

## AL-VS series on/off motorized valve

### AL-VS 系列开关型电动阀

Model 型号	Dimension 尺寸	Type 规格	Kv(Cv)factor 流量 Kv(Cv)	Close-off ΔP(Mpa) 关闭压力(Mpa)	Weight(g) 重量(g)
AL-VS 152	1/2 "	2-way valve(二通阀)	2.2(2.5)	0.18	700
AL-VS 153	1/2 "	3-way valve(三通阀)	2.6(3.0)	0.18	750
AL-VS 202	3/4 "	2-way valve(二通阀)	3.0(3.5)	0.16	850
AL-VS 203	3/4 "	3-way valve(三通阀)	3.4(4.0)	0.16	900
AL-VS 252	1 "	2-way valve(二通阀)	6.9(8.0)	0.14	1000
AL-VS 253	1 "	3-way valve(三通阀)	6.5(7.5)	0.14	1050

### SPECIFICATIONS (技术参数)

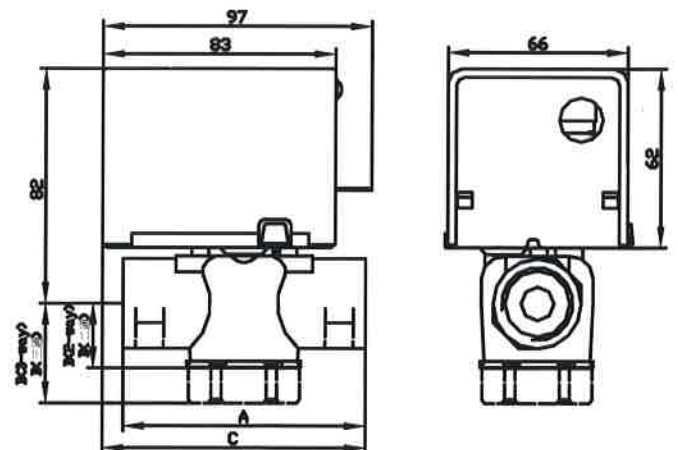
Medium 流体	cooling or heating water 冷或热水
Rated power supply 电压	220V , 24V
Power consumption 功率	7W
Operating fluid temperature range 操作温度	0-90°C (non-freezing) (不结露)
Operating temperature range 环境温度	0-40°C

Operating time 操作时间	Power Stroke 10 to 15 Seconds 打开 10~15 秒
	Spring Return Stroke 4 to 5 Seconds 关闭 4~5 秒

Operating pressure 操作压力	300psi / 2.0Mpa
Action 操作	Spring Return 弹簧复位 Normally Close 常闭

Material actuator 材料 驱动器	Stainless Steel Base Plate, Aluminum Cover 不锈钢支座及铝外壳
Valve body 阀体	Forged Brass 锻压黄铜
Valve flap 阀瓣	NBR

Model 型号	DIMENSIONS(mm) 尺寸(mm)		
	A	B	C
AL-VS 152	70	23	86
AL-VS 153	70	37	86
AL-VS 202	87	23	93
AL-VS 203	87	37	93
AL-VS 252	94	25	95
AL-VS 253	94	42	95



# AL-VS PIPING AND APPLICATION TIPS

## AL-VS 电动阀水管连接及应用注意事项:

These valves must be piped so that the paddle closes against the direction of flow (See Fig.1).

常闭阀在安装时，流向由端“B”到端“A”，见图1。

When installing the actuator to an NC valve, the actuator must be placed in the manually open position by using the manual operating lever.

当安装驱动器时，必须先把手动操作杆(只限常闭型)扳到“开”处。

The first time the valve is operated electrically, the manual operating lever of the actuator will transfer to the automatic position. The manual operating lever can be used to allow for flushing of the system after installation.

当第一次上电时，手动操作杆会转移至自动位置上。安装后，手动操作杆可作系统冲洗用。

AL-VS valves are designed for application to closed hydraulic heating and cooling systems.

