dimensions A×B×C (mm) |
|--------|--------------|-----------|-----|---------------------|-------|--------------------------|
|        |              |           |     | NC                  | NO    |                          |
| YSA-15 | 15           | 1/2"      | 3.5 | 0.3~8               | 0.3~6 | 85×73×126                |
| YSA-20 | 20           | 3/4"      | 7.6 | 0.3~8               | 0.3~6 | 90×73×128                |
| YSA-25 | 25           | 1"        | 12  | 0.3~8               | 0.3~6 | 125×90×148               |
| YSA-32 | 32           | 1 1/4"    | 20  | 0.3~8               | 0.3~6 | 150×128×173              |
| YSA-40 | 40           | 1 1/2"    | 30  | 0.3~8               | 0.3~6 | 152×128×176              |
| YSA-50 | 50           | 2"        | 48  | 0.3~8               | 0.3~6 | 170×140×190              |
| YSA-80 | 80           | 3"        | 82  | 0.3~6               | 0.3~6 | 320×200×250              |



## YSA series 2-way zero differential pressure, loose joint and flange plastic solenoid valve DN15~ DN80mm

The solenoid valve is made of PVC, pipe can be directly coated with PVC adhesive.



**Working medium:** water, liquid, gas

**Working type:** pilot operated (NC/NO)

**Connection method:** loose joint, flange type

**Working pressure:** NC: DN15~50: 0.3~8 bar, DN80: 0.3~6 bar; NO: DN15~80: 0.3~6 bar

**Body material:** PA66, Union or flange: UPVC, DN80: PA66

**Working Voltage:** AC220~240V, AC110V 50/60Hz 22VA, DC24V/12V 13W, IP65, H degree, Other voltages can be customized

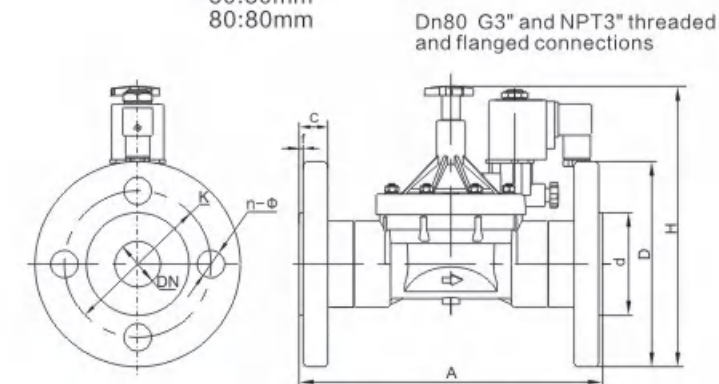
**Optional:** LED light connector, wire lead plastic coil, ES low temp coil, Ex:encapsulated Ex-proof coil

**Fluid temperature:** -10~+80 °C

**Sealing material:** NBR

### Order code

| YSA   | Orifice                                                                   | H                         | K                | ES                                                                      | Voltage                   |
|-------|---------------------------------------------------------------------------|---------------------------|------------------|-------------------------------------------------------------------------|---------------------------|
| Model | 15:15mm<br>20:20mm<br>25:25mm<br>32:32mm<br>40:40mm<br>50:50mm<br>80:80mm | H:Loose joint<br>F:Flange | Blank:NC<br>K:NO | Blank:Plastic coil<br>ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | AC220V<br>AC110V<br>DC24V |

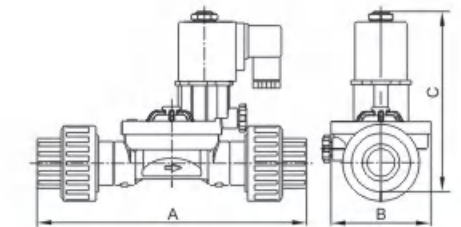


YSA-F series (NC) solenoid valve outline drawing

### YSA-F specification table (mm)

| Model   | Orifice | A   | H   | PN=1.6MPa flange size (GB/T9113.1-2000) |     |     |    |   |       |
|---------|---------|-----|-----|-----------------------------------------|-----|-----|----|---|-------|
|         |         |     |     | D                                       | K   | d   | C  | f | n-Φ   |
| YSA-15F | 15      | 135 | 158 | 95                                      | 65  | 46  | 14 | 2 | 4-Φ14 |
| YSA-20F | 20      | 146 | 162 | 105                                     | 75  | 56  | 16 | 2 | 4-Φ14 |
| YSA-25F | 25      | 188 | 184 | 115                                     | 85  | 65  | 16 | 2 | 4-Φ14 |
| YSA-32F | 32      | 218 | 216 | 140                                     | 100 | 76  | 18 | 2 | 4-Φ18 |
| YSA-40F | 40      | 229 | 220 | 150                                     | 110 | 84  | 18 | 2 | 4-Φ18 |
| YSA-50F | 50      | 259 | 235 | 165                                     | 125 | 99  | 20 | 3 | 4-Φ18 |
| YSA-80F | 80      | 340 | 274 | 200                                     | 160 | 132 | 20 | 3 | 4-Φ18 |

The configured DN15~50 live material is UPVC, and the pipeline is PVC when the tube is used, the site can be directly coated with a special adhesive for PVC, which is extremely convenient



YSA-H series (NC) solenoid valve outline drawing

### YSA-H specification table (mm)

| Model   | Orifice | A   | B   | C   |
|---------|---------|-----|-----|-----|
| YSA-15H | 15      | 180 | 73  | 133 |
| YSA-20H | 20      | 199 | 73  | 137 |
| YSA-25H | 25      | 248 | 90  | 159 |
| YSA-32H | 32      | 274 | 128 | 182 |
| YSA-40H | 40      | 295 | 128 | 186 |
| YSA-50H | 50      | 335 | 140 | 205 |
| YSA-80H | 80      |     |     |     |

PS series 2-way piston steam solenoid valve(NC) 1/4 " ~ 2 "

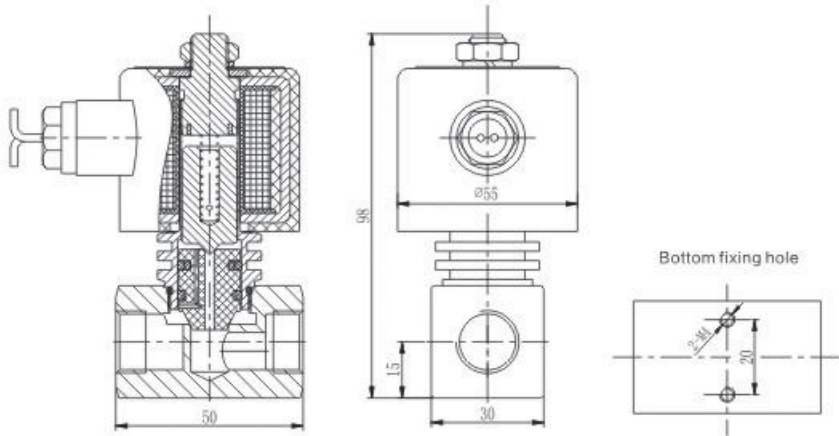
**Working medium:** steam, high temperature liquid  
**Medium temperature:** 0~180℃  
**Working pressure:** 0.1~16bar (details see specification table)  
**Working type:** pilot operated ( NC/NO )  
**Valvebody material:** Brass, SS304  
**Sealing material:** PTFE  
**Interface:** G thread, NPT thread  
**Working voltage:** NC: AC220~240V, AC110V, AC24V, 50/60Hz; 20VA, DC24/12V, 20W, plastic coil, IP65, H degree  
NO: AC220~240V, AC110V, AC24V, 50/60Hz; 23VA, DC24/12V, 28W, plastic coil, IP65, H degree

Order code

| PS    | Thread                                                                               | J                      | K                | N                                                  | T                              | Voltage                                     |
|-------|--------------------------------------------------------------------------------------|------------------------|------------------|----------------------------------------------------|--------------------------------|---------------------------------------------|
| Model | 08:1/4"<br>10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS304 | Blank:NC<br>K:NO | Blank:Wire lead plastic coil<br>N:DIN plastic coil | Blank:G thread<br>T:NPT thread | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

PS-A-08/10 NC solenoid valve drawing ( orifice size:Φ8mm Φ10mm, thread:1/4 " 3/8 " )

| Model    | Orifice (mm) | Interface Size | Valvebody material |
|----------|--------------|----------------|--------------------|
| PS-A-08  | 8            | 1/4"           | Brass              |
| PS-A-08J | 8            | 1/4"           | SS 304             |
| PS-A-10  | 10           | 3/8"           | Brass              |
| PS-A-10J | 10           | 3/8"           | SS 304             |



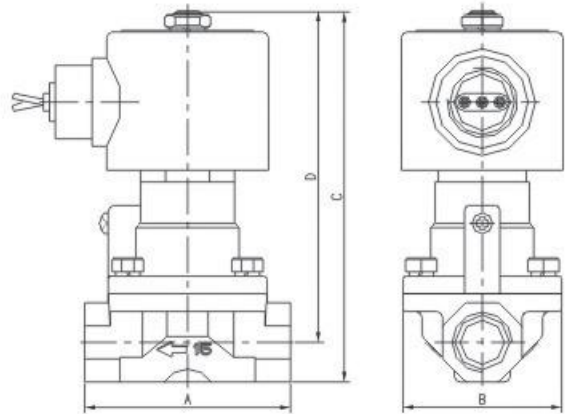
PS series 2-way piston steam solenoid valve 1/4 " ~ 2 "



PS series steam solenoid valve specification table

| Interface size G | Orifice size (mm) | Cv  | Working pressure ( bar ) |              |    | Max medium temperature (°C) | Coil     |        |                                    | Normal order code |               |
|------------------|-------------------|-----|--------------------------|--------------|----|-----------------------------|----------|--------|------------------------------------|-------------------|---------------|
|                  |                   |     | Min pressure             | Max pressure |    |                             | NC Power |        | Plastic coil<br>AC220V<br>G thread |                   |               |
|                  |                   |     |                          | NC           | NO |                             | VA       | W      |                                    |                   |               |
|                  |                   |     |                          |              |    |                             | AC 220V  | DC 24V |                                    |                   |               |
|                  |                   |     |                          |              |    |                             |          |        |                                    |                   | Brass         |
| 1/4"             | 8                 | 1.8 | 0.1                      | 16           | -  | 180                         | H        | 20     | 20                                 | PS-A-08-AC220V    | PS-A-08J-AC22 |
| 3/8"             | 10                | 3.1 | 0.1                      | 16           | -  | 180                         | H        | 20     | 20                                 | PS-A-10-AC220V    | PS-A-10J-AC22 |
| 3/8"             | 15                | 4.8 | 0.4                      | 16           | 8  | 180                         | H        | 20     | 20                                 | PS-10-AC220V      | PS-10J-AC220V |
| 1/2"             | 15                | 4.8 | 0.4                      | 16           | 8  | 180                         | H        | 20     | 20                                 | PS-15-AC220V      | PS-15J-AC220V |
| 3/4"             | 20                | 7.6 | 0.4                      | 16           | 8  | 180                         | H        | 20     | 20                                 | PS-20-AC220V      | PS-20J-AC220V |
| 1"               | 25                | 12  | 0.4                      | 16           | 8  | 180                         | H        | 20     | 20                                 | PS-25-AC220V      | PS-25J-AC220V |
| 1 1/4"           | 32                | 24  | 0.4                      | 12           | 8  | 180                         | H        | 20     | 20                                 | PS-32-AC220V      | PS-32J-AC220V |
| 1 1/2"           | 40                | 30  | 0.4                      | 12           | 8  | 180                         | H        | 20     | 20                                 | PS-40-AC220V      | PS-40J-AC220V |
| 2"               | 50                | 48  | 0.4                      | 12           | 8  | 180                         | H        | 20     | 20                                 | PS-50-AC220V      | PS-50J-AC220V |

PS-15 ~ 50 series solenoid valve ( NC ) dimensions table



| Model | A   | B   | C   | D     |
|-------|-----|-----|-----|-------|
| PS-10 | 70  | 53  | 135 | 122.5 |
| PS-15 | 70  | 53  | 135 | 122.5 |
| PS-20 | 74  | 57  | 142 | 125.5 |
| PS-25 | 92  | 69  | 150 | 130   |
| PS-32 | 110 | 85  | 164 | 139   |
| PS-40 | 122 | 90  | 168 | 140   |
| PS-50 | 160 | 117 | 190 | 155   |

PS series 2-way piston(NC) steam solenoid valve

Components table

Exploded view diagram of the PS series 2-way piston(NC) steam solenoid valve. The diagram shows the assembly of various components, including the valve body, piston assembly, coil, and bonnet assembly. Components are numbered 1 through 21, corresponding to the components table.

| Code | Components                       | Material           |
|------|----------------------------------|--------------------|
| 1    | Valve body                       | Brass or SS304     |
| 2    | Outlet positioning sleeve        | SS304              |
| 3    | Body seal                        |                    |
| 4    | Piston assembly                  |                    |
| 5    | Elastic ring                     | SS304 Spring steel |
| 6    | Piston ring                      | Filled PTFE        |
| 7    | Elastic ring                     | SS304 Spring steel |
| 8    | Piston ring                      | Filled PTFE        |
| 9    | Piston spring                    | SS304 Spring wire  |
| 10   | Bonnet assembly                  | Brass or SS304     |
| 11   | Hex screw                        | SS304              |
| 12   | Spring washers                   |                    |
| 13   | Plunger assembly                 |                    |
| 14   | Iron core spring                 |                    |
| 15   | O-ring                           |                    |
| 16   | Magnetic isolation tube assembly |                    |
| 17   | Coil                             |                    |
| 18   | Flat washers                     |                    |
| 19   | Nameplate                        |                    |
| 20   | Spring washers                   |                    |
| 21   | Locknut                          |                    |

**Flow chart**

Flow chart showing the relationship between working pressure (bar) and rate of flow (L/min) for air and water. The chart includes curves for different orifice sizes (15mm to 80mm) and valve configurations (J, F, K, N).

PS series flange 2-way piston steam solenoid valve DN15 ~ 80 mm

Three views of the PS series flange 2-way piston steam solenoid valve: PS-20JF, PS-32JF, and PS-50JFK.

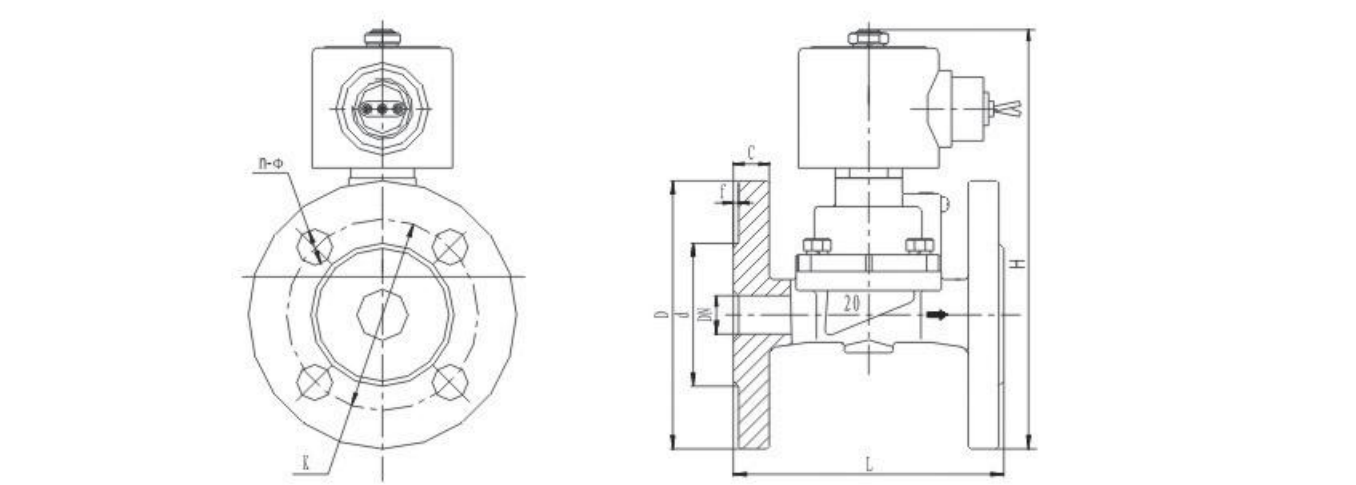
**Working medium:** steam, high temperature liquid  
**Working type:** pilot operated ( NC/NO )  
**Working pressure:** 0.4 ~ 16bar(details see specification table)  
**Valvebody material:** Brass, SS304  
**Interface:** flange  
**Working voltage:** NC: AC220 ~ 240V, AC110V, 50/60Hz; 20VA, DC24/12V, 20W, IP65, H degree  
NO: AC220 ~ 240V, AC110V, 50/60Hz; 23VA, DC24/12V, 28W, IP65, H degree

**Medium temperature:** 0 ~ 180 °C  
**Sealing material:** PTFE

**Order code**

| PS    | Orifice                                                                   | J                                     | F        | K                | N                                                           | Voltage                            |
|-------|---------------------------------------------------------------------------|---------------------------------------|----------|------------------|-------------------------------------------------------------|------------------------------------|
| Model | 15:15mm<br>20:20mm<br>25:25mm<br>32:32mm<br>40:40mm<br>50:50mm<br>80:80mm | Blank:Brass<br>J:SS304<br>C:cast iron | F:Flange | Blank:NC<br>K:NO | Blank:Wire lead plastic coil<br>N:DIN plastic coil terminal | AC220V<br>AC110V<br>DC24V<br>DC12V |

PS series flange ( NC ) solenoid valve drawing



PS series flange 2-way piston steam solenoid valve

PS series flange ( NC ) solenoid valve specification table

| Model   | Orifice size (mm) | Cv  | Working pressure ( bar ) |              |    | Max medium temperature °C | Coil             |          |        | NC Normal order code             |                |
|---------|-------------------|-----|--------------------------|--------------|----|---------------------------|------------------|----------|--------|----------------------------------|----------------|
|         |                   |     | Min pressure             | Max pressure |    |                           | Sealing material | NC Power |        | Wire lead plastic coil<br>AC220V |                |
|         |                   |     |                          | NC           | NO |                           |                  | VA       | W      |                                  |                |
|         |                   |     |                          |              |    |                           |                  | AC 220V  | DC 24V |                                  |                |
|         |                   |     |                          |              |    |                           |                  | Brass    |        | SS304                            |                |
| PS-15JF | 18                | 7.2 | 0.4                      | 16           | 8  | 180                       | H                | 20       | 20     |                                  | PS-15JF-AC220V |
| PS-20JF | 18                | 7.2 | 0.4                      | 16           | 8  | 180                       | H                | 20       | 20     |                                  | PS-20JF-AC220V |
| PS-25JF | 25                | 12  | 0.4                      | 16           | 8  | 180                       | H                | 20       | 20     |                                  | PS-25JF-AC220V |
| PS-32JF | 32                | 24  | 0.4                      | 12           | 8  | 180                       | H                | 20       | 20     |                                  | PS-32JF-AC220V |
| PS-40JF | 40                | 30  | 0.4                      | 12           | 8  | 180                       | H                | 20       | 20     |                                  | PS-40JF-AC220V |
| PS-50JF | 50                | 48  | 0.4                      | 12           | 8  | 180                       | H                | 20       | 20     |                                  | PS-50JF-AC220V |
| PS-80JF | 80                | 75  | 0.4                      | 10           | 6  | 180                       | H                | 20       | 20     |                                  | PS-80JF-AC220V |
| PS-25F  | 25                | 12  | 0.4                      | 16           | 8  | 180                       | H                | 20       | 20     | PS-25F-AC220V                    |                |
| PS-32F  | 32                | 24  | 0.4                      | 12           | 8  | 180                       | H                | 20       | 20     | PS-32F-AC220V                    |                |
| PS-40F  | 40                | 30  | 0.4                      | 12           | 8  | 180                       | H                | 20       | 20     | PS-40F-AC220V                    |                |
| PS-50F  | 50                | 48  | 0.4                      | 12           | 8  | 180                       | H                | 20       | 20     | PS-50F-AC220V                    |                |

PS series flange ( NC ) solenoid valve dimensions table

| Model   | PN=1.6MPa GB/T9113.1-2000 flange connection dimension (mm) |     |     |     |     |     |    |   |       |
|---------|------------------------------------------------------------|-----|-----|-----|-----|-----|----|---|-------|
|         | DN                                                         | L   | D   | H   | K   | d   | C  | f | n-Φ   |
| PS-15JF | 18                                                         | 106 | 95  | 165 | 65  | 46  | 14 | 2 | 4-Φ14 |
| PS-20JF | 18                                                         | 106 | 105 | 167 | 75  | 56  | 16 | 2 | 4-Φ14 |
| PS-25JF | 25                                                         | 135 | 115 | 190 | 85  | 65  | 16 | 3 | 4-Φ14 |
| PS-32JF | 32                                                         | 140 | 140 | 218 | 100 | 76  | 18 | 3 | 4-Φ18 |
| PS-40JF | 40                                                         | 148 | 150 | 228 | 110 | 84  | 18 | 3 | 4-Φ18 |
| PS-50JF | 50                                                         | 182 | 165 | 243 | 125 | 99  | 20 | 3 | 4-Φ18 |
| PS-80JF | 80                                                         | 278 | 200 | 324 | 160 | 132 | 20 | 3 | 8-Φ18 |
| PS-25F  | 25                                                         | 118 | 115 | 187 | 85  | 65  | 16 | 3 | 4-Φ14 |
| PS-32F  | 32                                                         | 140 | 140 | 218 | 100 | 76  | 18 | 3 | 4-Φ18 |
| PS-40F  | 40                                                         | 150 | 150 | 230 | 110 | 84  | 18 | 3 | 4-Φ18 |
| PS-50F  | 50                                                         | 185 | 165 | 245 | 125 | 99  | 20 | 3 | 4-Φ18 |

RSPS series zero pressure differential(NC) steam solenoid valve 1/4 " ~ 2 "

Working medium: steam, high temperature liquid

Medium temperature: 0~180℃

Working pressure: 0~10bar ( details see specification table )

Working type: semi direct acting ( NC )

Valve body material: Brass, SS304

Sealing material: PTFE

Interface: G thread, NPT thread

Working voltage: AC220~240V, AC110V, 50/60Hz; DC24/12V, IP65, H degree

Power: DN15~20mm: AC220V 23VA, DC24V 28W wire lead plastic coil

DN25~50mm: AC220V 48VA, DC24V 42W wire lead plastic coil

Order code

| RSPS  | Thread                                                                    | J                      | N                                                  | T                              | Voltage                   |
|-------|---------------------------------------------------------------------------|------------------------|----------------------------------------------------|--------------------------------|---------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS304 | Blank:Wire lead plastic coil<br>N:DIN plastic coil | Blank:G thread<br>T:NPT thread | AC220V<br>AC110V<br>DC24V |

RSPS series zero pressure differential(NC) steam solenoid valve



RSPS-15~20



RSPS-15~20J

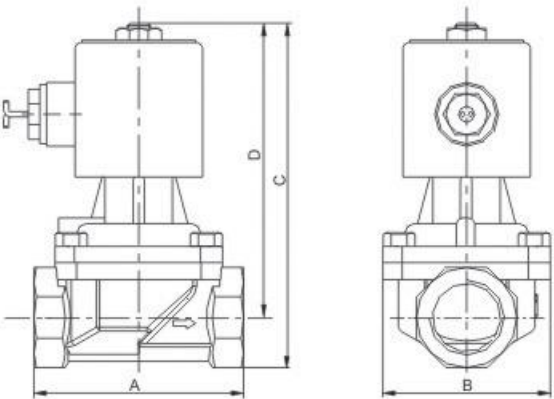


RSPS-25~50

RSPS series steam solenoid valve ( NC ) specification table

| Interface size | Orifice size (mm) | Cv  | Working pressure ( bar ) |                                                         |   | Max medium temp ( °C ) | Coil       |           |                                                      | Normal order code |                 |
|----------------|-------------------|-----|--------------------------|---------------------------------------------------------|---|------------------------|------------|-----------|------------------------------------------------------|-------------------|-----------------|
|                |                   |     | Min pressure             | Max pressure                                            |   |                        | Power      |           | AC220V<br><br>Wire lead plastic coil<br><br>G thread |                   |                 |
|                |                   |     |                          | Steam<br>High Temperature<br>Liquid ( Viscosity≤20cst ) |   |                        | VA         | W         |                                                      |                   |                 |
|                |                   |     |                          |                                                         |   |                        | AC<br>220V | DC<br>24V |                                                      |                   |                 |
|                |                   |     |                          |                                                         |   |                        |            |           | Brass                                                | SS304             |                 |
| 1/2"           | 15                | 4.8 | 0                        | 10                                                      | 6 | 180                    | H          | 23        | 28                                                   | RSPS-15-AC220V    | RSPS-15J-AC220V |
| 3/4"           | 20                | 7.6 | 0                        | 10                                                      | 6 | 180                    | H          | 23        | 28                                                   | RSPS-20-AC220V    | RSPS-20J-AC220V |
| 1"             | 25                | 12  | 0                        | 10                                                      | 6 | 180                    | H          | 48        | 42                                                   | RSPS-25-AC220V    | RSPS-25J-AC220V |
| 1 1/4"         | 32                | 24  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                   | RSPS-32-AC220V    | RSPS-32J-AC220V |
| 1 1/2"         | 40                | 30  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                   | RSPS-40-AC220V    | RSPS-40J-AC220V |
| 2"             | 50                | 48  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                   | RSPS-50-AC220V    | RSPS-50J-AC220V |

