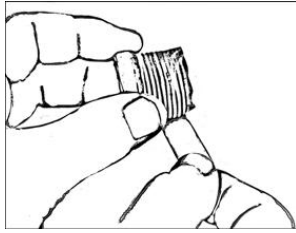
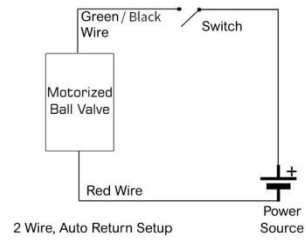


Thank you for purchasing your U.S. Solid Motorized Ball Valves. We are happy to have you as a customer! We want you to get the most out of your new equipment, so we have included a few pointers to get you started.



Threading

U.S. Solid Valves follow National Standards for pipe thread. In the U.S.A. we use NPT, while in England we use BSPT. We recommend use of teflon tape to ensure seal of the NPT threading, as shown in the figure above.



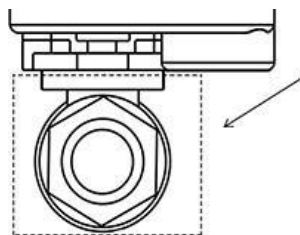
2 Wire, Auto Return Setup

Wiring

The 2 wire auto return can be connected directly to a simple On/Off Switch. When the valve is energized (by switching on), the valve will close. It will remain closed until the valve is de-energized (by turning the switch off, or due to loss of power)

Specifications

Models: USS-MBV000-		01, 02, 03, 04, 05	
Voltage	5V AC/DC	9-36V AC/DC	110V - 220V AC
Torque	2Nm		
Max Power	2W		
Open/Close Time	6-10 Seconds		
IP Rating (Casing)	IP 65		
Max Pressure	1.0Mpa		
Temp. Range for Flow Medium	0°C to 90° C		
Ambient Temp. Range	-5°C to 40° C		
indicator signal	Open, closed, stuck		



Warning

Some valve bodies consist of brass, which contain lead. Therefore, it should not be installed for drinking water.

Frequently Asked Questions

1) Is my valve de-energized when fully open or fully closed?

Answer: Yes, and there is a negligible amount of power used once fully closed. There is energy used when open as well, this allows the indicator lights to remain working. Check out the specifications sheet for further questions.

2) Does the valve require water or air pressure to work?

Answer: No! One of the benefits of motorized ball valves is they can work with little water pressure. This means a motorized ball valve can work even with gravity fed arrangements.

3) Can this valve be actuated manually?

Answer: No. Models depicted in this sheet are not designed to be opened or closed manually.

4) Will this return to open if power goes out?

Answer: Yes, all USS-MBV models are 2 Wire Auto Return. They will return to open if power goes out.

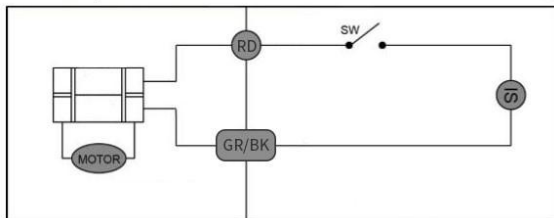
5) Can this valve be used outside?

Answer: The motorized ball valves all have a rating of IP65, which means they can withstand spray from water. However, if permanently installed outdoors, it is recommended that you enclose the motorized ball valve in some protective housing.

6) Can this motorized ball valve be powered continuously?

Answer: Due to the power limiting features of these valves, they can be hooked up to power non-stop without risk of overheating.

Wiring Schematics



1. When the circuit is closed (switch connecting the valve is on), the valve will close, and remain closed. Once closed, power consumption is nominal.

2. When the circuit is open (switch connecting the valve is off or power is lost), the valve will open. Once in this state, the valve is fully de-energized.

Warranty

All U.S. Solid motorized ball valves come with a one year warranty. We realize that other questions or concerns may arise during the installation and operation of your valve. Please contact us or visit our website for help.

Phone: 1-800-243-5428

Email: [service@ussolid.com](mailto:service@ussolid.com)

Website: [www.ussolid.com](http://www.ussolid.com)

Instructions on Environmental Protection

At the end of its life cycle, please do not dispose of this equipment by throwing it in the usual garbage. Instead, hand it over at a collection



point for the recycling of electrical and electronic appliances. It does not contain dangerous nor toxic products for humans, but inadequate disposal could still damage the environment.

UK DS3670YF The materials are recyclable as mentioned. By recycling material or through other forms or repurposing old appliances, you are making an important contribution to the protection of our environment. Please inquire with your local community authorities for the proper disposal location.