



Fluid Automatic Control Solenoid Valve
 water.air.steam. light oil. Heavy oil. gas.vacuum.Corrosive fluid, etc



Fluid Automatic Control Solenoid Valve

water.air.steam. light oil. Heavy oil. gas.vacuum.Corrosive fluid, etc



© copy right reserved.

2015.05.1009



● Company Profile	02
● Solenoid Valve Profile	04
Product Introduction	05
Product Features	05
Electric apparatus Features	06
Cautions	07
Piping construction Indication	07
Rubber ,Plastic Feature & Indication	08
Rubber ,Plastic Feature & Indication table(1)	09
Rubber ,Plastic Feature & Indication table(2)	10
Coil Matching Table	11
Coil Size Table	12
● Solenoid Valve- Normally Closed Type	13
UD-6~15	14
US-6~10	15
UA-8~10	16
UAO-8~15	17
USS-15	18
UPS-15~25	19
UG-10~50	20
UV-10~50	21
UW-10~50	22
UWF-10~50	23
UAW-15~50	24
US-15~50	25
USF-15~50	26
UDC-8~25	27
UDC-8-TF~25-TF	28
SUS-6~10	29
SUW-15~50	30
SUWF-15~50	31
SUS-15~50	32
SUSF-15~50	33
SUW-80F	34
SUS-80F	35
UW-35F~100F	36
US-35F~100F	37
● Normally Closed Type-Optional Items	39
Direct-Acting type Diagram	40
Multiplex, Pilot Operated Diaphragm Diagram	40
Multiplex, Pilot Operated Piston Diagram	41
Direct-Multiplex, Pilot Operated Piston Diagram	42
Direct-Multiplex, Connected Diaphragm Diagram	42
● Solenoid Valve- Normally Open Type	43
UD-6NO~10NO	44
UW-10NO~50NO	45
UPS-15NO~25NO	46
SUS-6NO~10NO	47
SUW-15NO~50NO	48
SUS-15NO~50NO	49
SUW-80FNO	50
SUS-80FNO	51
UW-35F-NO~100F-NO	52
US-35F-NO~100F-NO	53
● Normally Open Type-Optional Items	54
Multiplex, Pilot Operated Piston Diagram	56
Multiplex, Pilot Operated Diaphragm Diagram	56
Direct-Acting type Diagram	57
Direct-Multiplex, Connected Diaphragm Diagram	57
● Solenoid Valve-Explosion Proof Series	58
Solenoid Coil system 13 ATEX	60
SKS-15~25	61
SKW-15~25	62
PKS-15~25	63
PKW-10~50	64
● Flow Rate Table	65
Flow Rate Table (1)	66
Flow Rate Table (2)	67
Flow Rate Table (3)	68



Solenoid Valve Profile



- Product Introduction
- Product Features
- Electric apparatus Features
- Cautions
- Rubber ,Plastic Feature & Indication
- Rubber ,Plastic Feature & Indication table(1)
- Rubber ,Plastic Feature & Indication table(2)
- Piping construction Indication
- Coil Matching Table
- Coil Size Table

Product Introduction

Solenoid Valve is a device that uses electromagnetic force to drive the core and to operate the valves. Before electrifying, the valve stays closed/open, and when electrified, the electromagnetic force will drive the core to make it open/ close. The solenoid valve is known for its fast operation movement, simple valve body structure, easy-operating and it's used mainly for cutting off, turning on or switching the flow direction automatically.

We offer 2 port 2 way, 3 port 2 way normally closed / normally open solenoid valve, with screwed end, flanged, wide optional specification range, pipe diameter from 1/8 " to 4 ", explosion-proof solenoid valve , as for material: forged brass, cast bronze, cast iron, stainless steel, PVC and Teflon(PTFE) valve, wide fluid media range such as: water, air, steam, gas, vacuum, light oil, heavy oil, acid/Alkaline-based fluid, etc.

Product Features

- Voltage Application :
 - AC110V(50/60)Hz
 - AC220V(50/60)Hz
 - DC24V
 - Other voltage such as DC12V \ AC380V etc
- Operation Type :
 - N/O-Normally Open
 - N/C-Normally Closed
- Coil Type :
 - Iron shell mold flying lead coil(standard coil)
 - Waterproof flying lead coil
 - Waterproof DIN coil
 - NASS waterproof DIN coil (IP65)
 - NASS explosion-proof coil(IP67)
- Pipe Thread Type :
 - BSPT(PT)(standard)
 - BSPP(PF)
 - NPT
- Flanged Type :
 - JIS 10K(standard)
 - ANSI-150LB
 - JIS-20K
 - DIN-PN16
- Valve Material :
 - Forged brass, Cast bronze
 - Iron
 - Stainless steel
 - PVC
 - Teflon(PTFE)

Electric apparatus Features

Please make sure the power supply is correct and the current must be greater than the current value ,see below table for reference.

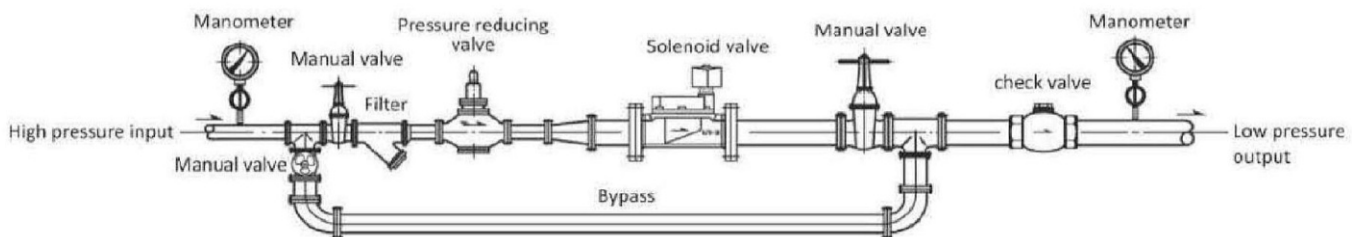
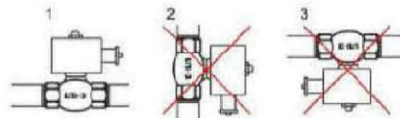
Item	Power supply(V)	Current(A)	Item	Power supply(V)	Current(A)
UAW-15~50 US-15~50	DC24V	1.14	SUW-15NO~25NO UW-10NO~25NO UG-10NO~25NO UV-10NO~25NO	DC24V	1.15
	AC110V	0.44		AC110V	0.64
	AC220V	0.33		AC220V	0.65
UW-35~50 SUW-35~50	DC24V	1.13	UDC-20~25(TF) SUW-80F NO SUS-80F NO	DC24V	1.15
	AC110V	0.19		AC110V	0.64
	AC220V	0.1		AC220V	0.65
UW-10~25 UG-10~25 UV-10~25 UPS-10~25 SUW-10~25 SUS-10~50 UW-35F~100F US-35F~100F	DC24V	0.95	UW-35NO~50NO SUW-35NO~50NO	DC24V	1.05
	AC110V	0.19		AC110V	0.41
	AC220V	0.1		AC220V	0.25
UD-10(H) US-10 UA-10 SUS-10 UDC-8~15(TF) UAO-8~15	DC24V	0.75	UD-10NO UPS-15NO~25NO SUS-15NO~50NO UW-35F NO~100F NO US-35F NO~100F NO	DC24V	1.05
	AC110V	0.19		AC110V	0.27
	AC220V	0.1		AC220V	0.14
UD-6~8(H) UA-8 US-6~8 SUS-6~8	DC24V	0.66	UD-6NO~8NO US-6NO~8NO SUS-6NO~8NO	DC24V	0.74
	AC110V	0.11		AC110V	0.19
	AC220V	0.06		AC220V	0.15
SUW-80F SUS-80F	DC24V	1.14	USS-15	DC24V	0.8
	AC110V	0.53		AC110V	0.69
	AC220V	0.3		AC220V	0.11
UD-10(8mm) UD-15	DC24V	1.15			
	AC110V	0.69			
	AC220V	0.19			

Cautions

- Kindly make sure the voltage, fluid, temperature and operating pressure of solenoid valves that match your inquiry before purchase and installation.
- Before installation, the pipe line must be cleaned of impurities .
- In order to extend the service life of the solenoid valve, Y line filter should be installed in the front end of the solenoid valve.
- Solenoid valves are not suitable to long time use especial DC voltage coil. It will get heat and cause the operating abnormal.
- Before wiring or checking, be sure to turn the power off to avoid danger
- Please avoid facing up to the outlet hole when using the DIN plug coils, and indeed tighten it to prevent dust or rain water infiltration
- Non-explosion-proof products not cannot be installed in hazardous areas (Example: explosive gas) as well as perfect vacuum environment
- Water hammer may occur under certain pressure and the influence of the fluid, to avoid that, installing water hammer absorber is recommended. Or make sure the output pressure can be released to avoid the water hammer.

Piping installation instruction

Solenoid valves are not available for installing inversely or vertically, the pipe must be horizontal in order to avoid any mechanical problems.



EXAMPLE FOR INSTALLATION

Rubber ,Plastic Feature & Indication

Generic Name	Names	Features
NBR -5°C~80°C	Nitrile rubber	Oil resistance and abrasion resistance, often apply to seal materials, particularly resistant to mineral oil for the best. * Not suitable for using in polar solvents, such as ketones, ozone, nitro hydrocarbons, MEK and chloroform.
EPDM -5°C~130°C	Ethylene propylene rubber	Resistance to polar solvents (alcohols, ketones, ethylene glycol) of hydrochloric acid. With good ozone resistance, excellent water resistance and chemical resistance. * Not recommended for aromatic hydrogen.
Silicone -5°C~130°C	Silicone rubber	Excellent ozone ,oxides corrosion, and neutral solvent resistance * Not recommended for most concentrated solvents, oils, concentrated acid and dilution sodium hydroxide
VITON (FKM) (FPM) -5°C~130°C	Fluorocarbon rubber	Premium chemical resistance and higher price are the two characteristics, can be resistant to most oils and solvents * Not recommended for ketones, esters and mixtures containing nitrate
PTFE -5°C~185°C	Polytetrafluoroethylene	Able to withstand all the strong acid(including aqua regia) , strong oxidants, reducing agents and various organic solvents except alkali metal fluoride, sodium hydroxide medium It is better than rubber almost in all physical properties except elasticity and it has the characteristics of a low coefficient friction
	Teflon	

*Please follow the recommended solenoid valve temperatures

Rubber ,Plastic Feature & Indication table(1)

Stability for various oil and solvent to rubber&plastic

Oil, solvents	Rubber types	NBR	SILICONE	EPDM	VITON	PTFE
Engine oil	SAE#30	⊙	⊙	×	⊙	⊙
	SAE 10w-#30	⊙	○	×	⊙	⊙
Gear oil	For Vehicles	⊙	△	×	○	⊙
	Industrial second type (polarity) synthesis	⊙	△	△	○	⊙
Automation and control systems						
Brake oil	DOT3(ethanol)	△	○	○	×	⊙
	DOT5(ethanol)	△	○	○	×	⊙
	DOT5(Silicon-based)	⊙	×	×	⊙	⊙
Second type turbine oil						
Machine oil (the 2nd axis lubricants)		○	×	×	⊙	⊙
Hydraulic operating oil (mineral oil-based)		⊙	△	×	⊙	⊙
Flame retardant hydraulic oil	Phosphate ester	×	⊙	×	△	⊙
	Water + diethanol Department	○	△	×	△	⊙
Consumers cut oil		△	⊙	×	⊙	⊙
Lubricating oil	Mineral oil-based	⊙	⊙	×	⊙	⊙
	Silicon-based	⊙	×	○	⊙	⊙
	Fluorine	⊙	⊙	×	×	⊙
Refrigerant	R12+Paraffinic	△	×	×	×	⊙
	R134a+Glycol	△	×	⊙	×	⊙
Gasoline, diesel oil		△	×	×	⊙	⊙
Light oil, kerosene		△	×	×	⊙	⊙
Heavy oil		△	×	×	⊙	⊙
Antifreeze (in ene glycol system)		○	△	⊙	×	⊙
Warm water		⊙	⊙	⊙	○	⊙
Sea water		△	×	⊙	○	⊙
Steam		×	○	⊙	△	⊙
Hydrochloric acid solution		△	○	⊙	○	⊙
30% Sulfuric acid solution		×	×	○	△	⊙
10% Nitric acid solution		×	×	○	△	⊙
40% Sodium hydroxide solution		△	×	⊙	×	⊙
Benzene		×	×	×	×	⊙
Alcohol		△	○	⊙	○	⊙
Butanone		×	△	×	×	⊙

⊙:Outstanding ○: Resistant, unless otherwise specified △:Have no resistance ,Unless otherwise specified ×:Have no resistance

Rubber ,Plastic Feature & Indication table(2)

Stability for various Chemical liquid to rubber&plastic

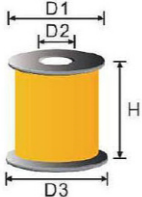
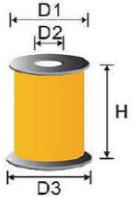
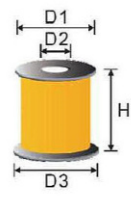
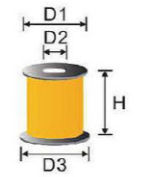

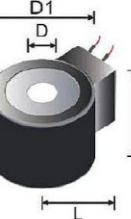
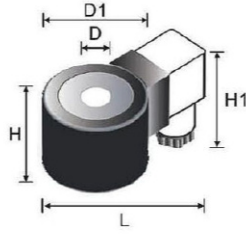
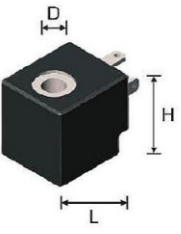
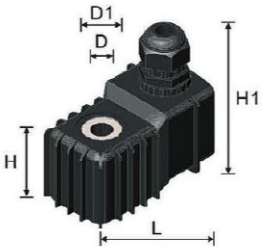
Oil, solvents	Rubber types	NBR	SILICONE	EPDM	VITON	PTFE
	Steam(150°C)	×	○	⊙	△	⊙
Organic acids	Acetic acid	△	⊙	⊙	○	⊙
Inorganic acid	Hydrochloric acid solution	△	⊙	⊙	○	⊙
	Sulfuric acid solution		○	⊙	⊙	⊙
	Nitric acid solution	×	○	○	△	⊙
Alkalies	Sodium hydroxide	△	○	⊙	○	⊙
	Ammonium hydroxide	△	⊙	⊙	○	⊙
Salt	Sodium chloride	△	⊙	⊙	⊙	⊙
	Sodium carbonate	△	⊙	⊙	○	⊙
Oxidizing agent	Sydrogen peroxide	△	⊙	○	⊙	⊙
	Sodium hypochlorite	×	○	○	⊙	⊙
Aliphatic carbohydrates	Trimethylpentane	△	×	×	⊙	⊙
Aromatic carbohydrates	Methylbenzene	△	△	×	⊙	⊙
Chlorination of carbohydrates	Trichloro ethylene	△	×	×	⊙	⊙
Alcohols	Methyl alcohol	△	⊙	⊙	△	⊙
	Ethyl alcohol	△	⊙	⊙	⊙	⊙
Ethers	Diethyl ether	△	×	△	×	⊙
Esters	Ethyl acetate	×	×	○	△	⊙
Ketone	Chloromethyl ethyl ketone	×	×	⊙	×	⊙
Aldehydes	Furfuraldehyde	△	×	⊙	×	⊙
Amine	Triethanolamine	△	×	⊙	×	⊙
	Carbon disulfide	△	-	×	⊙	⊙

⊙:Outstanding ○: Resistant, unless otherwise specified △:have no resistance ,Unless otherwise specified ×:have no resistance

Coil Matching Table

Type	L Type	S Type	S Type water-proof coils
Applicable items	USS-15 UD-15 UD-10(8mm)	UA-8 UD-6~8(H) UD-6 NO~8 NO SUS-6 NO~8NO	UA-8 US-6~8 SUS-6~8 UD-6~8(H)
Type	M Type	M Type waterproof coil (flying lead)	DIN 43650 waterproof coil
Applicable items	UA-10 US-10 UD-10(H) (NO) SUS-10 UAO-8~15 UDC-8~15(TF) UW(F)-10~50(NO) UV-10~50 UG-10~50 SUW(F)-10~50(NO) UPS(F)-15(NO)~25(NO) SUS(F)-15(NO)~50(NO) UW-35F~100F(NO) US-35F~100F(NO)	UA-10 US-10 UD-10(H) (NO) SUS-10 UAO-8~15 UDC-8~15(TF) UW(F)-10~50(NO) UV-10~50 UG-10~50 SUW(F)-10~50(NO) UPS(F)-15(NO)~25(NO) SUS(F)-15(NO)~50(NO) UW-35F~100F(NO) US-35F~100F(NO)	UA-10 US-10 UD-10(H) (NO) SUS-10 UAO-8~15 UDC-8~15(TF) UW(F)-10~50(NO) UV-10~50 UG-10~50 SUW(F)-10~50(NO) UPS(F)-15(NO)~25(NO) SUS(F)-15(NO)~50(NO) UW-35F~100F(NO) US-35F~100F(NO)
Type	XL Type	NASS DIN 43650 waterproof coil	
Applicable items	UAW-15~50 US-15~50 UDC(TF)-20~25 SUW-80F(NO) SUS-80F(NO)	UD-10 SUS-10 UW(F)-10~25 UG-10~25 UV-10~25 SUW(F)-10~25 UPS(F)-10~25 SUS(F)-15~50 NW-35~50	
Type	NASS(Ⓔ II 2 G Ex e mb IIC T4 Gb) NASS Explosion-proof Coils		NASS(EEx mII T4) NASS Explosion-proof Coils
Applicable items	PKS-15~25 SKS-15~25 PKW-10~50 SKW-15~25		PKS-15~25 SKS-15~25 PKW-10~50 SKW-15~25

Coil Size Matching Table

Category	XL Type				L Type				M Type			
Dimension (mm)												
	D1	D2	D3	H	D1	D2	D3	H	D1	D2	D3	H
	Ø60.7	Ø23	Ø63.2	53.1	Ø42.3	Ø16.6	Ø44.4	42.1	Ø42.5	Ø16.5	Ø44.4	34.4
Category	S Type				S Type waterproof coil			M Type waterproof coil				
Dimension (mm)												
	D1	D2	D3	H	D	L	H	D	D1	L	H	
	Ø37.3	Ø14.2	Ø37.5	29.2	Ø14.1	50.5	32.4	Ø16.3	Ø56	69.3	38.2	
Category	NASS DIN 43650 waterproof coil					NASS DIN 43650 waterproof coil						
Dimension (mm)												
	D	D1	L	H	H1	D	L	H				
	Ø16.3	Ø56	97	38.2	52	Ø14.8	57	42.3				
Category	NASS(⊕)II 2 G Ex e mb IIC T4 Gb)Explosion-proof Coil											
Dimension (mm)												
	D	D1	L	H	H1							
	Ø10.0	Ø14.8	82.3	45.2	92							

Solenoid Valve- Normally Closed Type

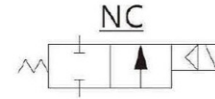
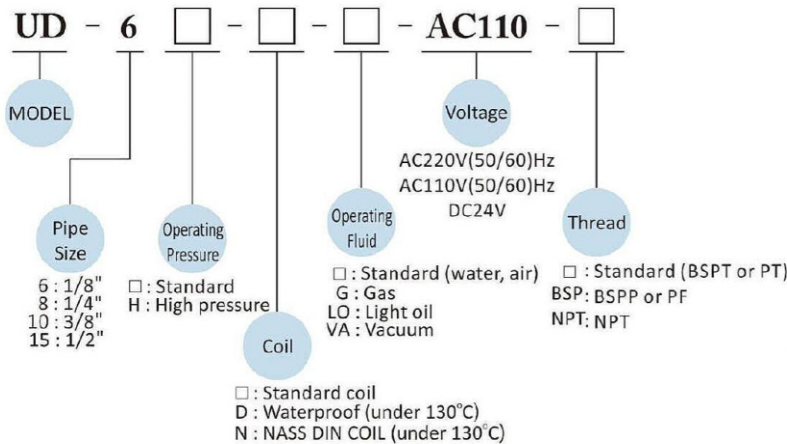
UD Series



- UD-6~15
- US-6~10
- UA-8~10
- UAO-8~15
- USS-15
- UPS-15~25
- UG-10~50
- UV-10~50
- UW-10~50
- UWF-10~50
- UAW-15~50
- US-15~50
- USF-15~50
- UDC-8~25
- UDC-8-TF~25-TF
- SUS-6~10
- SUW-15~50
- SUWF-15~50
- SUS-15~50
- SUSF-15~50
- SUW-80F
- SUS-80F
- UW-35F~100F
- US-35F~100F