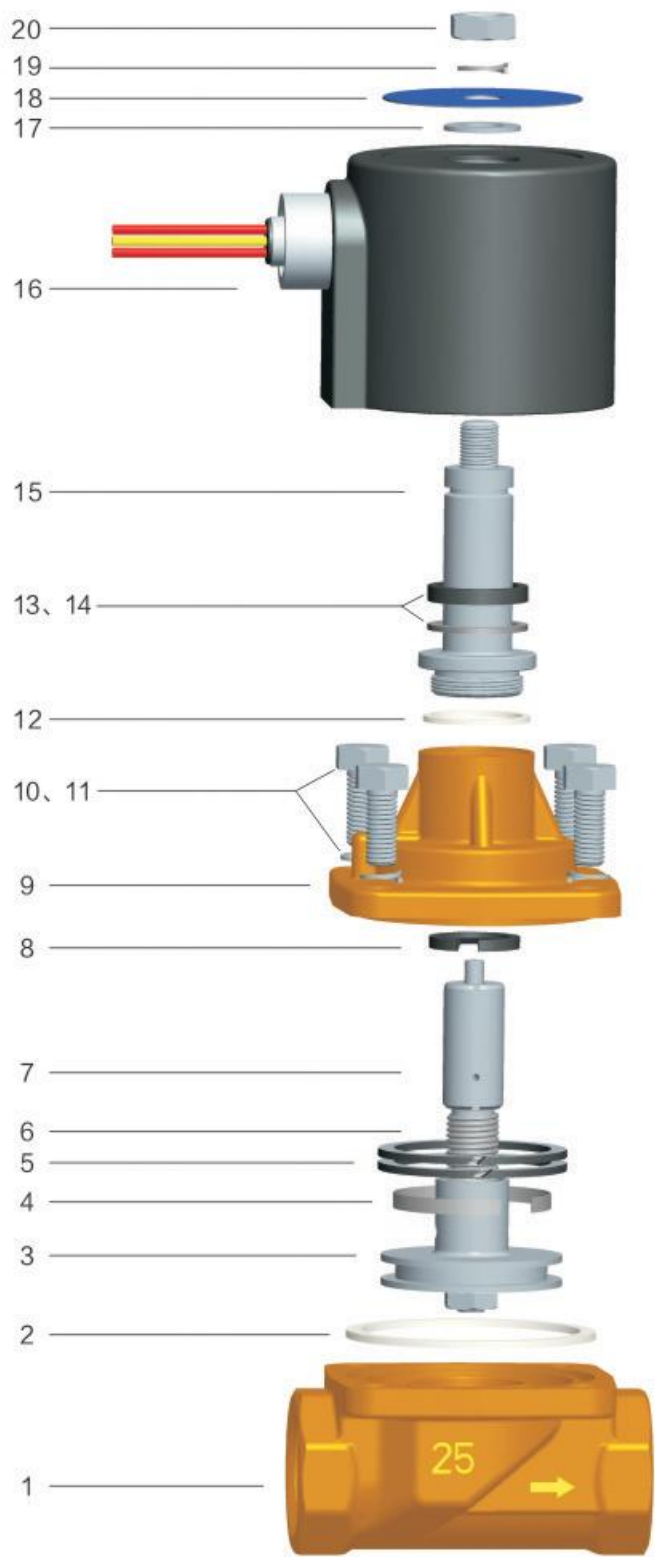
RSPS-15 ~ 50 series ( NC ) steam solenoid valve drawing



| Model   | A   | B   | C   | D   | Weight ( Kg ) |     |
|---------|-----|-----|-----|-----|---------------|-----|
| RSPS-15 | 67  | 56  | 122 | 107 | 0.8           | 0.8 |
| RSPS-20 | 80  | 60  | 140 | 123 | 1.0           | 1.0 |
| RSPS-25 | 92  | 72  | 151 | 129 | 1.5           | 1.4 |
| RSPS-32 | 96  | 75  | 175 | 149 | 2.1           | 1.9 |
| RSPS-40 | 118 | 93  | 183 | 153 | 2.7           | 2.6 |
| RSPS-50 | 150 | 116 | 202 | 167 | 4.5           | 4.1 |

RSPS series zero pressure differential(NC) steam solenoid valve

Components table



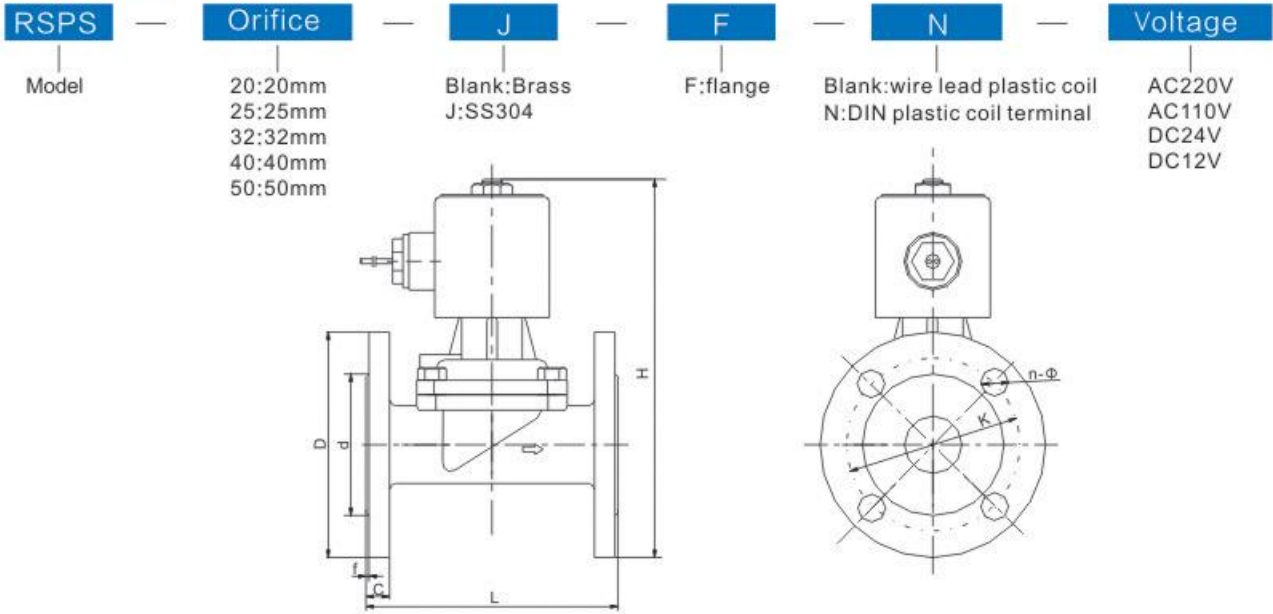
| Code | Components      | Material       |
|------|-----------------|----------------|
| 1    | Valve body      | Brass or SS304 |
| 2    | Body seals ring | PTFE           |
| 3    | Piston assembly |                |
| 4    | Elastic ring    | SS304          |
| 5    | Piston ring     | Filling PTFE   |
| 6    | Spring          | SS304          |
| 7    | Plunger         |                |
| 8    | Guide sleeve    | Filling PTFE   |
| 9    | Valve cover     | Brass or SS304 |
| 10   | Screw           | SS304          |
| 11   | Gasket          | SS304          |
| 12   | Seal            |                |
| 13   | Metal washer    |                |
| 14   | Plastic washer  |                |
| 15   | Plunger tube    |                |
| 16   | Coil            |                |
| 17   | Washer          |                |
| 18   | Nameplate       | Ly12           |
| 19   | Gasket          | SS304          |
| 20   | Locknut M10 × 1 | SS201          |

RSPS series flange zero pressure differential(NC) steam solenoid valve DN15~50mm

**Working medium:** steam,high temperature liquid  
**Working pressure:** 0~10(details see specification table)  
**Valve body material:** Brass, SS304  
**Interface:** flange  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, DC24/12V, IP65, H degree  
AC power: DN15~20mm: AC220V 23VA, DN25~50mm: 48VA  
DC power: DN15~20mm: DC24V 28W, DN25~50mm: 42W

**Medium temperature:** 0~180 °C  
**Working type:** semi direct acting ( NC )  
**Sealing material:** PTFE

Order code



RSPS series flange(NC) solenoid valve dimension table

| Model     | PN=1.6MPa GB/T9113.1-2000 Flange connection dimension (mm) |     |     |     |     |    |    |   |       |
|-----------|------------------------------------------------------------|-----|-----|-----|-----|----|----|---|-------|
|           | DN                                                         | L   | D   | H   | K   | d  | C  | f | n-Φ   |
| RSPS-15JF | 15                                                         | 106 | 95  | 164 | 65  | 46 | 14 | 2 | 4-Φ14 |
| RSPS-20JF | 20                                                         | 106 | 105 | 166 | 75  | 56 | 16 | 2 | 4-Φ14 |
| RSPS-25JF | 25                                                         | 135 | 115 | 185 | 85  | 65 | 16 | 3 | 4-Φ14 |
| RSPS-32JF | 32                                                         | 140 | 140 | 220 | 100 | 76 | 18 | 3 | 4-Φ18 |
| RSPS-40JF | 40                                                         | 145 | 150 | 230 | 110 | 84 | 18 | 3 | 4-Φ18 |
| RSPS-50JF | 50                                                         | 182 | 165 | 250 | 125 | 99 | 20 | 3 | 4-Φ18 |
| RSPS-20F  | 20                                                         | 107 | 105 | 160 | 75  | 56 | 16 | 2 | 4-Φ14 |
| RSPS-25F  | 25                                                         | 123 | 115 | 195 | 85  | 65 | 16 | 3 | 4-Φ14 |
| RSPS-32F  | 32                                                         | 135 | 140 | 222 | 100 | 76 | 18 | 3 | 4-Φ18 |
| RSPS-40F  | 40                                                         | 154 | 150 | 235 | 110 | 84 | 18 | 3 | 4-Φ18 |
| RSPS-50F  | 50                                                         | 190 | 165 | 250 | 125 | 99 | 20 | 3 | 4-Φ18 |

RSPS series flange zero pressure differential(NC) steam solenoid valve



RSPS series flange(NC) solenoid valve specification table

| Model     | Orifice size (mm) | Cv  | Working pressure ( bar ) |                                                         |   | Max medium temp ( °C ) | Coil       |           | Normal order code                                     |                 |                  |
|-----------|-------------------|-----|--------------------------|---------------------------------------------------------|---|------------------------|------------|-----------|-------------------------------------------------------|-----------------|------------------|
|           |                   |     | Min pressure             | Max pressure                                            |   |                        | Power      |           | AC220V<br>Flange connection<br>Wire lead plastic coil |                 |                  |
|           |                   |     |                          | Steam<br>High temperature liquid<br>( Viscosity≤20cst ) |   |                        | VA         | W         |                                                       |                 |                  |
|           |                   |     |                          |                                                         |   |                        | AC<br>220V | DC<br>24V |                                                       |                 |                  |
|           |                   |     |                          |                                                         |   |                        |            |           | Brass                                                 | SS304           |                  |
| RSPS-15JF | 15                | 7.2 | 0                        | 10                                                      | 6 | 180                    | H          | 23        | 28                                                    |                 | RSPS-15JF-AC220V |
| RSPS-20JF | 20                | 7.2 | 0                        | 10                                                      | 6 | 180                    | H          | 23        | 28                                                    |                 | RSPS-20JF-AC220V |
| RSPS-25JF | 25                | 12  | 0                        | 10                                                      | 6 | 180                    | H          | 48        | 42                                                    |                 | RSPS-25JF-AC220V |
| RSPS-32JF | 32                | 24  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                    |                 | RSPS-32JF-AC220V |
| RSPS-40JF | 40                | 30  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                    |                 | RSPS-40JF-AC220V |
| RSPS-50JF | 50                | 48  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                    |                 | RSPS-50JF-AC220V |
| RSPS-20F  | 20                | 7.6 | 0                        | 10                                                      | 6 | 180                    | H          | 23        | 28                                                    | RSPS-20F-AC220V |                  |
| RSPS-25F  | 25                | 12  | 0                        | 10                                                      | 6 | 180                    | H          | 48        | 42                                                    | RSPS-25F-AC220V |                  |
| RSPS-32F  | 32                | 24  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                    | RSPS-32F-AC220V |                  |
| RSPS-40F  | 40                | 30  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                    | RSPS-40F-AC220V |                  |
| RSPS-50F  | 50                | 48  | 0                        | 10                                                      | 5 | 180                    | H          | 48        | 42                                                    | RSPS-50F-AC220V |                  |

2L series 2-way piston(NC) steam solenoid valve 3/8 " ~2 "



**Working medium:** steam,high temperature liquid( viscosity≤20cst )  
**Working pressure:** 0.5~10 bar  
**Valvebody material:** Brass, SS304  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, 50VA, DC24V/12V 30W, IP54 H degree  
**Options:** Rc thread

**Medium temperature:** -5~180℃  
**Working type:** pilot operated, (NC)  
**Sealing material:** PTFE

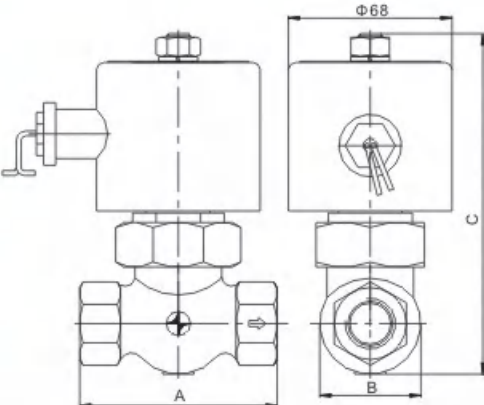
Order code

| 2 L   | Thread                                                                    | J                      | L                                                     | T                              | Voltage                            |
|-------|---------------------------------------------------------------------------|------------------------|-------------------------------------------------------|--------------------------------|------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>35:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS304 | Blank:Wire lead iron coil<br>L:Wire lead plastic coil | Blank:G thread<br>T:NPT thread | AC220V<br>AC110V<br>DC24V<br>DC12V |

2L series solenoid valve specification table

| Model | Orifice (mm) | Interface | Cv  | Working pressure (bar) |        | Dimension A×B×C | Normal order code | Weight(Kg) |       |
|-------|--------------|-----------|-----|------------------------|--------|-----------------|-------------------|------------|-------|
|       |              |           |     | AC220V                 | DC24V  |                 |                   | Brass      | SS304 |
| 2L-10 | 17           | 3/8"      | 4.8 | 0.5~16                 | 0.5~16 | 82×42×146       | 2L-10-AC220V      | 1.5        | 1.4   |
| 2L-15 | 17           | 1/2"      | 4.8 | 0.5~16                 | 0.5~16 | 82×42×146       | 2L-15-AC220V      | 1.5        | 1.4   |
| 2L-20 | 17           | 3/4"      | 4.8 | 0.5~16                 | 0.5~16 | 82×42×146       | 2L-20-AC220V      | 1.8        | 1.8   |
| 2L-25 | 20           | 1"        | 11  | 0.5~16                 | 0.5~16 | 90×54×162       | 2L-25-AC220V      | 2.6        | 2.5   |
| 2L-35 | 30           | 1 1/4"    | 25  | 0.5~16                 | 0.5~16 | 110×75×185      | 2L-35-AC220V      | 2.9        | 2.5   |
| 2L-40 | 30           | 1 1/2"    | 25  | 0.5~16                 | 0.5~16 | 110×75×185      | 2L-40-AC220V      | 3.4        | 2.9   |
| 2L-50 | 38           | 2"        | 48  | 0.5~12                 | 0.5~12 | 120×77×195      | 2L-50-AC220V      | 3.8        |       |

2L-series solenoid valve drawing



YSE series 2-way stainless steel high pressure solenoid valve 1/4"~1"



**Working medium:** liquid, gas  
**Working pressure:** 0~300bar ( See the table below )  
**Interface thread:** G thread, NPT thread  
**Body material:** SS304  
**Working voltage:** ES low temp coil AC220V/AC110V 50/60Hz 8VA ,DC24V6W, IP65, H degree, Other voltages can be customized

**Fluid temperature:** -10~80℃  
**Ambient temperature:** -10~55℃  
**Working type:** DN1~4 direct acting, DN10~25 pilot operated  
**Sealing material:** PTFE

**Optional:** Nass coil, LED light connector, Encapsulated Ex-proof coil, Digital timer,Rc thread

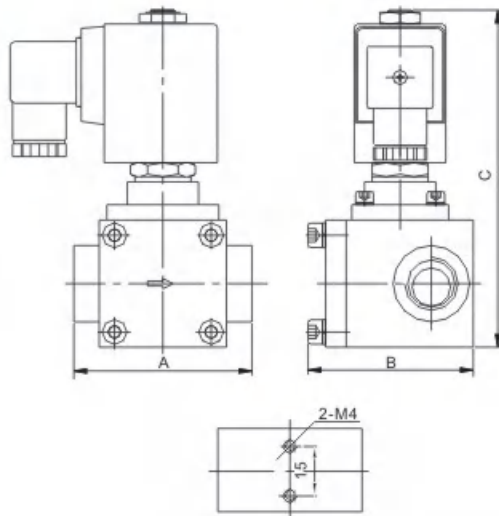
Order code

| YSE   | Orifice                                                       | Thread                                            | ES                                                | K                | T                              | Voltage                                     |
|-------|---------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------|--------------------------------|---------------------------------------------|
| Model | 010:1.0mm<br>015:1.5mm<br>020:2.0mm<br>025:2.5mm<br>030:3.0mm | 08:1/4"<br>10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1" | ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

YSE Series solenoid valve specification table and pilot operated type drawing

| Model     | Orifice (mm) | Interface    | Cv   | Working pressure (bar) |       |      | Dimensions A×B×C(mm) |
|-----------|--------------|--------------|------|------------------------|-------|------|----------------------|
|           |              |              |      | NC AC220V              | DC24V | NO   |                      |
| YSE-010ES | 1            | 1/4" or 3/8" | 0.04 | 0~300                  | 0~200 | 0~60 | 44×25×80             |
| YSE-015ES | 1.5          |              | 0.08 | 0~250                  | 0~200 | 0~50 | 44×25×80             |
| YSE-020ES | 2            |              | 0.15 | 0~180                  | 0~120 | 0~30 | 44×25×80             |
| YSE-025ES | 2.5          |              | 0.20 | 0~110                  | 0~80  | 0~15 | 44×25×80             |
| YSE-030ES | 3            |              | 0.25 | 0~80                   | 0~40  | 0~10 | 44×25×80             |
| YSE-040ES | 4            |              | 0.6  | 0~40                   | 0~15  | 0~5  | 44×25×80             |
| YSE-10ES  | 10           | 3/8"         | 3.5  | 6~160                  | 6~120 | 6~50 | 60×55×109            |
| YSE-15ES  | 15           | 1/2"         | 4.7  | 6~160                  | 6~120 | 6~50 | 70×65×119            |
| YSE-20ES  | 20           | 3/4"         | 7.0  | 6~160                  | 6~120 | 6~50 | 80×74×124            |
| YSE-25ES  | 25           | 1"           | 11.0 | 6~160                  | 6~120 | 6~50 | 90×87×134            |

1. Match Ex pouring type explosion-proof coil solenoid valveThe highest pressure is 0.8 times the maximum pressure in the ES coil configuration table;  
2. ES, Ex coil configuration solenoid valve fluid temperature -10~+80℃。



YSE-010-040ES bottom mounting hole

YSI series 2-way piston type high pressure solenoid valve DN15~50mm



YSI-20ES

YSI-40ES

YSI-50F ES

**Working medium:** liquid, gas, light oil (viscosity≤ 20cst)

**Fluid temperature:** -10~80℃

**Working pressure:** 6~100bar ( See the details below )

**Working type:** pilot operated

**Body material:** stainless steel SS304

**Sealing material:** PTFE

**Connection type:** threaded connection (G thread, NPT thread), flange connection

**Working voltage:** standard ES energy-saving coil (AC220V8VA, DC24V6W) , IP65,H degree,  
Other voltages can be customized

**Conventional coil:** AC220V/AC110V 50/60Hz 24VA, DC24/12V 20W

**Optional:** LED light connector, Ex:encapsulated Ex-proof coil, Digital timer, Rc thread

Order code

| YSI   | Thread                                                         | K                | ES                                                | F                                         | Voltage                                     |
|-------|----------------------------------------------------------------|------------------|---------------------------------------------------|-------------------------------------------|---------------------------------------------|
| Model | 15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:NC<br>K:NO | ES:Low temp coil<br>Ex:Encapsulated Ex-proof coil | Blan:G thread<br>T:NPT thread<br>F:Flange | AC220V<br>AC110V<br>AC24V<br>DC24V<br>DC12V |

YSI series 2-way SS piston type high pressure solenoid valve

YSI series high pressure solenoid valve specification parameter list

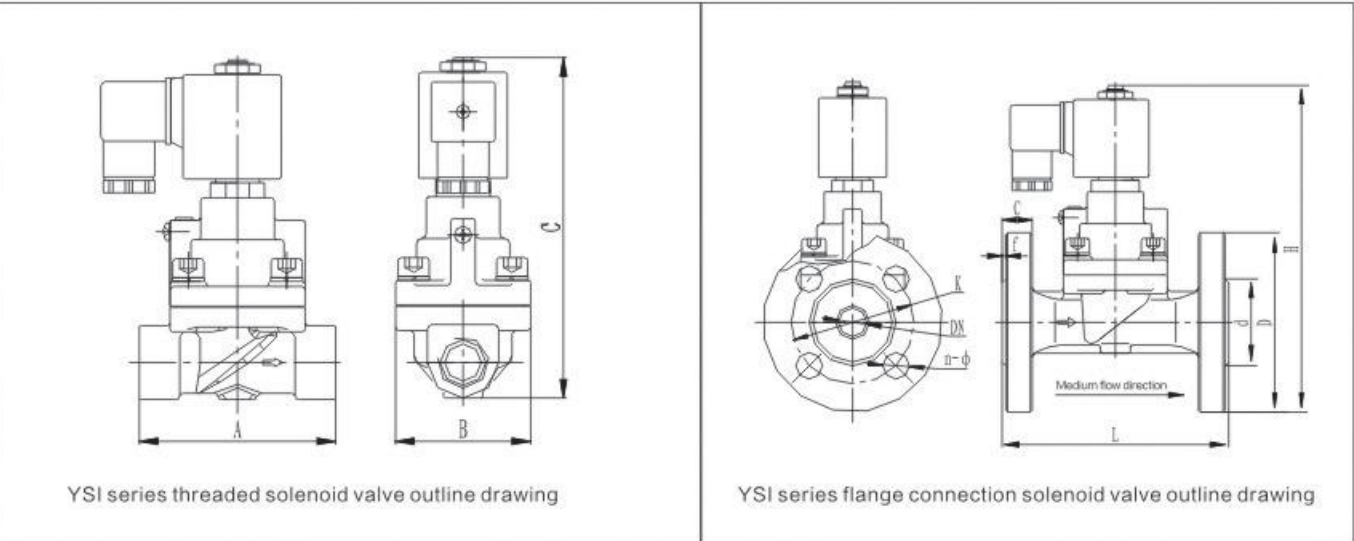
| Model      | Orifice (mm) | Interface | Cv  | Work pressure ( bar ) |       |                       |       |      | Dimensions      | Weight ( kg ) |
|------------|--------------|-----------|-----|-----------------------|-------|-----------------------|-------|------|-----------------|---------------|
|            |              |           |     | NC                    |       |                       |       | NO   |                 |               |
|            |              |           |     | Normal coil           |       | ES energy saving coil |       |      |                 |               |
|            |              |           |     | AC220V                | DC24V | AC220V                | DC24V |      | AC220V<br>DC24V |               |
| YSI-15J-ES | 15           | 1/2"      | 4.8 | 6~100                 | 6~100 | 6~100                 | 6~100 | 6~40 | 80×55×140       | 1.1           |
| YSI-20J-ES | 20           | 3/4"      | 7.6 | 6~100                 | 6~100 | 6~100                 | 6~100 | 6~40 | 90×60×153       | 1.6           |
| YSI-25J-ES | 25           | 1"        | 12  | 6~100                 | 6~100 | 6~100                 | 6~100 | 6~40 | 100×68×162      | 2.1           |
| YSI-32J-ES | 32           | 1 1/4"    | 20  | 6~80                  | 6~80  | 6~80                  | 6~80  | 6~30 | 110×80×170      | 2.6           |
| YSI-40J-ES | 40           | 1 1/2"    | 30  | 6~80                  | 6~80  | 6~80                  | 6~80  | 6~30 | 130×90×185      | 3.7           |
| YSI-50J-ES | 50           | 2"        | 48  | 6~80                  | 6~80  | 6~80                  | 6~80  | 6~30 | 150×108×201     | 5.3           |

