

GENERAL KNOWLEDGE



General Instruction for Solenoid

For your own safty, please read the instruction below before you inquiring / using our products.

Application

 $-\,$ Fluid in the pipeline MUST BE same as instruction shows on a solenoid.

 The fluid's temperature needs to be lower than valve's standard temperature.

Our products normally allowed fluid's viscosity under 20 CST.

 If the highest working pressure difference lower than 0.05 MPa, please select Direct-Acting type. If the difference higher than 0.05 Mpa, please select Pilot-Operated type (Diaphragm type).

 Originally our products are working ONE DIRECTION, please install by fluid flow direction to avoid the reverse pressure. Could install stop-check valve if the counter current shows.

 Please install filter before installing Solenoid valve if the fluid isn't clean, to reduce any wastes and impurities from the pipeline.

- Please check your available flow aperture and nozzle diameter.

 Normally our products only have ON / OFF two switches, if its available, please install side-manual switch for your maintenance convenience.

 When there's water hammer phenomenon, please aware of valve switching time adjustment and choose the suitable product.

- Be aware of the effect caused by environmental temperature.

Install Caution

- Clean the pipeline with fluids, make sure it already removed any dusts, impurities, rust and stop tapes.

 Please keep 1.5~2 turns screw thread while wrapping stop tapes.

 Sealant might be easily flow into the product, and may cause malfunction if using too much sealant while installing.

(Aluminum alloy)

Caliber	Tightening torque suggest				
Rc 1/8	7~9 N•m				
Rc 1/4	12~14 N•m				
Rc 3/8	22~24 N•m				
Rc 1/2	28~30 N•m				
Rc 3/4	31~33 N•m				
Rc 1	36~38 N•m				
Rc 1-1/4	40~42 N•m				
Rc 1-1/2	48~50 N•m				
Rc 2	57~56 N•m				

- Power voltage can allowed about ±10% fluctuation, volt-ampere is higher while using AC starts.

 The solenoid valve can be divided into two types. N.C. (Normal Closed) and N.O. (Normal Open), please select your suitable type.

Security

 Solenoids are not suitable for power on for a long time because of its design principles. If it powered on too long, metal coil will overheat cause shortened life and malfuncion.

 Regular-type solenoid is not waterproof, please select waterproof type if the environment not allowed.

 Solenoid's highest standard pressure must exceed the highest pressure in the pipeline or it will cause shortened life and other malfunction.

 Please select full-stainless steel type if its corrosive fluid.
High acid and alkaline fluids are suitable for PTFE valve body style.

 Dangerous environment that may cause explosion needs to select corresponding explosion-proof products.

 It's better install with horizontal direction and coil face up.

- Make sure you have enough space for maintenance.

Do not press coil parts while installing.

 Check the pipeline direction, leak or not, wire connection after the installment.

(Brass, Stainless steel)

Caliber	Tightening torque suggest				
Rc 1/8	18~20 N•m				
Rc 1/4	23~25 N•m				
Rc 3/8	31~33 N•m				
Rc 1/2	41~43 N•m				
Rc 3/4	62~65 N•m				
Rc 1	83~86 N•m				
Rc 1-1/4	97~100 N•m				
Rc 1-1/2	104~108 N•m				
Rc 2	132~136 N•m				



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Precautions in maintenance

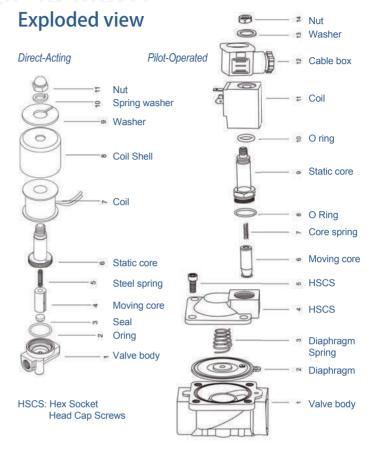
 Solenoid coil and its drive element will heat after power on, please DO NOT touch or it will cause scald.

 If you need to decompose our product to inspect, please remove the power, and release the rest of the pressure in the pipeline. Make sure you are safe then continue the progress.

 To avoid rubber parts in the valve expansion or deformation, Please use neutral cleaner when you are cleaning the parts of valve.

— If you are not going to use our product of a long time after you used, please completely remove the rest of the fluid in the valve. If there's any fluid residue, it will get rusty in the next time you use and cause poor product performance.

 To keep its best situation, please arrange regular inspect and change parts by its usage frequency.



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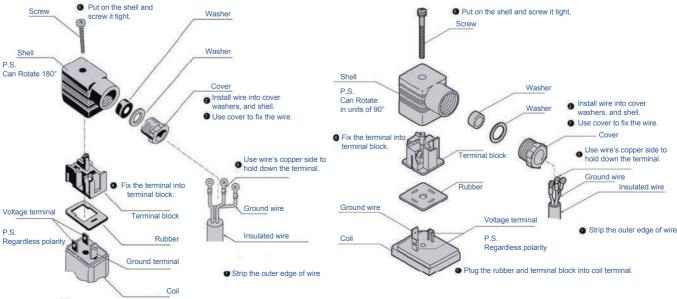
Cable box connection

DIN Cable box (Pg9)

- 1. Please use insulated wire, Outer diameter Ø 6~Ø 10 mm, section area 0.5 ~ 1.5 mm².
- 2. Tightening torque suggest 0.5N \cdot m
- 3. If you need to change wire direction, take out cable box
- from shell, rotate 180 degrees then press into shell again. 4. Follow instruction from step 1 to step 7.

