

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

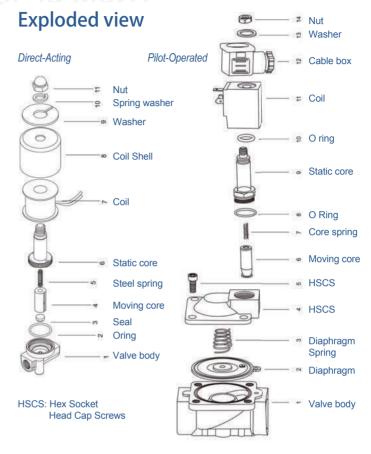
 Solenoid coil and its drive element will heat after power on, please DO NOT touch or it will cause scald.

 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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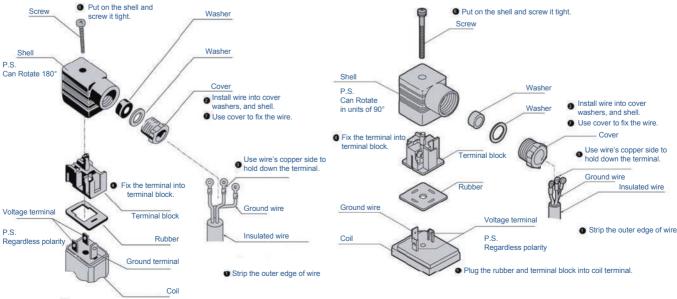
Cable box connection

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



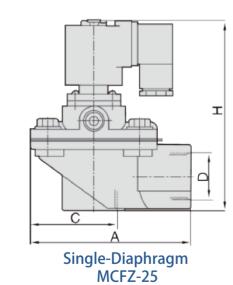
MCFZ Series 2Port Solenoid Valve

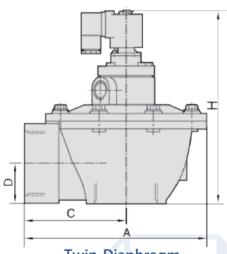


Specifications Characteristics

Model	MCFZ series				
Structure	2/2 way N. C. (Normal Close)				
Allow Fluid	Compressed air				
Allow ENV	Temp10 - 55°C ; Humidity. 10 - 90% RH				
Caliber	Thread 1 - 3" G (Standard)				
Withstand pressure	Max. 8 Bar				
Pressure	4 - 6 Bar				
Material	Die-cast aluminum alloy				
Diaphragm	NBR				
Voltage	AC110V - 220V, DC12, DC24				
Power consumption	20W				
Protect Level	IP-65				
Install	360° Full Direction				

Dimensions (mm)





Twin-Diaphragm MCFZ-25

Code	A	с	D	Н	Diameter
MCFZ-25	110	63	21.5	125	G 1"
MCFZ-40S	140	78	32.5	170	G1-1/2"
MCFZ-50S	210	112	40	200	G 2"
MCFZ-65S	210	115	48	225	G2-1/2"
MCFZ-76S	217	117	66	254	G 3"