Note: 1.ES coil, Ex low temperature explosion-proof coil solenoid valve fluid temperature -10~80℃  
2.Ordinary coil solenoid valve fluid temperature -10~120℃

YSI flange Series (NC) Solenoid Valve Dimensions

| Model       | PN=2.5MPa GB/T9113.1-2000 |     |     | Flange connection size (mm) |     |    |    |   |       | Weight<br>( kg ) |
|-------------|---------------------------|-----|-----|-----------------------------|-----|----|----|---|-------|------------------|
|             | DN                        | L   | D   | H                           | K   | d  | C  | f | n-Φ   |                  |
| YSI-15JF-ES | 15                        | 120 | 95  | 175                         | 65  | 46 | 14 | 2 | 4-Φ14 | 2.5              |
| YSI-20JF-ES | 20                        | 130 | 105 | 188                         | 75  | 56 | 16 | 2 | 4-Φ14 | 3.5              |
| YSI-25JF-ES | 25                        | 140 | 115 | 210                         | 85  | 65 | 16 | 2 | 4-Φ14 | 4.3              |
| YSI-32JF-ES | 32                        | 160 | 140 | 218                         | 100 | 76 | 18 | 2 | 4-Φ18 | 6.4              |
| YSI-40JF-ES | 40                        | 170 | 150 | 232                         | 110 | 84 | 18 | 2 | 4-Φ18 | 7.8              |
| YSI-50JF-ES | 50                        | 200 | 165 | 258                         | 125 | 99 | 20 | 2 | 4-Φ18 | 11.1             |

YSI series threaded connection and flanged (NC) solenoid valve outline drawing



YSP series 2-way piston type high pressure solenoid valve DN15~50 mm



YSP-15~25J

YSP-32~50J

YSP-32~50JF

**Working medium:** liquid, gas  
**Fluid temperature:** -10~80°C  
**Working pressure:** 0.5~50 bar (see the specification sheet for details)  
**Working type:** pilot type (NC, NO)  
**Body material:** stainless steel SS304  
**Sealing material:** PTFE  
**Interface:** G thread, NPT thread, flange  
**Working voltage:** AC220~240V, AC110V 50/60Hz, 23VA, DC24V28W, Plastic coil, IP65 H degree

Order code

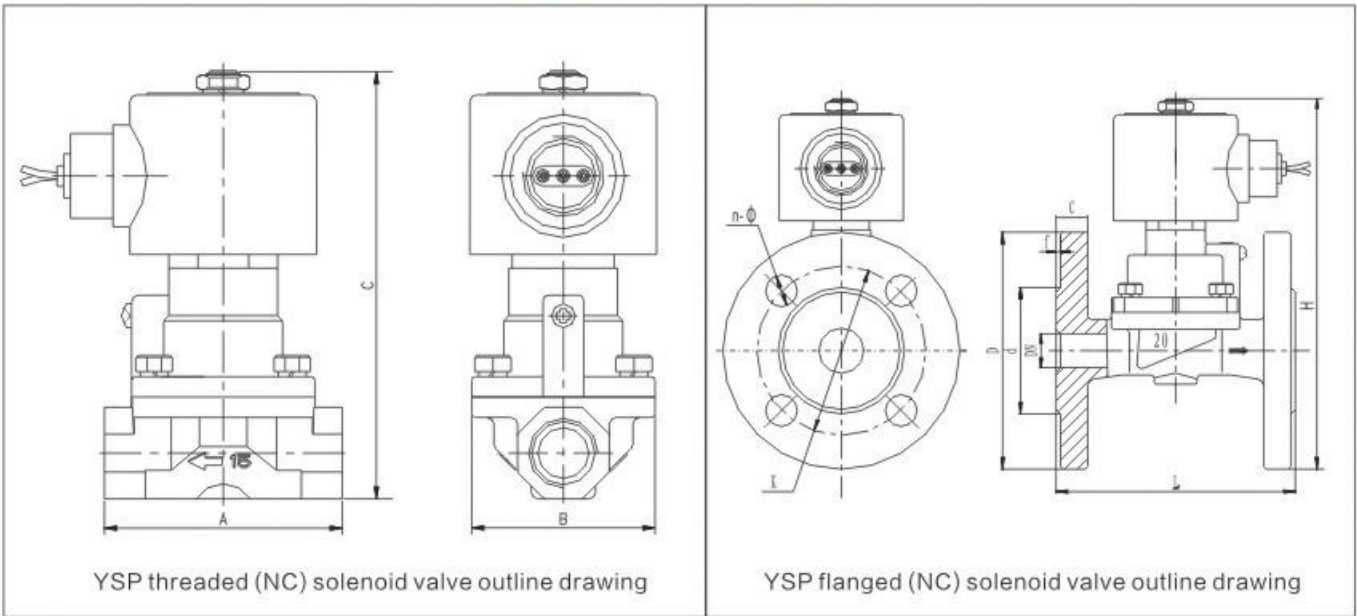
| YSP   | Thread                                                         | J       | F                                          | K                | Voltage                            |
|-------|----------------------------------------------------------------|---------|--------------------------------------------|------------------|------------------------------------|
| Model | 15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | J:SS304 | Blank:G thread<br>T:NPT thread<br>F:Flange | Blank:NC<br>K:NO | AC220V<br>AC110V<br>DC24V<br>DC12V |

YSP series 2-way piston type high pressure solenoid valve

YSP Series high pressure solenoid valve specification table (and threaded valve dimensions)

| Model   | Orifice<br>( mm ) | Interface | Cv  | Working pressure (bar) |        |        |        | Dimensions      | Weight<br>(kg) |
|---------|-------------------|-----------|-----|------------------------|--------|--------|--------|-----------------|----------------|
|         |                   |           |     | NC                     |        | NO     |        | A×B×C<br>( mm ) |                |
|         |                   |           |     | AC220V                 | DC24V  | AC220V | DC24V  |                 |                |
| YSP-15J | 15                | 1/2"      | 4.8 | 0.5~50                 | 0.5~40 | 0.5~20 | 0.5~20 | 70×53×135       | 1.1            |
| YSP-20J | 20                | 3/4"      | 7.6 | 0.5~50                 | 0.5~40 | 0.5~20 | 0.5~20 | 74×57×142       | 1.3            |
| YSP-25J | 25                | 1"        | 12  | 0.5~50                 | 0.5~40 | 0.5~20 | 0.5~20 | 92×69×150       | 1.7            |
| YSP-32J | 32                | 1 1/4"    | 20  | 0.5~30                 | 0.5~30 | 0.5~20 | 0.5~20 | 110×85×164      | 2.7            |
| YSP-40J | 40                | 1 1/2"    | 31  | 0.5~30                 | 0.5~30 | 0.5~20 | 0.5~20 | 122×90×168      | 2.9            |
| YSP-50J | 50                | 2"        | 48  | 0.5~30                 | 0.5~30 | 0.5~20 | 0.5~20 | 160×117×190     | 4.7            |

Threaded and flanged (NC) solenoid valve outline drawing



YSP series flange connection solenoid valve dimension table

| Model    | PN=1.6MPa GB/T9113.1-2000 |     |     |     | Flange connection size (mm) |    |    |   |       | Weight (Kg) |
|----------|---------------------------|-----|-----|-----|-----------------------------|----|----|---|-------|-------------|
|          | DN                        | L   | D   | H   | K                           | d  | C  | f | n-Φ   |             |
| YSP-32JF | 32                        | 140 | 140 | 218 | 100                         | 76 | 18 | 3 | 4-Φ18 | 4.5         |
| YSP-40JF | 40                        | 148 | 150 | 228 | 110                         | 84 | 18 | 3 | 4-Φ18 | 5.5         |
| YSP-50JF | 50                        | 182 | 165 | 243 | 125                         | 99 | 20 | 3 | 4-Φ18 | 7.5         |

## RSQ series 2-way pilot operated(NC) solenoid valve 1/2" ~ 2"

**Working medium:** water, liquid, air, light oil ( viscosity $\leq$ 20cst )

**Medium temperature:** -10~80°C(NBR sealing )

**Working pressure:** 0.3~16bar (details see specification table)

**Working type:** pilot operated(NC)

**Valvebody material:** Brass, SS304

**Sealing material:** NBR (-10~80°C)

**Interface:** G thread, NPT thread

**Working voltage:** AC220~240V, AC110V, 50/60Hz, DC24/12V

DN10~25: AC220V 10VA, DC24V 6W

DN32~50: AC220V 11VA, DC24V 9W IP65, H degree

### Options:

Sealing material: EPDM (-20~130°C ) or VITON (-15~120°C )

LED light connector

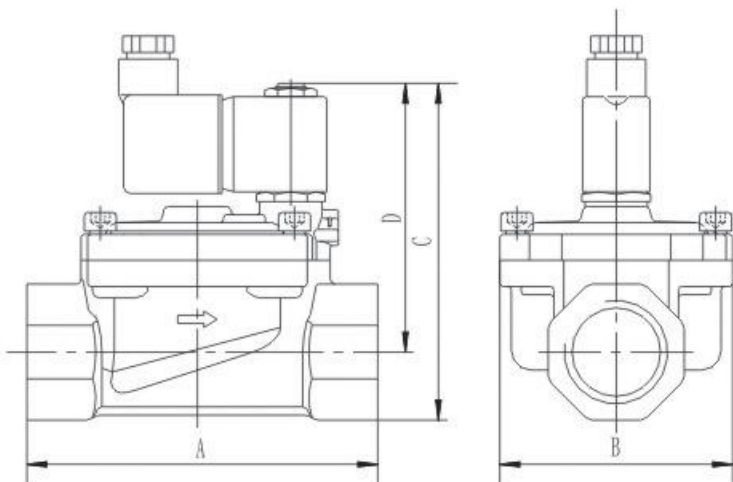


RSQ-25

### Order code

| RSQ   | Thread                                                                    | J                      | T                              | V                              | Voltage                            |
|-------|---------------------------------------------------------------------------|------------------------|--------------------------------|--------------------------------|------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS304 | Blank:G thread<br>T:NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM | AC220V<br>AC110V<br>DC24V<br>DC12V |

### RSQ series solenoid valve drawing



| Model  | A   | B   | C   | D   | Weight ( Kg ) |       |
|--------|-----|-----|-----|-----|---------------|-------|
|        |     |     |     |     | Brass         | SS304 |
| RSQ-10 | 66  | 42  | 82  | 69  | 0.5           | 0.45  |
| RSQ-15 | 66  | 42  | 82  | 69  | 0.5           | 0.45  |
| RSQ-20 | 79  | 51  | 89  | 73  | 0.6           | 0.55  |
| RSQ-25 | 105 | 71  | 106 | 85  | 1.2           | 1.1   |
| RSQ-32 | 130 | 85  | 114 | 89  | 1.7           | 1.5   |
| RSQ-40 | 140 | 96  | 124 | 95  | 2.3           | 2.1   |
| RSQ-50 | 175 | 125 | 140 | 105 | 4.3           | 3.9   |

## RSV series 2-way low power ( diaphragm ) solenoid valve 1/8" ~ 1"

**Working medium:** water, liquid, air, light oil ( viscosity $\leq$ 20cst )

**Medium temperature:** -10~80°C(NBR sealing )

**Working pressure:** 0~8 bar

**Working type:** direct acting, pilot operated

**Valvebody material:** Brass

**Sealing material:** NBR (-10~80°C)

**Interface:** G thread, NPT thread

**Working voltage:** AC220/110V, 50/60Hz 6VA, DC24/12V 6W

**Options:** sealing material: EPDM (-20~130°C ) or VITON (-15~120°C )  
Rc thread, LED light connector

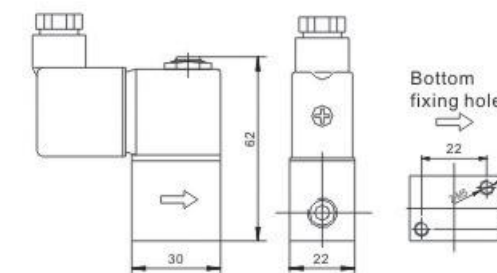


RSV-025-08

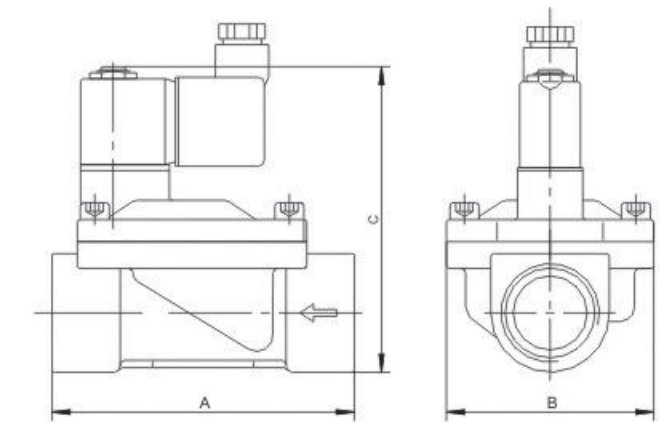
RSV-25

### Order code

| RSV   | Thread                                                       | T                              | V                              | Voltage                            |
|-------|--------------------------------------------------------------|--------------------------------|--------------------------------|------------------------------------|
| Model | 06:1/8"<br>08:1/4"<br>10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1" | Blank:G thread<br>T:NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM | AC220V<br>AC110V<br>DC24V<br>DC12V |



RSV-025-08 direct acting solenoid valve drawing



RSV-10~25 pilot operated solenoid valve drawing

### RSV series 2-way low power ( diaphragm ) specification table

| Model      | Orifice size(mm) | Interface size | Cv  | Pressure(bar) | A × B × C      | Weight (Kg) | Note           |
|------------|------------------|----------------|-----|---------------|----------------|-------------|----------------|
| RSV-025-06 | 2.5              | 1/8"           | 0.2 | 0~8           | 30 × 22 × 62   | 0.22        | Direct acting  |
| RSV-025-08 | 2.5              | 1/4"           | 0.2 | 0~8           | 30 × 22 × 62   | 0.22        |                |
| RSV-10     | 13               | 3/8"           | 3.5 | 0.3~8         | 72 × 48 × 100  | 0.62        | Pilot operated |
| RSV-15     | 13               | 1/2"           | 3.5 | 0.3~8         | 72 × 48 × 100  | 0.6         |                |
| RSV-20     | 25               | 3/4"           | 20  | 0.3~8         | 100 × 70 × 105 | 1.1         |                |
| RSV-25     | 25               | 1"             | 20  | 0.3~8         | 100 × 70 × 105 | 1.0         |                |

SLDF series 2-way(NC) underwater solenoid valve 1/2 " ~2 " DN15~200mm

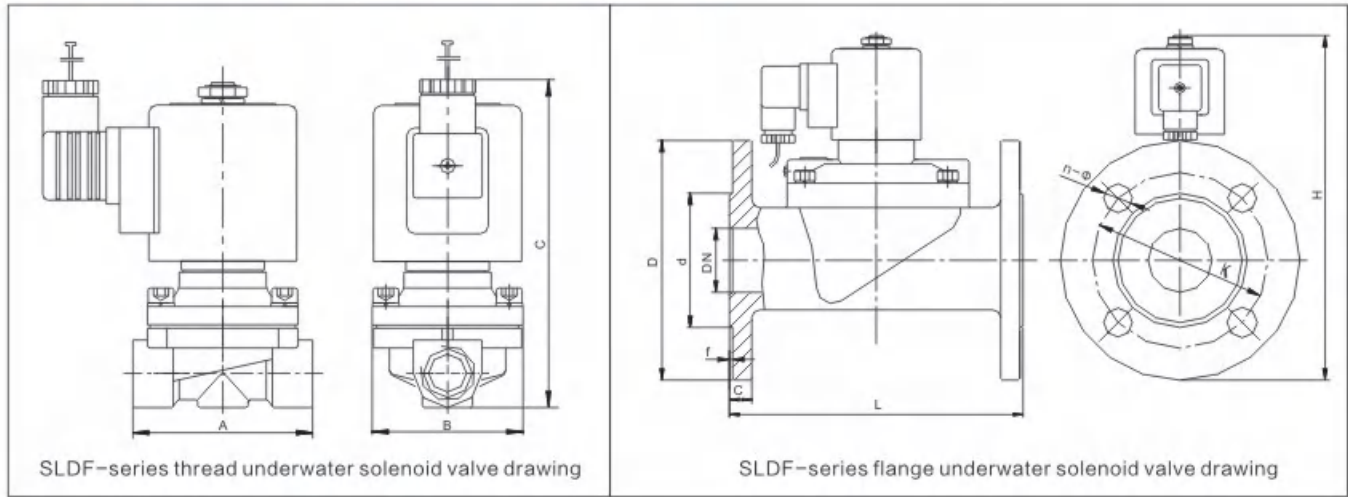


**Working medium:** water  
**Medium temperature:** -5~60℃  
**Working pressure:** 0~8bar(details see specification table )  
**Working type:** DN15~50mm: semi-direct acting(NC, NO), pilot operated(DN65~200mm NC )  
**Valvebody material:** Brass, SS304,PA66, cast iron  
**Sealing material:** NBR  
**Interface:** G thread, NPT thread, flange  
**Working voltage:** AC220~240V, AC110V, 50/60Hz; DC24/12V, AC 32VA, DC 36W, IP68, H degree

Order code

| SLDF  | Orifice                                                        | J                                                | K                | F                                          | Voltage                   |
|-------|----------------------------------------------------------------|--------------------------------------------------|------------------|--------------------------------------------|---------------------------|
| Model | 15:15mm<br>20:20mm<br>25:25mm<br>32:32mm<br>40:40mm<br>50:50mm | Blank:Brass<br>J:SS304<br>C:cast iron<br>SL:PA66 | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread<br>F:flange | AC220V<br>AC110V<br>DC24V |

SLDF series underwater solenoid valve drawing



SLDF series 2-way(NC) underwater solenoid valve

SLDF series solenoid valve specification table

| Model      | Orifice<br>( mm ) | Interface | Cv  | Pressure<br>(bar) | A × B × C<br>( mm ) | Normal order code | Valvebody<br>material |
|------------|-------------------|-----------|-----|-------------------|---------------------|-------------------|-----------------------|
|            |                   |           |     |                   |                     | AC220V, G thread  |                       |
| SLDF-15    | 15                | 1/2"      | 3.8 | 0~6               | 60×45×101           | SLDF-15-AC220V    | Brass<br>SS304        |
| SLDF-20    | 20                | 3/4"      | 7.6 | 0~6               | 67×50×107           | SLDF-20-AC220V    |                       |
| SLDF-25    | 25                | 1"        | 12  | 0~6               | 82×60×115           | SLDF-25-AC220V    |                       |
| SLDF-32    | 32                | 1 1/4"    | 24  | 0~6               | 110×85×154          | SLDF-32-AC220V    |                       |
| SLDF-40    | 40                | 1 1/2"    | 30  | 0~6               | 120×90×162          | SLDF-40-AC220V    |                       |
| SLDF-50    | 50                | 2"        | 48  | 0~6               | 154×112×185         | SLDF-50-AC220V    |                       |
| SLDF-15SL  | 15                | 1/2"      | 3.8 | 0~6               | 76×68×107           | SLDF-15SL-AC220V  | PA66                  |
| SLDF-20SL  | 20                | 3/4"      | 7.6 | 0~6               | 80×68×111           | SLDF-20SL-AC220V  |                       |
| SLDF-25SL  | 25                | 1"        | 12  | 0~6               | 107×82×117          | SLDF-25SL-AC220V  |                       |
| SLDF-32SL  | 32                | 1 1/4"    | 22  | 0~6               | 140×112×160         | SLDF-32SL-AC220V  |                       |
| SLDF-40SL  | 40                | 1 1/2"    | 30  | 0~6               | 140×112×170         | SLDF-40SL-AC220V  |                       |
| SLDF-50SL  | 50                | 2"        | 48  | 0~6               | 159×130×190         | SLDF-50SL-AC220V  |                       |
| SLDF-65JF  | 65                | Flange    | 53  | 0.3~8             | 256×185×318         | SLDF-65JF-AC220V  | SS304                 |
| SLDF-80JF  | 80                |           | 82  | 0.3~8             | 277×200×327         | SLDF-80JF-AC220V  |                       |
| SLDF-100JF | 100               |           | 129 | 0.3~8             | 350×220×345         | SLDF-100JF-AC220V |                       |
| SLDF-150JF | 150               |           | 292 | 0.3~8             | 450×285×400         | SLDF-150JF-AC220V |                       |
| SLDF-65CF  | 65                |           | 53  | 0.3~8             | 258×185×330         | SLDF-65CF-AC220V  | Cast iron             |
| SLDF-80CF  | 80                |           | 82  | 0.3~8             | 280×200×330         | SLDF-80CF-AC220V  |                       |
| SLDF-100CF | 100               |           | 128 | 0.3~8             | 354×220×390         | SLDF-100CF-AC220V |                       |
| SLDF-125CF | 125               |           | 222 | 0.3~8             | 430×250×470         | SLDF-125CF-AC220V |                       |
| SLDF-150CF | 150               |           | 292 | 0.3~8             | 454×285×480         | SLDF-150CF-AC220V |                       |
| SLDF-200CF | 200               |           | 513 | 0.3~8             | 573×340×590         | SLDF-200CF-AC220V |                       |

SLDF series flange solenoid valve dimension table

| Model      | PN=1.6MPa GB/T9113.1-2000 flange connection dimension (mm) |     |     |     |     |     |    |   |        |
|------------|------------------------------------------------------------|-----|-----|-----|-----|-----|----|---|--------|
|            | DN                                                         | L   | D   | H   | K   | d   | C  | f | n-Φ    |
| SLDF-65JF  | 65                                                         | 256 | 185 | 318 | 145 | 118 | 20 | 3 | 4-Φ18  |
| SLDF-80JF  | 80                                                         | 277 | 200 | 327 | 160 | 132 | 20 | 3 | 8-Φ18  |
| SLDF-100JF | 100                                                        | 350 | 220 | 345 | 180 | 156 | 22 | 3 | 8-Φ18  |
| SLDF-150JF | 150                                                        | 450 | 285 | 400 | 240 | 211 | 24 | 3 | 8-Φ22  |
| SLDF-65CF  | 65                                                         | 258 | 185 | 330 | 145 | 118 | 20 | 3 | 4-Φ18  |
| SLDF-80CF  | 80                                                         | 280 | 200 | 330 | 160 | 132 | 20 | 3 | 8-Φ18  |
| SLDF-100CF | 100                                                        | 354 | 220 | 390 | 180 | 156 | 22 | 3 | 8-Φ18  |
| SLDF-125CF | 125                                                        | 430 | 250 | 470 | 210 | 186 | 22 | 3 | 8-Φ18  |
| SLDF-150CF | 150                                                        | 454 | 285 | 480 | 240 | 211 | 24 | 3 | 8-Φ22  |
| SLDF-200CF | 200                                                        | 573 | 340 | 590 | 295 | 266 | 24 | 3 | 12-Φ22 |

## Encapsulation type explosion-proof coil solenoid valve

The solenoid is encapsulation type low power explosion-proof type. solenoid valve is slowly heating-up, strong attraction, energy saving, explosion-proof, medium temperature -10°C ~ +80°C.



Explosion-proof solenoid valve production licence

Low-temperature explosion-proof coil certificate

Chinese CCC certificate

EU certificate

Chinese certificate

production licence: XK06-014-01404 explosion-proof qualification: GYB17.1593X explosion-proof degree: Ex mb II C T6 Gb  
environment temperature: -20°C ~ +50°C  
connection: cable wire, 1.5M by default, length can be customized

explosion-proof coil (EU patent: 003866250-0001)

solenoid model:

14.521AEx: voltage: AC220V 5VA, AC110V 5VA, AC24V 6VA 14.520AEx: voltage: DC24V 4W, DC12V 3W  
1621BEx: voltage: AC220V 7VA, AC110V 9VA, AC24V 5VA 1620BEx: voltage: DC24V 5W, DC12V 3W  
1621CEX: voltage: AC220V 8VA, AC110V 9VA, AC24V 7VA 1620CEX: voltage: DC24V 8W, DC12V 4W



explosion-proof solenoid 14.521AEx, 14.520AEx  
(hole diameter 14.7mm)



explosion-proof solenoid 1621BEx, 1620BEx  
(hole diameter 16.2mm)



explosion-proof solenoid 1621CEX, 1620CEX  
(hole diameter 16.2mm)

### Explosion-proof coil solenoid valve technical parameters

**Working medium:** air, liquid, oil (viscosity ≤ 20CST)

**Working pressure:** detail see specification table

**Valvebody material:** brass, SS, cast iron, UPVC/CPVC, nylon PA66

**Characteristic:** slowly heating-up, strong attraction, energy saving, explosion-proof

**Medium temperature:** -10°C ~ +80°C

**Environment temperature:** -20°C ~ +50°C

### Order code

| Model      | Orifice   | Valvebody    | K         | interface       | Ex              | Sealing material | Voltage |
|------------|-----------|--------------|-----------|-----------------|-----------------|------------------|---------|
| 2W, 2W-SL  | 030:3mm   | Blank: Brass | blank: NC | Blank: G thread | Encapsulation   | Blank: NBR       | AC220V  |
| DFD, YSA   | 15:15mm   | J: SS        | K: NO     | T: NPT thread   | type            | E: EPDM          | AC110V  |
| RSP, RSP-A | 40:40mm   | C: Cast iron |           | F: Flange       | Explosion-proof | V: VITON         | DC24V   |
| YSI, YSE   | 65:65mm   | PU: UPVC     |           | H: Loose joint  | solenoid        | PTFE             | DC12V   |
| ZCF-PU/PC  | 100:100mm | PC: CPVC     |           |                 |                 |                  |         |

### Solenoid model 14.520aex, 14.521aex: valve model options

2W series direct acting: DN2.5~10mm, size: 2W-025, 030, 040, 050, 060Ex, 2W-A-10Ex, detail see catalog page 08~10.  
DFD series pilot operated: DN10~100mm, size: DFD-15, 20, 25, 32, 40, 50, 65, 80, 100Ex, detail see catalog page 19~27.  
RSP series pilot operated: DN10~50mm, size: RSP-A-10Ex, RSP-15, 20, 25, 32, 40, 50Ex, detail see catalog page 01~07.  
YSA series pilot operated: DN15~50mm, size: YSA-15, 20, 25, 32, 40, 50Ex, detail see catalog page 33~34.  
YSE series direct acting: DN1~4mm, size: YSE-010, YSE-015, 020, 025, 030, 040Ex, detail see catalog page 46.  
YSE series pilot operated: DN10~25mm, size: YSE-10, 15, 20, 25Ex, detail see catalog page 46.  
YSI series pilot operated: DN15~50mm, size: YSI-15, 20, 25, 32, 40, 50Ex, detail see catalog page 47~48.

