

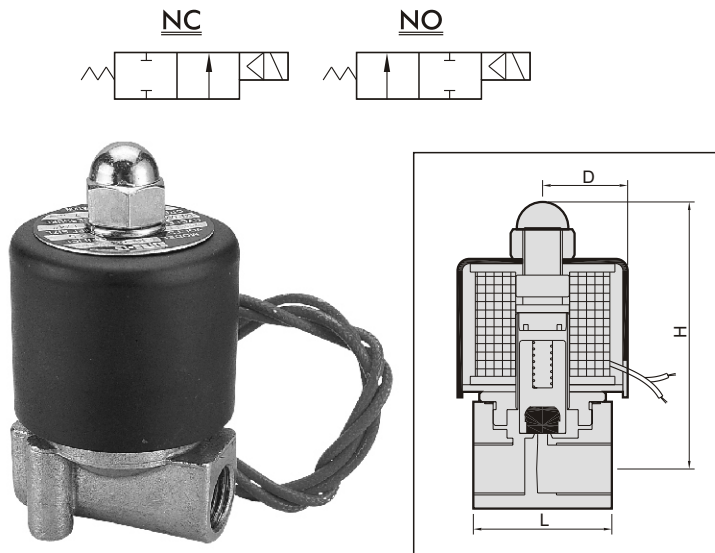
# MSUS series (Low flow) Normally closed / Normally open

## SOLENOID VALVE



2-WAY normally closed / normally open solenoid valve.

Available fluid: Water, air, steam, gas & vacuum.



### Specification :

- MSUS series is direct-drive, conductive, normal close.
- Valve body made of investment casting S/S 316.
- Small size & easy assembly.
- Can be operated directly without pressure.
- Other voltage of AC/DC available when required.
- Viton(130℃), Silicon(130℃), PTFE(185℃), NBR(80℃).
- AC Voltage tolerance:  $\pm 10\%$ .
- DC Voltage tolerance:  $\pm 1\%$ .

### Material:

Parts name	Material
Body	CF8M
Coil	Special copper wire (H)
Tube	Stainless steel
Spring	Stainless steel
Core	Stainless steel
Plug	NBR, Viton, Silicon, PTFE
Washer	NBR, PTFE

### Order example:

**MSUS-8-NO-□-G-□-AC110-BSP**

**MODEL**  
 □ : Normally closed  
 NO: Normally open

**PIPE SIZE**  
 6 : 1/8"  
 8 : 1/4"  
 10 : 3/8"

**SEAL MAT'L**  
 □ : NBR  
 V : Viton  
 S : Silicon  
 P : PTFE

**FLUID**  
 □ : Water, Air  
 G : Gas  
 VA : Vacuum  
 T : Steam

**VOLTAGE**  
 AC220V(50/60)Hz  
 AC110V(50/60)Hz  
 DC24V

**COIL**  
 □ : Special copper wire  
 D : DIN

**PORT THREAD**  
 Blank: PT thread  
 BSP: BSP thread  
 NPT: NPT thread

### Not for fluid of:

- Liquid when heat, solid when cool.
- Corrosive fluid.
- Viscosity over 50 cst.

### Caution:

- Pipes must be washed neat and clean before fitted.
- A Y-STRAINER has to be installed in the front of solenoid valve, that is best for long life.

	Model	DIN	Pipe size	Cv	Orifice (mm)	Fluid temp	Max. operating pressure diff. kgf/cm <sup>2</sup>					Dimensions(mm)			Weight (kg)
							Water	Air	Steam	Gas	Vacuum	L	H	D	
NC	MSUS-6		PT 1/8"	0.23	2.5	-5~+185℃	0~7	0~7	0~7	—	—	41	63	21	0.3
	MSUS-8		PT 1/4"	0.23	2.5	-5~+185℃	0~7	0~7	0~7	—	—	41	63	21	0.3
	MSUS-10	●	PT 3/8"	0.58	4	-5~+185℃	0~10	0~10	0~10	—	—	54	75	48	0.6
NO	MSUS-6-NO		PT 1/8"	0.23	2.5	-5~+80℃	0~7	0~7	—	0~7	0~10 <sup>-3</sup> Torr	41	90	21	0.4
	MSUS-8-NO		PT 1/4"	0.23	2.5	-5~+80℃	0~7	0~7	—	0~7	0~10 <sup>-3</sup> Torr	41	90	21	0.4
	MSUS-10-NO		PT 3/8"	0.58	4	-5~+80℃	0~10	0~10	—	0~10	0~10 <sup>-3</sup> Torr	54	116	48	0.7

※ The pressure ratings indicated above are based on AC110V/220V. The maximum pressure may vary in case on DC/AC24V.