UD-6~15

UD Series



PRODUCT DESCRIPTION

- UD series is direct-acting, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: water, air, light oil, gas, vacuum
- Acceptable for customization: Viton (130°C), Silicone (130°C) and EPDM (130°C)

CAUTIONS:

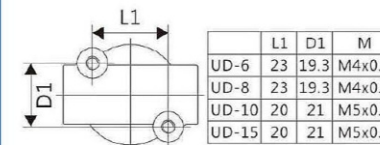
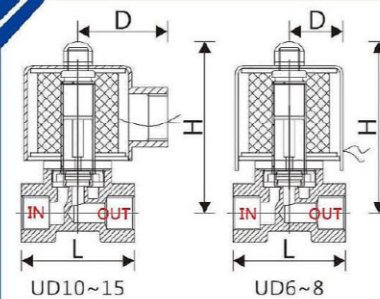
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

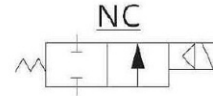
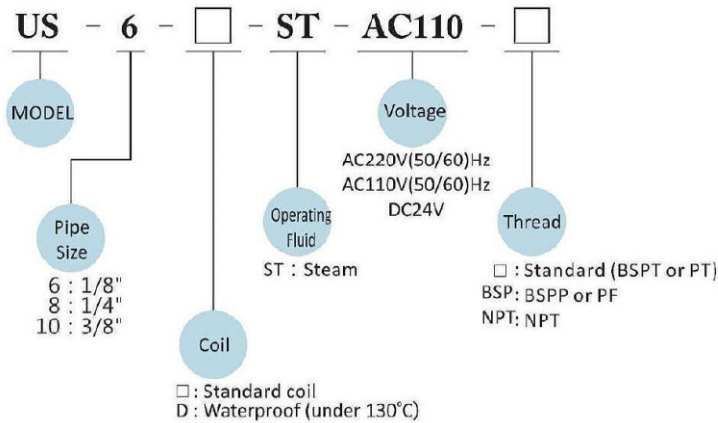
PARTS	Coil	Tube	Spring	Core	Plug	O-ring	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR (Viton, Silicone)	NBR	Forged Brass



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UD-6	●		1/8"	0.23	2.5mm	-5°C ~ +80°C	0~7	0~7		0~7	0~7	0~10 ⁻³	41	66	21.5	0.32
UD-8	●		1/4"	0.23	2.5mm	-5°C ~ +80°C	0~7	0~7		0~7	0~7	0~10 ⁻³	41	66	21.5	0.31
UD-8	●		1/4"	0.58	4mm	-5°C ~ +80°C	0~3	0~3		0~3	0~3	0~10 ⁻³	41	66	21.5	0.31
UD-8			1/4"	0.79	6mm	-5°C ~ +80°C	0~1	0~1		0~1	0~1	0~10 ⁻³	41	66	21.5	0.31
UD-8H			1/4"	0.18	1.2mm	-5°C ~ +130°C	0~20	0~20		0~20	0~20	0~10 ⁻³	41	66	21.5	0.31
UD-10	●	●	3/8"	0.58	4mm	-5°C ~ +80°C	0~10	0~10		0~10	0~10	0~10 ⁻³	53	75	48	0.53
UD-10			3/8"	0.79	8mm	-5°C ~ +80°C	0~3	0~3		0~3	0~3	0~10 ⁻³	53	90	48	0.65
UD-10H	●		3/8"	0.45	2mm	-5°C ~ +130°C	0~20	0~20		0~20	0~20	0~10 ⁻³	53	75	48	0.54
UD-15			1/2"	0.58	8mm	-5°C ~ +80°C	0~3	0~5		0~3	0~5	0~10 ⁻³	53	90	48	0.64

US-6~10



UD Series

PRODUCT DESCRIPTION

- US series is direct-acting, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Material PTFE is suitable for steam.

CAUTIONS:

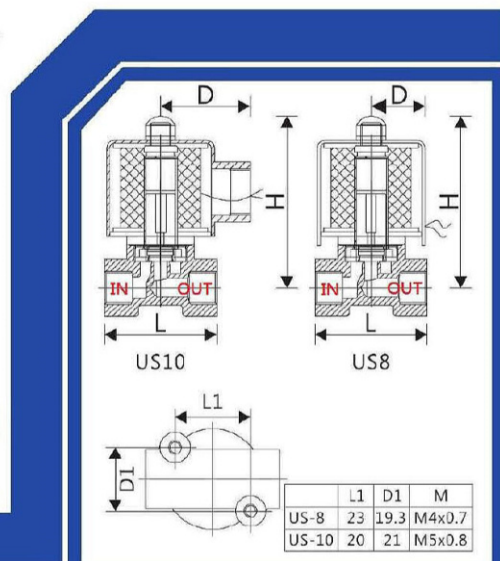
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- The temperature of steam should not over 185°C
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 50cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	O-ring	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	PTFE	Forged Brass

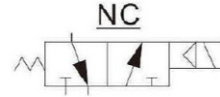
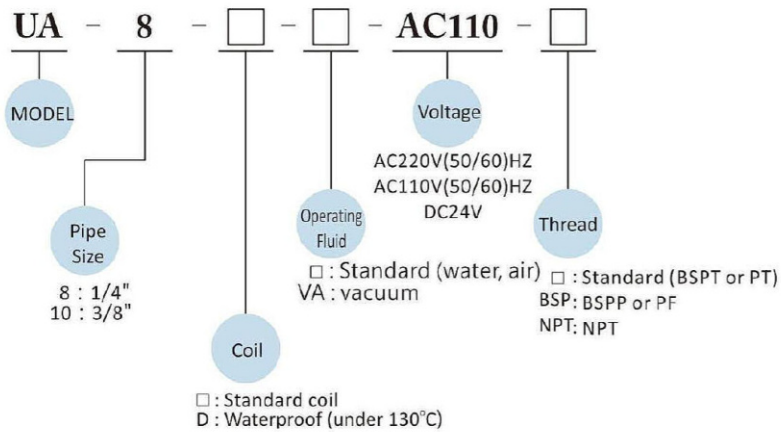


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
US-6	●		1/8"	0.23	2.5mm	-5°C ~ +185°C			0~7	0~7			41	66	21.5	0.32
US-8	●		1/4"	0.23	2.5mm	-5°C ~ +185°C			0~7	0~7			41	66	21.5	0.32
US-10	●		3/8"	0.23	4.0mm	-5°C ~ +185°C			0~10	0~10			53	75	48	0.54

UA-8~10

UD Series



PRODUCT DESCRIPTION

- UA series is direct-acting, conductive, and normally closed (NC) 3/2 way solenoid valve.
- Availability of fluid type: water, air, vacuum
- Able to be operated directly without pressure
- Applicable for exhausting facility, ex: Air cylinder after power-off
- Acceptable for customization- Viton (130°C) plug

CAUTIONS:

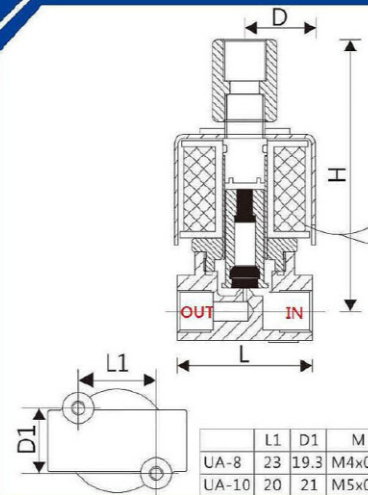
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

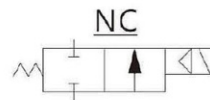
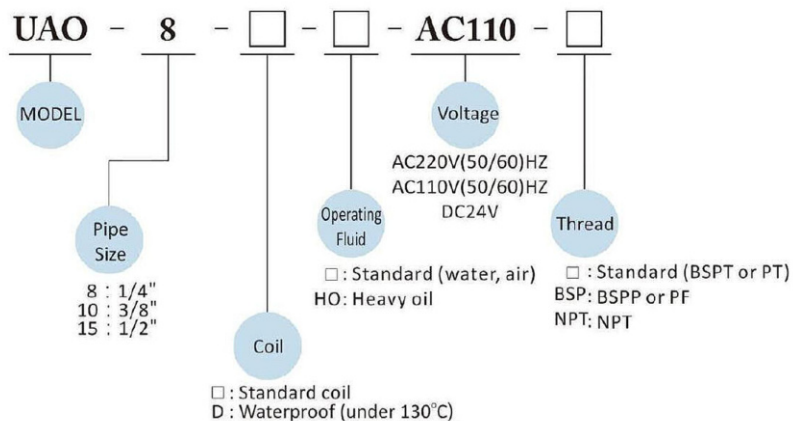
PARTS	Coil	Tube	Spring	Core	Plug	O-ring	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR (Viton, Silicone, PTFE)	NBR (PTFE)	Forged Brass



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UA-8			1/4"	0.1	1.2mm	-5°C ~ +80°C	0~10	0~10				0~10 ⁻³	41	87	21.5	0.38
UA-10	●		3/8"	0.12	1.5mm	-5°C ~ +80°C	0~10	0~10				0~10 ⁻³	53	93	48	0.57

UAO-8~15



UD Series

PRODUCT DESCRIPTION

- UAO series is multiplex, pilot operated piston, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, heavy oil
- Specially suitable for frequent operation
- Applicable for sand blasting equipment and high-pressured air and oil injection system.

CAUTIONS:

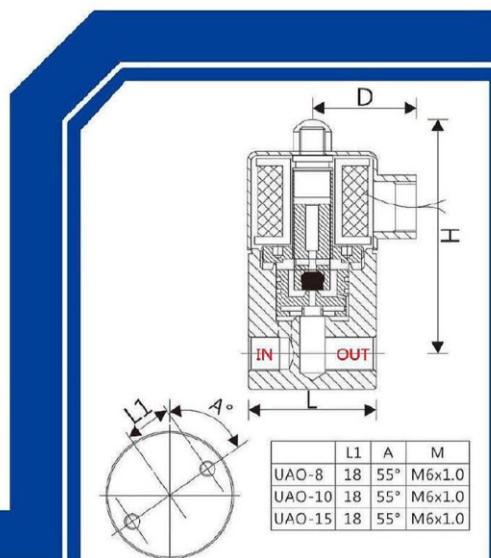
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 50cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR VITON	Brass	NBR	Brass

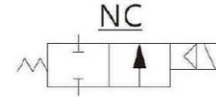
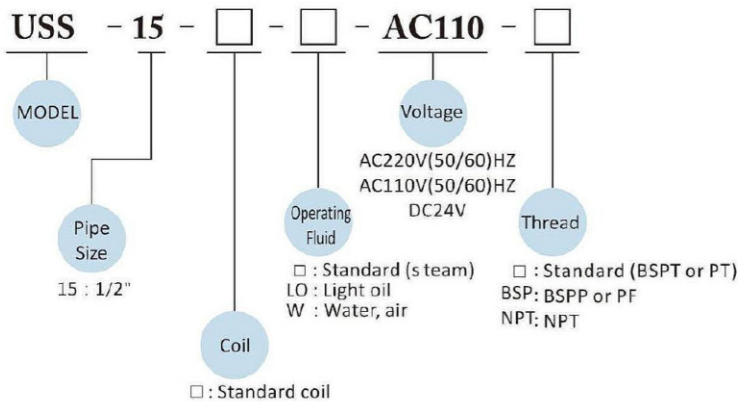


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
UAO-8	●		1/4"	2.5	10mm	-5°C ~ +80°C	0.5~15	0.5~15		0.5~15		50	95	48	1.13
UAO-10	●		3/8"	2.5	10mm	-5°C ~ +80°C	0.5~15	0.5~15		0.5~15		50	95	48	1.1
UAO-15	●		1/2"	2.5	10mm	-5°C ~ +80°C	0.5~15	0.5~15		0.5~15		54	100	48	1.23

USS-15

UD Series



PRODUCT DESCRIPTION

- USS series is direct-acting, pilot operated piston, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Specially suitable for frequent operation
- Availability of fluid type: water, air, steam, light oil

CAUTIONS:

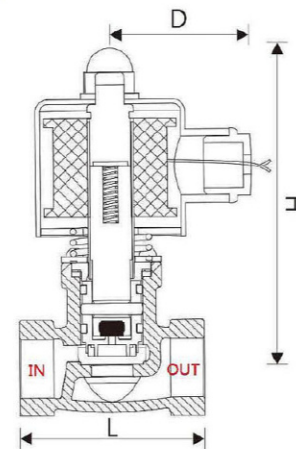
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- The temperature of steam should not over 185°C
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 50cst

MATERIAL:

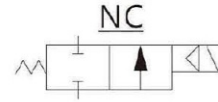
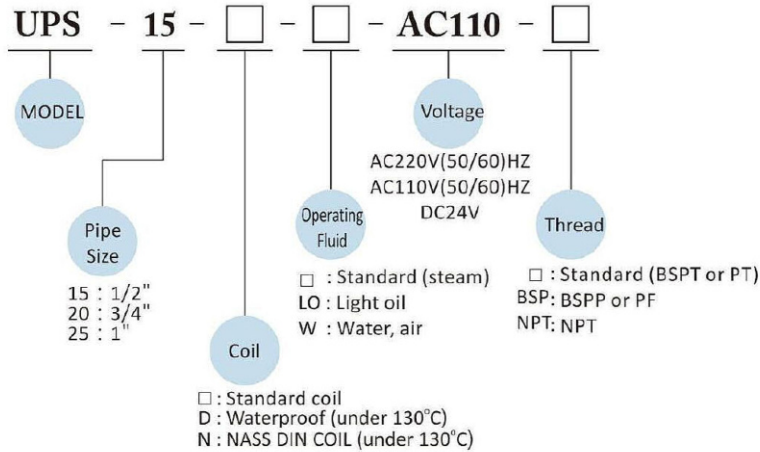
PARTS	Coil	Tube	Spring	Core	Plug	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	Brass	PTFE	Cast Bronze



SPECIFICATION

AC															
MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
USS-15			1/2"	3	14mm	-5°C ~ +185°C	0~8	0~10	0~10	0~7		63	108	48	0.83
DC															
MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
USS-15			1/2"	3	14mm	-5°C ~ +185°C	0~5	0~7	0~7	0~5		63	108	48	0.83

UPS-15~25



UD Series

PRODUCT DESCRIPTION

- UPS series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Specially suitable for frequent operation
- Availability of fluid type: water, air, steam, light oil
- Acceptable for customization Viton, Silicone and EPDM plug

CAUTIONS:

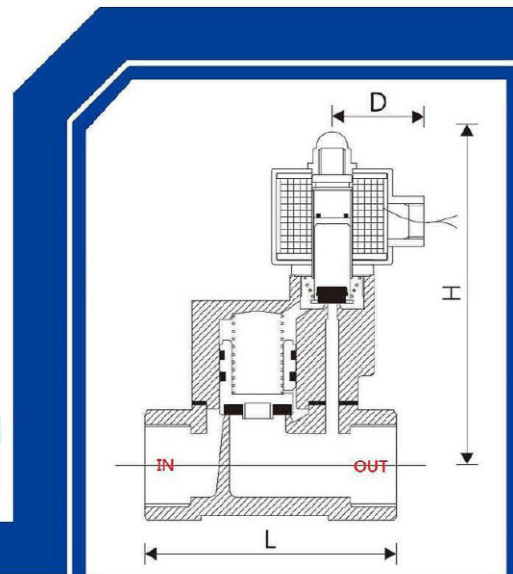
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20 cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	Stainless steel	Brass	PTFE	Cast Bronze

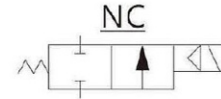
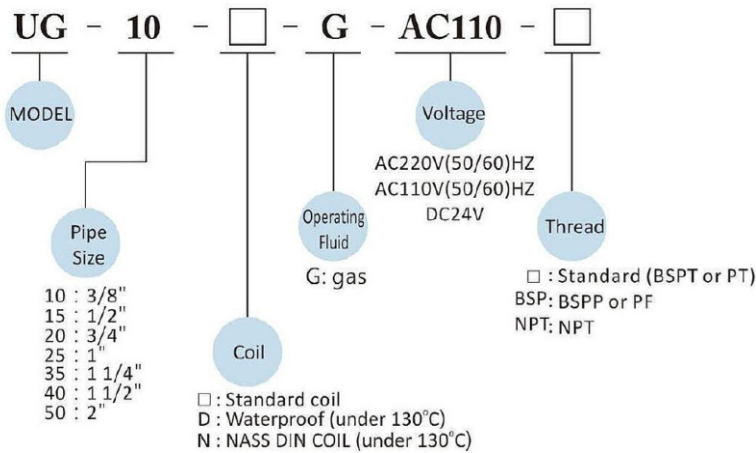


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
UPS-15	●	●	1/2"	4.0	17mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		82	118	48	1.32
UPS-20	●	●	3/4"	6.0	17mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		82	120	48	1.44
UPS-25	●	●	1"	12	22mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		100	135	48	2.13

UG-10~50

UD Series



PRODUCT DESCRIPTION

- UG series is direct, multiplex, connected diaphragm, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: gas

CAUTIONS:

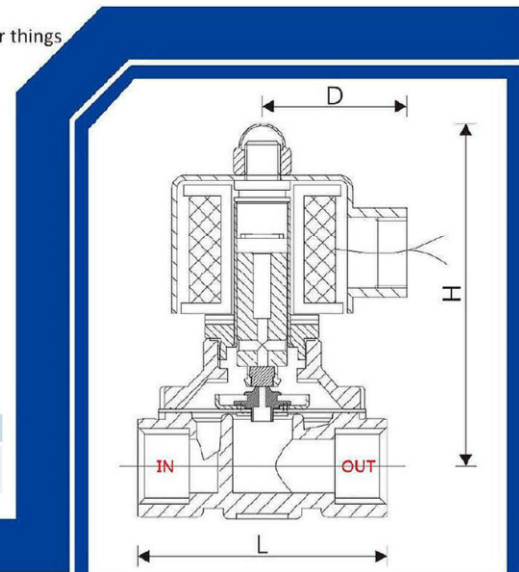
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

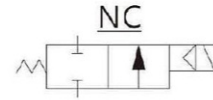
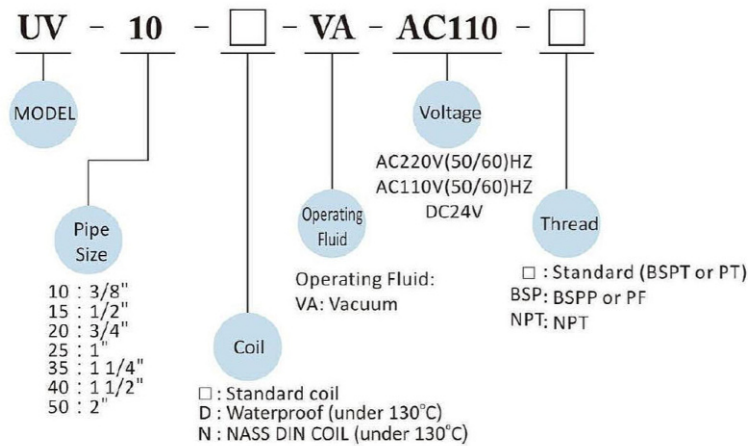
PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Forged Brass



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Wteam	Light oil	Gas	L	H	D	
UG-10	●	●	3/8"	4.5	15mm	-5°C ~ +80°C					0~7	70	100	48	1.01
UG-15	●	●	1/2"	4.5	15mm	-5°C ~ +80°C					0~7	70	100	48	1
UG-20	●	●	3/4"	8.6	20mm	-5°C ~ +80°C					0~7	73	102	48	1.13
UG-25	●	●	1"	12	25mm	-5°C ~ +80°C					0~7	100	112	48	1.7
UG-35	●	●	1 1/4"	24	35mm	-5°C ~ +80°C					0~7	125	113	48	2.32
UG-40	●	●	1 1/2"	28	40mm	-5°C ~ +80°C					0~7	125	118	48	2.53
UG-50	●	●	2"	48	50mm	-5°C ~ +80°C					0~7	167	125	48	4.32

UV-10~50



UD Series

PRODUCT DESCRIPTION

- UV series is direct, multiplex, connected diaphragm, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: vacuum

CAUTIONS:

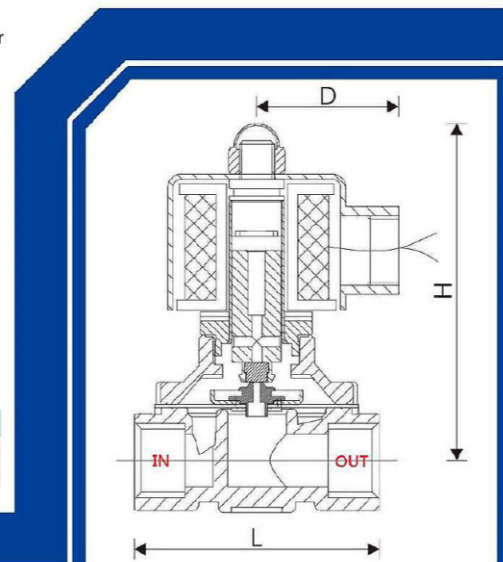
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Forged Brass

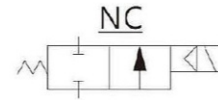
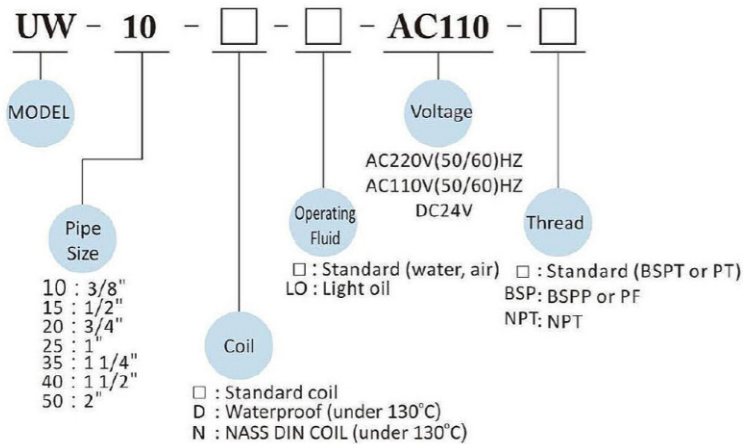


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UV-10	●	●	3/8"	4.5	15mm	-5°C ~ +80°C						0~10 ⁻³	70	100	48	1.01
UV-15	●	●	1/2"	4.5	15mm	-5°C ~ +80°C						0~10 ⁻³	70	100	48	1
UV-20	●	●	3/4"	8.6	20mm	-5°C ~ +80°C						0~10 ⁻³	73	102	48	1.13
UV-25	●	●	1"	12	25mm	-5°C ~ +80°C						0~10 ⁻³	100	112	48	1.7
UV-35	●	●	1 1/4"	24	35mm	-5°C ~ +80°C						0~10 ⁻³	125	113	48	2.32
UV-40	●	●	1 1/2"	28	40mm	-5°C ~ +80°C						0~10 ⁻³	125	118	48	2.53
UV-50	●	●	2"	48	50mm	-5°C ~ +80°C						0~10 ⁻³	167	125	48	4.32

UW-10~50

UD Series



PRODUCT DESCRIPTION

- UW series is direct, multiplex, connected diaphragm, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly under low pressure
- Availability of fluid type: water, air, light oil
- Acceptable for customization Viton (130°C), Silicone (130°C) and EPDM (130°C)

CAUTIONS:

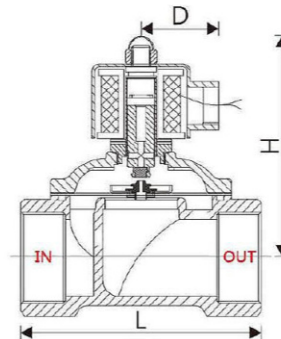
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Forged Brass

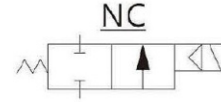
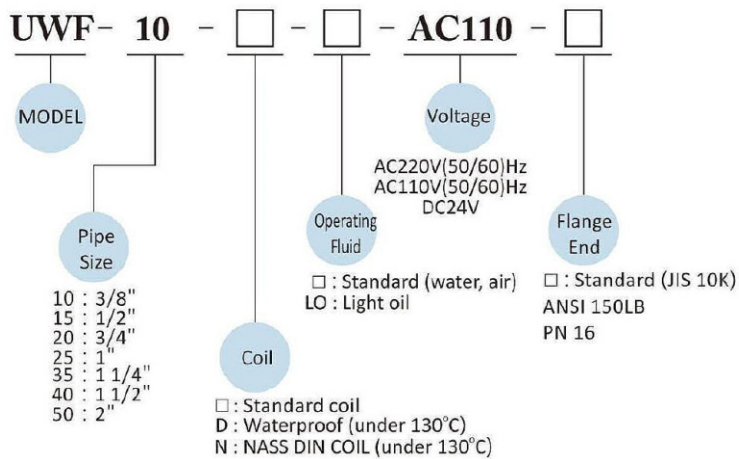


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)			High Pressure Type		Dimension (mm)			Weight (kg)
							Water	Air	Light oil	Water	Air	L	H	D	
UW-10	●	●	3/8"	4.5	15mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	70	100	48	1.01
UW-15	●	●	1/2"	4.5	15mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	70	100	48	1
UW-20	●	●	3/4"	8.6	20mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	73	107	48	1.14
UW-25	●	●	1"	12	25mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	100	112	48	1.7
UW-35	●	●	1 1/4"	24	35mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	125	113	48	2.32
UW-40	●	●	1 1/2"	28	40mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	125	118	48	2.53
UW-50	●	●	2"	48	50mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	167	125	48	4.32

- High Pressure Type Use N/O Coil

UWF-10~50



UD Series

PRODUCT DESCRIPTION

- Acceptable for customization Viton (130°C), Silicone (130°C) and EPDM (130°C)

CAUTIONS:

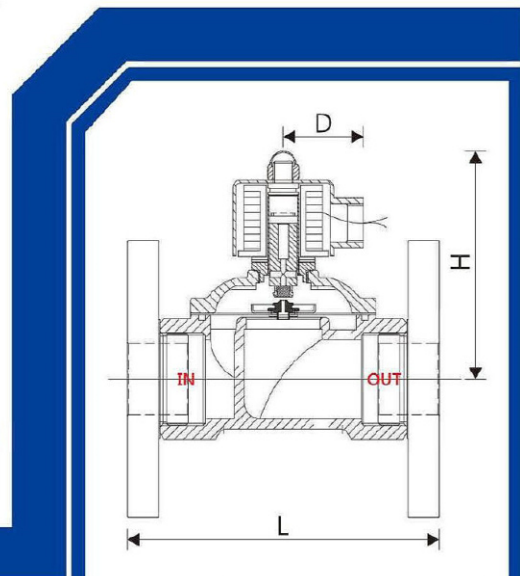
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Forged Brass



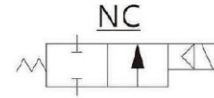
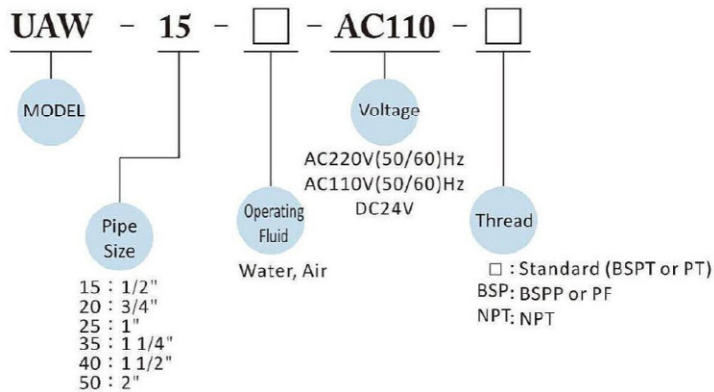
SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)			High Pressure Type		Dimension (mm)			Weight (kg)
							Water	Air	Light oil	Water	Air	L	H	D	
UWF-10	●	●	3/8"	2.4	15mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	100	100	48	2.12
UWF-15	●	●	1/2"	4.5	15mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	110	100	48	2.12
UWF-20	●	●	3/4"	8.6	20mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	110	107	48	2.63
UWF-25	●	●	1"	12	25mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	150	112	48	4.1
UWF-35	●		1 1/4"	24	35mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	170	113	48	5.9
UWF-40	●		1 1/2"	28	40mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	170	118	48	6.4
UWF-50	●		2"	48	50mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	210	125	48	9.2

- High Pressure Type Use N/O Coil

UAW-15~50

UD Series



PRODUCT DESCRIPTION

- UAW series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air

CAUTIONS:

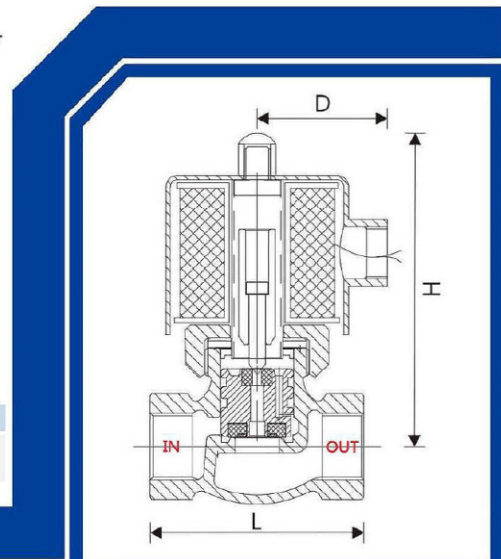
- Minimum pressure to open: over 0.5~1kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- it should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 50 cst

MATERIAL:

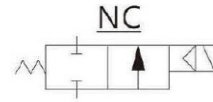
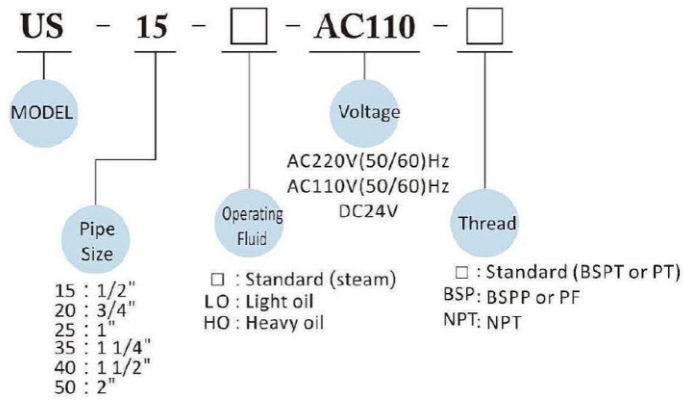
PARTS	Coil	Tube	Spring	Core	Plug	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE +15%GF	Brass	NBR	Cast Bronze



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
UAW-15			1/2"	4.0	17mm	-5°C ~ +80°C	0.5~10	0.5~15				82	125	58	1.6
UAW-20			3/4"	6.0	17mm	-5°C ~ +80°C	0.5~10	0.5~15				82	125	58	1.67
UAW-25			1"	12	22mm	-5°C ~ +80°C	0.5~10	0.5~15				91	133	58	2.02
UAW-35			1 1/4"	18	30mm	-5°C ~ +80°C	1~10	1~15				111	141	58	3.08
UAW-40			1 1/2"	22	30mm	-5°C ~ +80°C	1~10	1~15				111	144	58	3.1
UAW-50			2"	48	50mm	-5°C ~ +80°C	1~10	1~15				163	175	58	6.82

US-15~50



UD Series

PRODUCT DESCRIPTION

- US series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: steam, heavy oil, Light oil

CAUTIONS:

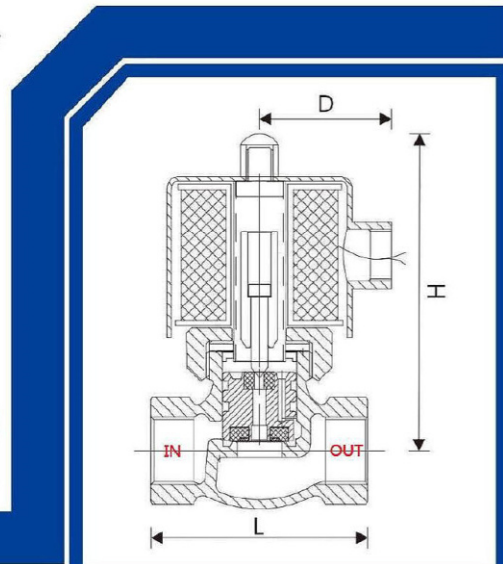
- Minimum pressure to open: over 0.5~1kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20 cst

MATERIAL:

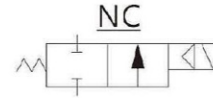
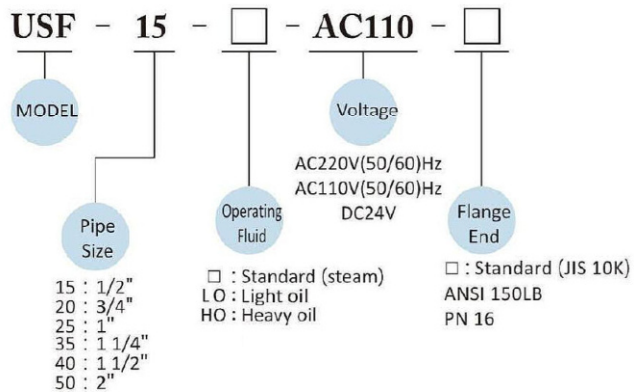
PARTS	Coil	Tube	Spring	Core	Plug	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE +15%GF	PTFE	Cast Bronze



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	heavy oil	Gas	L	H	D	
US-15			1/2"	4.0	17mm	-5°C ~ +185°C			0.5~10	0.5~10		82	125	58	1.6
US-20			3/4"	6.0	17mm	-5°C ~ +185°C			0.5~10	0.5~10		82	125	58	1.67
US-25			1"	12	22mm	-5°C ~ +185°C			0.5~10	0.5~10		91	133	58	2.02
US-35			1 1/4"	18	30mm	-5°C ~ +185°C			1~10	1~10		111	141	58	3.08
US-40			1 1/2"	22	30mm	-5°C ~ +185°C			1~10	1~10		111	144	58	3.1
US-50			2"	48	50mm	-5°C ~ +185°C			1~10	1~10		163	175	58	6.82

USF-15~50



PRODUCT DESCRIPTION

- USF series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: steam, heavy oil, Light oil

CAUTIONS:

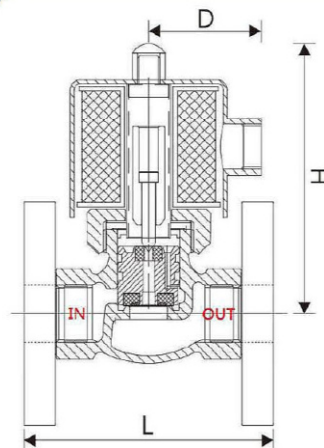
- Minimum pressure to open: over 0.5~1kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20 cst

MATERIAL:

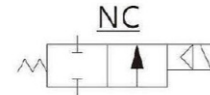
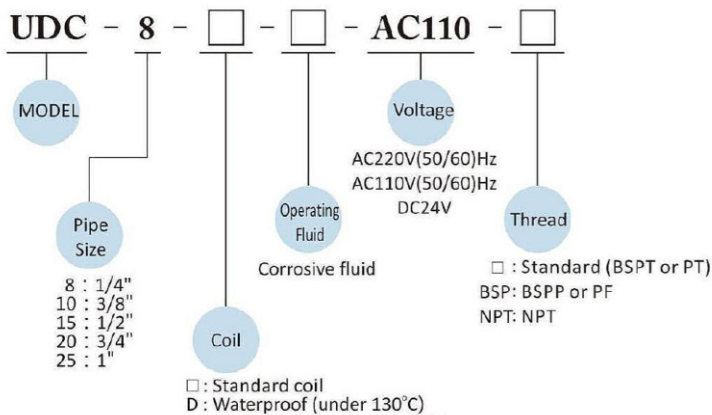
PARTS	Coil	Tube	Spring	Core	Plug	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE +15%GF	Brass	PTFE	Cast Bronze



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	heavy oil	Gas	L	H	D	
USF-15			1/2"	4.0	17mm	-5°C ~ +185°C			0.5~10	0.5~10		110	125	58	2.8
USF-20			3/4"	6.0	17mm	-5°C ~ +185°C			0.5~10	0.5~10		110	125	58	3.2
USF-25			1"	12	22mm	-5°C ~ +185°C			0.5~10	0.5~10		120	133	58	4.4
USF-35			1 1/4"	18	30mm	-5°C ~ +185°C			1~10	1~10		140	141	58	6.3
USF-40			1 1/2"	22	30mm	-5°C ~ +185°C			1~10	1~10		140	144	58	6.5
USF-50			2"	48	50mm	-5°C ~ +185°C			1~10	1~10		195	175	58	10.9

UDC-8~25



PRODUCT DESCRIPTION

- UDC series is direct-acting, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: water, air
- PVC valve body is corrosion-resistant (pH 3~11)

CAUTIONS:

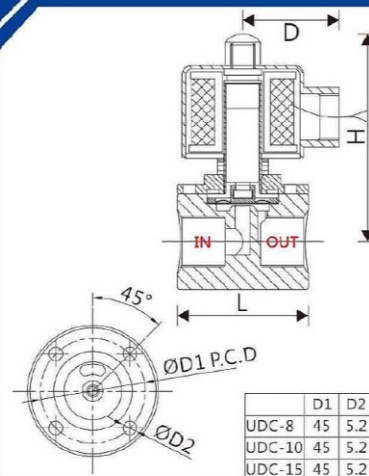
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- Do not use for frequent operation
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Viscosity over 20 cst

MATERIAL:

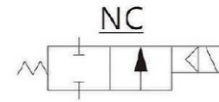
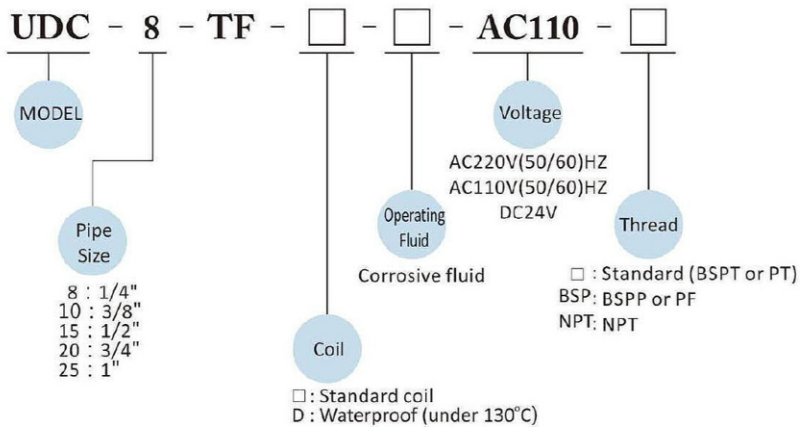
PARTS	Coil	Tube	Spring	Core	Oring	Diaphragm	Valve body
MATERIAL	Special copper wire (H)	Stainless steel	Stainless steel	Stainless steel	Synthetic rubber	PTFE	PVC



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UDC-8	●		1/4"	0.28	6.5mm	-5°C ~ +80°C	0~1	0~1				50	90	48	0.53	
UDC-10	●		3/8"	0.28	6.5mm	-5°C ~ +80°C	0~1	0~1				50	90	48	0.52	
UDC-15	●		1/2"	0.28	6.5mm	-5°C ~ +80°C	0~1	0~1				55	93	48	0.58	
UDC-20			3/4"	3.5	10mm	-5°C ~ +80°C	0~0.5	0~0.5				76	119	58	1.84	
UDC-25			1"	3.5	10mm	-5°C ~ +80°C	0~0.5	0~0.5				76	119	58	1.8	

UDC-8-TF~25-TF



UD Series

PRODUCT DESCRIPTION

- UDC-TF series is direct-acting, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: water, air
- PTFE valve body is corrosion-resistant (pH 0~14)

CAUTIONS:

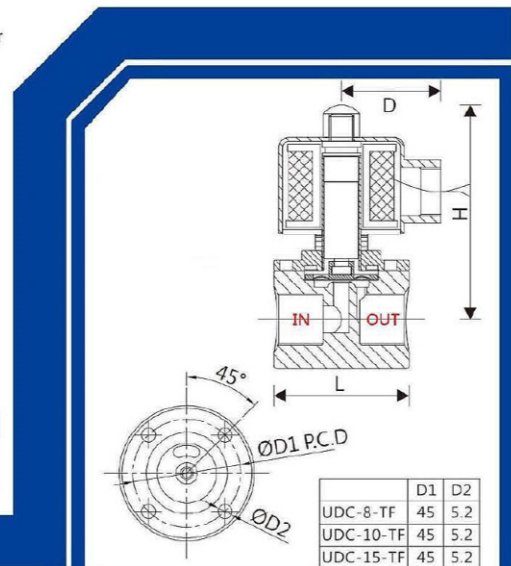
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- Do not use for frequent operation
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Viscosity over 20 cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Oring	Diaphragm	Valve body
MATERIAL	Special copper wire (H)	Stainless steel	Stainless steel	Stainless steel	Synthetic rubber	PTFE	PTFE