## Encapsulation type explosion-proof coil solenoid valve

### solenoid model 14.520AEx, 14.521AEx: valve model samples



2W-025-050-08Ex



DFD-10-50Ex



DFD-25-100JFEx



RSP-10-50Ex



YSE-010-040-08Ex



YSE-10-25Ex



YSI-15-50Ex



YSA-15-50Ex

### solenoid model 1620BEx, 1621BEx: valve model options

2W series semi direct acting: DN10~20mm, size: 2W-10Ex, 2W-15Ex, 2W-20Ex, detail see catalog page 11~18.

2W-SL series semi direct acting: Dn15~20mm, size: 2W-15SLEx, 2W-20SLEx, detail see catalog page 31~32.

### solenoid model 1620BEx, 1621BEx: valve model samples



2W-10-20Ex



2W-10-20JEx



2W-15SLEx



2W-20SLEx

### solenoid model 1620CEX, 1621CEX: valve model options

2W series semi direct acting, DN25~50mm, size: 2W-25Ex, 2W-32Ex, 2W-40Ex, 2W-50Ex, detail see catalog page 11~18.

2W-SL series semi direct acting: DN25~50mm, size: 2W-25SLEx, 2W-32SLEx, 2W-40SLEx, 2W-50SLEx, detail see catalog page 31~32.

DFD series pilot operated: DN125~200mm, size: DFD-125CFEx, DFD-150CFEx, DFD-200CFEx, detail see catalog page 27~28.

ZCF-PU/PC series pilot operated, size: ZCF-PU/PC-15Ex, ZCF-PU/PC-20Ex, ZCF-PU/PC-25Ex, detail see catalog page 64~65

### solenoid model 1620CEX, 1621CEX: valve model samples



2W-25Ex



2W-32-50Ex



2W-25-50JFEx



2W-25-50SLEx



DFD-125-200CFEx



ZCF-PC-15-25Ex



ZCF-PU-15-25FEx



ZCF-PU-15-25HEX

ZCSB series 2-way explosion-proof solenoid valve



Production license



Explosion-proof solenoid valves certification



Explosion-proof certification coil

**Working medium :** Steam, liquid, gas, oil ≤20CST  
**Medium temperature:** -10℃~80℃ and 0℃~180℃  
**Working pressure:** 0~16 bar max  
**Environmental temperature:** -10℃~+50℃ Relative humidity≤85%  
**ValveBody material:** Brass, Stainless steel SS304, Cast iron  
**Explosion proof structure:** Flameproof ( ExdIIBT4 ) , Electrical interface: M22x1.5  
**Coil parameters:** AC110V, AC220V, AC240V, DC12V, DC 24V, Flameproof IP54  
Encapsulation type, IP65, 1 meter-long cable wire

Main valve configuration

Normal type DF explosion-proof product model ZCSB - D  
Main valve type 2W explosion-proof product model ZCSB - W  
ZCM explosion-proof product model ZCSB - M  
Heat-resistant type PS explosion-proof product model ZCSB - P  
Main valve type RSPS explosion-proof product model ZCSB - R  
ZCZ explosion-proof product model ZCSB - Z  
ZQDF explosion-proof product model ZCSB - Q

**Warning** ● When you place an order please specify the operation and installation conditions of the explosion-proof solenoid valve.  
**Matches** ● With Germany Nass coil.

Order code

ZCSB — D — 15 — J — F — AC220V  
Product model M: ZCM D: DF W: 2W Orifice size 15=15mm Blank: Brass J:Stainless steel C:Cast iron Blank: G thread F: Flange connection T: The NPT thread Working voltage

Specification parameter table

| Product model | Thread               | Orifice size mm | Cv value | Medium temperature                                                    | Working Pressure ( bar )       | Remarks                                                                                                                                                            |
|---------------|----------------------|-----------------|----------|-----------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZCSB-10       | G3/8"                | 13              | 2.1      | Flameproof<br>0℃ ~ 180℃                                               | semi-direct acting<br>0~10 bar | Work pressure,<br><br>medium temperature,<br><br>about the valve body<br><br>material please see the<br><br>main valve specification<br><br>parameter table sample |
| ZCSB-15       | G1/2"                | 13              | 4.5      |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-20       | G3/4"                | 18              | 7        |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-25       | G1"                  | 23              | 12       |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-32       | G1 1/4 "             | 32              | 22       |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-40       | G1 1/2"              | 40              | 30       | Encapsulation type<br>-10℃ ~ 80℃<br>Valve surface<br>temperature≤130℃ | pilot operated<br>0.4~16bar    |                                                                                                                                                                    |
| ZCSB-50       | G2"                  | 50              | 48       |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-65CF     | Flange<br>connection | 65              | 55       |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-80CF     |                      | 80              | 85       |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-100CF    |                      | 100             | 130      |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-125CF    |                      | 125             | 222      |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-150CF    |                      | 150             | 292      |                                                                       |                                |                                                                                                                                                                    |
| ZCSB-200CF    |                      | 200             | 513      |                                                                       |                                |                                                                                                                                                                    |

ZCSB series 2-way Explosion-Proof Solenoid Valve



ZCSB(W)-20(Encapsulation type)  
Main valve configuration: 2W series  
Technical parameters: see P12 2W parameter table



ZCSB(D)-25(Flameproof)  
Main valve configuration: DF series  
Technical parameters: see P20 DF parameter table



ZCSB(R)-40(Encapsulation type)  
Main valve configuration: RSPS series  
Technical parameters: see P41 RSPS parameter table



ZCSB(W)-25J(Flameproof)  
Main valve configuration: 2W series  
Technical parameters: see P12 2W parameter table



ZCSB(R)-25J(Flameproof)  
Main valve configuration: RSPS series  
Technical parameters: see P41 RSPS parameter table



ZCSB(Z)-25(Flameproof)  
Main valve configuration: ZCZseries  
Technical parameters: see ZCZ parameter table



ZCSB(P)-25F(Flameproof)  
Main valve configuration: PS series  
Technical parameters: see P36 PS parameter table



ZCSB(Q)-25(Flameproof)  
Main valve configuration: ZQD series  
Technical parameters: see ZQDF parameter table



ZCSB(D)-80CF(Flameproof)  
Main valve configuration: DF series  
Technical parameters: see P20 DF parameter table

ZCM series 2-way gas solenoid valve 1/4 " ~2 " DN3~100mm



ZCM-030~08



ZCM-15N

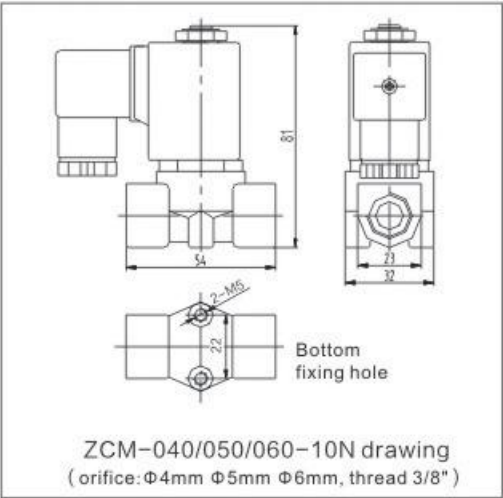
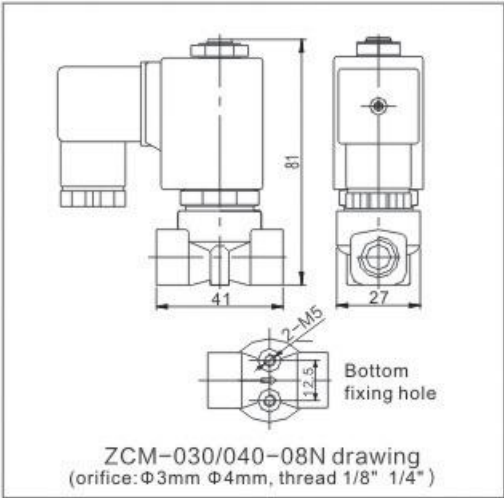


ZCM-65~100CF

**Working medium:** gas, low pressure air  
**Medium temperature:** -5~60℃  
**Working pressure:** 0~4 bar (details see specification table),  
**Working type:** NC: DN3~6mm,  
ZCM-10Z~25Z is direct acting, guarantee the flow when low pressure 30KPa  
DN 10~100 semi direct acting, NO: DN3~50mm  
**Valvebody material:** Brass, SS304, cast iron  
**Interface:** G thread, NPT thread, flange  
**Sealing material:** NBR  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, DC24V/12V DN3~6, AC 22VA, DC 13W,  
DN15~25mm, AC 20VA, DC 20W, DN32~50mm, AC 30VA, DC 38W, DN65~100mm, AC 50VA, DC 31W  
**Options:**  
Sealing materia: VITON, Rc thread  
Explosion-proof coil: Ex mb II c T6 Gb

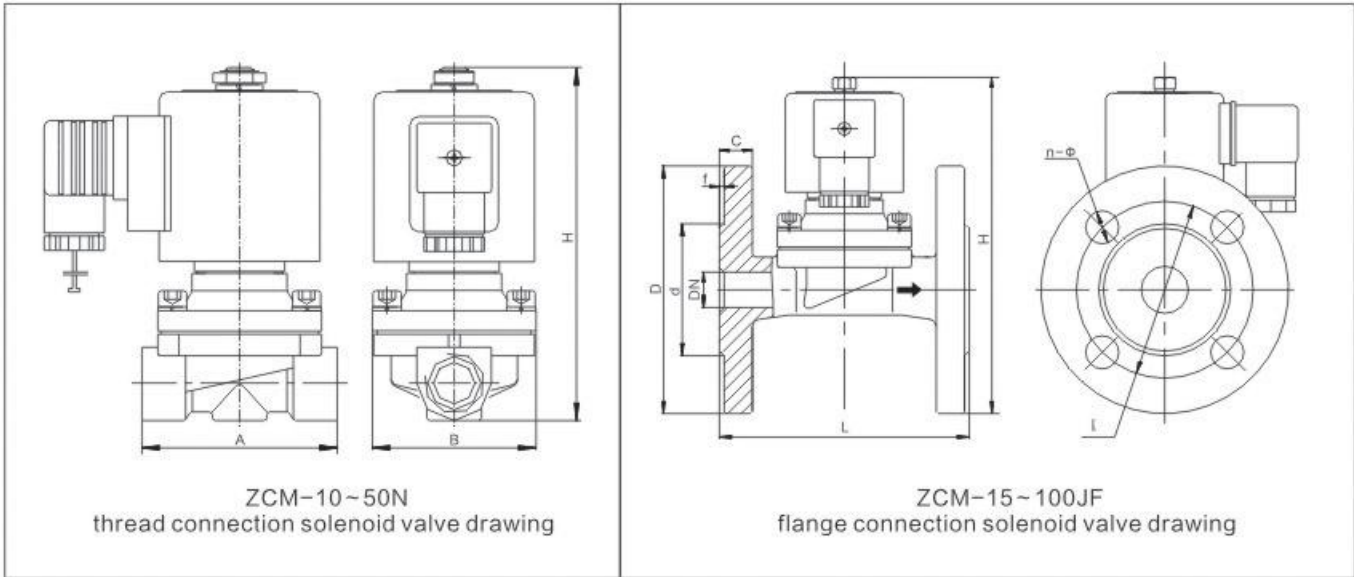
Order code

| ZCM   | Orifice                                                                                | J                                     | N                                                                  | K                | F                                          | V                    | Voltage                   |
|-------|----------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------|------------------|--------------------------------------------|----------------------|---------------------------|
| Model | 030:3mm<br>040:4mm<br>050:5mm<br>40:40mm<br>50:50mm<br>65:65mm<br>80:80mm<br>100:100mm | Blank:Brass<br>J:SS304<br>C:Cast iron | Blank:Iron coil<br>N:Plastic coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread<br>F:flange | Blank:NBR<br>V:VITON | AC220V<br>AC110V<br>DC24V |



ZCM series 2-way gas solenoid valve

ZCM series semi direct acting gas solenoid valve drawing



ZCM series flange connection solenoid valve dimension table

| Model     | PN=1.6MPa GB/T9113.1-2000 flange connection dimension (mm) |     |     |     |     |     |    |   |       |
|-----------|------------------------------------------------------------|-----|-----|-----|-----|-----|----|---|-------|
|           | DN                                                         | L   | D   | H   | K   | d   | C  | f | n-Φ   |
| ZCM-15JF  | 15                                                         | 106 | 95  | 141 | 65  | 46  | 14 | 2 | 4-Φ14 |
| ZCM-20JF  | 20                                                         | 106 | 105 | 143 | 75  | 56  | 16 | 2 | 4-Φ14 |
| ZCM-25JF  | 25                                                         | 135 | 115 | 166 | 85  | 65  | 16 | 3 | 4-Φ14 |
| ZCM-32JF  | 32                                                         | 142 | 140 | 204 | 100 | 76  | 18 | 3 | 4-Φ18 |
| ZCM-40JF  | 40                                                         | 150 | 150 | 211 | 110 | 84  | 18 | 3 | 4-Φ18 |
| ZCM-50JF  | 50                                                         | 184 | 165 | 227 | 125 | 99  | 20 | 3 | 4-Φ18 |
| ZCM-65JF  | 65                                                         | 256 | 185 | 318 | 145 | 118 | 20 | 3 | 4-Φ18 |
| ZCM-80JF  | 80                                                         | 277 | 200 | 327 | 160 | 132 | 20 | 3 | 8-Φ18 |
| ZCM-100JF | 100                                                        | 350 | 220 | 345 | 180 | 156 | 22 | 3 | 8-Φ18 |
| ZCM-40CF  | 40                                                         | 170 | 150 | 215 | 110 | 84  | 18 | 3 | 4-Φ18 |
| ZCM-50CF  | 50                                                         | 200 | 165 | 240 | 125 | 99  | 20 | 3 | 4-Φ18 |
| ZCM-65CF  | 65                                                         | 258 | 185 | 330 | 145 | 118 | 20 | 3 | 4-Φ18 |
| ZCM-80CF  | 80                                                         | 280 | 200 | 330 | 160 | 132 | 20 | 3 | 8-Φ18 |
| ZCM-100CF | 100                                                        | 354 | 220 | 390 | 180 | 156 | 22 | 3 | 8-Φ18 |

ZCM series 2-way gas solenoid valve



ZCM series solenoid valve specification table

| Model                  | Orifice size (mm) | Interface size | Cv   | Working pressure (bar) |       | Solenoid valve<br>length×width×height<br>A×B×C (mm) | Normal order code  | ValveBody material |
|------------------------|-------------------|----------------|------|------------------------|-------|-----------------------------------------------------|--------------------|--------------------|
|                        |                   |                |      | AC220V                 | DC24V |                                                     |                    |                    |
| ZCM-030-08N            | 3                 | 1/4"           | 0.25 | 0~4                    | 0~4   | 41×30×75                                            | ZCM-030-08N-AC220V | brass<br>SS304     |
| ZCM-040-08N            | 4                 | 1/4"           | 0.35 | 0~4                    | 0~4   | 41×30×75                                            | ZCM-040-08N-AC220V |                    |
| ZCM-040-10N            | 4                 | 3/8"           | 0.35 | 0~4                    | 0~4   | 54×32×81                                            | ZCM-040-10N-AC220V |                    |
| ZCM-050-10N            | 5                 |                | 0.6  | 0~3                    | 0~3   | 54×32×81                                            | ZCM-050-10N-AC220V |                    |
| ZCM-060-10N            | 6                 |                | 0.7  | 0~3                    | 0~3   | 54×32×81                                            | ZCM-060-10N-AC220V |                    |
| ZCM-10Z(direct acting) | 16                | 3/8"           | 2.1  | 0~0.3                  | 0~0.3 | 68×56×117                                           | ZCM-10Z-AC220V     |                    |
| ZCM-15Z(direct acting) | 16                | 1/2"           | 4.5  | 0~0.3                  | 0~0.3 | 68×56×117                                           | ZCM-15Z-AC220V     |                    |
| ZCM-20Z(direct acting) | 20                | 3/4"           | 7.5  | 0~0.3                  | 0~0.3 | 73×56×123                                           | ZCM-20Z-AC220V     |                    |
| ZCM-25Z(direct acting) | 25                | 1"             | 12   | 0~0.2                  | 0~0.2 | 100×74×135                                          | ZCM-25Z-AC220V     |                    |
| ZCM-10N                | 16                | 3/8"           | 2.1  | 0~4                    | 0~4   | 68×56×117                                           | ZCM-10N-AC220V     |                    |
| ZCM-15N                | 16                | 1/2"           | 4.5  | 0~4                    | 0~4   | 68×56×117                                           | ZCM-15N-AC220V     |                    |
| ZCM-20N                | 20                | 3/4"           | 7.5  | 0~4                    | 0~4   | 73×56×123                                           | ZCM-20N-AC220V     |                    |
| ZCM-25N                | 25                | 1"             | 12   | 0~4                    | 0~4   | 100×74×135                                          | ZCM-25N-AC220V     |                    |
| ZCM-32N                | 32                | 1 1/4"         | 22   | 0~2                    | 0~2   | 110×85×154                                          | ZCM-32N-AC220V     |                    |
| ZCM-40N                | 40                | 1 1/2"         | 30   | 0~2                    | 0~2   | 120×90×162                                          | ZCM-40N-AC220V     |                    |
| ZCM-50N                | 50                | 2"             | 48   | 0~2                    | 0~2   | 185×112×185                                         | ZCM-50N-AC220V     |                    |
| ZCM-15JFN              | 18                | Flange         | 7.2  | 0~4                    | 0~4   | 106×95×141                                          | ZCM-15JFN-AC220V   | SS304              |
| ZCM-20JFN              | 18                |                | 7.2  | 0~4                    | 0~4   | 106×105×143                                         | ZCM-20JFN-AC220V   |                    |
| ZCM-25JFN              | 25                |                | 12   | 0~4                    | 0~4   | 135×115×166                                         | ZCM-25JFN-AC220V   |                    |
| ZCM-32JFN              | 32                |                | 22   | 0~2                    | 0~2   | 142×140×204                                         | ZCM-32JFN-AC220V   |                    |
| ZCM-40JFN              | 40                |                | 30   | 0~2                    | 0~2   | 150×150×211                                         | ZCM-40JFN-AC220V   |                    |
| ZCM-50JFN              | 50                |                | 48   | 0~2                    | 0~2   | 184×165×227                                         | ZCM-50JFN-AC220V   |                    |
| ZCM-65JF               | 65                |                | 55   | 0~2                    | 0~2   | 256×185×318                                         | ZCM-65JF-AC220V    |                    |
| ZCM-80JF               | 80                |                | 85   | 0~2                    | 0~2   | 277×200×327                                         | ZCM-80JF-AC220V    |                    |
| ZCM-100JF              | 100               |                | 129  | 0~2                    | 0~2   | 350×220×345                                         | ZCM-100JF-AC220V   |                    |
| ZCM-40CFN              | 40                |                | 30   | 0~2                    | 0~2   | 170×150×215                                         | ZCM-40CFN-AC220V   |                    |
| ZCM-50CFN              | 50                | Cast iron      | 48   | 0~2                    | 0~2   | 200×165×240                                         | ZCM-50CFN-AC220V   | Cast iron          |
| ZCM-65CF               | 65                |                | 55   | 0~2                    | 0~2   | 258×185×330                                         | ZCM-65CF-AC220V    |                    |
| ZCM-80CF               | 80                |                | 85   | 0~2                    | 0~2   | 280×200×330                                         | ZCM-80CF-AC220V    |                    |
| ZCM-100CF              | 100               |                | 129  | 0~2                    | 0~2   | 354×220×390                                         | ZCM-100CF-AC220V   |                    |

Note: the large caliber ZCM-10Z, ZCM-15Z, ZCM-25Z in the table is dedicated to ultra-low pressure gas and natural gas,water  
Action type is direct acting

ZCF series 2-way anti-corrosive solenoid valve 1/4 " ~1 "

**Working medium:** Corrosive (liquid, gas)

**Medium temperature:** -10℃~80℃

**Working pressure:** 0~4 bar(see table below)

**Working type:** direct acting(NC, NO)

**Valvebody material:** PTFE

**Sealing material:** VITON

**Interface thread:** G thread (standard)

**Working voltage:** ZCF-2~8: AC220~240V, AC110V 50/60Hz 6VA, DC24V 5W(NC), NO match ES 05-450A  
Can be replaced with explosion-proof coils  
ZCF-10~25: AC220~240V, AC110V 50/60Hz 9VA, DC24V 8W

ZCF-2~8      ZCF-2~8K      ZCF-10~25

Order code

**ZCF-25** — **T** — **Voltage**

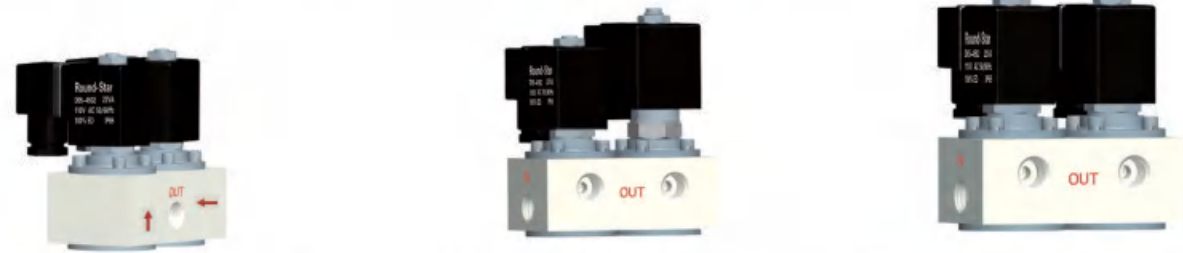
Model      Blank:G thread  
T:NPT thread      AC220V  
DC24V  
DC12V

ZCF-2~5 bottom drawing      ZCF-6~8 bottom drawing      ZCF-2~8 solenoid valve drawing      ZCF-10~25 solenoid valve drawing

ZCF series solenoid valve specification table

| Model  | Orifice (mm) | Interface | Cv   | Working pressure (bar) |       | A×C (mm) | Normal order code | Weight (Kg) |
|--------|--------------|-----------|------|------------------------|-------|----------|-------------------|-------------|
|        |              |           |      | NC                     | NO    |          |                   |             |
| ZCF-2  | 2            | 1/4"      | 0.1  | 0~4                    | 0~3   | Φ46×93   | ZCF-2-AC220V      | 0.41        |
| ZCF-3  | 3            |           | 0.2  | 0~3                    | 0~3   |          | ZCF-3-AC220V      | 0.41        |
| ZCF-4  | 4            |           | 0.3  | 0~2.5                  | 0~1.5 |          | ZCF-4-AC220V      | 0.41        |
| ZCF-5  | 5            |           | 0.4  | 0~2                    | 0~1.5 |          | ZCF-5-AC220V      | 0.41        |
| ZCF-6  | 6            | 1/4"      | 0.65 | 0~1                    | 0~0.5 | Φ54×96   | ZCF-6-AC220V      | 0.53        |
| ZCF-8  | 8            |           | 0.95 | 0~1                    | 0~0.5 |          | ZCF-8-AC220V      | 0.53        |
| ZCF-10 | 11           | 3/8"      | 3.3  | 0~2                    |       | Φ69×125  | ZCF-10-AC220V     | 1.6         |
| ZCF-15 | 11           | 1/2"      | 3.3  | 0~2                    |       |          | ZCF-15-AC220V     | 1.6         |
| ZCF-20 | 11           | 3/4"      | 3.3  | 0~1                    |       | Φ72×135  | ZCF-20-AC220V     | 1.8         |
| ZCF-25 | 11           | 1"        | 3.3  | 0~1                    |       | Φ72×150  | ZCF-25-AC220V     | 1.8         |

## ZCF-5JC series 3-way anti-corrosive solenoid valve



A type: 2 inlets 1 outlet (mixed type)  
(port 2, 3 inlet, port 1 outlet)

B type: 1 inlet 1 outlet (Commutative type)  
(port 1 inlet, port 2 NO port, port 3 outlet)

C type: 1 inlet 2 outlets (diversion type)  
(port 1 inlet, port 2, 3 outlet)

**Working medium:** corrosive (liquid, air)

**Working pressure:** see table below

**Working voltage:** A/C type: AC220/110V 6VA, DC24V 5W

B type: AC220/110V 8VA, DC24V 6W IP65, H degree.