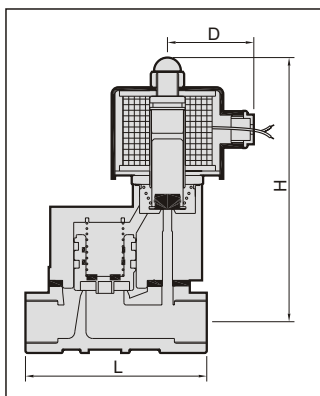
# MSUS series (High flow) Normally closed / Normally open

## SOLENOID VALVE



2-WAY normally closed / normally open solenoid valve.

Available fluid: Water, air, steam & Light oil.



### Specification :

- MSUS series is multiplex-drive, piston guide, conductive normal close / normal open.
- Valve body made of investment casting S/S 316.
- Can be operated directly without pressure.
- Other voltage of AC/DC available when required.
- The standard product fluid temperature is 185°C (PTFE).
- Applicable for working in high frequency movement location.
- AC Voltage tolerance:  $\pm 10\%$ .
- DC Voltage tolerance:  $\pm 1\%$ .

### Material:

Parts name	Material
Body	CF8M
Coil	Special copper wire (H)
Piston	#316
Tube	Stainless steel
Spring	Stainless steel
Core	Stainless steel
Plug	PTFE
Bonne / Nut	PTFE

### Order example:

**MSUS-35-NO-□-T-AC110-BSP**

MODEL

□ : Normally closed  
NO: Normally open

PIPE SIZE

15 : 1/2"  
20 : 3/4"  
25 : 1"  
35 : 1 1/4"  
40 : 1 1/2"  
50 : 2"

VOLTAGE

AC220V(50/60)Hz  
AC110V(50/60)Hz  
DC24V

PORT THREAD

Blank: PT thread  
BSP: BSP thread  
NPT: NPT thread

FLUID

□ : Water, Air  
LO : Light oil (Note, if diesel fuel or gasoline.)  
T : Steam

COIL

□ : Special copper wire  
D : DIN

### Not for fluid of:

- Liquid when heat, solid when cool.
- Corrosive fluid.
- Viscosity over 20 cst.
- Temperature over 185°C.

### Caution:

- Pipes must be washed neat and clean before fitted.
- A Y-STRAINER has to be installed in the front of solenoid valve, that is best for long life.

	Model	DIN	Pipe size	Cv	Orifice (mm)	Fluid temp	Max. operating pressure diff. kgf/cm <sup>2</sup>				Dimensions(mm)			Weight (kg)
							Water	Air	Steam	Light oil	L	H	D	
NC	MSUS-15	●	PT 1/2"	4	17	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~10	82	120	48	1.4
	MSUS-20	●	PT 3/4"	6	17	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~10	82	120	48	1.5
	MSUS-25	●	PT 1"	12	22	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~10	100	134	48	1.8
	MSUS-35	●	PT 1 1/4"	18	30	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~10	125	138	48	2.8
	MSUS-40	●	PT 1 1/2"	22	30	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~10	125	146	48	2.9
	MSUS-50	●	PT 2"	48	50	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~10	168	173	48	5.8
NO	MSUS-15-NO		PT 1/2"	4	17	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~8	82	120	48	1.4
	MSUS-20-NO		PT 3/4"	6	17	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~8	82	120	48	1.5
	MSUS-25-NO		PT 1"	12	22	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~8	100	134	48	1.8
	MSUS-35-NO		PT 1 1/4"	18	30	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~8	125	138	48	2.8
	MSUS-40-NO		PT 1 1/2"	22	30	-5~+185°C	0.5~10	0.5~10	0.5~10	0.5~8	125	146	48	2.9
	MSUS-50-NO		PT 2"	48	50	-5~+185°C	0.5~8	0.5~8	0.5~8	0.5~8	168	173	48	5.8

※The pressure ratings indicated above are based on AC110V/220V. The maximum pressure may vary in case on DC/AC24V.