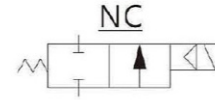
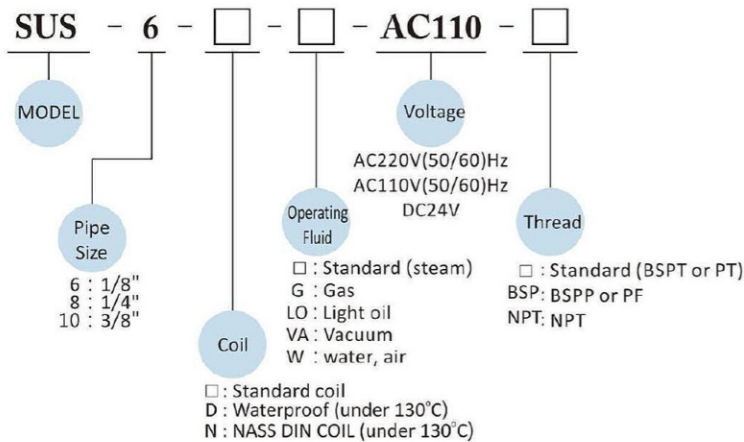


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP55)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UDC-8-TF	●		1/4"	0.28	6.5mm	-5°C ~ +80°C	0~1	0~1					50	90	48	0.53
UDC-10-TF	●		3/8"	0.28	6.5mm	-5°C ~ +80°C	0~1	0~1					50	90	48	0.52
UDC-15-TF	●		1/2"	0.28	6.5mm	-5°C ~ +80°C	0~1	0~1					55	93	48	0.58
UDC-20-TF			3/4"	4	13mm	-5°C ~ +80°C	0~0.5	0~0.5					76	119	58	1.76
UDC-25-TF			1"	4	13mm	-5°C ~ +80°C	0~0.5	0~0.5					76	119	58	1.73

SUS-6~10

UD Series



PRODUCT DESCRIPTION

- SUS series is direct-acting, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: water, air, steam, light oil, gas, vacuum
- Acceptable for customization Viton (130°C), Silicone (130°C) and EPDM (130°C) for plug

CAUTIONS:

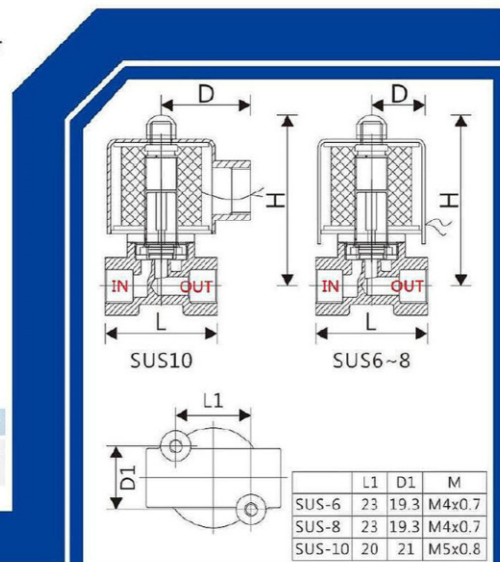
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- The temperature of steam should not over 185°C
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 50cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	O-ring	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE(standard) NBR	PTFE(standard) NBR	Stainless steel



SPECIFICATION

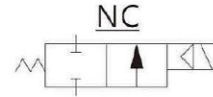
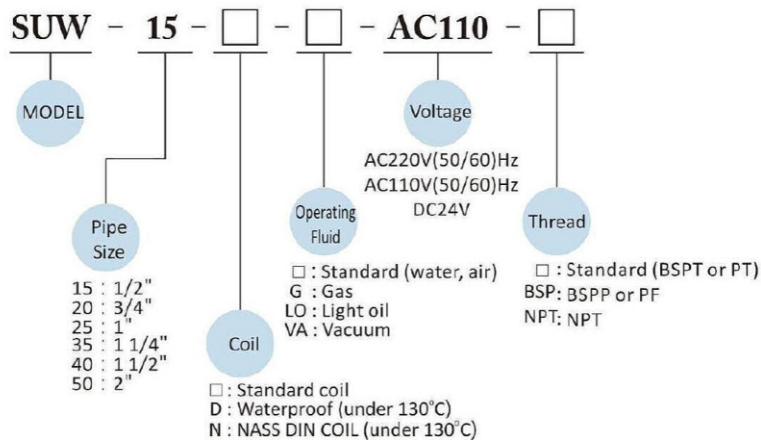
MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
SUS-6	●		1/8"	0.23	2.5mm	-5°C ~ +185°C	0~7	0~7	0~7	0~7		41	68	21.5	0.34	
SUS-8	●		1/4"	0.23	2.5mm	-5°C ~ +185°C	0~7	0~7	0~7	0~7		41	68	21.5	0.33	
SUS-10	●	●	3/8"	0.58	4mm	-5°C ~ +185°C	0~10	0~10	0~10	0~10		53	83	48	0.54	

● Plug Material: PTFE

SUS-6	●		1/8"	0.23	2.5mm	-5°C ~ +80°C	0~7	0~7			0~7	0~10 ⁻³	41	68	21.5	0.34
SUS-8	●		1/4"	0.23	2.5mm	-5°C ~ +80°C	0~7	0~7			0~7	0~10 ⁻³	41	68	21.5	0.33
SUS-10	●	●	3/8"	0.58	4mm	-5°C ~ +80°C	0~10	0~10			0~10	0~10 ⁻³	53	83	48	0.54

● Plug Material: NBR

SUW-15~50



UD Series

PRODUCT DESCRIPTION

- SUW series is direct, multiplex, connected diaphragm, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly under low pressure
- Availability of fluid type: water, air, light oil, gas, vacuum
- Acceptable for customization Viton (130°C) , Silicone (130°C) and EPDM (130°C) (only 3/8"~3/4") for plug and diaphragm

CAUTIONS:

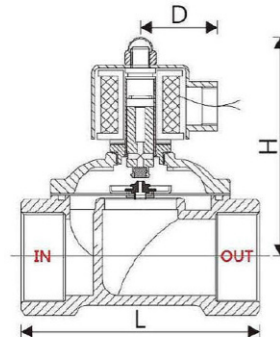
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Stainless steel

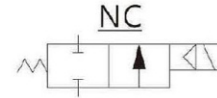
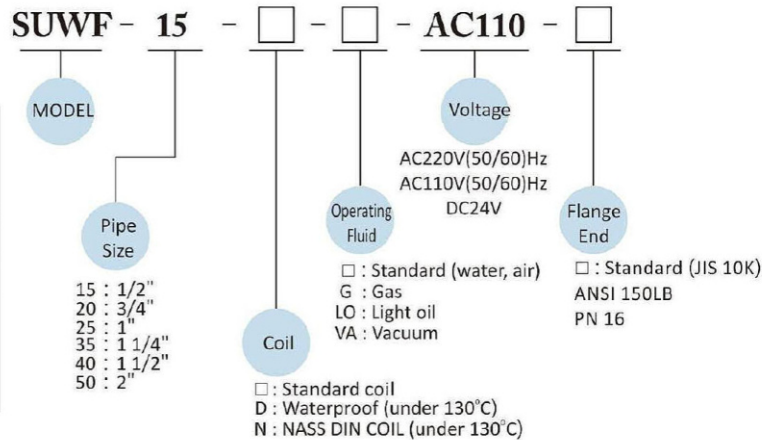


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)			High Pressure Type		vacuum Torr	Dimension (mm)			Weight (kg)
							Water	Air	Light oil	Water	Air		L	H	D	
SUW-15	●	●	1/2"	4.5	15mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	70	100	48	1
SUW-20	●	●	3/4"	8.6	20mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	76	100	48	1.1
SUW-25	●	●	1"	12	25mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	100	115	48	1.65
SUW-35	●	●	1 1/4"	24	35mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	123	112	48	2.33
SUW-40	●	●	1 1/2"	28	40mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	123	112	48	2.54
SUW-50	●	●	2"	48	50mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	167	125	48	4.59

- High Pressure Type Use N/O Coil

SUWF-15~50



PRODUCT DESCRIPTION

- SUWF series is direct, multiplex, connected diaphragm, conductive and normally closed (NC) 2/2 way solenoid valve.
- Able to be operated directly under low pressure
- Availability of fluid type: water, air, light oil, gas, vacuum
- Acceptable for customization Viton (130°C), Silicone (130°C) and EPDM (130°C)(only 3/8"~3/4") for plug and diaphragm

CAUTIONS:

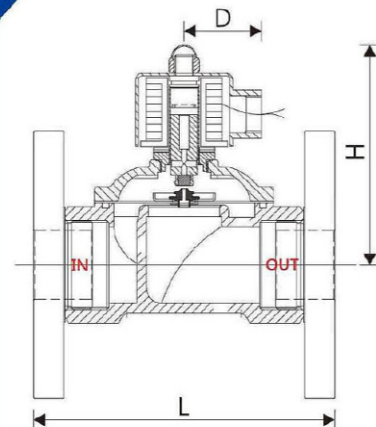
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Stainless steel

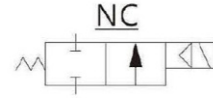
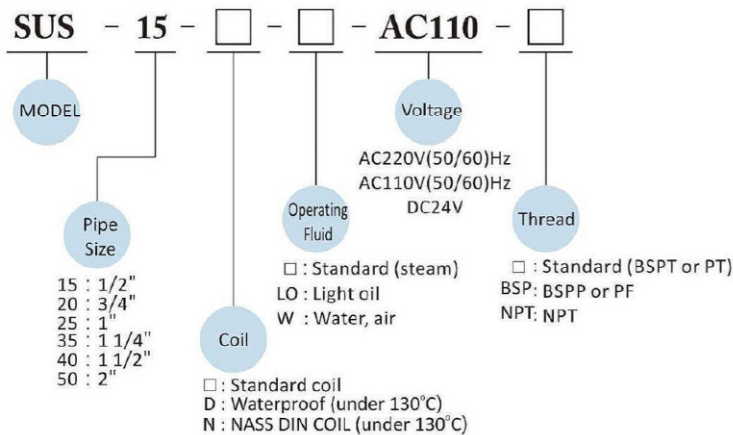


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)			High Pressure Type		vacuum Torr	Dimension (mm)			Weight (kg)
							Water	Air	Light oil	Water	Air		L	H	D	
SUWF-15	●	●	1/2"	4.5	15mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	100	100	48	2.2
SUWF-20	●	●	3/4"	8.6	20mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	120	100	48	2.5
SUWF-25	●	●	1"	12	25mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	150	115	48	4.1
SUWF-35	●		1 1/4"	24	35mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	170	112	48	6.1
SUWF-40	●		1 1/2"	28	40mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	170	112	48	6.7
SUWF-50	●		2"	48	50mm	-5°C ~ +80°C	0~5	0~7	0~5	0.5~10	0.5~20	0~10 ⁻³	210	125	48	9.51

- High Pressure Type Use N/O Coil

SUS-15~50



UD Series

PRODUCT DESCRIPTION

- SUS series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, steam, light oil
- Specially suitable for frequent operation

CAUTIONS:

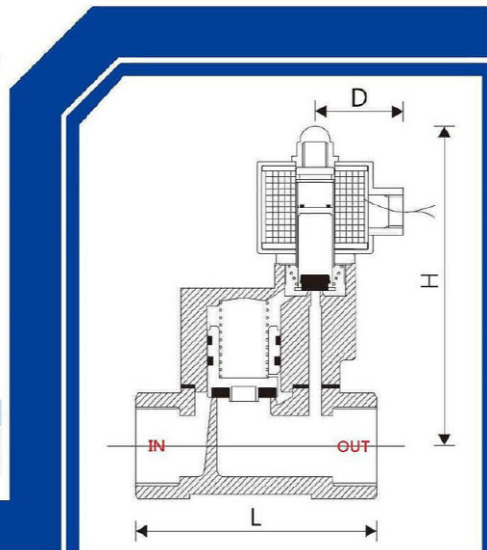
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	Stainless steel	Stainless steel	PTFE	Stainless steel

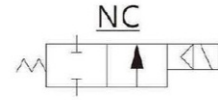
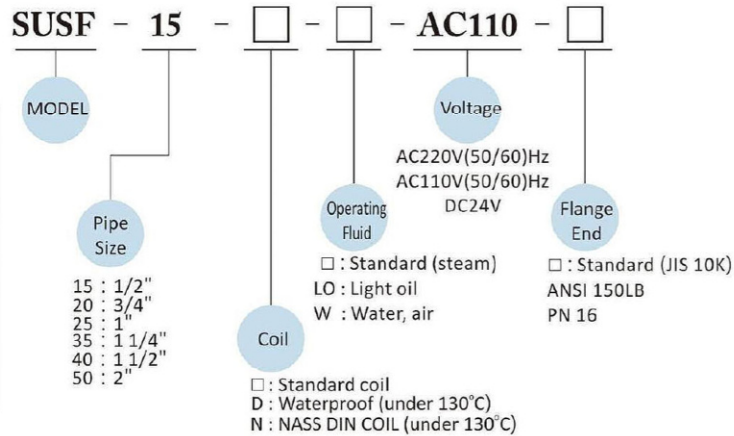


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUS-15	●	●	1/2"	4.0	17mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		84	115	48	1.38
SUS-20	●	●	3/4"	6.0	17mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		84	120	48	1.43
SUS-25	●	●	1"	12	22mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		98	132	48	1.88
SUS-35	●	●	1 1/4"	18	30mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		123	142	48	2.62
SUS-40	●	●	1 1/2"	22	30mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		123	146	48	2.72
SUS-50	●	●	2"	48	50mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		167	173	48	5.45

SUSF-15~50

UD Series



PRODUCT DESCRIPTION

- SUSF series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, steam, light oil
- Specially suitable for frequent operation

CAUTIONS:

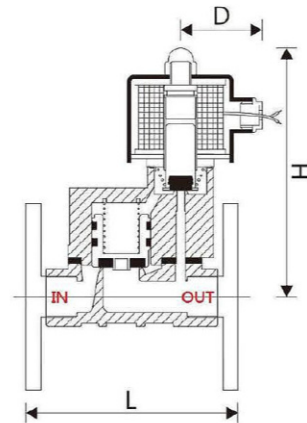
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

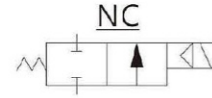
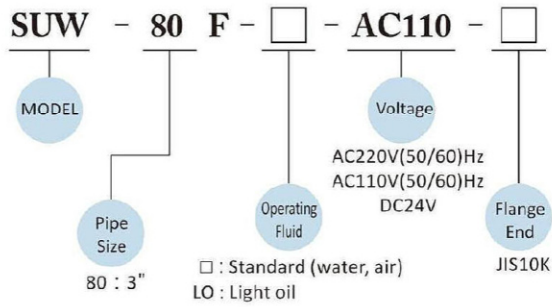
PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	Stainless steel	Stainless steel	PTFE	Stainless steel



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUSF-15	●	●	1/2"	4.0	17mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		120	115	48	2.5
SUSF-20	●	●	3/4"	6.0	17mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		120	120	48	3
SUSF-25	●	●	1"	12	22mm	-5°C ~ +185°C	0.5~10	0.5~10	0.5~10	0.5~10		157	132	48	4.3
SUSF-35	●	●	1 1/4"	18	30mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		170	142	48	5.6
SUSF-40	●	●	1 1/2"	22	30mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		170	146	48	6.1
SUSF-50	●	●	2"	48	50mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		210	173	48	9.6

SUW-80F



UD Series

PRODUCT DESCRIPTION

- SUW-F series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil

CAUTIONS:

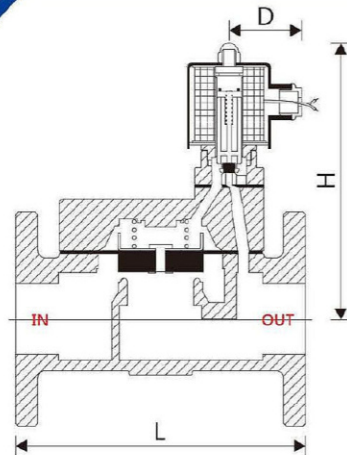
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable..

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Stainless steel

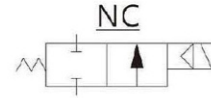
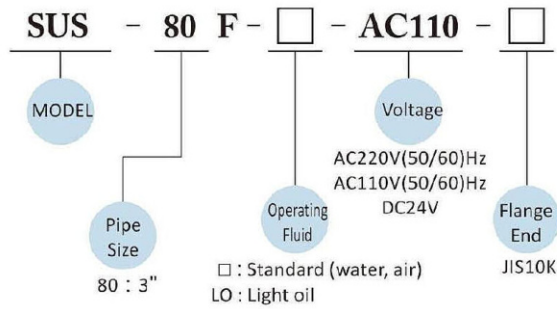


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUW-80F			3"	100	80mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		240	188	58	15.9

SUS-80F

UD Series



PRODUCT DESCRIPTION

- SUS-F series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil

CAUTIONS:

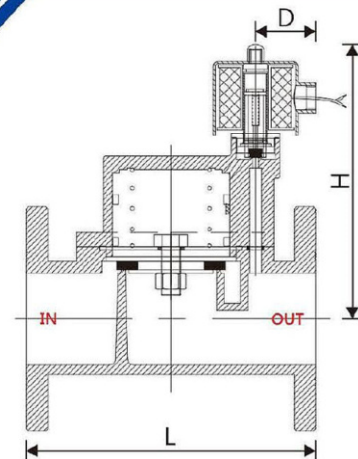
- Minimum pressure to open: over 1kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

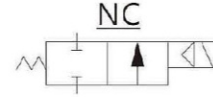
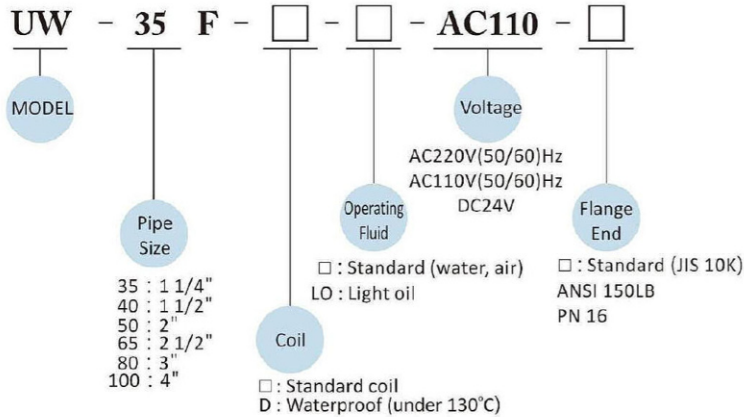
PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	Stainless steel	Stainless steel	PTFE	Stainless steel



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUS-80F			3"	100	80mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		240	232	58	19.9

UW-35F~100F



UD Series

PRODUCT DESCRIPTION

- UW-F series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil

CAUTIONS:

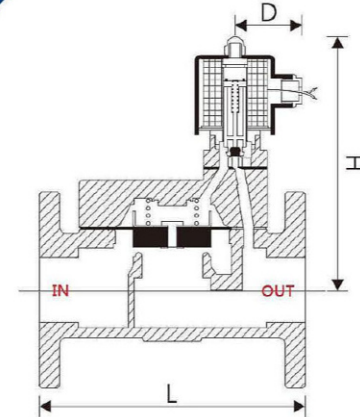
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

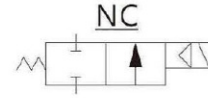
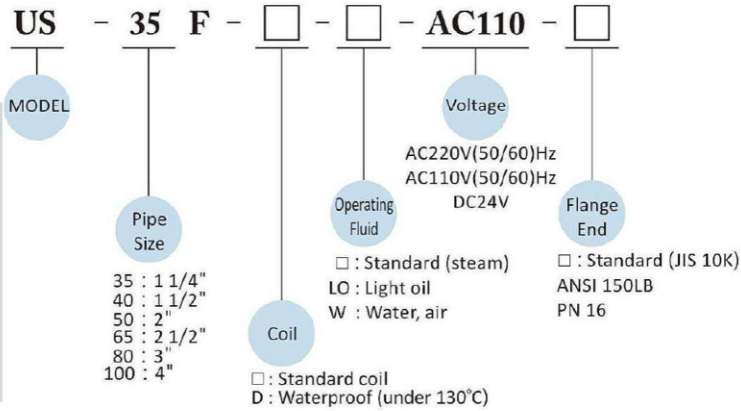
PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Cast Iron (FC-20)



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
UW-35F	●		1 1/4"	22	35mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		200	164	48	8.9
UW-40F	●		1 1/2"	30	40mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		200	164	48	9.6
UW-50F	●		2"	40	50mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		210	170	48	11.3
UW-65F	●		2 1/2"	68	65mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		240	177	48	15.6
UW-80F	●		3"	102	80mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		300	191	48	20.8
UW-100F	●		4"	180	100mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		340	207	48	31.7