**Working type:** 2 inlets 1 outlet (mixed type), 1 inlet 1 outlet (commutative type)  
1 inlet 2 outlets (diversion type)

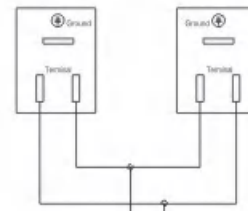
**Valvebody material:** PTFE

**Options:** LED light connector

**Medium temperature:** -10°C ~ 80°C

**Interface type:** G1/4"

**Sealing material:** VITON



Double coil parallel connection diagram

### Order code

If order ZCF-5JC, G thread, A type, AC220V, order code is: ZCF-5JC - A - AC220V

If order ZCF-5JC, G thread, B type, DC24V, order code is: ZCF-5JC - B - DC24V

If order ZCF-5JC, G thread, C type, AC110V, order code is: ZCF-5JC - C - AC110V

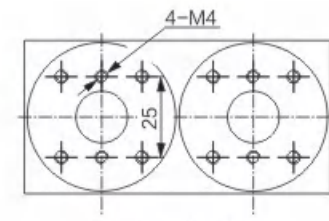
ZCF-5JC — T — Working type — Working voltage

Model

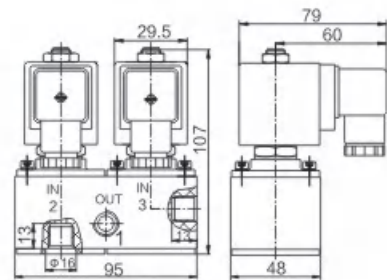
Blank: G thread  
T: NPT thread

A: mixed type  
B: Commutative type  
C: diversion type

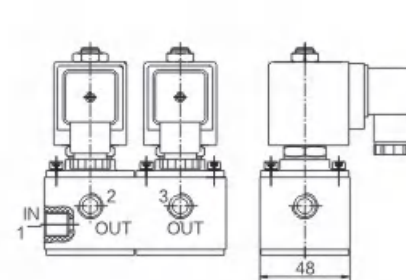
AC220V  
AC110V  
DC24V



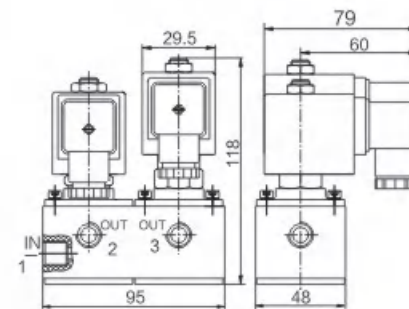
Bottom drawing



A type



B type



C type

### ZCF-5JC series solenoid valve specification table

| Model     | Orifice (mm) | Interface G | Cv  | Pressure (bar) | working type                                                  |
|-----------|--------------|-------------|-----|----------------|---------------------------------------------------------------|
| ZCF-5JC-A | 5            | 1/4"        | 0.4 | 0~2            | A type: fluid from 2 inlets are mixed, and go out to 1 outlet |
| ZCF-5JC-B | 5            | 1/4"        | 0.4 | 0~1.2          | B type: port 1 inlet, port 2 NO port, port 3 outlet           |
| ZCF-5JC-C | 5            | 1/4"        | 0.4 | 0~2            | C type: fluid from 1 inlet, and split-flow to 2 outlets       |

## ZCF-P series 2-way anti-corrosive solenoid valve 1/2" ~ 2"

**Working medium:** liquid (acid, alkali), air

**Medium temperature:** -5 ~ 60°C

**Environment temperature:** -10 ~ 50°C

**Working pressure:** 0 ~ 6 bar

**Working type:** pilot operated (NC)

**Valvebody material:** UPVC / CPVC

**Sealing material:** VITON

**Interface:** G thread NPT thread

**Working voltage:** ES coil AC220 ~ 240V, 50/60Hz; 9VA  
DC24V, 8W, IP65 H degree



ZCF-PU-2~8

ZCF-PU-15~25

ZCF-PC-32~50

### Order code

ZCF-P — U — Thread — T — K — Voltage

Model

PU: UPVC  
PC: CPVC

Thread

15: 1/2"  
20: 3/4"  
25: 1"  
32: 1 1/4"  
40: 1 1/2"  
50: 2"

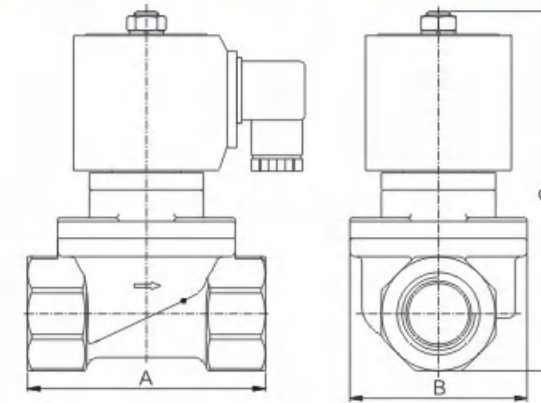
Blank: G thread  
T: NPT thread

Blank: NC  
K: NO

Voltage

AC220V  
AC110V  
DC24V

### ZCF-PU-15~50 series anti-corrosive solenoid valve drawing



| Model     | Orifice (mm) | Interface | Pressure (bar) |       |
|-----------|--------------|-----------|----------------|-------|
|           |              |           | NC             | NO    |
| ZCF-PU-2  | 2            | 1/4"      | 0~4            | 0~3   |
| ZCF-PU-3  | 3            |           | 0~3            | 0~3   |
| ZCF-PU-4  | 4            |           | 0~2.5          | 0~1.5 |
| ZCF-PU-5  | 5            |           | 0~2            | 0~1.5 |
| ZCF-PU-6  | 6            |           | 0~1            | 0~0.5 |
| ZCF-PU-8  | 8            |           | 0~1            | 0~0.5 |
| ZCF-PU-10 | 10           | 3/8"      | 0~2            |       |

### ZCF-P series anti-corrosive solenoid valve specification table

| Model     | Orifice size (mm) | Interface size | Cv  | Working pressure (bar) |       | Dimension<br>A × B × C (mm) | NC Normal order code<br>Voltage: AC220<br>Thread: G thread | Weight (Kg) |
|-----------|-------------------|----------------|-----|------------------------|-------|-----------------------------|------------------------------------------------------------|-------------|
|           |                   |                |     | NC                     | NO    |                             |                                                            |             |
| ZCF-PU-15 | 15                | 1/2"           | 4.8 | 0.3~6                  | 0.3~5 | 74 × 63 × 138               | ZCF-PU-15-AC220V                                           | 1.1         |
| ZCF-PU-20 | 20                | 3/4"           | 7.6 | 0.3~6                  | 0.3~5 | 78 × 63 × 138               | ZCF-PU-20-AC220V                                           | 1.1         |
| ZCF-PU-25 | 25                | 1"             | 11  | 0.3~6                  | 0.3~5 | 98 × 73 × 148               | ZCF-PU-25-AC220V                                           | 1.2         |
| ZCF-PU-32 | 32                | 1 1/4"         | 24  | 0.3~6                  | 0.3~5 | 130 × 95 × 167              | ZCF-PU-32-AC220V                                           | 1.5         |
| ZCF-PU-40 | 40                | 1 1/2"         | 29  | 0.3~6                  | 0.3~5 | 138 × 95 × 175              | ZCF-PU-40-AC220V                                           | 1.5         |
| ZCF-PU-50 | 50                | 2"             | 45  | 0.3~6                  | 0.3~5 | 172 × 155 × 225             | ZCF-PU-50-AC220V                                           | 2.6         |

## ZCF-P-F/H series 2-way flange and loose joint anti-corrosive solenoid valve DN15~40mm

**Working medium:** liquid (acid, alkali), air  
**Medium temperature:** -5~60℃  
**Environment temperature:** -10~50℃  
**Working pressure:** 0.3~6 bar  
**Working type:** pilot operated (NC)  
**Valvebody material:** UPVC, CPVC  
**Sealing material:** VITON  
**Connection type:** flange, loose joint  
**Coil parameters:** slowly heating-up ES coil  
 AC220-240V, AC110V, 50/60Hz, 9VA, DC24V 8W, IP65, H degree  
 Other voltage can be customized



### Order code

**ZCF** — **PU** — **Orifice** — **Connection** — **K** — **Voltage**

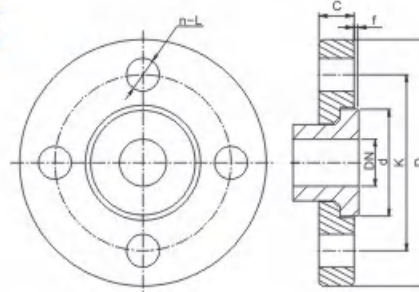
Model PU: Valvebody UPVC  
 PC: Valvebody CPVC

Orifice 15: 15mm  
 20: 20mm  
 25: 25mm  
 32: 32mm  
 40: 40mm  
 50: 50mm

Connection F: Flange  
 H: Loose joint

K Blank: NC  
 K: NO

Voltage AC220V  
 AC110V  
 DC24V



Flange drawing

The valve body in the following table is UPVC model ZCF-PU  
 If the CPVC material is required, the model is ZCF-PC

### ZCF-PU-F flange series anti-corrosive solenoid valve specification table

| Model      | Orifice (mm) | Cv  | Working pressure (bar) |       | Length (mm) | Height (mm) | PN=1.6MPa |     | flange size (GB/T9113.1-2000) |    |   |       |
|------------|--------------|-----|------------------------|-------|-------------|-------------|-----------|-----|-------------------------------|----|---|-------|
|            |              |     | NC                     | NO    |             |             | D         | K   | d                             | C  | f | n-Φ   |
| ZCF-PU-15F | 15           | 4.8 | 0.3~6                  | 0.3~5 | 126         | 162         | 95        | 65  | 46                            | 14 | 2 | 4-Φ14 |
| ZCF-PU-20F | 20           | 7.6 | 0.3~6                  | 0.3~5 | 133         | 175         | 105       | 75  | 56                            | 16 | 2 | 4-Φ14 |
| ZCF-PU-25F | 25           | 11  | 0.3~6                  | 0.3~5 | 165         | 180         | 115       | 85  | 65                            | 16 | 2 | 4-Φ14 |
| ZCF-PU-32F | 32           | 24  | 0.3~5                  | 0.3~5 | 198         | 210         | 140       | 100 | 76                            | 18 | 2 | 4-Φ18 |
| ZCF-PU-40F | 40           | 29  | 0.3~5                  | 0.3~5 | 215         | 220         | 150       | 110 | 84                            | 18 | 2 | 4-Φ18 |
| ZCF-PU-50F | 50           | 45  | 0.3~5                  | 0.3~5 | 259         | 257         | 165       | 125 | 99                            | 20 | 2 | 4-Φ18 |

### ZCF-PU-H loose joint series anti-corrosive solenoid valve specification table

| Model      | Orifice (mm) | Cv  | Working pressure (bar) |       | Length (mm) | Width (mm) | Height (mm) |
|------------|--------------|-----|------------------------|-------|-------------|------------|-------------|
|            |              |     | NC                     | NO    |             |            |             |
| ZCF-PU-15H | 15           | 4.8 | 0.3~6                  | 0.3~5 | 171         | 63         | 127         |
| ZCF-PU-20H | 20           | 7.6 | 0.3~6                  | 0.3~5 | 186         | 63         | 135         |
| ZCF-PU-25H | 25           | 11  | 0.3~6                  | 0.3~5 | 221         | 73         | 145         |
| ZCF-PU-32H | 32           | 24  | 0.3~5                  | 0.3~5 | 254         | 95         | 171         |
| ZCF-PU-40H | 40           | 28  | 0.3~5                  | 0.3~5 | 281         | 95         | 181         |
| ZCF-PU-50H | 50           | 45  | 0.3~5                  | 0.3~5 | 335         | 148        | 227         |

## YSG series 2-way bistable latching solenoid valve 1/2" ~ 3"

Widely used in agriculture automatic irrigation, landscaping, automatic irrigation, drip irrigation and other automatic control.  
 Can also be used for other gases, Hydraulic Control

**Working medium:** water, liquid, air  
**Medium temperature:** -10~80℃  
**Working type:** direct current pulse  
**Valvebody material:** reinforced nylon PA66(German)  
**Sealing material:** NBR  
**Interface:** G thread, NPT thread  
**Working voltage:** DC2.5~6.5V, IP67  
**Coil resistance:** 25Ω  
**Min current:** 190mA  
**Pulse width:** ≥10ms



### Order code

**YSG** — **Thread** — **T** — **Voltage**

Model Thread T Voltage

15: 1/2"  
 20: 3/4"  
 25: 1"  
 32: 1 1/4"  
 40: 1 1/2"  
 50: 2"

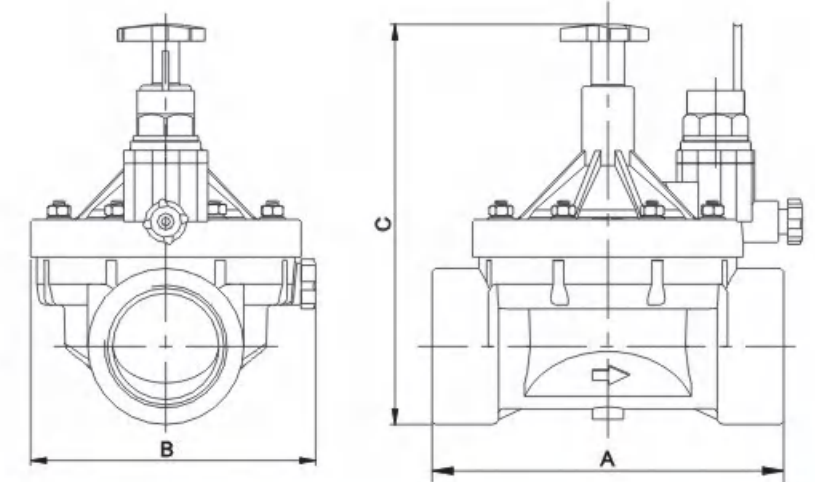
Blank: G thread  
 T: NPT thread

DC6V (by default)  
 9V 12V 24V  
 (can be customized)



### YSG series drawing

1. With a full range of independent water filter can effectively ensure access MediumCleaning, maintenance is simple and convenient.
2. With manual switch means in the absence of electricity, the counterclockwise rotation of the manual switch, open the valve.
3. DN32 ~ 50 with the product further flow regulating means, according to Requirements regulate the flow size.



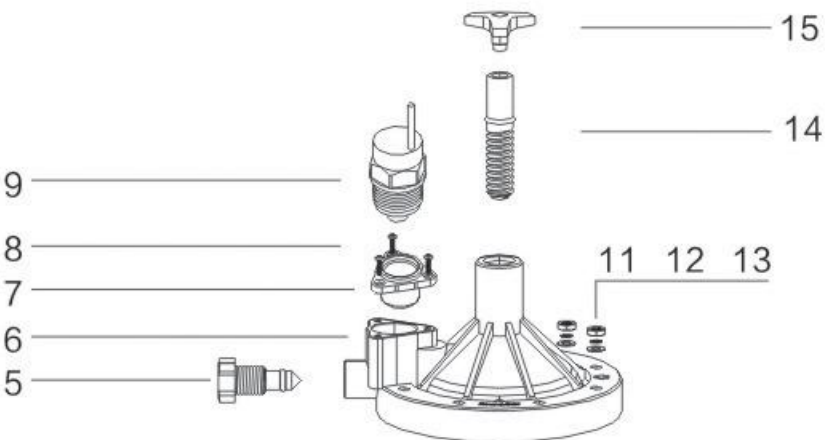
### YSG series specification

| Model  | Orifice<br>( mm ) | interface | Cv  | Working pressure (bar) |              | A × B × C<br>( mm ) | Normal order code                        | Weight<br>(Kg) |
|--------|-------------------|-----------|-----|------------------------|--------------|---------------------|------------------------------------------|----------------|
|        |                   |           |     | air                    | Water liquid |                     | Voltage DC6V<br>Plastic coil<br>G thread |                |
| YSG-15 | 15                | 1/2"      | 3.5 | 0.3~8                  | 0.3~8        | 85 × 73 × 126       | YSG-15-DC6V                              | 0.4            |
| YSG-20 | 20                | 3/4"      | 7.6 | 0.3~8                  | 0.3~8        | 90 × 73 × 128       | YSG-20-DC6V                              | 0.4            |
| YSG-25 | 25                | 1"        | 12  | 0.3~8                  | 0.3~8        | 125 × 90 × 148      | YSG-25-DC6V                              | 0.4            |
| YSG-32 | 32                | 1 1/4"    | 20  | 0.3~8                  | 0.3~8        | 150 × 128 × 173     | YSG-32-DC6V                              | 0.7            |
| YSG-40 | 40                | 1 1/2"    | 30  | 0.3~8                  | 0.3~8        | 151 × 128 × 176     | YSG-40-DC6V                              | 0.8            |
| YSG-50 | 50                | 2"        | 48  | 0.3~8                  | 0.3~8        | 170 × 140 × 190     | YSG-50-DC6V                              | 1.0            |
| YSG-80 | 80                | 3"        | 80  | 0.3~6                  | 0.3~6        | 320 × 195 × 227     | YSG-80-DC6V                              | 2.5            |

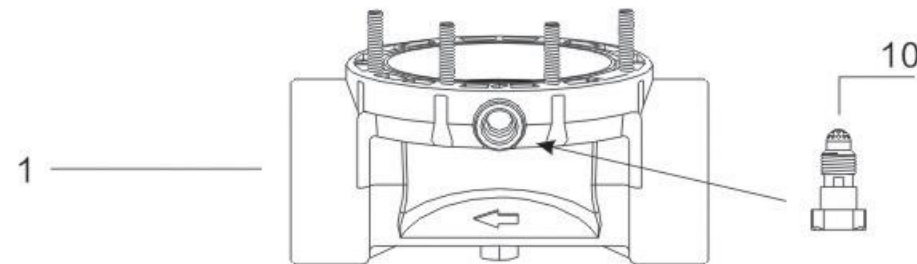
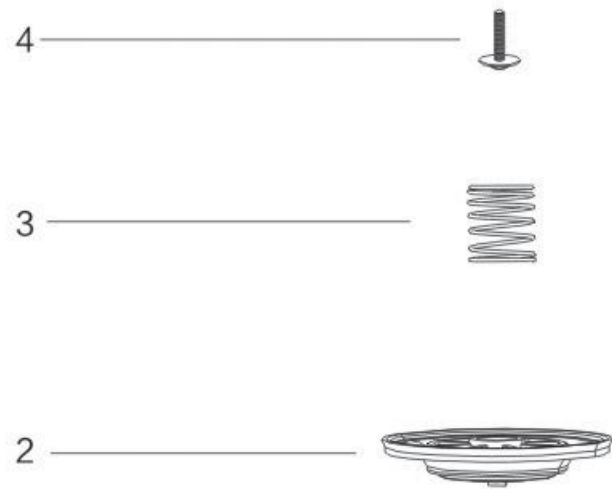
YSG series 2-way bistable latching solenoid valve 1/2 " ~ 2 "

Components:

- 1. With a full range of independent water filter can effectively ensure access Medium Cleaning, maintenance is simple and convenient. See below No. 10
- 2. With manual switch means in the absence of electricity, the counterclockwise rotation of the manual switch, open the valve. See below No. 5
- 3. DN32 ~ 50 with the product further flow regulating means, according to Requirements regulate the flow size. See below No. 14、15



| No. | name                          |
|-----|-------------------------------|
| 1   | valvebody                     |
| 2   | diaphragm                     |
| 3   | spring                        |
| 4   | Self-tapping screws, washers  |
| 5   | Manual switch                 |
| 6   | Valve cover                   |
| 7   | Transform part                |
| 8   | Screw ST3.5                   |
| 9   | Coil                          |
| 10  | Inlet switch ( with filter )  |
| 11  | Nut bolt                      |
| 12  | Cushion ring                  |
| 13  | Flat pad                      |
| 14  | Flow adjustment knob assembly |
| 15  | Flow adjustment knob handle   |



YSG series large size 2-way bistable latching solenoid valve DN65~ DN200

Widely used in agriculture automatic irrigation, landscaping, automatic irrigation, drip irrigation and other automatic control. Can also be used for other gases, Hydraulic Control

**Working medium:** water air liquid  
**Medium temperature:** -10~80℃  
**Working type:** direct current pulse type  
**Valvebody material:** SS304, cast iron  
**Sealing material:** NBR  
**Interface type:** flange  
**Working voltage:** DC2.5~6.5V, IP67  
**Working pressure:** 0.3~8bar  
**Coil resistance:** 25Ω  
**Minimum current:** 190mA  
**Pulse width:** ≥10ms



YSG-65JF



YSG-80CF

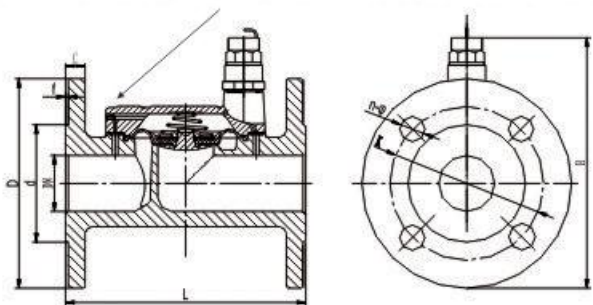
- Note:** 1. Stainless steel valves DN65 ~ DN150 without filter, unworthy manual switch is required with manual switch can be customized
- 2. Cast iron valves DN65 ~ DN200 with filter and manual switch

Cast iron valve into the water filter and manual switch means as standard

Order code

| Model | Orifice                                                                |                             |               | Rated voltage                                      |
|-------|------------------------------------------------------------------------|-----------------------------|---------------|----------------------------------------------------|
| YSG   | 65:65mm<br>80:80mm<br>100:100mm<br>125:125mm<br>150:150mm<br>200:200mm | J<br>C:Cast iron<br>J:SS304 | F<br>F:Flange | DC6V ( by default )<br>9V 12V 24V ( customizable ) |

Balancing hole with a filter device The media to ensure that the valve chamber cavity clean



Large-size bistable latching solenoid valve Dimensions



2-Pin waterproof socket:09B-1

Large-size solenoid valve Dimensions table

| Model     | L   | D   | H   | K   | d   | C  | f | Φ      | Valvebody material | Weight(Kg) |
|-----------|-----|-----|-----|-----|-----|----|---|--------|--------------------|------------|
| YSG-65JF  | 256 | 185 | 248 | 145 | 118 | 20 | 3 | 4-Φ18  | SS304              | 12.3       |
| YSG-80JF  | 277 | 200 | 268 | 160 | 132 | 20 | 3 | 8-Φ18  |                    | 15.1       |
| YSG-100JF | 350 | 220 | 290 | 180 | 156 | 22 | 3 | 8-Φ18  |                    | 23         |
| YSG-150JF | 450 | 285 | 402 | 240 | 211 | 24 | 3 | 8-Φ22  |                    | 62         |
| YSG-65CF  | 259 | 185 | 277 | 145 | 118 | 20 | 3 | 4-Φ18  | Cast iron          | 15         |
| YSG-80CF  | 278 | 200 | 289 | 160 | 132 | 20 | 3 | 8-Φ18  |                    | 17         |
| YSG-100CF | 350 | 220 | 316 | 180 | 156 | 22 | 3 | 8-Φ18  |                    | 23         |
| YSG-125CF | 425 | 250 | 398 | 210 | 186 | 22 | 3 | 8-Φ18  |                    | 54.5       |
| YSG-150CF | 450 | 285 | 430 | 240 | 211 | 24 | 3 | 8-Φ22  | PA66               | 55         |
| YSG-200CF | 560 | 340 | 516 | 295 | 266 | 24 | 3 | 12-Φ22 |                    | 112        |
| YSG-80F   | 340 | 200 | 274 | 160 | 132 | 20 | 3 | 12-Φ18 |                    | 3.2        |

## RSZ series 2-way bistable latching solenoid valve 3/8" ~ 2"

Widely used in water-saving irrigation, automatic induction sanitary ware, landscaping, automatic irrigation, drip irrigation and other automation control.