DIN Cable box (Pg11)

- 1. Please use insulated wire, Outer diameter Ø 6~Ø 10 mm, section area 0.5 ~ 1.5 mm².
- 2. Tightening torque suggest 0.5N \cdot m
- 3. If you need to change wire direction, take out cable box
- from shell, rotate 90 degrees then press into shell again.
- 4. Follow instruction from step 1 to step 7.



Plug the rubber and terminal block into coil terminal.



PRODUCT/ SOLENOID VALVE



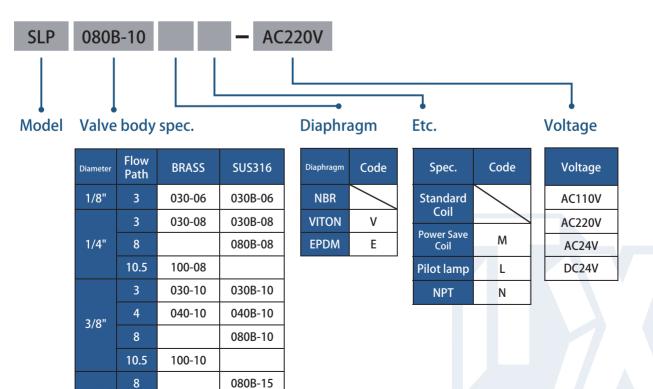
SLP Series 2 Port Solenoid Valve		Specifications Characteristics						
		Model	SLP Series					
		Structure	2/2 way N. C. (Normal Close)					
		Fluid	Air, Inert gas, Water, Light oil					
SLP030B-05 mil		Temperature	-5°C - 70°C - 110°C (VITON Diaphragm can reach 110°C)					
		Environment	Temp10 - 55°C ; Humidity. 10 - 90% RH					
		Caliber	Thread 1/8" - 1/2" G (Standard) / NPT (Select)					
		Pressure	0 - 16 kgf/c m²					
	Power save	Material	Brass, Stainless steel SUS316					
	Waterproof Coil	Diaphragm	NBR, VITON, EPDM					
	Con	Voltage	AC110V, AC220V, AC24V, DC24V. Allowed flow range ±10%					
		Coil Level	1. Standard DIN Coil (Protect level. IP65) 2. Power-Saving DIN waterproof Coil (Protect level. IP65) (Saving Energy 70%, Small temp rise, Long life)					
		Installment	According to the fluid flow direction. Horizontal installation, coil face up, is better.					

How to select model

1/2"

10.5

100-15







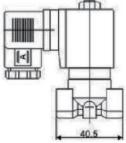
PRODUCT/ SOLENOID VALVE

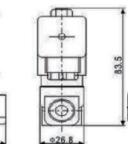
N.C Specifications list (According to the standard valve coil)

	1		1				<u> </u>			_			
				Pressure Range (kgf/ cm²)							Power		
(noc	Flam			Maximum Pressure						AC	DC	Weight	
Diameter		Flow path	CV	Min. Pressure	Air		Fluid		Light oil <20CST		220V	24V	
		mm			AC	DC	AC	DC	AC	DC	VA	W	Kg
030 🗌 -06	1/8"	3	0.23	0	13	13	13	13	10	10	22	13	0.37
030 🗌 -08		3	0.23	0	13	13	13	13	10	10	22	13	0.36
080 🗌 -08	1/4"	8	1.2	0	16	10	16	10	13	10	22	13	0.51
100 🗆 -08		10.5	1.47	0	16	10	16	10	13	10	22	13	0.51
030 🗆 -10		3	0.3	0	13	13	13	13	10	10	22	13	0.35
040 🗆 -10	3/8"	4	0.6	0	8	8	8	8	6	5	22	13	0.35
080 🗆 -10	5/8	8	1.2	0	16	10	16	10	13	10	22	13	0.49
100 🗆 -10		10.5	1.68	0	16	10	16	10	13	10	22	13	0.49
080 🗆 -15	1/2"	8	1.2	0	16	10	16	10	13	10	22	13	0.46
100 🗆 -15		10.5	1.75	0	16	10	16	10	13	10	22	13	0.46

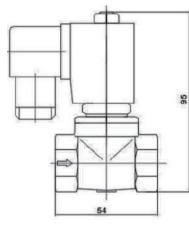
Dimensions (mm)

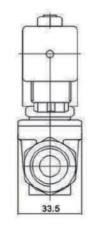
Standard coil (Flow path 3, 4)





Standard coil (Flow path 8, 10.5)





Power-Save coil parameters

Coil	Ροι	wer	Electric			
Code	le Voltage	Activate	Hold	Activate	Hold	
SM31	AC220V	78VA	4.5VA	350mA	20mA	
SM32	AC110V	72VA	5.0VA	660mA	45mA	
SM34	AC24V	19VA	7.0VA	940mA	310mA	
SM36	DC24V	50W	7.2W	2185mA	350mA	