US-35F~100F



PRODUCT DESCRIPTION

- SUS-F series is multiplex, pilot operated piston, conductive and normally closed (NC) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil

CAUTIONS:

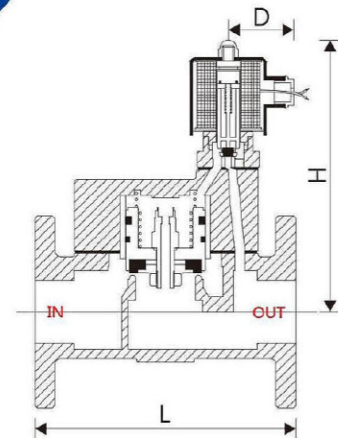
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

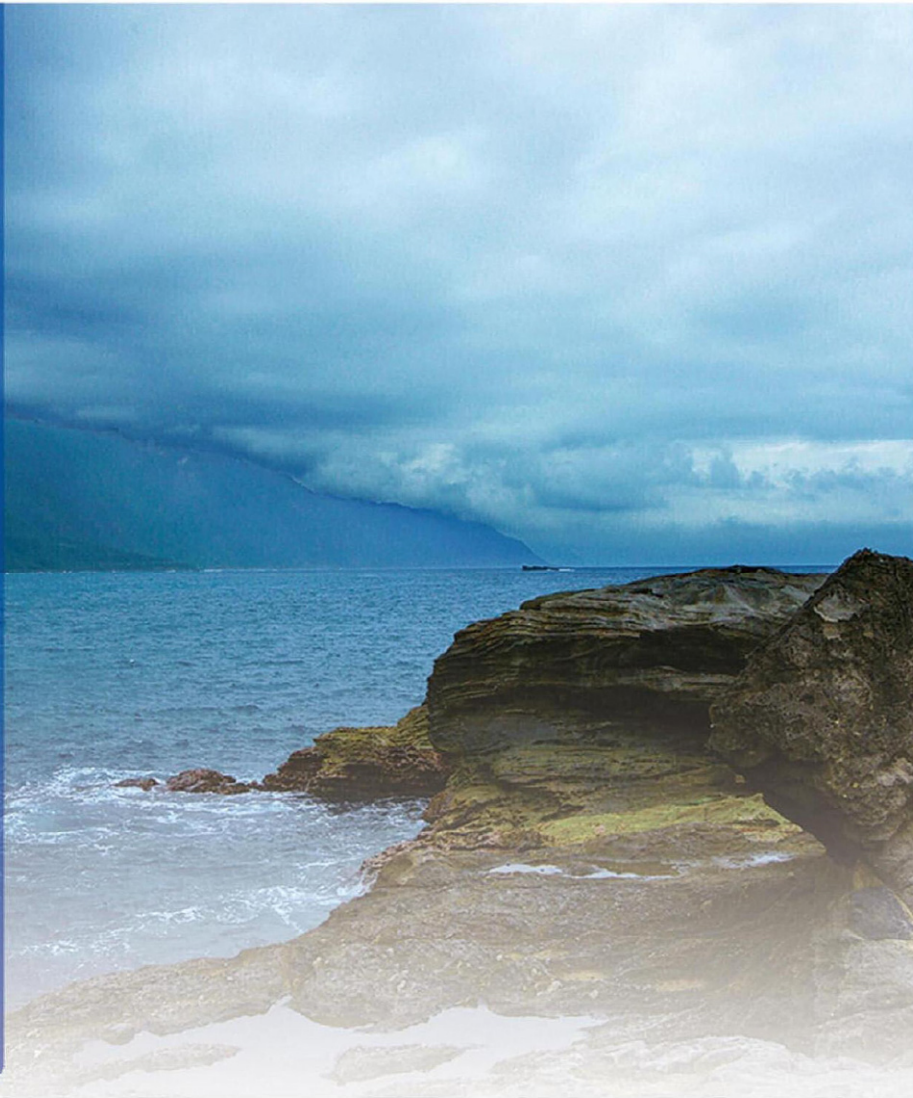
PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	PTFE	Stainless steel	PTFE	Cast Iron (FC-20)



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
US-35F	●		1 1/4"	22	35mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		200	189	48	10.7
US-40F	●		1 1/2"	30	40mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		200	189	48	10.9
US-50F	●		2"	40	50mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		210	202	48	13.2
US-65F	●		2 1/2"	68	65mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		240	209	48	19.2
US-80F	●		3"	100	80mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		300	228	48	27
US-100F	●		4"	175	100mm	-5°C ~ +185°C	1~10	1~10	1~10	1~10		340	244	48	38.7

Normally Closed Type-Optional Items



N/C Type-Optional Items

- **Direct-Acting type Diagram**
- **Multiplex, Pilot Operated Diaphragm Diagram**
- **Multiplex, Pilot Operated Piston Diagram**
- **Direct-Multiplex, Pilot Operated Piston Diagram**
- **Direct-Multiplex, Connected Diaphragm Diagram**

Optional Items

Please confirm the solenoid valve model number, and take the Coil Matching Table for reference.
Please always feel free to contact us for any further questions.

Coil set



Piston, Spring set



N/C Type-Optional Items

Tube set



Diaphragm, Connected spring set

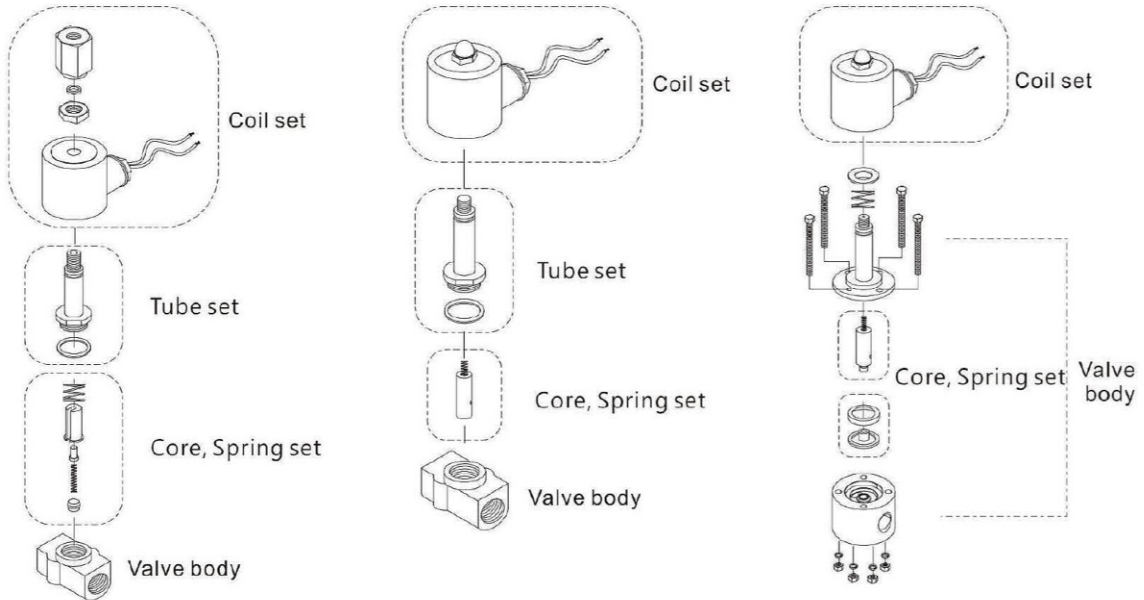


Core, Spring set

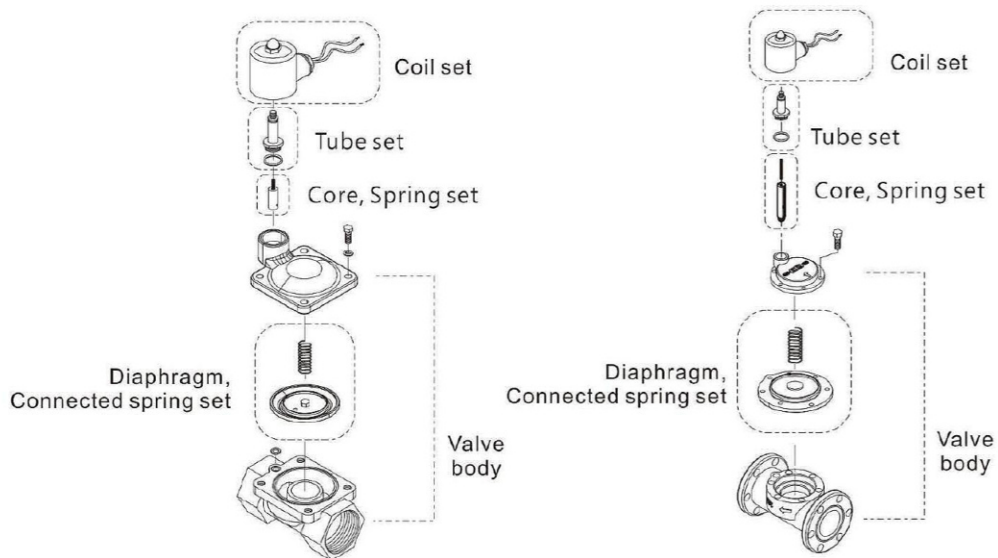


Direct-Acting type Diagram

Normally Closed(N/C) Series



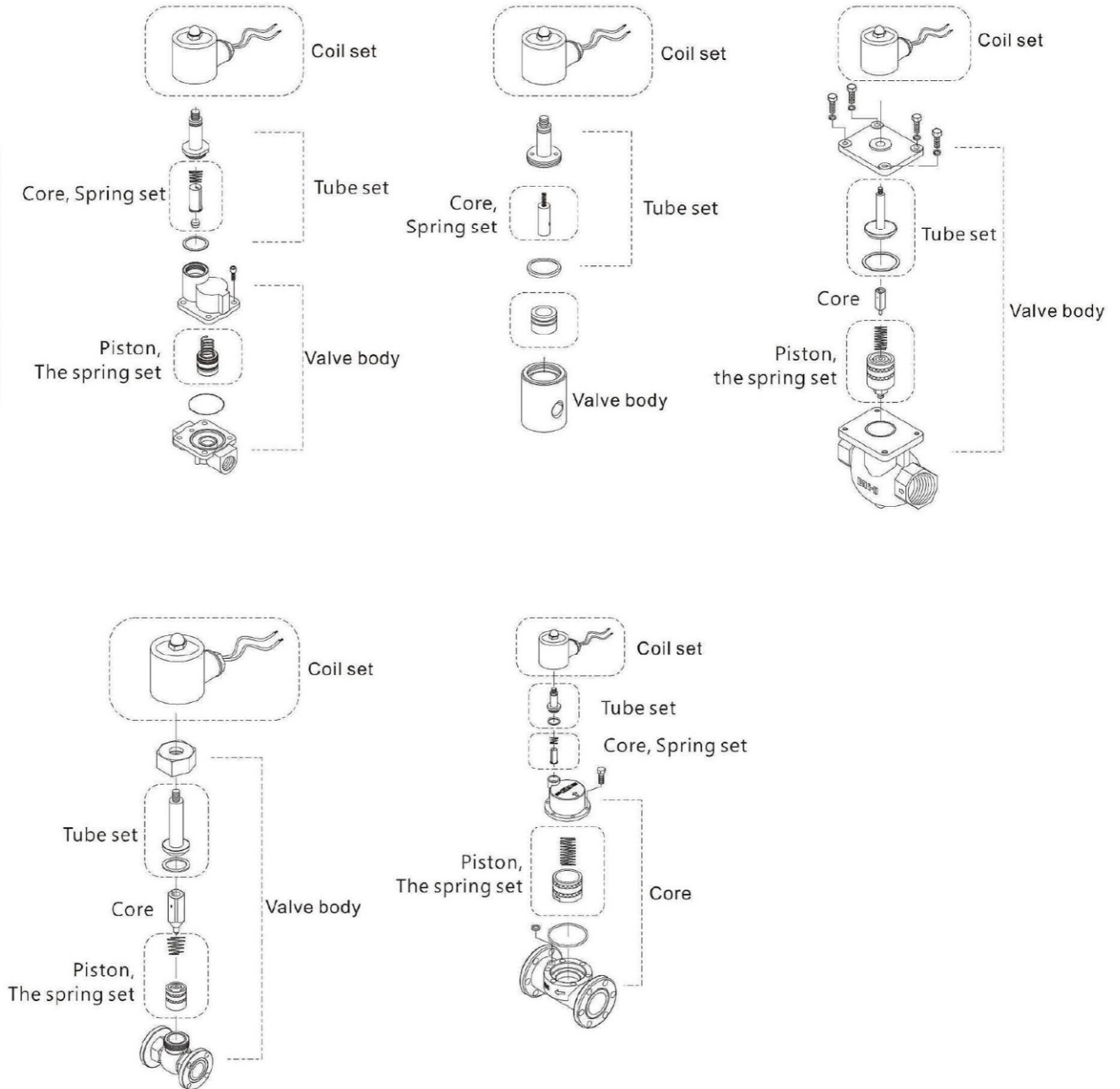
Multiplex, Pilot Operated Diaphragm Diagram



Multiplex, Pilot Operated Piston Diagram

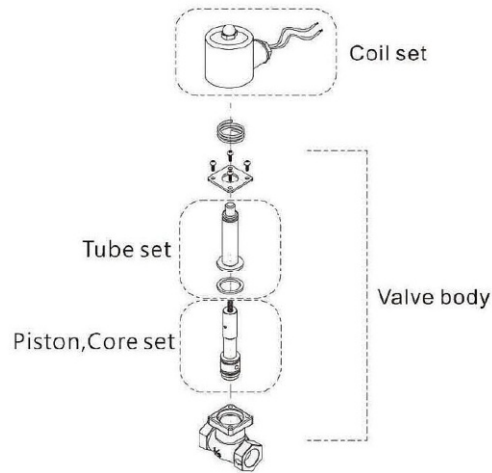
Normally Closed(N/C) Series

N/C Type-Optional Items



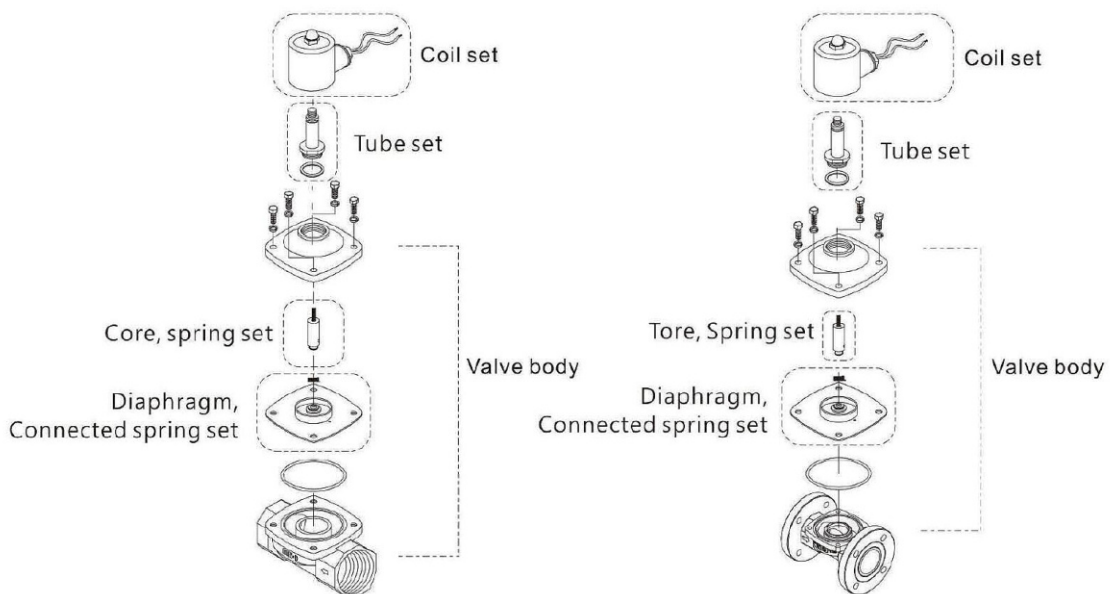
-Direct-Multiplex, Pilot Operated Piston Diagram

Normally Closed(N/C) Series



N/C Type-Optional Items

-Direct-Multiplex, Connected Diaphragm Diagram



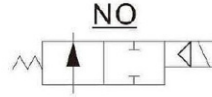
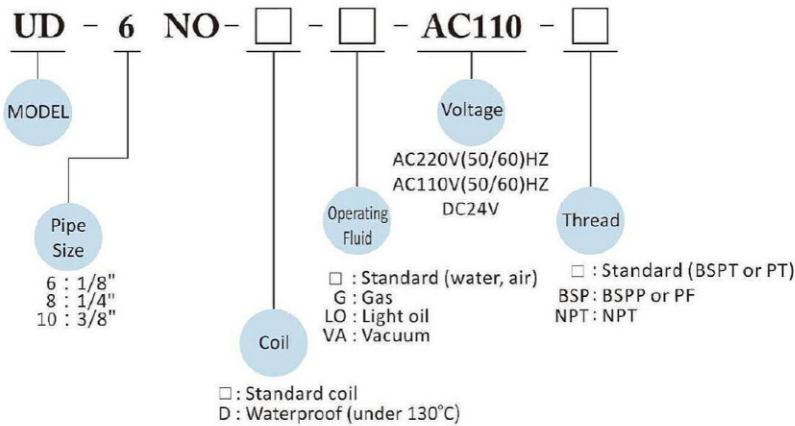
Solenoid Valve- Normally Open Type

Normally Open Type



- UD-6NO~10NO
- UW-10NO~50NO
- UPS-15NO~25NO
- SUS-6NO~10NO
- SUW-15NO~50NO
- SUS-15NO~50NO
- SUW-80FNO
- SUS-80FNO
- UW-35F-NO~100F-NO
- US-35F-NO~100F-NO

UD-6NO~10NO



PRODUCT DESCRIPTION

- UDNO series is direct-acting, conductive, and normally open (NO) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: water, air, light fuel, gas, vacuum
- Acceptable for customize Viton (130°C), Silicone (130°C) and EPDM (130°C)

CAUTIONS:

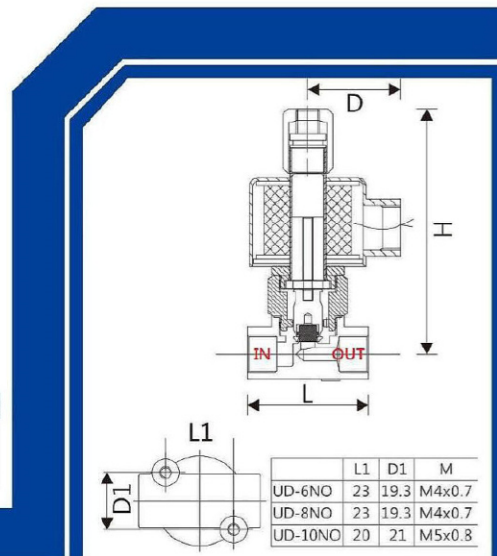
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	O-ring	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR (Viton, Silicone)	NBR	Forged Brass



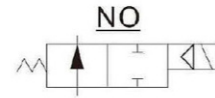
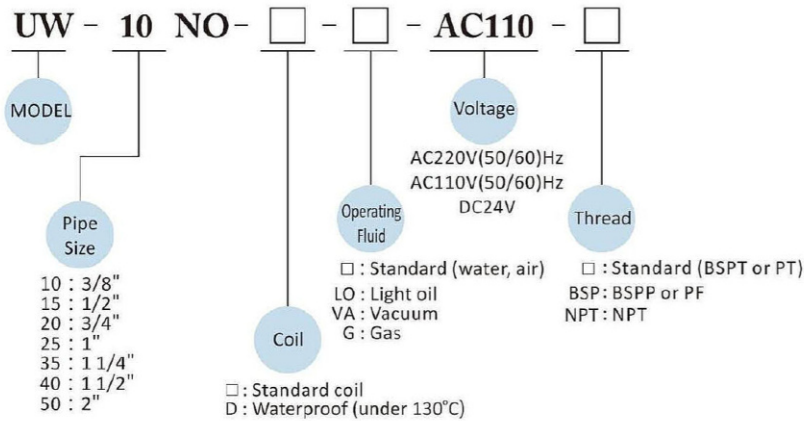
	L1	D1	M
UD-6NO	23	19.3	M4x0.7
UD-8NO	23	19.3	M4x0.7
UD-10NO	20	21	M5x0.8