**Working medium:** air, water, liquid  
**Medium temperature:** -10~80°C  
**Working type:** direct current pulse type  
**Valvebody material:** Brass, SS316  
**Sealing material:** NBR  
**Interface:** G thread, NPT thread  
**Working voltage:** DC2.5~6.5V, IP67  
**Coil resistance:** 25Ω  
**Min current:** 190mA  
**Pulse width:** ≥10ms



RSZ-20

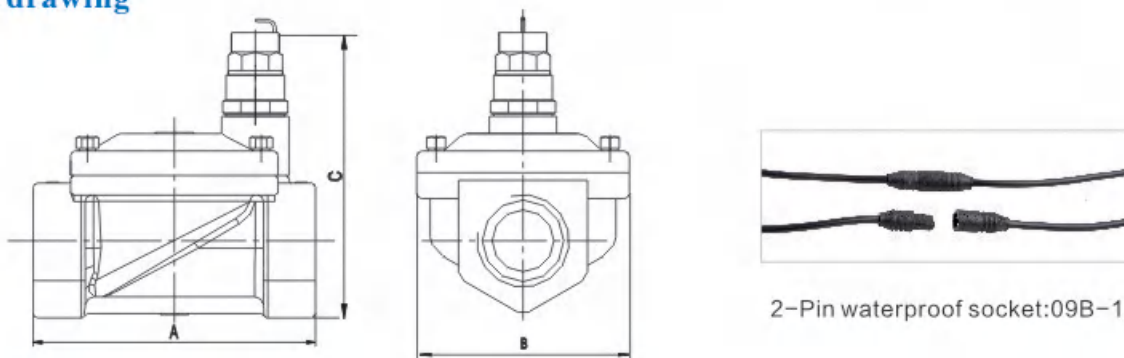


RSZ-40

### Order code

| RSZ   | Thread                                                                    | J                      | T                              | Voltage                                          |
|-------|---------------------------------------------------------------------------|------------------------|--------------------------------|--------------------------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS316 | Blank:G thread<br>T:NPT thread | DC6V(by default)<br>9V 12V 24V can be customized |

### RSZ series drawing



### RSZ series specification

| Model  | Orifice (mm) | Interface | Cv  | Working pressure (bar) | A×B×C (mm)  | Normal order code                    | Weight (Kg) |
|--------|--------------|-----------|-----|------------------------|-------------|--------------------------------------|-------------|
|        |              |           |     |                        |             | Voltage DC6V<br>Brass body, G thread |             |
| RSZ-10 | 13           | 3/8"      | 3.5 | 0.3~8                  | 66×48×94    | RSZ-10-DC6V                          | 0.5         |
| RSZ-15 | 13           | 1/2"      | 3.5 | 0.3~8                  | 66×48×94    | RSZ-15-DC6V                          | 0.5         |
| RSZ-20 | 20           | 3/4"      | 7.6 | 0.3~8                  | 75×58×100   | RSZ-20-DC6V                          | 0.65        |
| RSZ-25 | 25           | 1"        | 12  | 0.3~8                  | 96×69×107   | RSZ-25-DC6V                          | 1.2         |
| RSZ-32 | 32           | 1 1/4"    | 20  | 0.3~8                  | 131×96×132  | RSZ-25-DC6V                          | 2.6         |
| RSZ-40 | 40           | 1 1/2"    | 30  | 0.3~8                  | 131×96×132  | RSZ-40-DC6V                          | 2.4         |
| RSZ-50 | 50           | 2"        | 48  | 0.3~8                  | 165×120×147 | RSZ-50-DC6V                          | 3.7         |
| RSZ-80 | 80           | 3"        | 82  | 0.3~6                  | 250×195×200 | RSZ-80-DC6V                          | 11.9        |

## YSZ series 2-way bistable latching solenoid valve 1/4" ~ 2"

**Working medium:** liquid, water, air, light oil (viscosity≤20cst)  
**Medium temperature:** -10~80°C (NBR sealing)  
**Working pressure:** 0.3~16bar (see below table)  
**Working type:** DN1.5~4 direct acting, DN15~50 pilot operated  
**Valvebody material:** Brass, SS316, PA66  
**Sealing material:** NBR (-10~80°C)  
**Interface:** G thread, NPT thread  
**Working voltage:** DC6V, DC9V, DC12V, DC24V  
 4W, 6W, 12W, IP65, H degree

### Options:

Sealing material: EPDM (-20~130°C) VITON (-15~120°C)



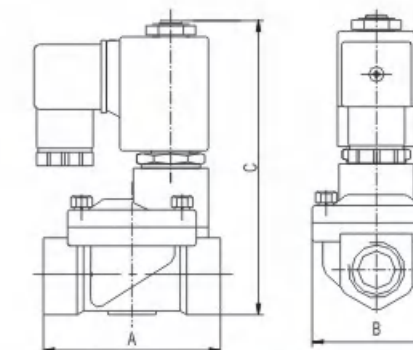
YSZ-10~50



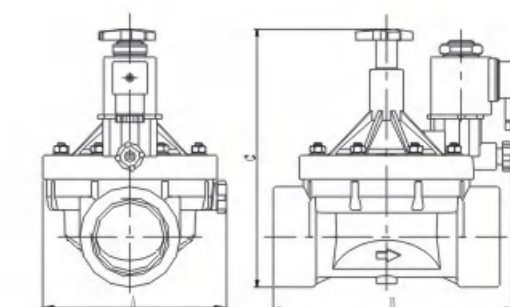
YSZ-15~50SL

### Order code

| YSZ   | Thread                                                                    | J                                 | T                              | V                              | Voltage                        |
|-------|---------------------------------------------------------------------------|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Model | 10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank:Brass<br>J:SS316<br>SL:PA66 | Blank:G thread<br>T:NPT thread | Blank:NBR<br>E:EPDM<br>V:VITON | DC24V<br>DC12V<br>DC9V<br>DC6V |



YSZ-15~50 solenoid valve drawing



YSZ-15~50SL solenoid valve drawing

### YSZ series pilot operated solenoid valve specification table

| Model    | Orifice (mm) | Interface | Cv  | Working pressure (bar) |              | A×B×C (mm)  | Weight (Kg) |     |      |
|----------|--------------|-----------|-----|------------------------|--------------|-------------|-------------|-----|------|
|          |              |           |     | Air                    | Water Liquid |             | Brass       | SS  | PA66 |
| YSZ-15   | 14           | 1/2"      | 3.5 | 0.3~16                 | 0.3~12       | 66×48×112   | 0.7         | 0.6 |      |
| YSZ-20   | 20           | 3/4"      | 7.6 | 0.3~16                 | 0.3~12       | 75×58×118   | 0.8         | 0.7 |      |
| YSZ-25   | 25           | 1"        | 12  | 0.3~16                 | 0.3~12       | 96×69×125   | 1.3         | 1.2 |      |
| YSZ-32   | 32           | 1 1/4"    | 22  | 0.3~16                 | 0.3~10       | 131×96×125  | 2.8         | 2.8 |      |
| YSZ-40   | 40           | 1 1/2"    | 30  | 0.3~16                 | 0.3~10       | 131×96×150  | 2.6         | 2.6 |      |
| YSZ-50   | 50           | 2"        | 48  | 0.3~16                 | 0.3~10       | 168×128×165 | 3.9         | 3.6 |      |
| YSZ-15SL | 15           | 1/2"      | 3.5 | 0.3~7                  | 0.3~7        | 85×73×126   |             |     | 0.6  |
| YSZ-20SL | 20           | 3/4"      | 7.6 | 0.3~7                  | 0.3~7        | 90×73×128   |             |     | 0.6  |
| YSZ-25SL | 25           | 1"        | 12  | 0.3~7                  | 0.3~7        | 125×90×148  |             |     | 0.6  |
| YSZ-32SL | 32           | 1 1/4"    | 22  | 0.3~7                  | 0.3~7        | 150×128×173 |             |     | 0.8  |
| YSZ-40SL | 40           | 1 1/2"    | 30  | 0.3~7                  | 0.3~7        | 152×128×176 |             |     | 0.9  |
| YSZ-50SL | 50           | 2"        | 48  | 0.3~7                  | 0.3~7        | 170×140×190 |             |     | 1.1  |

ZK series vacuum solenoid valve DN15~DN100mm



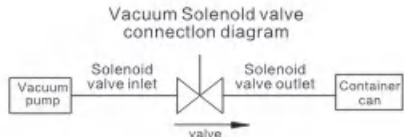
**Working medium:** water, liquid, air  
**Working pressure:** -1 bar~0 bar  
**Valve body material:** Brass, SS304, cast iron  
**Interface:** G thread, NPT thread, flange  
**Working voltage:** AC220~240V, AC110V 50/60HZ, DC24V/12V, IP65, H degree  
**Options:** LED light connector, ES low temp coil, Encapsulated Ex-proof coil  
**Notice:** ES、Ex coil require solenoid valve medium temperature -10~80℃  
**ES coil maintain power:** normally closed type AC220V 8VA DC24V 6W, detail specification see P86 ES05-450B  
**Ex coil maintain power:** direct acting AC220V 5VA, DC24V 4W, semi direct acting AC220V 9VA, DC24V 8W

**Medium temperature:** -10℃~80℃  
**Working type:** direct acting, semi direct acting  
**Sealing material:** NBR, EPDM, VITON, (standard NBR)

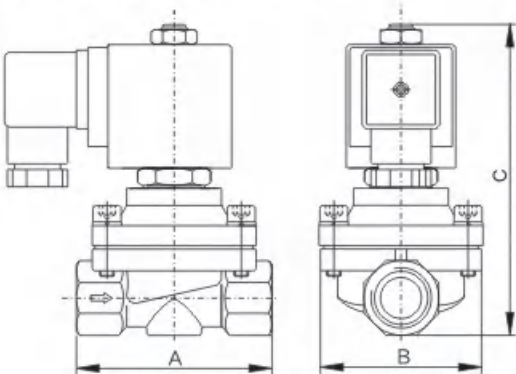
Order code

| ZK    | Orifice                                                                                    | Thread                                                                                          | T                                                  | J                                                  | ES                                                                        | Voltage                            |
|-------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------|------------------------------------|
| Model | 025:2.5mm<br>040:4.0mm<br>050:5.0mm<br>20:20mm<br>25:25mm<br>32:32mm<br>40:40mm<br>50:50mm | 06:1/8"<br>08:1/4"<br>10:3/8"<br>15:1/2"<br>20:3/4"<br>25:1"<br>32:1 1/4"<br>40:1 1/2"<br>50:2" | Blank: G thread<br>T: NPT thread<br>F: flange type | Blank: Brass<br>J: Stainless steel<br>C: Cast iron | Blank: standard coil<br>ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | AC220V<br>AC110V<br>DC24V<br>DC12V |

Cast iron valves and SS304 valves above DN65



ZK solenoid valve connection drawing  
arrow is the same as the arrow on the valve (or IN)



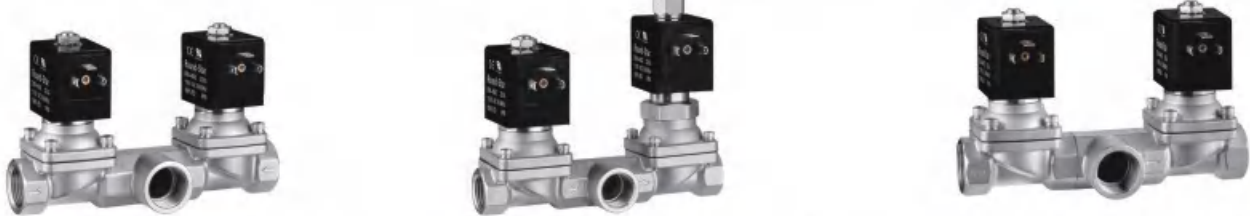
ZK-15 ~ 50 drawing

ZK vacuum solenoid valve specification table(mm)

| Model     | Orifice | Interface | Cv   | A    | B  | C   |
|-----------|---------|-----------|------|------|----|-----|
| ZK-025-08 | 2.5     | 1/4"      | 0.2  | 41   | 27 | 81  |
| ZK-030-08 | 3.0     | 1/4"      | 0.25 | 41   | 27 | 81  |
| ZK-040-08 | 4.0     | 1/4"      | 0.3  | 41   | 27 | 81  |
| ZK-050-08 | 5.0     | 1/4"      | 0.4  | 43.5 | 30 | 82  |
| ZK-040-10 | 4.0     | 3/8"      | 0.3  | 54   | 32 | 81  |
| ZK-15     | 15      | 1/2"      | 3.5  | 60   | 45 | 108 |
| ZK-20     | 20      | 3/4"      | 7.6  | 67   | 50 | 114 |

| Model    | Orifice | Interface | Cv  | A   | B   | C   |
|----------|---------|-----------|-----|-----|-----|-----|
| ZK-25    | 25      | 1"        | 12  | 82  | 66  | 122 |
| ZK-32    | 32      | 1 1/4"    | 24  | 102 | 82  | 147 |
| ZK-40    | 40      | 1 1/2"    | 29  | 110 | 85  | 153 |
| ZK-50    | 50      | 2"        | 48  | 134 | 108 | 166 |
| ZK-65JF  | 65      | flange    | 55  | 258 | 185 | 330 |
| ZK-80JF  | 80      | flange    | 85  | 280 | 200 | 330 |
| ZK-100JF | 100     | flange    | 129 | 354 | 220 | 390 |

231D series 3-way solenoid valve DN15、DN20、DN25mm



A type:2 inlets 1 outlet(mixed type)  
(port 2、3 inlet, port 1 outlet)

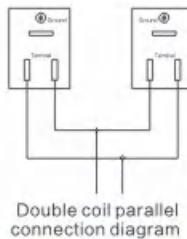
B type:1 inlet 1 outlet(Commutative type)  
(port 1 inlet, port 2 NO port, port 3 outlet)

C type:1 inlet 2 outlets(diversion type)  
(port 1 inlet, port 2、3 outlet)

**Working medium:** water, liquid, air  
**Working pressure:** see table below  
**Working voltage:** AC220/110V 50/60Hz 24VA, DC24V 20W, IP65, H degree  
**Control type:** 2 inlets 1 outlet(mixed type), 1 inlet 1 outlet(commutative type), 1 inlet 2 outlets(diversion type)  
**Valvebody material:** SS304  
**Sealing material:** NBR, EPDM, VITON  
**Options:** LED light connector, ES low power coil(AC220V8VA, DC24V6W)

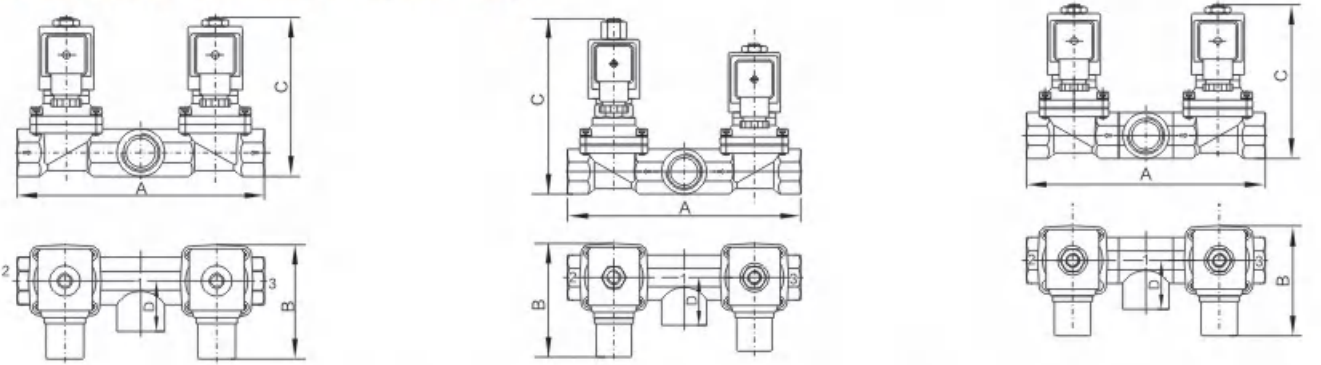
Order code

1.If order 231D solenoid valve, G1/2", A type, AC220V, order code: 231D-15A-AC220V  
2.If order 231D solenoid valve, G3/4", B type, DC24V, ES low power coil, order code: 231D-20B-ES-DC24V



| 231D  | Thread                      | T                                | Control                                                | ES                                      | Voltage                   |
|-------|-----------------------------|----------------------------------|--------------------------------------------------------|-----------------------------------------|---------------------------|
| Model | 15:1/2"<br>20:3/4"<br>25:1" | Blank: G thread<br>T: NPT thread | A:Mixed type<br>B:Commutative type<br>C:Diversion type | Blank: Normal coil<br>ES:Low power coil | AC220V<br>AC110V<br>DC24V |

231D series solenoid valve drawing



A type: 2 inlets 1 outlet ( mixed type )  
(port 2、3 inlet, port 1 outlet)

B type: 1 inlet 1 outlet ( Commutative type )  
(port 1 inlet, port 2 NO port, port 3 outlet)

C type : 1 intlet 2 outlets ( diversion type )  
(port 1 inlet, port 2、3 outlet)

231D series solenoid valve specification table(mm)

| Model    | Orifice | Interface | Cv  | Working pressure (bar) |       | A   | B    | C   | D  | Working type |
|----------|---------|-----------|-----|------------------------|-------|-----|------|-----|----|--------------|
|          |         |           |     | AC220V                 | DC24V |     |      |     |    |              |
| 231D-15A | 15      | 1/2"      | 3.5 | 0~10                   | 0~6   | 149 | 76   | 104 | 30 | A type       |
| 231D-15B | 15      | 1/2"      | 3.5 | 0~6                    | 0~6   | 149 | 82   | 119 | 30 | B type       |
| 231D-15C | 15      | 1/2"      | 3.5 | 0~10                   | 0~6   | 149 | 76   | 104 | 30 | C type       |
| 231D-20A | 20      | 3/4"      | 7.6 | 0~10                   | 0~6   | 171 | 79   | 111 | 35 | A type       |
| 231D-20B | 20      | 3/4"      | 7.6 | 0~6                    | 0~6   | 171 | 84   | 124 | 35 | B type       |
| 231D-20C | 20      | 3/4"      | 7.6 | 0~10                   | 0~6   | 171 | 79   | 111 | 35 | C type       |
| 231D-25A | 25      | 1"        | 12  | 0~10                   | 0~6   | 209 | 87   | 118 | 45 | A type       |
| 231D-25B | 25      | 1"        | 12  | 0~6                    | 0~6   | 209 | 91.5 | 131 | 45 | B type       |
| 231D-25C | 25      | 1"        | 12  | 0~10                   | 0~6   | 209 | 87   | 118 | 45 | C type       |

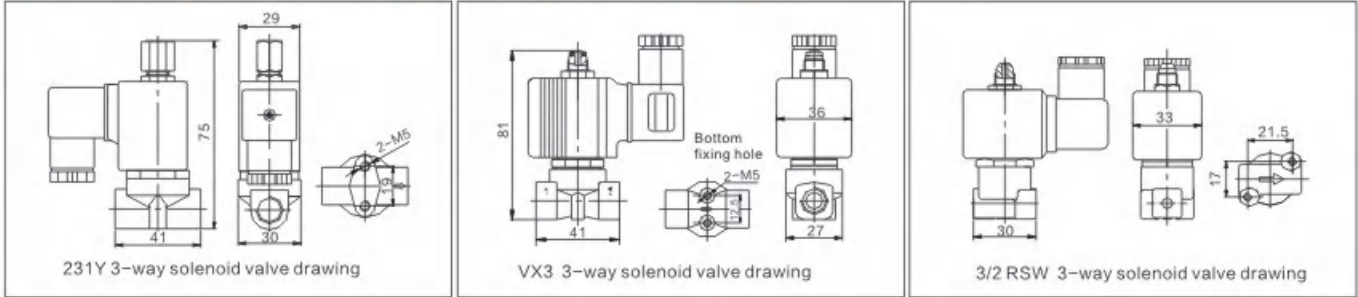
231Y VX3 3/2RSW 3-way solenoid valve



**Working medium:** water, liquid, air  
**Working pressure:** 0~15 bar  
**Valvebody material:** Brass, SS316  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220V, AC110V, AC240V, 50Hz/60Hz, DC24V, IP65, H degree  
**Options:** Rc thread  
**Sealing material:** EPDM (-20~130℃) or NBR (-10~80℃)  
VX3 sealing material VITON

**Medium temperature:** -15~120℃  
**Working type:** 3-way (NC)  
**Sealing material:** VITON(-15~120℃)

231Y VX3 3/2RSW 3-way solenoid valve drawing



231Y VX3 3/2RSW 3-way solenoid valve specification table

| Model        | Orifice size (mm) | Interface size | Cv   | Working pressure (bar) |       | power  |       | Valvebody Material | Note                                                   |
|--------------|-------------------|----------------|------|------------------------|-------|--------|-------|--------------------|--------------------------------------------------------|
|              |                   |                |      | AC220V                 | DC24V | AC220V | DC24V |                    |                                                        |
| 231Y-015-06  | 1.5               | 1/8"           | 0.09 | 0~8                    | 0~8   | 22VA   | 13W   | Brass<br>SS316     | NC                                                     |
| 231Y-015-08  | 1.5               | 1/4"           | 0.09 |                        |       |        |       |                    |                                                        |
| 231Y-030-08  | 3.0               | 1/4"           | 0.4  | 0~6                    | 0~6   | 24VA   | 20W   | Brass、SS316        | NO、NC                                                  |
| VX3-015 (NO) | 1.5               | 1/8"           | 0.09 | 0~15                   | 0~12  | 18VA   | 14W   | Brass<br>SS316     | 1in 3 out, 2 NC<br>AC220 with RAC                      |
|              | 1.5               | 1/4"           | 0.09 |                        |       |        |       |                    |                                                        |
| VX3-015 (NC) | 1.5               | 1/8"           | 0.09 | 0~12                   | 0~12  | 18VA   | 14W   | Brass<br>SS316     | 2 or 1 out, 1 and 3<br>are connected<br>AC220 with RAC |
|              | 1.5               | 1/4"           | 0.09 |                        |       |        |       |                    |                                                        |
| 3/2RSW-015   | 1.5               | 1/8"           | 0.09 | 0~8                    | 0~6   | 13VA   | 10W   | Brass              | NC                                                     |
| 3/2RSW-020   | 2.0               |                | 0.15 | 0~6                    | 0~4   |        |       |                    |                                                        |
| 3/2RSW-025   | 2.5               |                | 0.20 | 0~5                    | 0~3   |        |       |                    |                                                        |

VMI series 3-way direct acting solenoid valve DN1.6~4mm

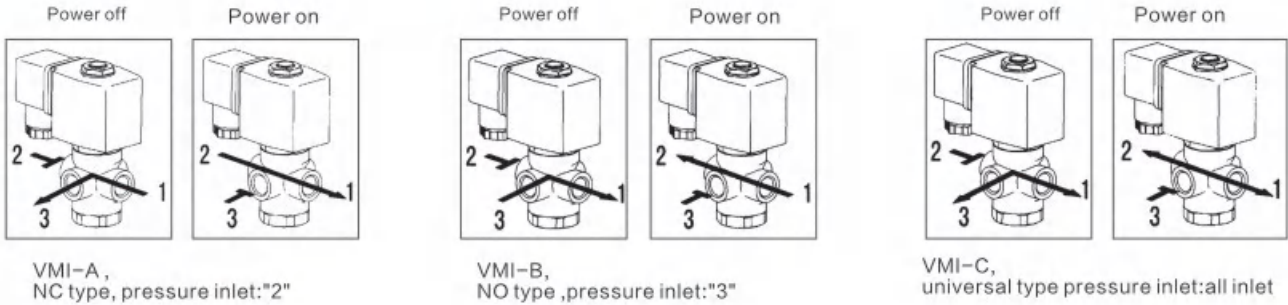


**Working medium:** air  
**Medium temperature:** -15~120℃  
**Working type:** direct acting (VMI-A: NC, VMI-B: NO, VMI: Universal type)  
**Sealing material:** VITON (-15~120℃)  
**Working voltage:** AC220~240V, AC110V, 50/60Hz 16VA, DC24/12V 16W, IP65, H degree  
**Options:** EPDM (-20~130℃) or VITON (-15~120℃)