此阀只能用于全封闭式冷热水系统，对开放式系统不适用。

Use in systems which have substantial make-up water (open systems) is not recommended. High levels of dissolved oxygen and chlorine round in open systems may attack the valve materials and result in premature failure.

在开放式系统里，高度的氧气及氯气溶解会侵蚀阀体材料，形成过早的损坏。

Due to condensation in chilled water applications, install over a drip pan.

由于冷水的应用会产生冷凝，水阀必须安装在接水盘上。

## AL-VS BODY CONFIGURATION AL-VS 电动阀水管连接图

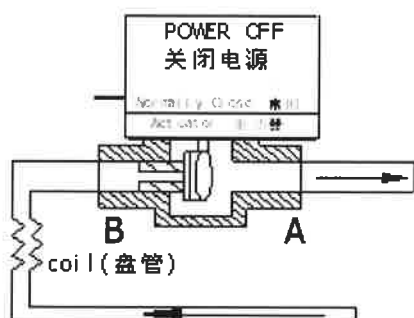


Fig. 1: 2-way Normally Closed to the Coil  
图 1: 二通阀(常闭)管道安装

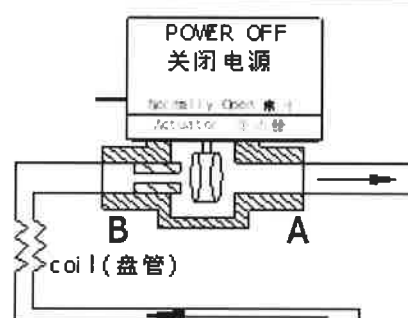


Fig. 2: 2-way Normally Open to the Coil  
图 2: 二通阀(常开)管道安装

3-way is only configured as N.C. to B port  
for N.O. configuration to the coil, simply turn the valve around.  
三通只作与B口常闭布置；若用于常开，将阀移转180°即可。

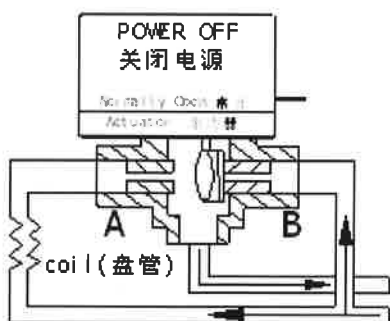


Fig. 3: 3-way valve in Mixing Configuration, Normally Open to coil  
图 3: 三通阀混合布置(常开)管道安装

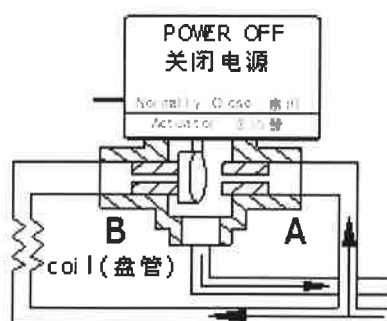


Fig. 4: 3-way valve in Mixing Configuration, Normally Closed to coil  
图 4: 三通阀混合布置(常闭)管道安装

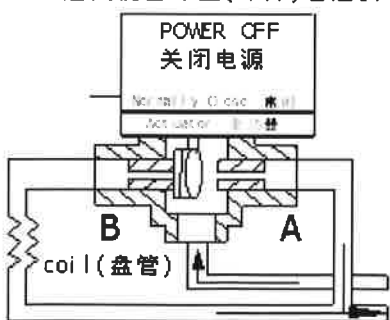


Fig. 5: 3-way valve in Diverting Configuration, Normally Closed to coil  
图 5: 三通阀分流布置(常闭)管道安装

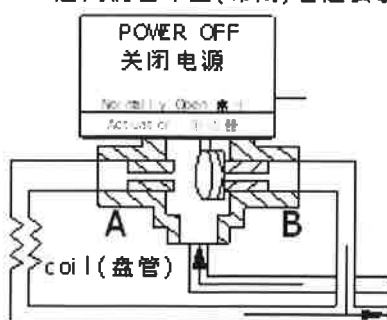


Fig. 6: 3-way valve in Diverting Configuration, Normally Open to coil  
图 6: 三通阀分流布置(常开)管道安装