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UD-6 NO			1/8"	0.23	2.5mm	-5°C ~ +80°C	0~7	0~7		0~7	0~7	0~10 ⁻³	41	87	21.5	0.44
UD-8 NO			1/4"	0.23	2.5mm	-5°C ~ +80°C	0~7	0~7		0~7	0~7	0~10 ⁻³	41	87	21.5	0.43
UD-8 NO			1/4"	0.58	4mm	-5°C ~ +80°C	0~3	0~3		0~3	0~3	0~10 ⁻³	41	87	21.5	0.43
UD-8 NO			1/4"	0.79	6mm	-5°C ~ +80°C	0~1	0~1		0~1	0~1	0~10 ⁻³	41	87	21.5	0.43
UD-8H NO			1/4"	0.18	1.2mm	-5°C ~ +130°C	0~20	0~20		0~20	0~20	0~10 ⁻³	41	87	21.5	0.43
UD-10 NO	●		3/8"	0.58	4mm	-5°C ~ +80°C	0~10	0~10		0~10	0~10	0~10 ⁻³	53	105	48	0.7

● UD-6~UD-8 NO Voltage: DC24V, (H): 79.5mm

UW-10NO~50NO



PRODUCT DESCRIPTION

- UW-NO series is direct, multiplex, connected diaphragm, conductive and normally open (NO) 2/2 way solenoid valve.
- Able to operated directly under low pressure
- Availability of fluid type: water, air, light oil
- Acceptable for customize Viton (130°C) , Silicone (130°C) and EPDM (130°C)

CAUTIONS:

- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

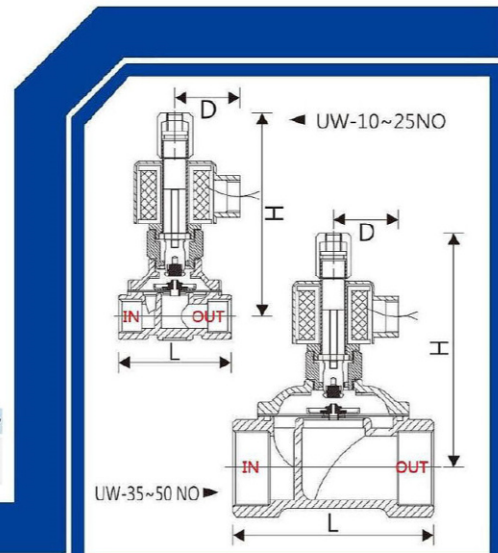
- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

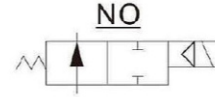
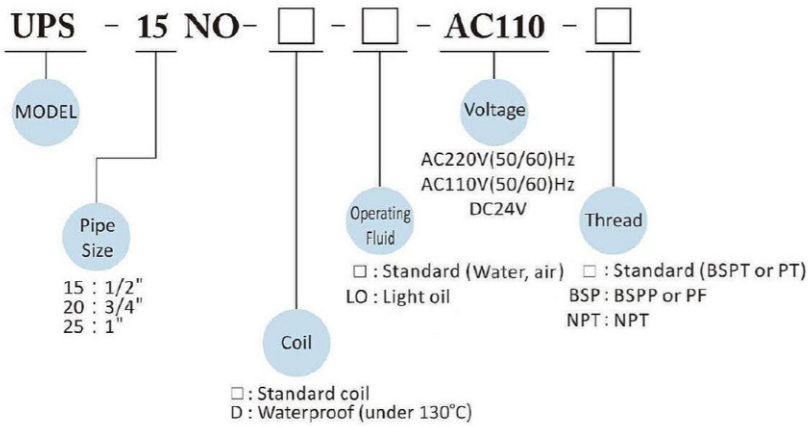
PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Forged Brass

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
UW-10 NO	●		3/8"	4.5	15mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	70	128	48	1
UW-15 NO	●		1/2"	4.5	15mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	70	128	48	0.98
UW-20 NO	●		3/4"	8.6	20mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	73	133	48	1.12
UW-25 NO	●		1"	12	25mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	100	138	48	1.7
UW-35 NO	●		1 1/4"	24	35mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	125	139	48	2.5
UW-40 NO	●		1 1/2"	28	40mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	125	145	48	2.9
UW-50 NO	●		2"	48	50mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	167	156	48	4.5



UPS-15NO~25NO



PRODUCT DESCRIPTION

- UPS-NO series is multiplex, pilot operated piston, conductive and normally open (NO) 2/2 way solenoid valve.
- Specially suitable for frequently operated
- Availability of fluid type: water, air, light oil
- Acceptable for customize Viton , Silicone and EPDM plug

CAUTIONS:

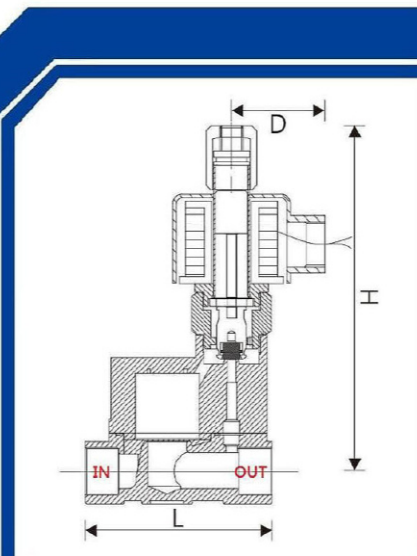
- Minimum pressure to close : over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20 cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	VITON	Stainless steel	Brass	PTFE	Forged Brass

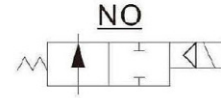
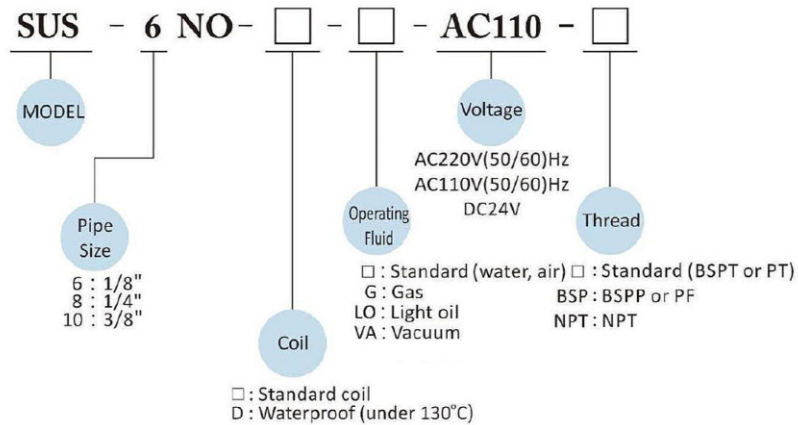


Normally Open Type

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
UPS-15 NO	●		1/2"	4.0	17mm	-5°C ~ +130°C	0.5~10	0.5~10		0.5~8		82	150	48	1.46
UPS-20 NO	●		3/4"	6.0	17mm	-5°C ~ +130°C	0.5~10	0.5~10		0.5~8		82	152	48	1.58
UPS-25 NO	●		1"	12	22mm	-5°C ~ +130°C	0.5~10	0.5~10		0.5~8		100	165	48	2.3

SUS-6 NO~10NO



PRODUCT DESCRIPTION

- SUS-NO series is direct-acting, conductive, and normally open (NO) 2/2 way solenoid valve.
- Able to be operated directly without pressure
- Availability of fluid type: water, air, light fuel, gas, vacuum
- Acceptable for customize Viton (130°C), Silicone (130°C) and EPDM (130°C) for plug

CAUTIONS:

- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

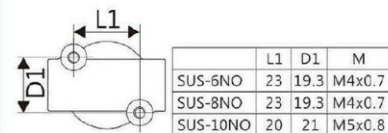
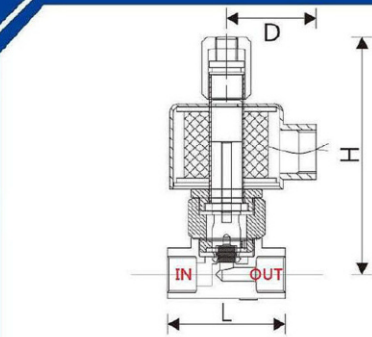
- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 50cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	O-ring	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	VITON	NBR	Stainless steel

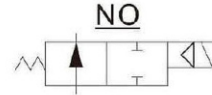
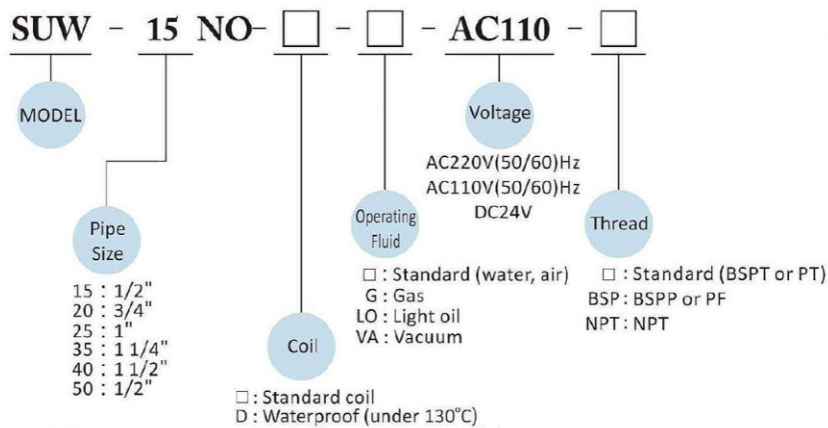
SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
SUS-6 NO			1/8"	0.23	2.5mm	-5°C ~ +130°C	0~7	0~7		0~7	0~7	0~10 ⁻³	41	87	21.5	0.34
SUS-8 NO			1/4"	0.23	2.5mm	-5°C ~ +130°C	0~7	0~7		0~7	0~7	0~10 ⁻³	41	87	21.5	0.33
SUS-10 NO	●		3/8"	0.58	4mm	-5°C ~ +130°C	0~10	0~10		0~7	0~10	0~10 ⁻³	53	105	48	0.54



Normally Open Type

SUW-15NO~50NO



PRODUCT DESCRIPTION

- SUW-NO series is direct, multiplex, connected diaphragm, conductive and normally open (NO) 2/2 way solenoid valve.
- Able to operated directly under low pressure
- Availability of fluid type: water, air, light oil, gas, vacuum
- Acceptable for customize Viton (130°C), Silicone (130°C) and EPDM (130°C) for plug and diaphragm

CAUTIONS:

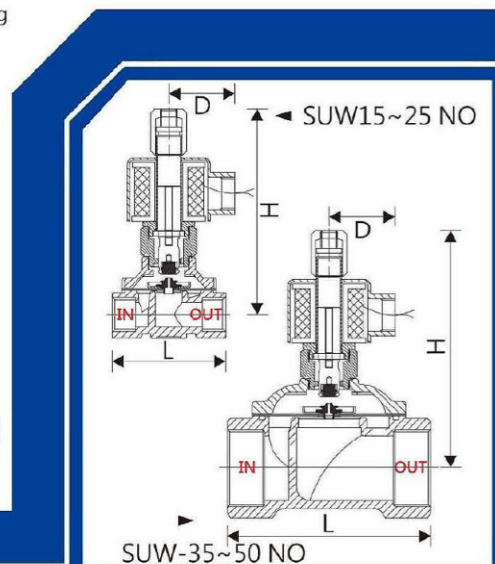
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Stainless steel

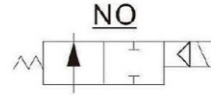
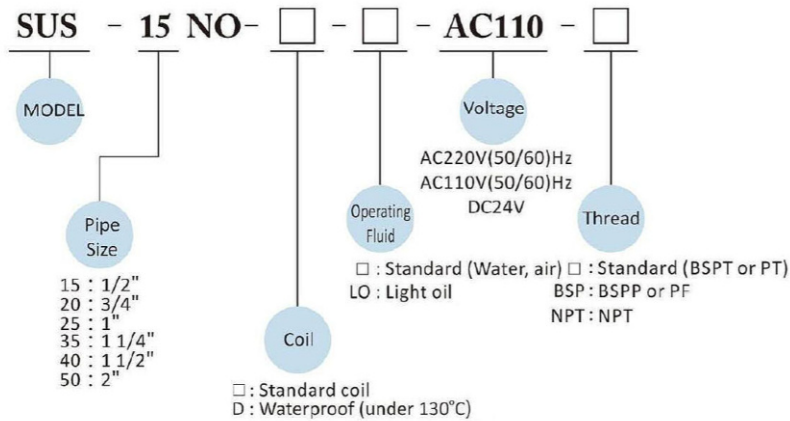


Normally Open Type

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
SUW-15 NO	●		1/2"	4.5	15mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	70	126	48	1
SUW-20 NO	●		3/4"	8.6	20mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	76	132	48	1.1
SUW-25 NO	●		1"	12	25mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	100	139	48	1.65
SUW-35 NO	●		1 1/4"	24	35mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	123	140	48	2.5
SUW-40 NO	●		1 1/2"	28	40mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	123	140	48	2.7
SUW-50 NO	●		2"	48	50mm	-5°C ~ +80°C	0~5	0~7		0~5	0~7	0~10 ⁻³	167	150	48	4.73

SUS-15NO~50NO



PRODUCT DESCRIPTION

- SUS-NO series is multiplex, pilot operated piston, conductive and normally open (NO) 2/2 way solenoid valve.
- Specially suitable for frequently operated
- Availability of fluid type: water, air, steam, light oil
- Acceptable for customize Viton, Silicone and EPDM for plug

CAUTIONS:

- Minimum pressure to close : over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

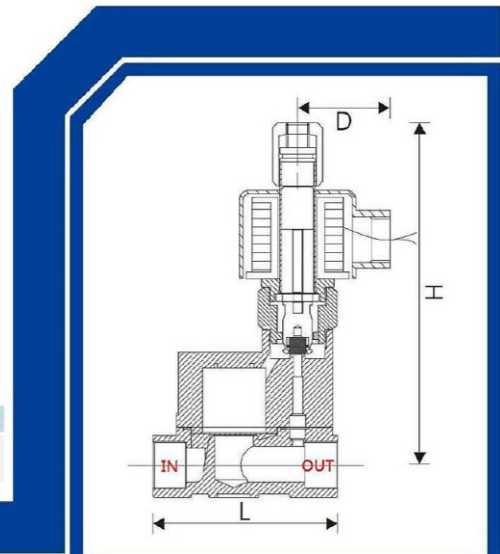
- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20 cst

MATERIAL:

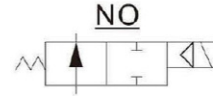
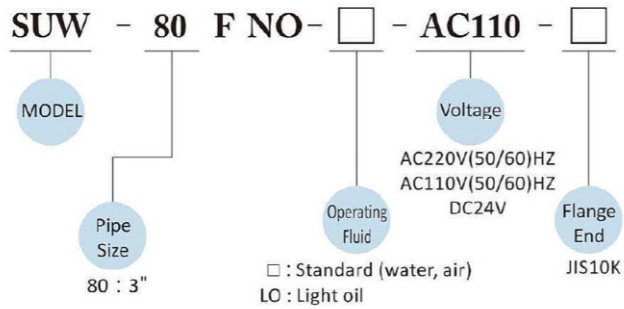
PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	VITON	Stainless steel	Stainless steel	PTFE	Stainless steel

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUS-15 NO	●		1/2"	4.0	17mm	-5°C ~ +130°C	0.5~10	0.5~10		0.5~8		84	147	48	1.52
SUS-20 NO	●		3/4"	6.0	17mm	-5°C ~ +130°C	0.5~10	0.5~10		0.5~8		84	151	48	1.58
SUS-25 NO	●		1"	12	22mm	-5°C ~ +130°C	0.5~10	0.5~10		0.5~8		98	162	48	2
SUS-35 NO	●		1 1/4"	18	30mm	-5°C ~ +130°C	1~10	1~10		0.5~8		123	173	48	2.8
SUS-40 NO	●		1 1/2"	22	30mm	-5°C ~ +130°C	1~10	1~10		0.5~8		123	175	48	2.9
SUS-50 NO	●		2"	48	50mm	-5°C ~ +130°C	1~8	1~8		0.5~8		167	203	48	5.7



SUW-80FNO



PRODUCT DESCRIPTION

- SUW-FNO series is multiplex, pilot operated piston, conductive and normally open (NO) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil

CAUTIONS:

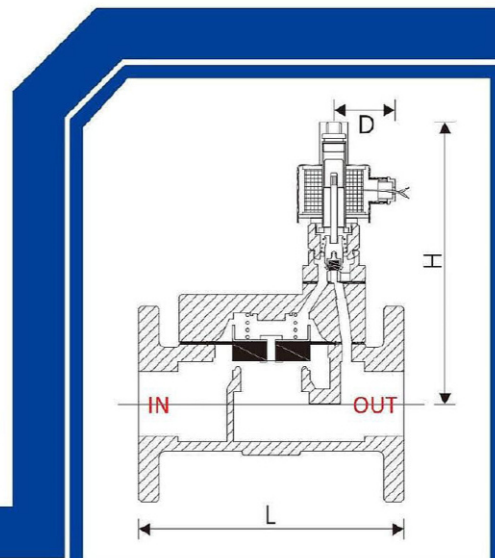
- Minimum pressure to close : over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Stainless steel

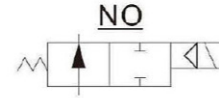
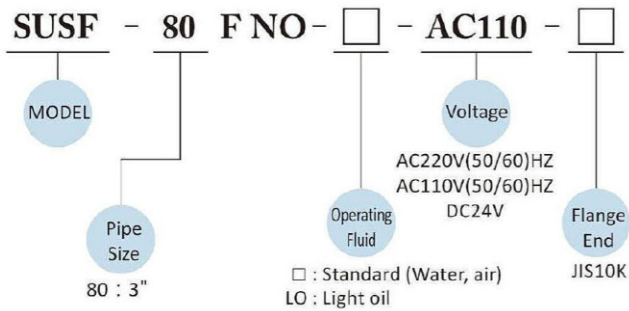


Normally Open Type

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUW-80F NO			3"	100	80mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		240	205	58	16

SUS-80FNO



PRODUCT DESCRIPTION

- SUS-FNO series is multiplex, pilot operated piston, conductive and normally open (NO) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil

CAUTIONS:

- Minimum pressure to close : over 1kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

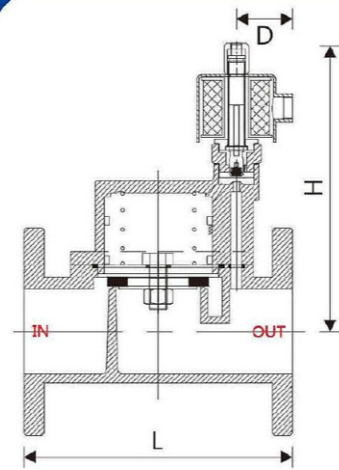
Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Piston	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	VITON	Stainless steel	PTFE	Stainless steel

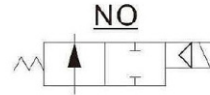
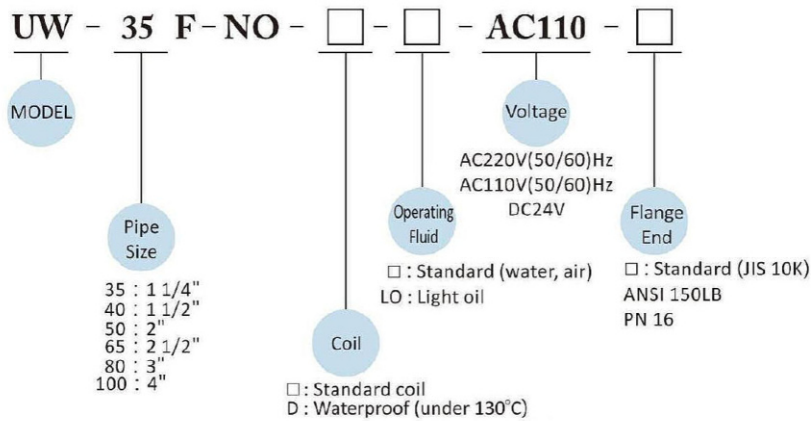
Normally Open Type



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SUS-80F NO			3"	100	80mm	-5°C ~ +130°C	1~8	1~8		1~8		240	252	58	20

UW-35F-NO~100F-NO



PRODUCT DESCRIPTION

- UW-NO series is multiplex, pilot operated piston, conductive and normally open (NO) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil
- Acceptable for customize Viton , Silicone and EPDM for plug

CAUTIONS:

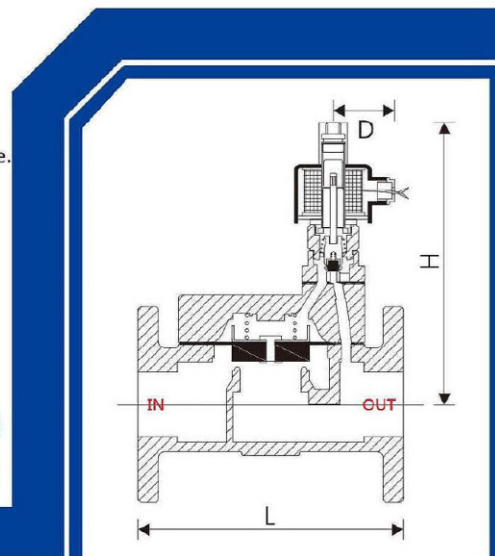
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

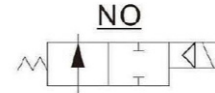
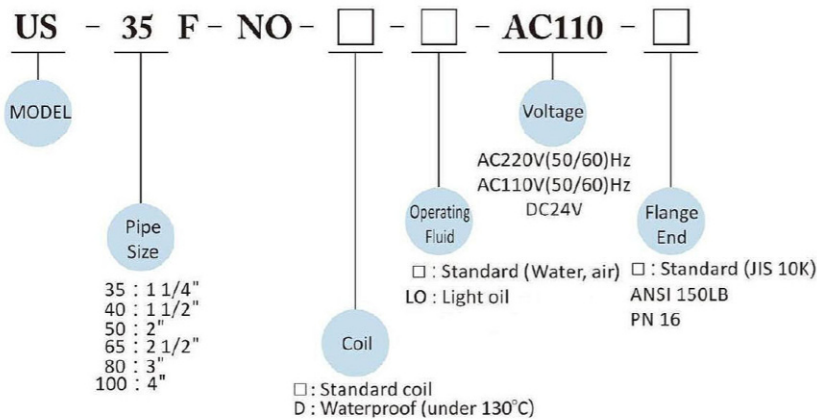
PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	NBR	NBR	Cast Iron (FC-20)



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
UW-35F-NO	●		1 1/4"	22	35mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		200	195	48	9.1
UW-40F-NO	●		1 1/2"	30	40mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		200	195	48	9.8
UW-50F-NO	●		2"	40	50mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		210	208	48	11.5
UW-65F-NO	●		2 1/2"	68	65mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		240	213	48	15.8
UW-80F-NO	●		3"	102	80mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		300	222	48	21
UW-100F-NO	●		4"	180	100mm	-5°C ~ +80°C	0.5~8	0.5~8		0.5~5		340	238	48	31.9

US-35F-NO~100F-NO



PRODUCT DESCRIPTION

- USF-NO series is multiplex, pilot operated piston, conductive and normally open (NO) 2/2 way solenoid valve.
- Availability of fluid type: water, air, light oil
- Acceptable for customize Viton (130°C), Silicone (130°C) and EPDM (130°C) for plug

CAUTIONS:

- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-type filter at the front end of solenoid valve.
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

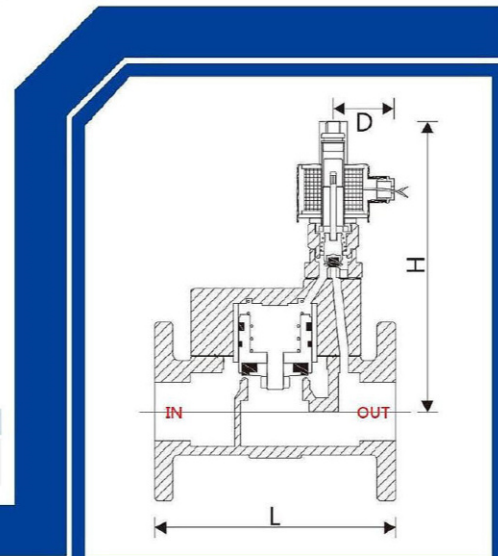
- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston plug	Valve body
MATERIAL	Special copper wire (H class)	Stainless steel	Stainless steel	Stainless steel	VITON	Stainless steel	PTFE	Cast Iron (FC-20)

SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
US-35F-NO	●		1 1/4"	22	35mm	-5°C ~ +130°C	1~8	1~8		1~8		200	220	48	10.9
US-40F-NO	●		1 1/2"	30	40mm	-5°C ~ +130°C	1~8	1~8		1~8		200	220	48	11.1
US-50F-NO	●		2"	40	50mm	-5°C ~ +130°C	1~8	1~8		1~8		210	233	48	13.4
US-65F-NO	●		2 1/2"	68	65mm	-5°C ~ +130°C	1~8	1~8		1~8		240	240	48	19.4
US-80F-NO	●		3"	100	80mm	-5°C ~ +130°C	1~8	1~8		1~8		300	259	48	27.2
US-100F-NO	●		4"	175	100mm	-5°C ~ +130°C	1~8	1~8		1~8		340	274	48	38.9



Normally Open Type-Optional Items



N/O Type-Optional Items

- **Multiplex, Pilot Operated Piston Diagram**
- **Multiplex, Pilot Operated Diaphragm Diagram**
- **Direct-Acting type Diagram**
- **Direct-Multiplex, Connected Diaphragm Diagram**

Optional Items

Please confirm the solenoid valve model number, and take the Coil Matching Table for reference.
Please always feel free to contact us for any further questions.

Coil set



Piston, The spring set



Tube set



Diaphragm, Connected spring set



Pintle, Pintle seat

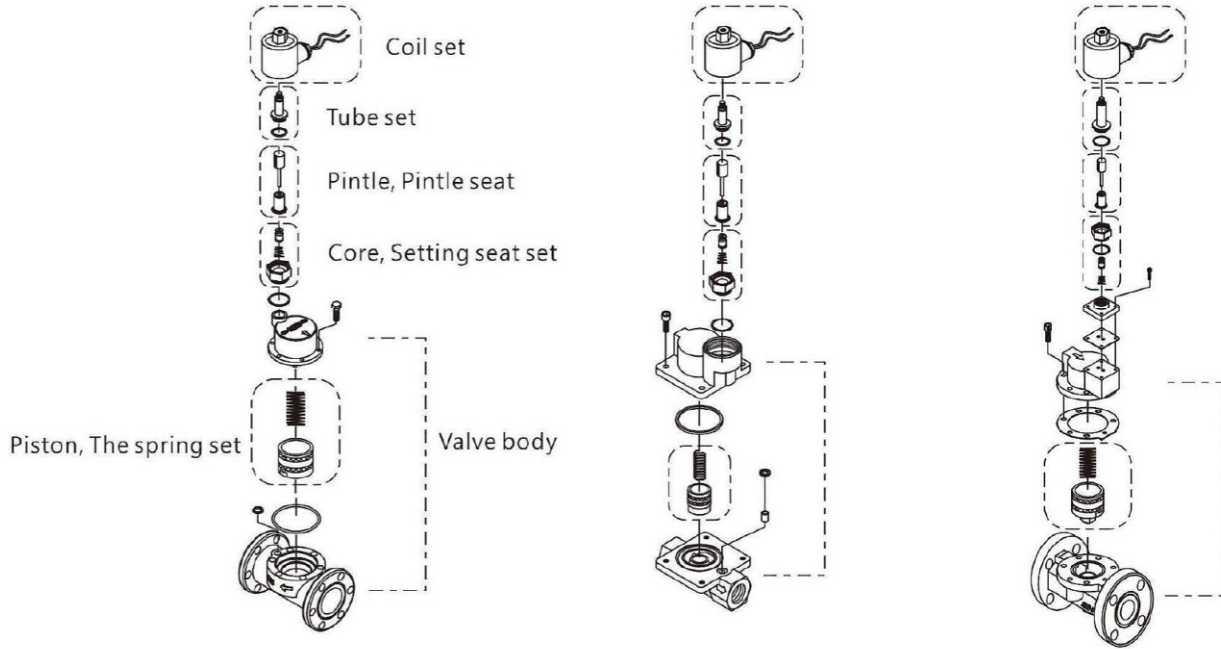


Core, Setting seat set

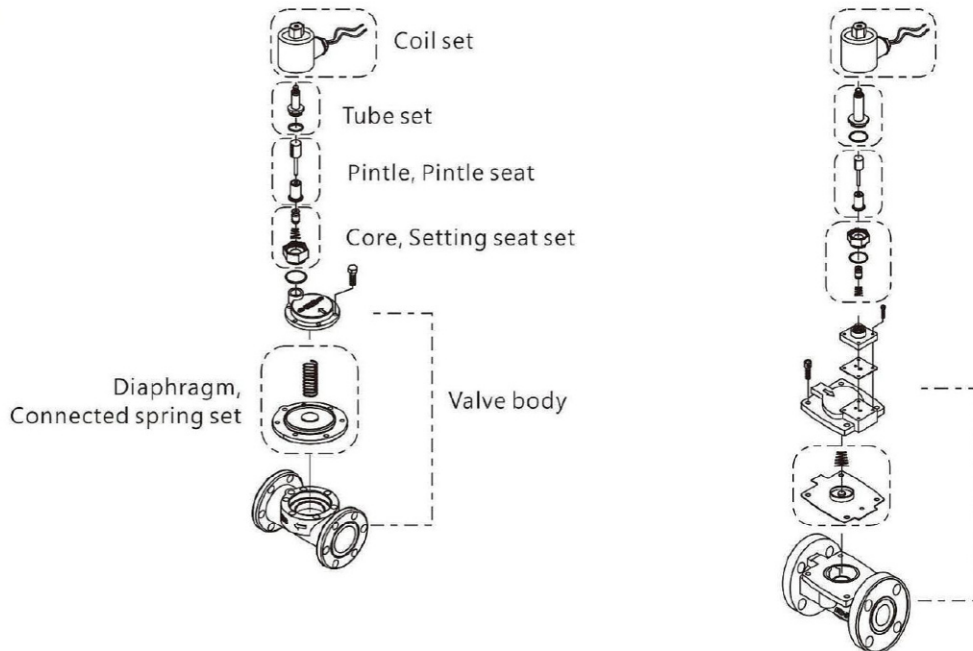


Multiplex, Pilot Operated Piston Diagram

Normally open (N/O) series



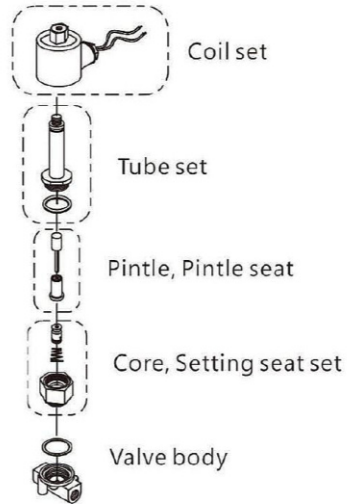
Multiplex, Pilot Operated Diaphragm Diagram



N/O Type-Operational Items

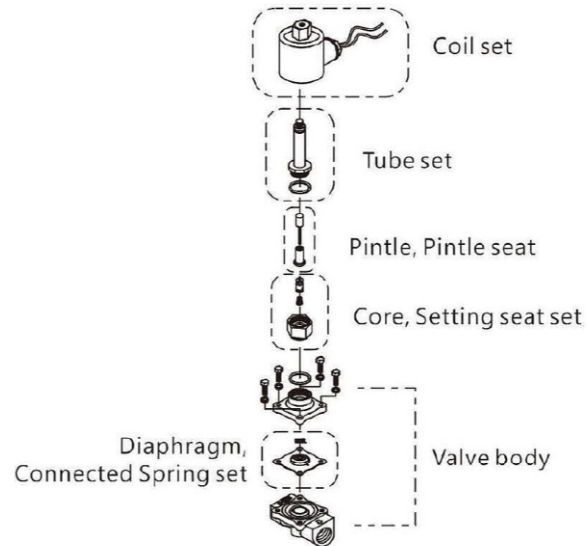
Direct-Acting type Diagram

Normally open (N/O) series



N/O Type-Operational Items

Direct-Multiplex, Connected Diaphragm Diagram



Solenoid Valve-Explosion Proof Series



- Solenoid Valve-Explosion Proof Series
- Solenoid Coil system 13 ATEX
- SKS-15~25
- SKW-15~25
- PKS-15~25
- PKW-10~50

Explosion Proof Series

Solenoid Coil system 13 ATEX

WITH TERMINAL BOX

Width:	52 mm
Protection by encaps:	Ex II 2 G Ex e mb IIC T4, T6 Gb Ex II 2D Ex tb mb IIIC T130 °C, T80 °C Db IP 65, IP 67
Connection type:	terminal box
Moulding material:	thermoplastic

General Data

Voltage tolerance:	±10%
Ambient temperature:	-40°C bis + 50 °C/+ 60 °C
Relative duty cycle:	100%

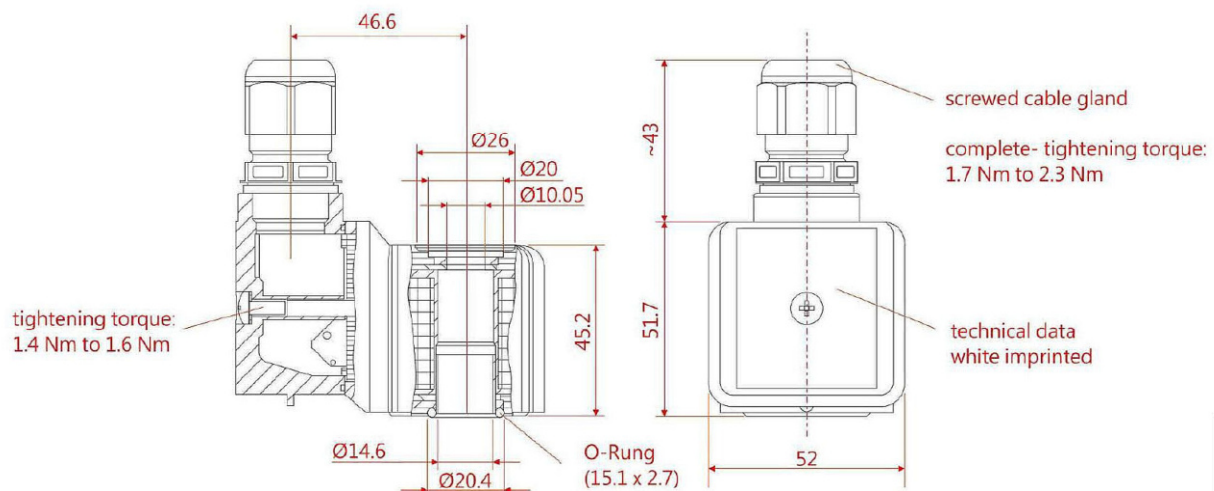
Insulation class of insulating materials

According to DIN VDE 0580: F

Degree of protection: IP 65/IP 67

Type examination certificate: PTB 11 ATEX 2027 X

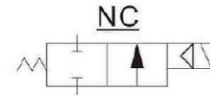
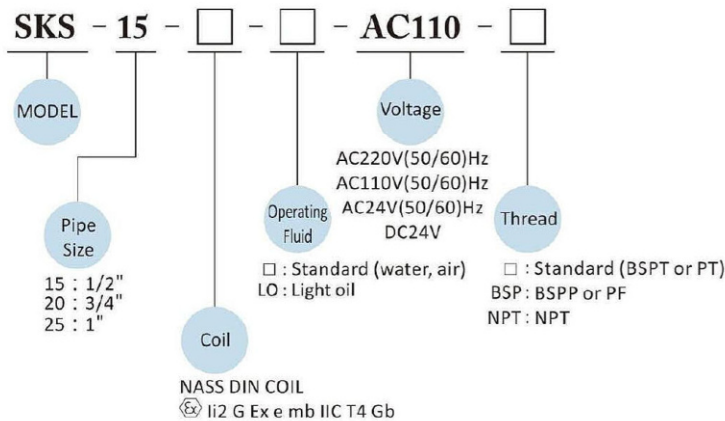
Imprint: nass magnet (customer imprint possible)



Cautions

- ※ After the wiring is completed, be sure the cable gland has been tightened, tightening torque is 1.7Nm to 2.3Nm
- ※ After the wiring is completed, be sure to tighten the lid, tightening torque is 1.4Nm to 1.6Nm

SKS-15~25



PRODUCT DESCRIPTION

- SKS series is multiplex, pilot operated piston, conductive, and normally closed (NC)2/2 way solenoid valve.
- Explosion proof protection level: EX II 2 G Ex e mb IIC T4 Gb
- IP 67
- Specially suitable for frequent operation
- Availability of fluid type: water, air, light oil

CAUTIONS:

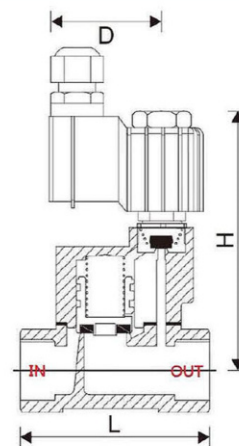
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- Ambient temperature should be under 70°C
- Operating temperature should be under 60°C
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature solid status when cool.
- Corrosive fluid
- Viscosity over 20cst

MATERIAL:

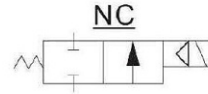
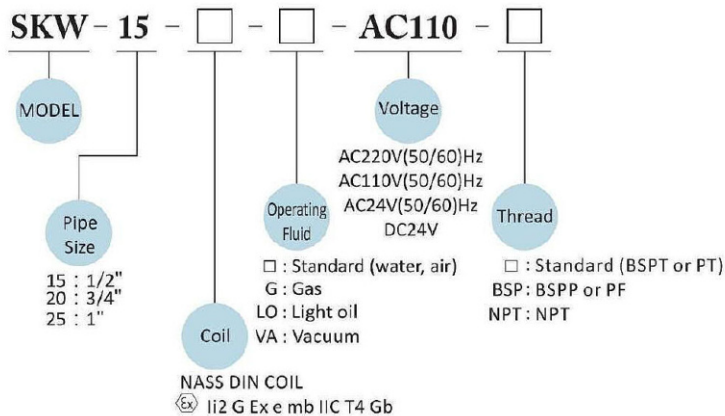
PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	NASS ex-proof DIN COIL	Stainless steel	Stainless steel	Stainless steel	VITON	Stainless steel	Stainless steel	PTFE	Stainless steel



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
SKS-15			1/2"	4.0	17mm	-5°C ~ +70°C	0.5~10	0.5~10		0.5~10		84	170	62	1.61
SKS-20			3/4"	6.0	17mm	-5°C ~ +70°C	0.5~10	0.5~10		0.5~10		84	171	62	1.68
SKS-25			1"	12	22mm	-5°C ~ +70°C	0.5~10	0.5~10		0.5~10		98	181	62	2.08

SKW-15~25



PRODUCT DESCRIPTION

- SKW series is direct, multiplex, connected diaphragm, conductive, and normally closed (NC)2/2 way solenoid valve.
- Explosion proof Protection Level: EX IIC G Ex e mb IIC T4 Gb
- IP 67
- Able to be operated directly under low pressure
- Availability of fluid type: water, air, light oil, gas, vacuum
- Acceptable for customization Viton , Silicone and EPDM for diaphragm

CAUTIONS:

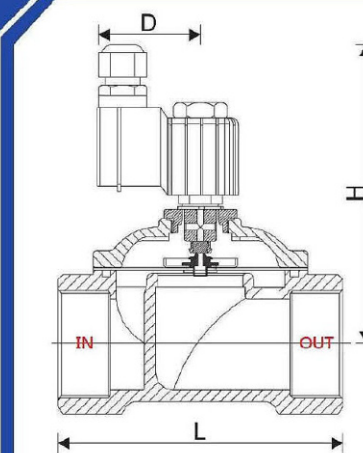
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- Ambient temperature should be under 70°C
- Operating temperature should be under 60°C
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Crystallized fluid, Ex: sea water
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	NASS ex-proof DIN COIL	Stainless steel	Stainless steel	Stainless steel	Viton	NBR	Stainless steel

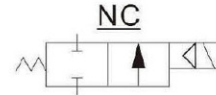
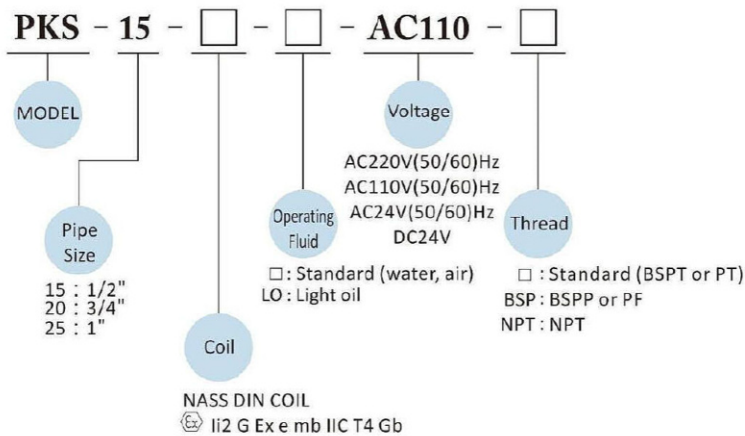


SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Torr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
SKW-15			1/2"	4.5	15mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	70	133	62	1.04
SKW-20			3/4"	8.6	20mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	76	140	62	1.12
SKW-25			1"	12	25mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	100	147	62	1.66

Explosion Proof Series

PKS-15~25



PRODUCT DESCRIPTION

- PKS series is multiplex, pilot operated piston, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Explosion proof protection level: EX II2 G Ex e mb IIC T4 Gb
- IP 67
- Specially suitable for frequent operation
- Availability of fluid type: water, air, light oil

CAUTIONS:

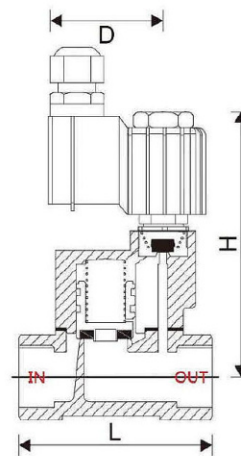
- Minimum pressure to open: over 0.5kgf-cm²
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- Ambient temperature should be under 70°C
- Operating temperature should be under 60°C
- AC voltage tolerance: ± 10%; DC voltage tolerance: ± 1%
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Crystallized fluid, Ex: ocean water
- Viscosity over 20cst

MATERIAL:

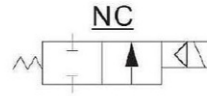
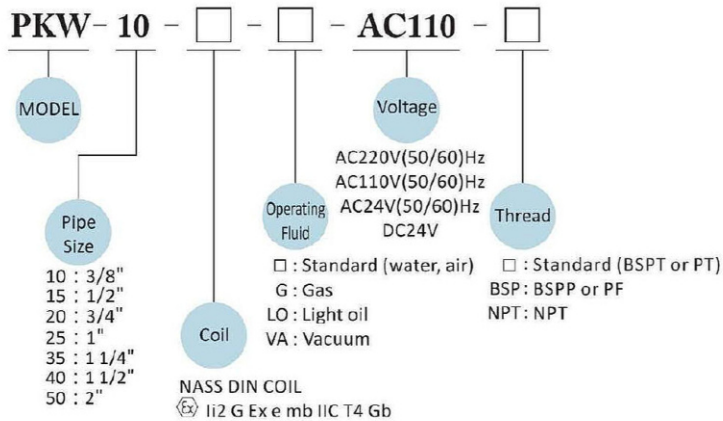
PARTS	Coil	Tube	Spring	Core	Plug	Piston Spring	Piston	Piston plug	Valve body
MATERIAL	NASS ex-proof DIN COIL	Stainless steel	Stainless steel	Stainless steel	VITON	Stainless steel	Brass	PTFE	Forged Brass



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas	L	H	D	
PKS-15			1/2"	4.0	17mm	-5°C ~ +70°C	0.5~10	0.5~10		0.5~10		82	155	62	1.55
PKS-20			3/4"	6.0	17mm	-5°C ~ +70°C	0.5~10	0.5~10		0.5~10		82	157	62	1.61
PKS-25			1"	12	22mm	-5°C ~ +70°C	0.5~10	0.5~10		0.5~10		100	172	62	2.36

PKW-10~50



PRODUCT DESCRIPTION

- PKW series is direct, multiplex, connected diaphragm, conductive, and normally closed (NC) 2/2 way solenoid valve.
- Explosion proof Protection Level: EX II 2 G Ex e mb IIC T4 Gb
- IP 67
- Able to be operated directly under low pressure
- Availability of fluid type: water, air, light oil, gas, vacuum
- Acceptable for customization Viton , Silicone and EPDM for diaphragm

CAUTIONS:

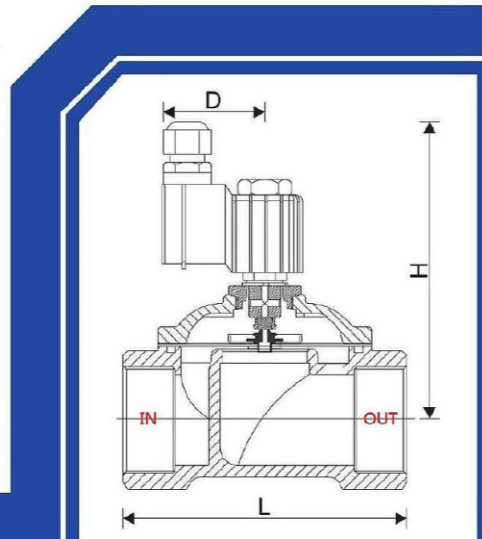
- Before pipelining, the pipe line must be very clean without any contaminants or any other things not ought to be existed.
- To prolong the life time of the product, Y-line filter should be installed in the front end of solenoid valve.
- Ambient temperature should be under 70°C
- Operating temperature should be under 60°C
- AC voltage tolerance: $\pm 10\%$; DC voltage tolerance: $\pm 1\%$
- It should be installed horizontally; vertical installation is not advisable.

Not Suitable For Fluid As Below:

- Liquid status when it is high temperature; solid status when it is cool.
- Corrosive fluid
- Crystallized fluid, Ex: ocean water
- Viscosity over 20cst

MATERIAL:

PARTS	Coil	Tube	Spring	Core	Plug	Diaphragm	Valve body
MATERIAL	NASS ex-proof DIN COIL	Stainless steel	Stainless steel	Stainless steel	Viton	NBR	Forged Brass



SPECIFICATION

MODEL	Waterproof DIN/flying lead Coil	NASS DIN Coil (IP65)	PIPE SIZE	CV	ORIFICE	FLUID TEMP. (°C)	Operating Pressure kgf / cm ² (bar)					Vacuum (Iorr)	Dimension (mm)			Weight (kg)
							Water	Air	Steam	Light oil	Gas		L	H	D	
PKW-10			3/8"	2.4	15mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	70	133	62	1.05
PKW-15			1/2"	4.5	15mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	70	133	62	1.04
PKW-20			3/4"	8.6	20mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	73	140	62	1.16
PKW-25			1"	12	25mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	100	147	62	1.76
PKW-35			1 1/4"	24	35mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	130	178	62	3.39
PKW-40			1 1/2"	28	40mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	130	183	62	3.49
PKW-50			2"	48	50mm	-5°C ~ +70°C	0~5	0~7		0~5	0~7	0~10 ⁻³	165	191	62	5.08

Explosion Proof Series

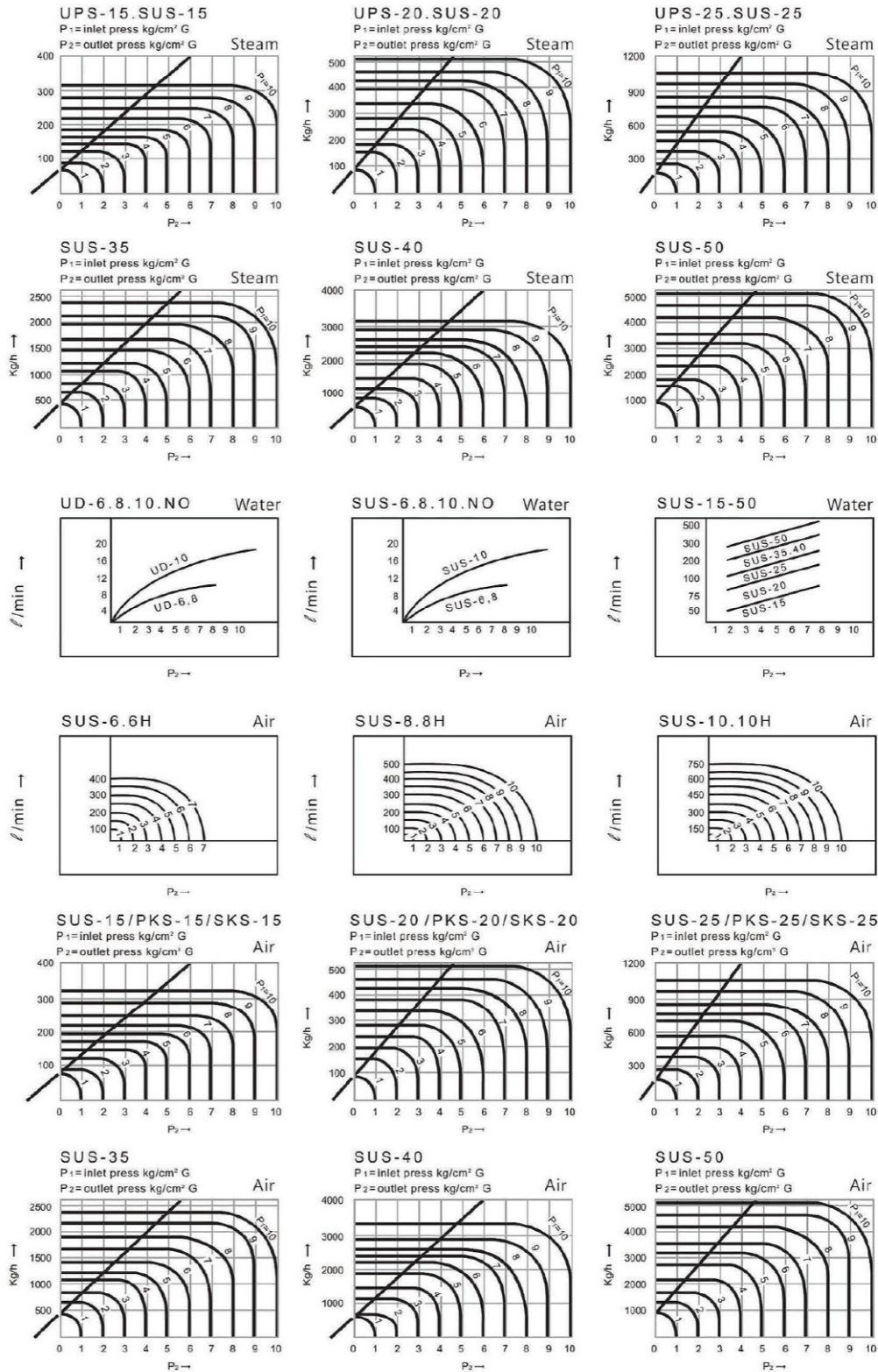


Flow Rate Table

Flow Rate Table

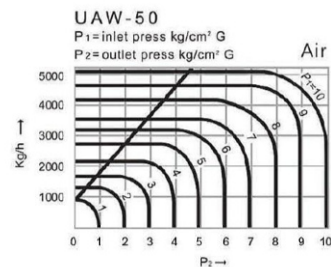
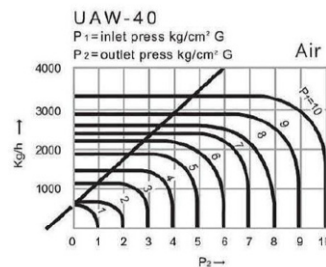
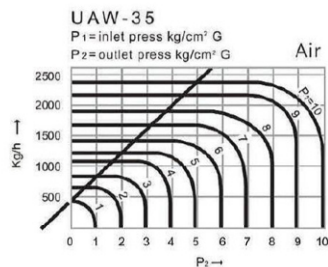
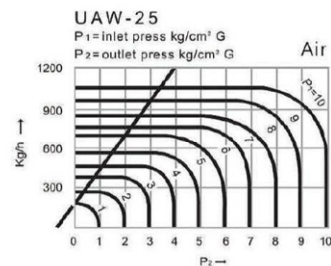
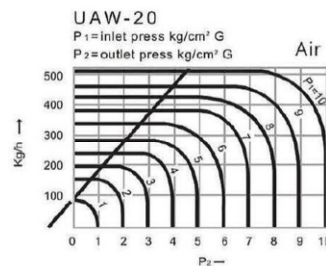
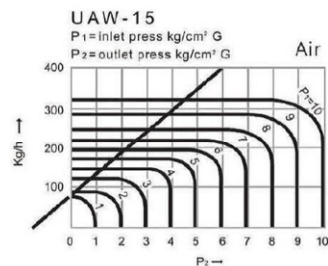
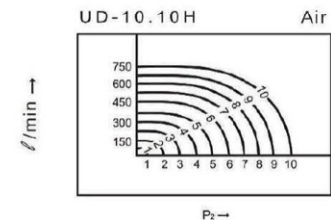
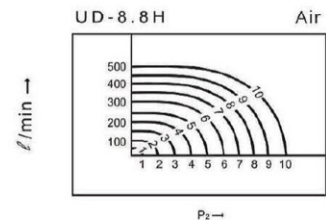
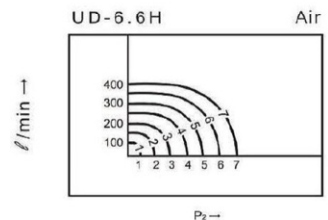
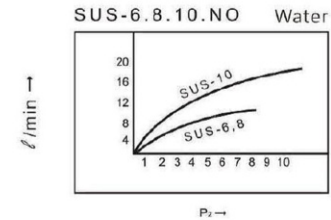
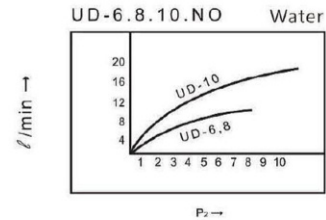
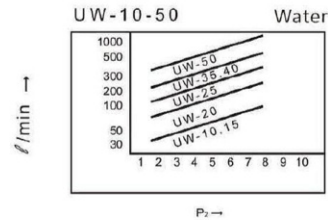
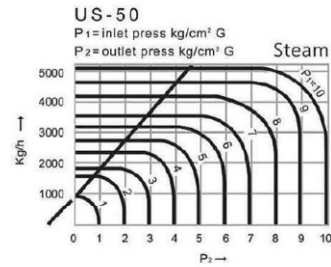
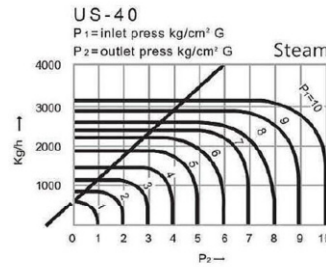
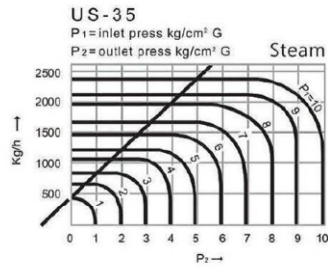
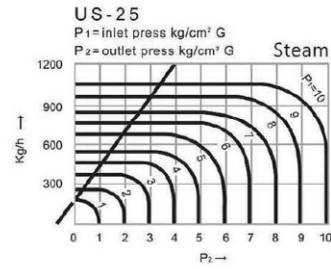
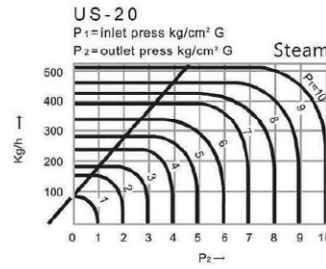
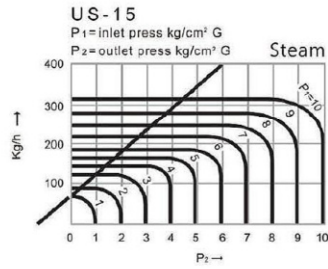
- **Flow Rate Table. 1**
- **Flow Rate Table. 2**
- **Flow Rate Table. 3**

Flow Rate Table . 1



● Steam/Air P₁=Inlet press kg/cm² Steam/Air P₂=Outlet press kg/cm² Water : Diff. press kg/cm²

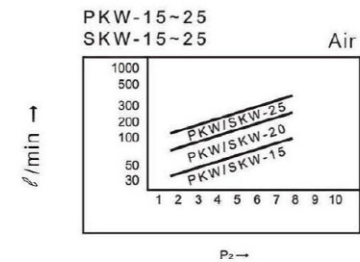
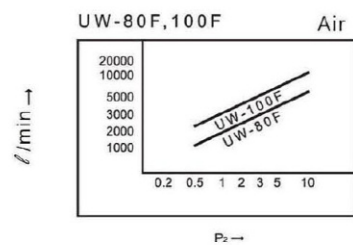
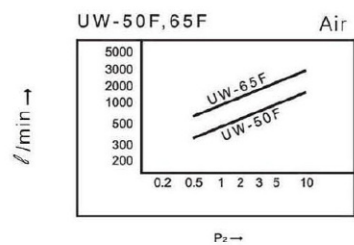
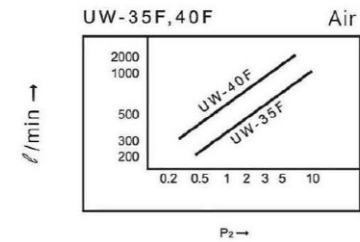
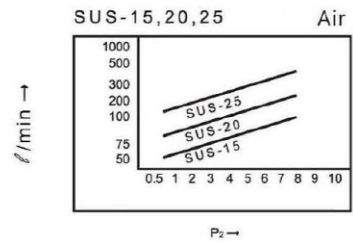
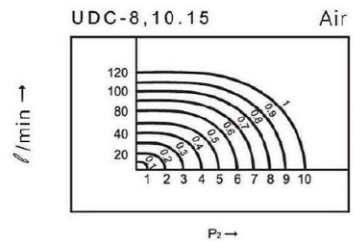
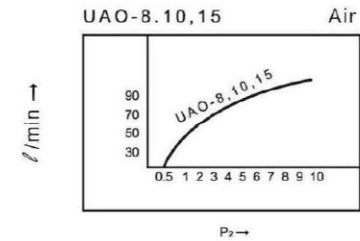
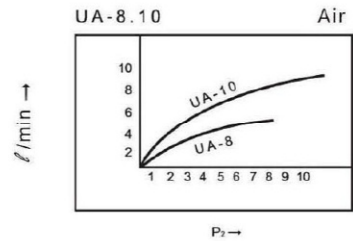
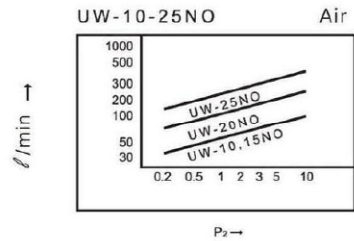
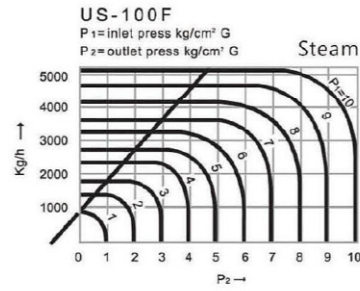
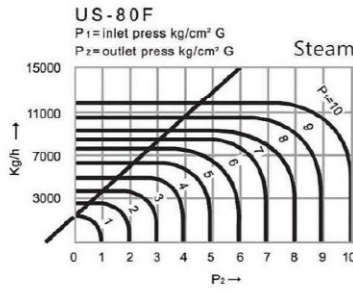
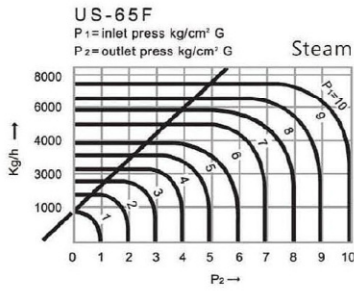
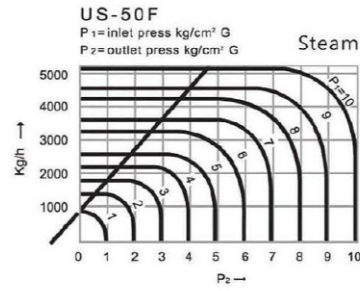
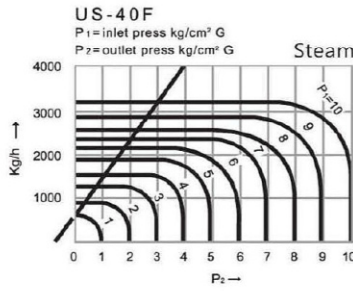
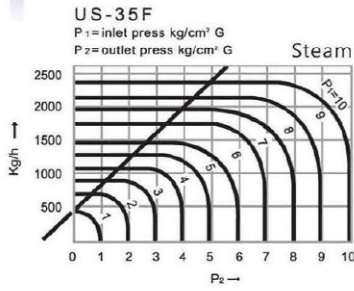
Flow Rate Table. 2



Flow Rate Table

● Steam/Air P₁=Inlet press kg/cm² Steam/Air P₂=Outlet press kg/cm² Water : Diff. press kg/cm²

Flow Rate Table. 3



● Steam/Air P₁=Inlet press kg/cm² Steam/Air P₂=Outlet press kg/cm² Water : Diff. press kg/cm²