**Working pressure:** 0~13 bar  
**Valvebody material:** Brass, SS304  
**Interface:** G thread

VMI-A VMI-B solenoid valve specification table

| Model   | Interface size | Orifice size (mm) | Cv   | Length (mm) | Height (mm) | Medium temperature | Working pressure (bar) |      | Note                                                                                                   |
|---------|----------------|-------------------|------|-------------|-------------|--------------------|------------------------|------|--------------------------------------------------------------------------------------------------------|
|         |                |                   |      |             |             |                    | AC                     | DC   |                                                                                                        |
| VMI-016 | 1/4"           | 1.6               | 0.07 | 43          | 96          | -15℃~120℃          | 0~13                   | 0~11 | Valve body material: brass SS304<br>NC type A<br>pressure inlet "2"<br>NO type B<br>pressure inlet "3" |
| VMI-020 |                | 2                 | 0.14 |             |             |                    | 0~11                   | 0~9  |                                                                                                        |
| VMI-025 |                | 2.5               | 0.25 |             |             |                    | 0~9                    | 0~7  |                                                                                                        |
| VMI-030 |                | 3                 | 0.25 |             |             |                    | 0~6                    | 0~4  |                                                                                                        |
| VMI-040 |                | 4                 | 0.35 |             |             |                    | 0~3                    | 0~2  |                                                                                                        |



| Model   | Interface size | Orifice size (mm) | Cv   | Length (mm) | Height (mm) | Medium temperature | Working pressure (bar) |       | Note                                                    |
|---------|----------------|-------------------|------|-------------|-------------|--------------------|------------------------|-------|---------------------------------------------------------|
|         |                |                   |      |             |             |                    | AC                     | DC    |                                                         |
| VMI-016 | 1/4"           | 1.6               | 0.07 | 43          | 96          | -15℃~120℃          | 0~7                    | 0~5   | Valve body material: Brass SS304<br>Pressure inlet: all |
| VMI-020 |                | 2                 | 0.14 |             |             |                    | 0~5                    | 0~4   |                                                         |
| VMI-025 |                | 2.5               | 0.25 |             |             |                    | 0~4                    | 0~3   |                                                         |
| VMI-030 |                | 3                 | 0.25 |             |             |                    | 0~2.5                  | 0~2   |                                                         |
| VMI-040 |                | 4                 | 0.35 |             |             |                    | 0~1.7                  | 0~0.8 |                                                         |

RSC series ( NC ) water dispenser solenoid valve 1/8 " ~1/4 " DN2.5~12mm



RSC-2 RSC-2CB RSC-2L



RSC-8 RSC-10 RSC-12

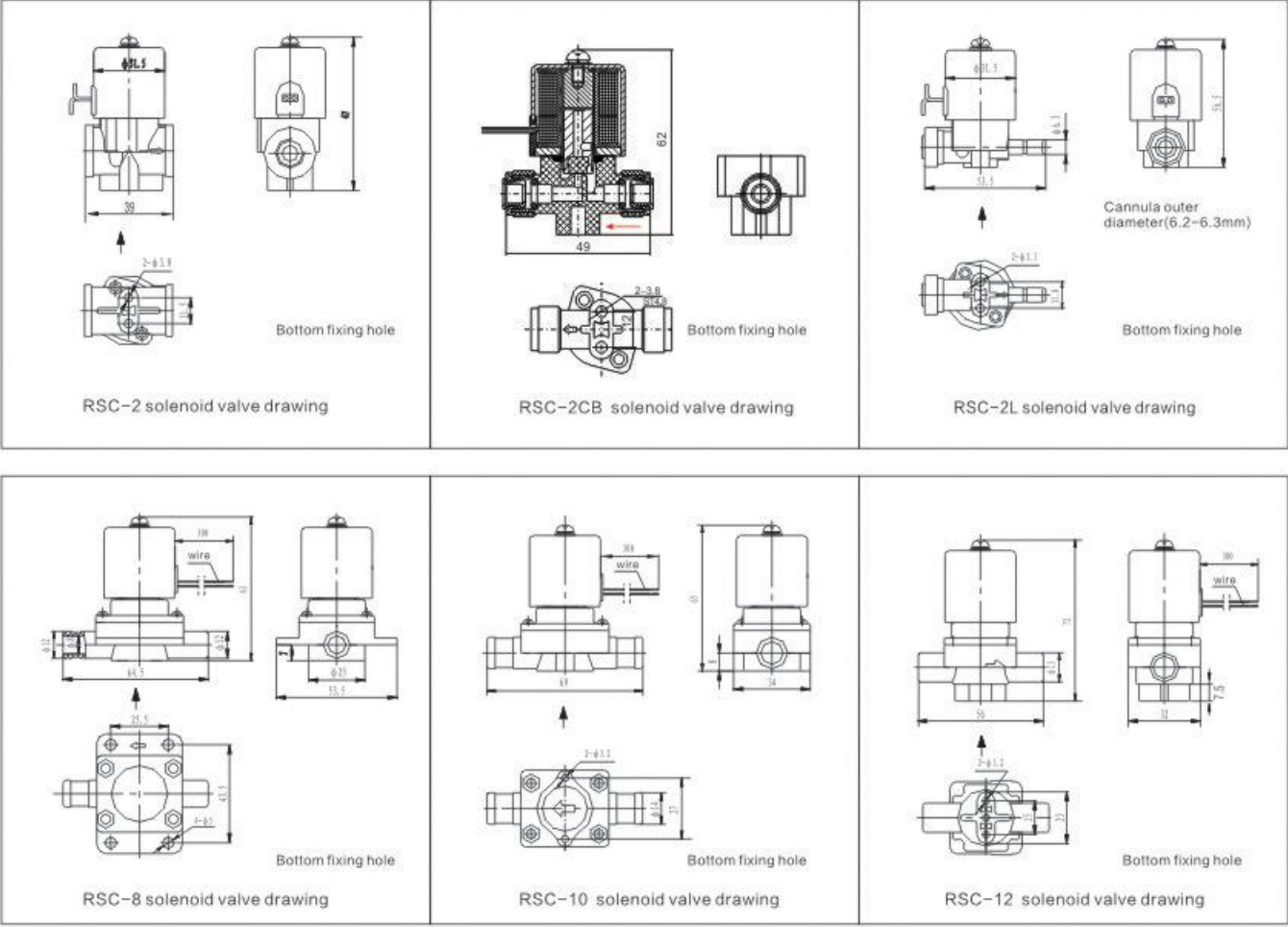
**Working medium:** water, hot water  
**Medium temperature:** 0~100℃  
**Working pressure:** 0~8bar ( see table below )  
**Working type:** RSC-1, RSC-2 direct acting ( NC )  
RSC-8, RSC-10, RSC-12 diaphragm type ( NC )  
**Sealing material:** RSC-1, RSC-2, EPDM ( -10~130℃ ) , VMQ ( -10~130℃ )  
RSC-8, RSC-10, RSC-12, VMQ  
**Valvebody material:** PP, POM  
**Interface:** NPT thread, cannula  
**Working voltage:** AC240V AC220/110V, 50/60Hz, 7VA, DC24/12V 5.5W  
IP54 B degree voltage could be customized

RSC series ( NC ) water dispenser solenoid valve

RSC series solenoid valve specification table

| Model   | Interface | Orifice (mm) | Cv  | Working pressure ( bar ) |       | Power  |       | Material | Weight (Kg) |
|---------|-----------|--------------|-----|--------------------------|-------|--------|-------|----------|-------------|
|         |           |              |     | AC220V                   | DC24V | AC220V | DC24V |          |             |
| RSC-1   | NPT1/8"   | 2.5          | 0.2 | 0~8                      | 0~8   | 7VA    | 5.5W  | PP       | 0.13        |
| RSC-2   | NPT1/4"   | 2.5          | 0.2 | 0~8                      | 0~8   |        |       |          | 0.13        |
| RSC-2CB | Cannula   | 2.5          | 0.2 | 0~8                      | 0~8   |        |       | POM      | 0.13        |
| RSC-2L  | Cannula   | 2.5          | 0.2 | 0~8                      | 0~8   |        |       |          | 0.13        |
| RSC-8   | Cannula   | 8            | 1.3 | 600mmH <sub>2</sub> O    |       |        |       | PP       | 0.14        |
| RSC-10  | Cannula   | 10           | 2.3 |                          |       |        |       |          | 0.14        |
| RSC-12  | Cannula   | 12           | 3.0 |                          |       |        |       |          | 0.13        |

RSC series water dispenser solenoid valve drawing



## UD series 2-way solenoid valve 1/8" ~ 3/8"



**Working medium:** water, liquid, air  
**Medium temperature:** -10~80°C (NBR sealing)  
**Working pressure:** 0~30bar  
**Working type:** direct acting, pilot operated  
**Valvebody material:** Brass, SS304  
**Sealing material:** NBR(-10~80°C)  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220~240V, AC110V, 50/60Hz, 22VA  
 DC24/12V 13W, IP65, H degree  
**Options:**  
 Rc thread, Digital timer, LED light connector  
 Sealing material: EPDM (-20~130°C) or VITON (-15~120°C)  
 ES: Low temp coil  
 Ex: Encapsulated Ex-proof coil

### Order code

| UD    | Thread                        | J                      | N                                                                   | K                | T                              | V                              | Voltage                   |
|-------|-------------------------------|------------------------|---------------------------------------------------------------------|------------------|--------------------------------|--------------------------------|---------------------------|
| Model | 06:1/8"<br>08:1/4"<br>10:3/8" | Blank:Brass<br>J:SS304 | N:Plastic coil<br>ES:low temp coil<br>Ex:Encapsulated Ex-proof coil | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread | Blank:NBR<br>V:VITON<br>E:EPDM | AC220V<br>AC110V<br>DC24V |

### UD series solenoid valve specification table

| Model     | Interface | Orifice<br>(mm) | Cv   | Working pressure ( bar ) |       |        |        | Dimension       | Valvebody<br>material | Weight<br>( Kg ) |
|-----------|-----------|-----------------|------|--------------------------|-------|--------|--------|-----------------|-----------------------|------------------|
|           |           |                 |      | NC                       |       | NO     |        | L×W×H<br>( mm ) |                       |                  |
|           |           |                 |      | AC220V                   | DC24V | AC220V | DC24V  |                 |                       |                  |
| UD-015-06 | 1/8"      | 1.5             | 0.1  | 0~30                     | 0~20  | 0~8    | 0~8    | Φ36×75          | SS304                 | 0.4              |
| UD-020-08 | 1/4"      | 2.0             | 0.2  | 0~20                     | 0~15  | 0~8    | 0~8    | Φ36×75          |                       | 0.4              |
| UD-035-10 | 3/8"      | 3.5             | 0.25 | 0~10                     | 0~8   | 0~3    | 0~3    | Φ45×81          |                       | 0.5              |
| UD-C-10N  | 3/8"      | 10              | 3.2  | 0.3~10                   | 0.3~5 | 0.1~13 | 0.1~13 | 45×31×86        | brass、SS              | 0.4              |

## VX2 YSV YSV-K-series 2-way direct acting solenoid valve 1/8" ~ 1/2"



**Working medium:** water, liquid, air, light oil (viscosity≤20cst)  
**Working pressure:** 0~15bar  
**Valvebody material:** Brass, SS316  
**Interface:** G thread, NPT thread  
**Working voltage:**  
 NC: AC220V /AC110V 50/60Hz, 18VA, DC24V 14W, Junction box with rectifier diode  
 NO: AC220V /AC110V 50/60Hz, 22VA, DC24V 13W, IP65, H degree  
**Options:** Digital timer, LED light connector  
**Medium temperature:** -15~120°C (VITON sealing)  
**Working type:** direct acting (NC, NO)  
**Sealing material:** NC: VITON  
 NO: Options VITON, NBR, EPDM

### Order code

| YSV   | Orifice                                    | Thread                                   | J                      | K                | T                              | Voltage                            |
|-------|--------------------------------------------|------------------------------------------|------------------------|------------------|--------------------------------|------------------------------------|
| Model | 025:2.5mm<br>030:3mm<br>040:4mm<br>050:5mm | 06:1/8"<br>08:1/4"<br>10:3/8"<br>15:1/2" | Blank:Brass<br>J:SS316 | Blank:NC<br>K:NO | Blank:G thread<br>T:NPT thread | AC220V<br>AC110V<br>DC24V<br>DC12V |

|             |             |               |
|-------------|-------------|---------------|
| Vx2 drawing | YSV drawing | YSV-K drawing |
|-------------|-------------|---------------|

| Model       | Orifice (mm) | Interface    | Cv   | working pressure (bar) |       | dimension<br>A×B×C (mm) | Body material  | weight (Kg) |
|-------------|--------------|--------------|------|------------------------|-------|-------------------------|----------------|-------------|
|             |              |              |      | AC220                  | DC24V |                         |                |             |
| VX2-015-08  | 1.5          | 1/8" or 1/4" | 0.06 | 0~30                   | 0~30  | 41×27×81                | Brass or SS316 | 0.36        |
| VX2-020-08  | 2.0          |              | 0.12 | 0~25                   | 0~20  | 41×27×81                |                | 0.36        |
| VX2-025-08  | 2.5          |              | 0.20 | 0~25                   | 0~16  | 41×27×81                |                | 0.36        |
| VX2-030-08  | 3.0          |              | 0.25 | 0~16                   | 0~12  | 41×27×81                |                | 0.36        |
| VX2-040-08  | 4.0          | 3/8"         | 0.30 | 0~12                   | 0~10  | 41×27×81                | Brass          | 0.36        |
| YSV-040-10  | 4            |              | 0.30 | 0~15                   | 0~12  | 50×25×82                |                | 0.47        |
| YSV-050-10  | 5            |              | 0.50 | 0~6                    | 0~6   | 50×25×82                |                | 0.47        |
| YSV-040-15  | 4            |              | 0.30 | 0~15                   | 0~12  | 50×28×85                |                | 0.50        |
| YSV-050-15  | 5            | 1/2"         | 0.40 | 0~6                    | 0~6   | 50×28×85                |                | 0.50        |
| YSV-060-15  | 6            |              | 0.70 | 0~3                    | 0~3   | 50×28×85                |                | 0.50        |
| YSV-040-10K | 4            | 3/8"         | 0.30 | 0~3                    | 0~3   | 50×25×84                |                | 0.45        |

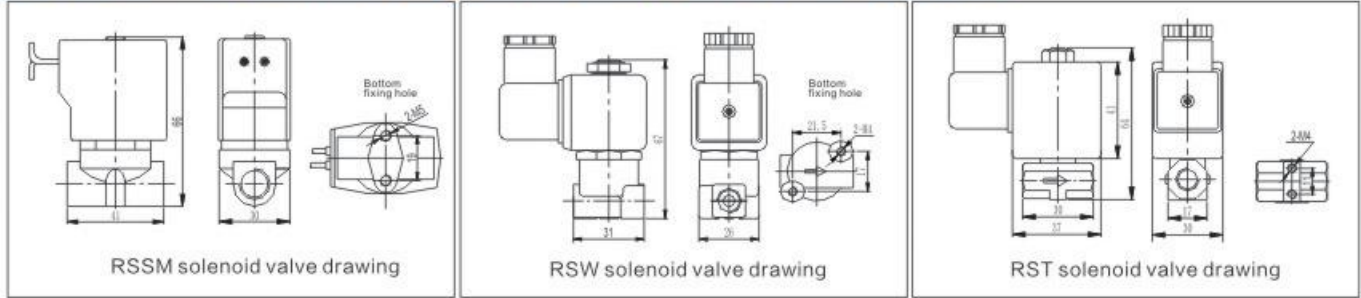
RSSM RSW RST series 2-way direct acting solenoid valve 1/8 " ~ 1/4 "



**Working medium:** water, liquid, air  
**Working pressure:** 0 ~ 12bar  
**Valvebody material:** Brass SS316  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220 ~ 240V, AC110V, 50Hz/60Hz, DC24/12V, IP65, F degree  
**Options:**  
**Sealing material:** VITON (-10 ~ 120°C), EPDM (-10 ~ 130°C)

**Medium temperature:** -10 ~ 80°C(NBR sealing)  
**Working type:** direct acting (NC)  
**Sealing material:** NBR(-10 ~ 80°C)

RSSM RSW RST series 2-way direct acting solenoid valve drawing



RSSM RSW RST series 2-way direct acting solenoid valve specification table

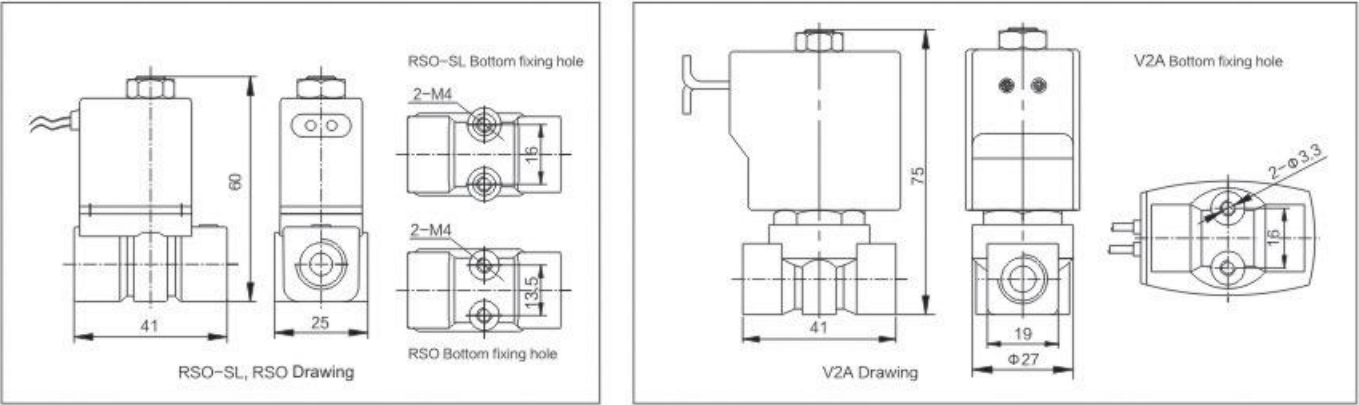
| Model       | Orifice size (mm) | Interface size | Cv   | Working pressure (bar) |        | Power  |       | Valvebody Material | Weight (kg) |
|-------------|-------------------|----------------|------|------------------------|--------|--------|-------|--------------------|-------------|
|             |                   |                |      | AC220V                 | DC24V  | AC220V | DC24V |                    |             |
| RSSM-020-06 | 2                 | 1/8"           | 0.12 | 0 ~ 10                 | 0 ~ 8  | 10VA   | 8W    | Brass SS316        | 0.3         |
| RSSM-030-08 | 3                 | 1/4"           | 0.20 | 0 ~ 8                  | 0 ~ 7  |        |       |                    |             |
| RSSM-040-08 | 4                 | 1/4"           | 0.3  | 0 ~ 6                  | 0 ~ 5  | 13VA   | 10W   | Brass              | 0.26        |
| RSW-015-06  | 1.5               | 1/8"           | 0.06 | 0 ~ 15                 | 0 ~ 12 |        |       |                    |             |
| RSW-020-06  | 2.0               |                | 0.12 | 0 ~ 10                 | 0 ~ 8  |        |       |                    |             |
| RSW-025-06  | 2.5               |                | 0.20 | 0 ~ 8                  | 0 ~ 6  |        |       |                    |             |
| RSW-030-06  | 3.0               |                | 0.25 | 0 ~ 6                  | 0 ~ 5  |        |       |                    |             |
| RST-015-08  | 1.5               | 1/4"           | 0.06 | 0 ~ 20                 | 0 ~ 15 | 15VA   | 12W   | Brass              | 0.23        |
| RST-020-08  | 2.0               |                | 0.12 | 0 ~ 12                 | 0 ~ 10 |        |       |                    |             |
| RST-025-08  | 2.5               |                | 0.20 | 0 ~ 10                 | 0 ~ 6  |        |       |                    |             |
| RST-030-08  | 3.0               |                | 0.25 | 0 ~ 8                  | 0 ~ 3  |        |       |                    |             |
| RST-040-08  | 4.0               |                | 0.3  | 0 ~ 6                  | 0 ~ 2  |        |       |                    |             |

RSO-SL RSO V2A series 2-way mini solenoid valve 1/8 " ~ 1/4 "



**Working medium:** water, liquid, air  
**Medium temperature:** -10 ~ 80°C(NBR sealing)  
**Working pressure:** 0 ~ 8bar  
**Working type:** direct acting(NC)  
**Valvebody material:** Brass, PP, PA66(details see specification table)  
**Sealing material:** NBR  
**Interface:** G thread, NPT thread  
**Working voltage:** AC220 ~ 240V, AC110V, 50/60Hz, DC24V, DC12V, IP65, F degree

RSO-SL RSO V2A series solenoid valve drawing



RSO-SL RSO V2A series solenoid valve specification table

| Model  | Orifice size (mm) | Interface size | Cv  | Working pressure (bar) |       | Power  |       | Valvebody material | Weight (Kg) |
|--------|-------------------|----------------|-----|------------------------|-------|--------|-------|--------------------|-------------|
|        |                   |                |     | AC220V                 | DC24V | AC220V | DC24V |                    |             |
| RSO-SL | 2.5               | 1/8" 1/4"      | 0.2 | 0 ~ 8                  | 0 ~ 8 | 7VA    | 6W    | PP (black)         | 0.12        |
| RSO    | 2.5               | 1/8" 1/4"      | 0.2 | 0 ~ 8                  | 0 ~ 8 | 7VA    | 6W    | brass              | 0.2         |
| V2A    | 3                 | 1/4"           | 0.4 | 0 ~ 10                 | 0 ~ 8 | 10VA   | 8W    | PA66 (black)       | 0.2         |

231S 231W YSL-028 plate type miniature solenoid valve



231S 3-way solenoid valve      231W 3-way solenoid valve NC      YSL-028 2-way solenoid valve NC

**Working medium:** water, liquid, air  
**Medium temperature:** -10~120℃  
**Working type:** direct acting  
**Sealing material:** VITON  
**Working voltage:** AC220~240V, AC110V, 50/60Hz; DC24/12V, IP65, H degree

**Working pressure:** 0~20 bar  
**Valvebody material:** forged brass  
**Connection:** bolts connection

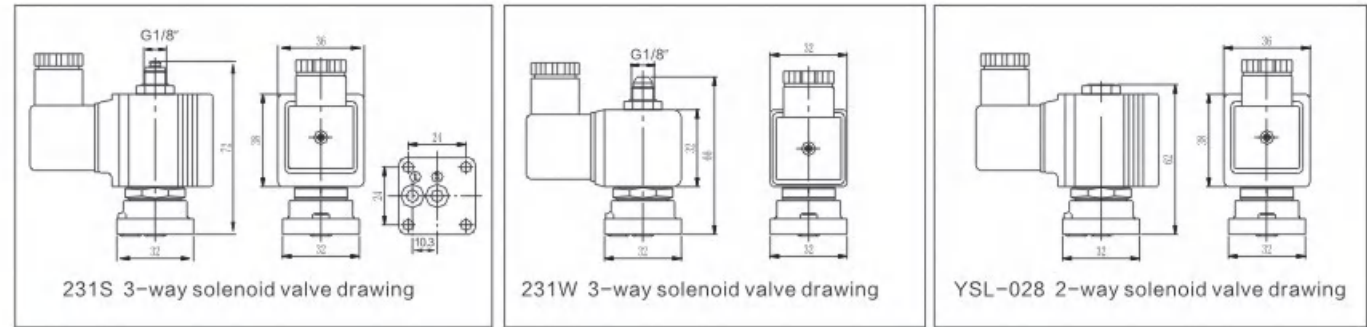


Plate type mini solenoid valve drawing

| Model     | Interface size    | Orifice size (mm) | Cv   | Working pressure (bar) |       | power  |       | Weight (kg) | Note                                                      |
|-----------|-------------------|-------------------|------|------------------------|-------|--------|-------|-------------|-----------------------------------------------------------|
|           |                   |                   |      | AC220V                 | DC24V | AC220V | DC24V |             |                                                           |
| 231S (NO) | Plate series 1/8" | 1.5               | 0.06 | 0~15                   | 0~12  | 22VA   | 14W   | 0.35        | 1 in 3 out, 2 is NC, AC voltage is RAC connector          |
| 231S (NC) | Plate series 1/8" | 1.5               | 0.06 | 0~12                   | 0~12  | 22VA   | 14W   | 0.35        | 2 in, 2 is NC 1 and 3 through AC voltage is RAC connector |
|           |                   | 2.0               | 0.12 | 0~10                   | 0~10  |        |       |             |                                                           |
| 231W(NC)  | Plate series 1/8" | 1.5               | 0.06 | 0~8                    | 0~6   | 13VA   | 10W   | 0.23        | NC type, port2 always inlet port, normal type             |
|           |                   | 2.0               | 0.12 | 0~6                    | 0~4   |        |       |             |                                                           |
| YSL-028   | Plate series      | 1.5               | 0.06 | 0~30                   | 0~20  | 22VA   | 14W   | 0.34        | two-way NC type                                           |
|           |                   | 2.0               | 0.12 | 0~25                   | 0~16  |        |       |             |                                                           |

YSF series electric iron, coffee machine direct acting solenoid valve



YSF-024      YSF-024J      YSF-025      YSF-025J      YSF-027

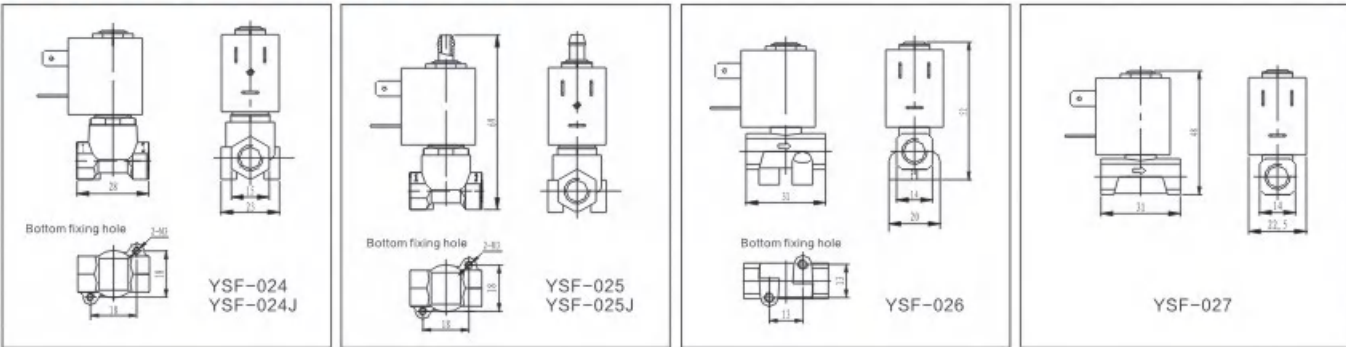
**Working medium:** water, liquid, air, steam  
**Medium temperature:** -10~120℃  
**Valve body material:** Brass SS316  
**Working voltage:** AC220V, 110V 50/60Hz, 13VA, DC24V 8W, DC12V 6.5W, IP65, H degree  
**Interface thread:** G thread NPT thread

**Working pressure:** 0~10bar ( see table below )  
**Working type:** direct acting ( NC, YSF-025 is 3-way NO )  
**Sealing material:** VITON (medium temperature -10~120℃ )  
**Options:** DIN43650B connector, LED light connector

YSF series solenoid valve specification table

| Model               | Interface | Orifice (mm) | Cv   | Working pressure(bar) |       |                  |       | Valvebody material   | Note                       | weight (Kg) |
|---------------------|-----------|--------------|------|-----------------------|-------|------------------|-------|----------------------|----------------------------|-------------|
|                     |           |              |      | Steam                 |       | Liquid,air,water |       |                      |                            |             |
|                     |           |              |      | AC220V                | DC24V | AC220V           | DC24V |                      |                            |             |
| YSF-024<br>YSF-024J | G 1/8 "   | 1.5          | 0.09 | 0~6                   | 0~6   | 0~10             | 0~10  | Brass<br>or<br>SS316 | 2-way NC                   | 0.13        |
|                     |           | 2.0          | 0.20 | 0~6                   | 0~6   | 0~8              | 0~8   |                      |                            |             |
|                     |           | 2.5          | 0.25 | 0~3                   | 0~3   | 0~5              | 0~5   |                      |                            |             |
| YSF-025<br>YSF-025J | G1/8 "    | 1.5          | 0.09 | 0~6                   | 0~6   | 0~10             | 0~10  | Brass<br>or<br>SS316 | 3-way NO<br>"1" in "3" out | 0.13        |
|                     |           | 2.0          | 0.20 | 0~6                   | 0~6   | 0~8              | 0~8   |                      |                            |             |
|                     |           | 2.5          | 0.25 | 0~3                   | 0~3   | 0~5              | 0~5   |                      |                            |             |
| YSF-026             | G1/8 "    | 2.0          | 0.20 | 0~6                   | 0~6   | 0~8              | 0~8   | brass                | 2-way NC                   | 0.13        |
| YSF-027             |           | 2.0          | 0.20 | 0~6                   | 0~6   | 0~8              | 0~8   |                      |                            | 0.12        |

YSF series solenoid valve drawing



## YS Series Digital Timer

### Specification parameter table

|                     |                  |
|---------------------|------------------|
| Product model       | YS-720           |
| Working voltage     | 24V~240V AC/DC   |
| Working temperature | -10℃~70℃         |
| The switch capacity | 1A               |
| Protection grade    | IP65             |
| Open time           | 0.5~10 seconds   |
| Closing time        | 0.5 min ~ 45 min |
| Connection method   | DIN43650A        |



### Specification parameter table

|                      |                                                |                 |
|----------------------|------------------------------------------------|-----------------|
| Product model        | YS-790L                                        | YS-790H         |
| Working voltage      | 7V~36V AC/DC                                   | 110V~240V AC/DC |
| Working temperature  | -10℃~70℃                                       |                 |
| The switch capacity  | 1.5A max                                       |                 |
| Protection grade     | IP65                                           |                 |
| Time setting         | open: 0.1~99 s close: 0.5~99 min               |                 |
| Circulation patterns | First open then close or first close then open |                 |
| Connection method    | DIN43650A                                      |                 |



### Specification parameter table

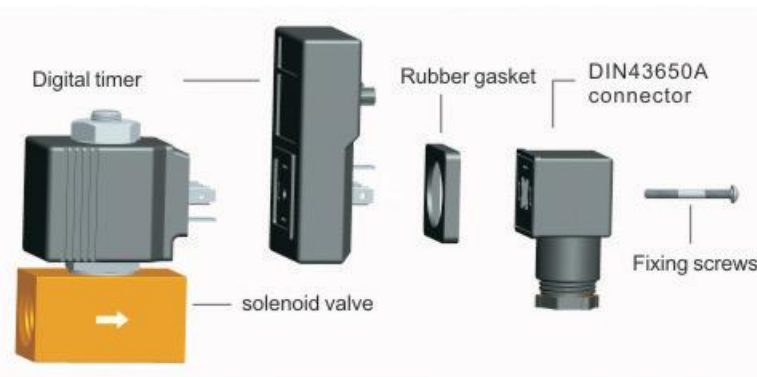
|                      |                                                |                 |
|----------------------|------------------------------------------------|-----------------|
| Product model        | YS-3800L                                       | YS-3800H        |
| Working voltage      | 7V~36V AC/DC                                   | 110V~240V AC/DC |
| Working temperature  | -10℃~50℃                                       |                 |
| The switch capacity  | 1A                                             |                 |
| Protection grade     | IP65                                           |                 |
| Open time            | 1 sec-99 h 59 min 59 sec Two-way adjustable    |                 |
| Circulation patterns | First open then close or first close then open |                 |
| Singel mode          | Specify a time to open                         |                 |
| Connection method    | DIN43650A                                      |                 |



### Digital timer assembly



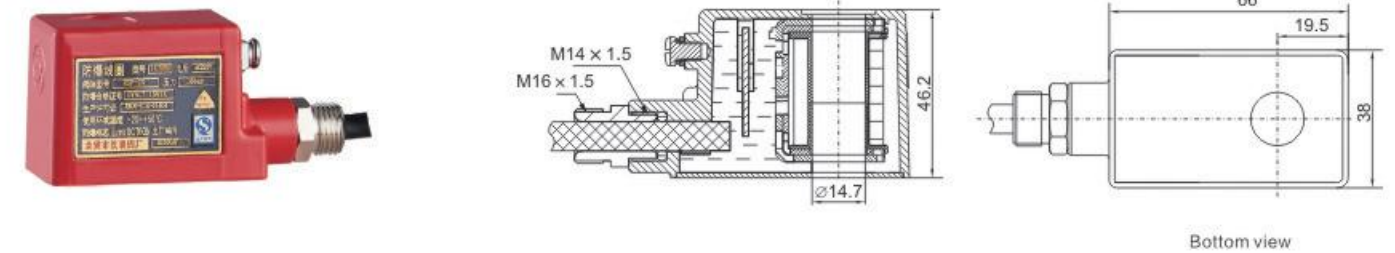
### Digital timer and solenoid valve assembly exploded view



## Encapsulation type low temperature explosion-proof coil

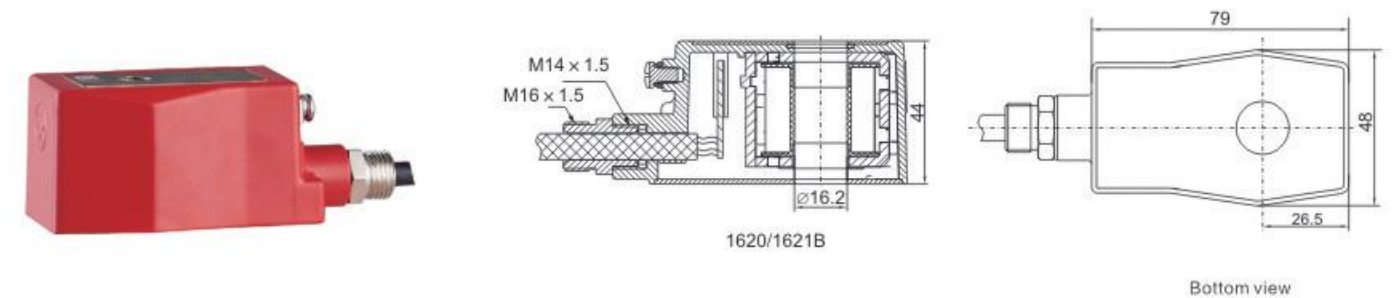
Obtained a design patent: EU patent No.003866250-0001, Chinese patent number No.201730165626.2, No.201720504647.7  
 Certificate of conformity: GYB17.1593 3C certificate number: 2020322307000072  
 Explosion-proof degree: Ex mb IIC T6 Gb Connection method: Cable connection, length 1.5M

### Model: AC: 14.521 AEx DC:14.520AEx



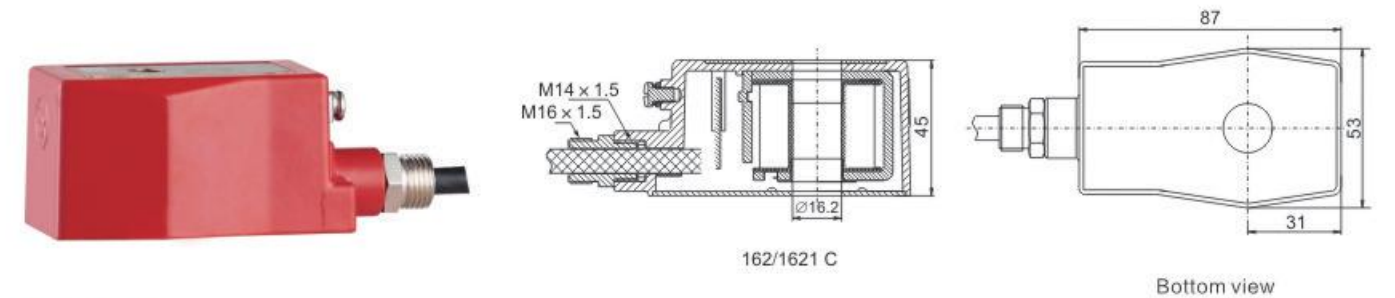
**Main feature:** Low temperature rise ( $\leq 40^{\circ}\text{C}$ ), energy saving, explosion-proof  
**Working Voltage:** AC220V, AC110V, AC24V, DC24V, DC12V  
**Holding power:** AC220/110V 5VA, AC24V 6VA, DC24V 4W, DC12V 3W  
**Starting power:** AC220V 56VA, AC110V 60VA, AC24V 20VA, DC24V 40W, DC12V 30W

### Model : AC: 1621 BEx DC:1620BEx



**Main feature:** Low temperature rise ( $\leq 40^{\circ}\text{C}$ ), energy saving, explosion-proof  
**Working Voltage:** AC220V, AC110V, AC24V, DC24V, DC12V  
**Holding power:** AC220V 7VA, AC110V 9VA, AC24V 5VA, DC24V 5W, DC12V 3W  
**Starting power:** AC220V 90VA, AC110V 100VA, AC24V 25VA, DC24V 55W, DC12V 38W

### Model : AC: 1621 CEx DC:1620CEx

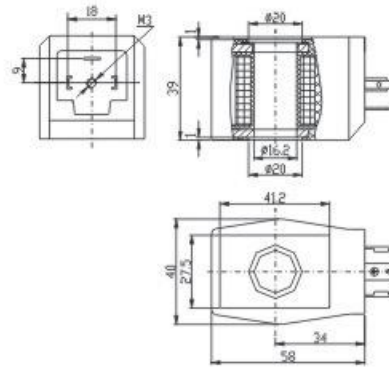


**Main feature:** Low temperature rise ( $\leq 40^{\circ}\text{C}$ ), energy saving, explosion-proof  
**Working Voltage:** AC220V, AC110V, AC24V, DC24V, DC12V  
**Holding power:** AC220V 8VA, AC110V 9VA, AC24V 7VA, DC24V 8W, DC12V 4W  
**Starting power:** AC220V 92VA, AC110V 100VA, AC24V 30VA, DC24V 55W, DC12V 45W

## ES series low power energy saving coil, hole diameter: $\phi 14.5\text{mm}, \phi 16\text{mm}$

Main feature: Low power and low temperature rise ( $\leq 40^\circ\text{C}$ ), high attraction, environmental protection and energy saving. Solenoid valve uses fluid temperature  $-10\sim 80^\circ\text{C}$ .

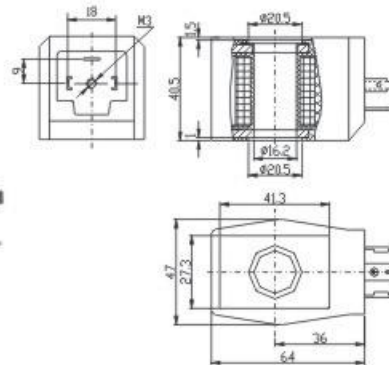
### Model: ES01-410A/B



| Common voltage: AC220/110V 50/60 Hz, DC24V/12V |               |          |           |               |          |
|------------------------------------------------|---------------|----------|-----------|---------------|----------|
| ES01-410A                                      |               |          | ES01-410B |               |          |
| Voltage                                        | Power(AC50Hz) |          | Voltage   | Power(AC50Hz) |          |
|                                                | Start up      | maintain |           | Start up      | maintain |
| AC220V                                         | 64VA          | 4VA      | AC220V    | 89VA          | 5VA      |
| AC110V                                         | 80VA          | 6VA      | AC110V    | 102VA         | 8VA      |
| DC24V                                          | 37W           | 4W       | DC24V     | 38W           | 6W       |

Waterproof level IP65, Insulation class: H, DIN43650A

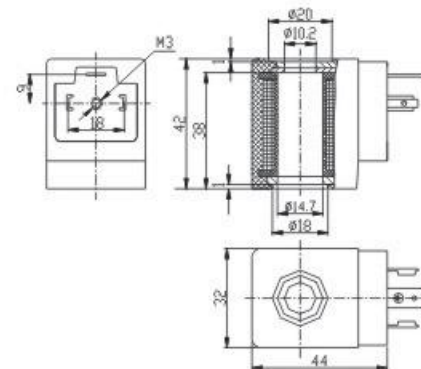
### Model: ES03-510A/B



| Common voltage: AC220/110V 50/60 Hz, DC24V/12V |               |          |           |               |          |
|------------------------------------------------|---------------|----------|-----------|---------------|----------|
| ES03-510A                                      |               |          | ES03-510B |               |          |
| Voltage                                        | Power(AC50Hz) |          | Voltage   | Power(AC50Hz) |          |
|                                                | Start up      | maintain |           | Start up      | maintain |
| AC220V                                         |               |          | AC220V    | 154VA         | 8VA      |
| AC110V                                         |               |          | AC110V    | 85VA          | 8VA      |
| DC24V                                          |               |          | DC24V     | 50W           | 7W       |

Waterproof level IP65, Insulation class: H, DIN43650A

### Model: ES04-310A/B

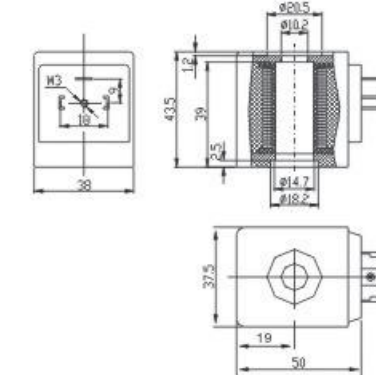


| Common voltage: AC220/110V 50/60 Hz, DC24V/12V |                |          |           |                |          |
|------------------------------------------------|----------------|----------|-----------|----------------|----------|
| ES04-310A                                      |                |          | ES04-310B |                |          |
| Voltage                                        | Power(AC 50Hz) |          | Voltage   | Power(AC 50Hz) |          |
|                                                | Start up       | maintain |           | Start up       | maintain |
| AC220V                                         | 38VA           | 3VA      | AC220V    | 130VA          | 6VA      |
| AC110V                                         | 45VA           | 3VA      | AC110V    | 95VA           | 6VA      |
| DC24V                                          | 16W            | 3W       | DC24V     | 24W            | 4W       |

Waterproof level IP65, Insulation class: H, DIN43650A

## ES series low power energy saving coil, hole diameter: $\phi 14.5\text{mm}, \phi 20\text{mm}$

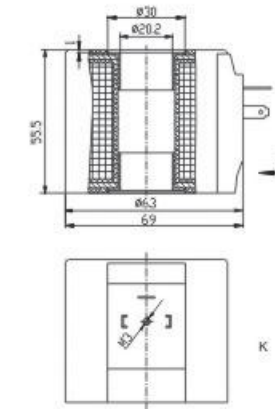
### Model: ES05-450A/B



| Common voltage: AC220/110V 50/60 Hz, DC24V/12V |               |          |           |               |          |
|------------------------------------------------|---------------|----------|-----------|---------------|----------|
| ES05-450A                                      |               |          | ES05-450B |               |          |
| Voltage                                        | Power(AC50Hz) |          | Voltage   | Power(AC50Hz) |          |
|                                                | Start up      | maintain |           | Start up      | maintain |
| AC220V                                         | 80VA          | 4VA      | AC220V    | 155VA         | 8VA      |
| AC110V                                         | 69VA          | 5VA      | AC110V    | 95VA          | 9VA      |
| DC24V                                          | 28W           | 4W       | DC24V     | 44W           | 6W       |

Waterproof level IP65, Insulation class: H, DIN43650A

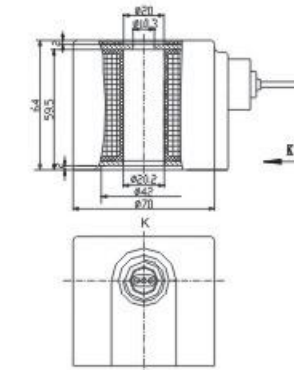
### Model: ES09-210



| Common voltage: AC220/110V 50/60 Hz, DC24V/12V |              |          |          |          |
|------------------------------------------------|--------------|----------|----------|----------|
| Voltage                                        | Power        |          |          |          |
|                                                | 50/60Hz (VA) |          | DC(W)    |          |
|                                                | Start up     | maintain | Start up | maintain |
| AC220V                                         | 170          | 9        |          |          |
| AC110V                                         | 82           | 7        |          |          |
| DC24V                                          |              |          | 75       | 8        |

Waterproof level IP65, Insulation class: H, DIN43650A

### Model: ES07-710

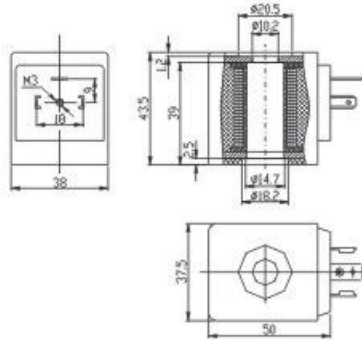


| Common voltage: AC220/110V 50/60 Hz, DC24V/12V |              |          |          |          |
|------------------------------------------------|--------------|----------|----------|----------|
| Voltage                                        | Power        |          |          |          |
|                                                | 50/60Hz (VA) |          | DC(W)    |          |
|                                                | Start up     | maintain | Start up | maintain |
| AC220V                                         | 120          | 8        |          |          |
| AC110V                                         | 90           | 8        |          |          |
| DC24V                                          |              |          | 75       | 8        |

Waterproof level IP65, Insulation class: H, DIN43650A

## UL certified: D05-450 series, certification number: MH64017

### Model: D05-450

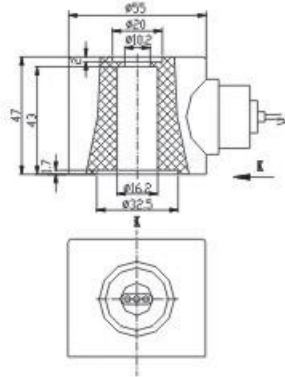


D05-4501 AC220V 50/60Hz 23VA  
 D05-4501A AC240V 50/60Hz 21VA  
 D05-4502 AC110V 50/60Hz 22VA  
 D05-4502A AC120V 50/60Hz 21VA  
 D05-4504 AC24V 50/60Hz 21VA  
 D05-4506 DC24V 18W  
 D05-4507 DC12V 18W  
 D05-45010 DC36V 17W  
 Waterproof level IP65, Insulation class: H  
 Connection type: DIN43650A

## Normal thermoset plastic coil, hole diameter: $\Phi 16\text{mm}$ , $\Phi 20\text{mm}$

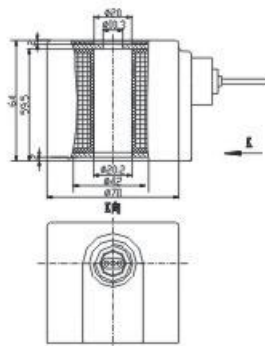
Suitable for water, liquid, gas, and other solenoid valves, Can also be used for steam solenoid valves,  
 fluid temperatures  $\leq 180^\circ\text{C}$

### Model: Z01/02



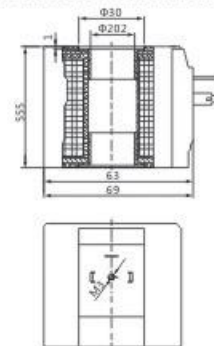
Common voltage: AC220V/110V 50/60Hz, DC24V/12V  
 Power:  
 Z01: AC220V 20VA, AC110V 17VA, DC24V 20W  
 Z02: AC220V 23VA, AC110V 21VA, DC24V 28W  
 Waterproof level IP65, Insulation class: H  
 Connection type: Wire lead

### Model: Z03



Common voltage: AC220/110V 50/60Hz, DC24V/12V  
 Power: AC220V 50Hz 48VA AC110V 50Hz 50VA  
 DC24V 42W  
 Waterproof level IP65, Insulation class: H  
 Connection type: Wire lead

### Model: D09-210

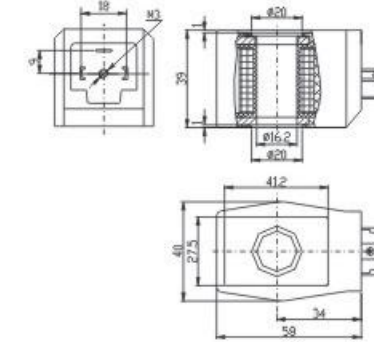


Common voltage: AC220/110V 50/60Hz, DC24V/12V  
 Power: AC220V 50Hz 30VA, AC110V 50Hz 36VA  
 DC24V 38W  
 Waterproof level IP65, Insulation class: H  
 Connection type: DIN43650A

## Normal thermoset plastic coil, hole diameter: $\Phi 14.5\text{mm}$ , $\Phi 16\text{mm}$

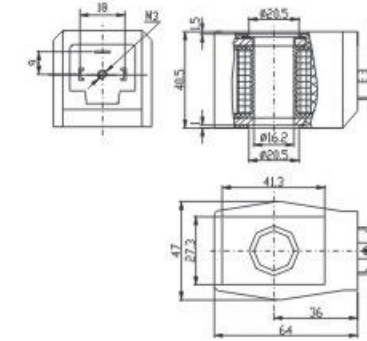
Suitable for water, liquid, gas, and other solenoid valves, Can also be used for steam solenoid valves,  
 fluid temperatures  $\leq 180^\circ\text{C}$

### Model: D01-410



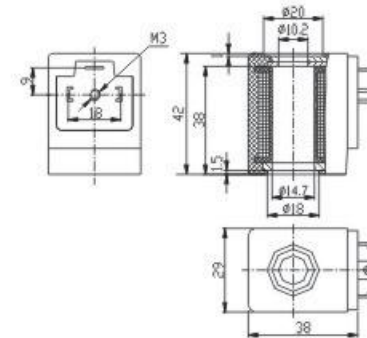
Common voltage: AC220/110V 50/60 Hz, DC24V/12V  
 Power: AC220V / AC110V 50Hz 20VA, DC24V 20W  
 Waterproof level IP65  
 Insulation class: H  
 Connection type: DIN43650A

### Model: D03-510



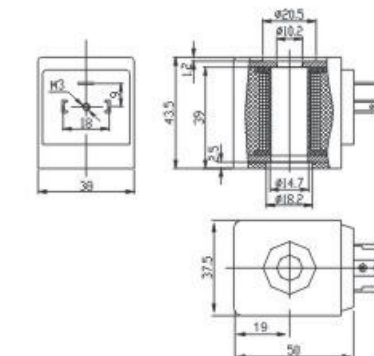
Common voltage: AC220/110V 50/60 Hz, DC24V/12V  
 Power: AC220V/AC110V 50Hz 40VA, DC24V 32W  
 Waterproof level IP65  
 Insulation class: H  
 Connection type: DIN43650A

### Model: D04-310



Common voltage: AC220/110V 50/60 Hz, DC24V/12V  
 Power: AC220V/AC110V 50Hz 22VA, DC24V 13W  
 Waterproof level IP65  
 Insulation class: H  
 Connection type: DIN43650A

### Model: D05-450



Common voltage: AC220/110V 50/60 Hz, DC24V/12V  
 Power: AC220V/AC110V 50Hz 24VA, DC24V 20W  
 Waterproof level IP65  
 Insulation class: H  
 Connection type: DIN43650A