



Thank you for buying our U.S. Solid Motorized Ball valve. We appreciate your patronage! *All U.S. Solid motorized ball valves come with a ONE YEAR WARRANTY.* Our aim is to ensure that you can make the most of your new equipment, which is why we have provided some helpful tips to help you get started. Please refer to this manual for straightforward wiring diagrams, schematics, and specifications for your valve. Simply unfold the manual to access this information. For any questions and concerns, please contact us or visit our website for help.



THREADING

U. S.Solid Valves conform to National Standards for pipe thread. In the United States, we use NPT, whereas in Europe, we use BSPT. We advise using Teflon tape to ensure that the NPT threading is sealed properly. Please refer to the illustration on the left for further guidance.



FREQUENTLY ASKED QUESTIONS

- 1) Does the valve need water or air pressure to operate? **Answer:** No! One of the advantages of motorized ball valves is that they can function with minimal water pressure. This means a motorized ball valve can work even with gravity fed arrangements.
- 2) Will the ball inside the valve return to its original position if the power goes out? **Answer:** Yes.
- 3) Can this valve be used outside? **Answer:** The motorized ball valves are all rated IP65, which indicates that they can endure temporary immersion between 15cm and 1m. **However, if installed outdoors on a permanent basis, it is advised that you encase the motorized ball valve in a protective housing.**
- 4) 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.

SPECIFICATIONS

Material	Stainless Steel
Torque	< 6 N m
Open/Close Time	~ 8 seconds
Max. Power	5 W
Medium Pressure	<1.0 MPa
Medium Temperature	<100°C (212°F)
Ambient Temperature	<40°C (104°F)
Life Time	≥70000 times
Actuator Material	PPO
O-ring	Silicone GA
Sealing	PTFE
IP Rating	IP 65
Bore Type	Full
Auto Return	Yes

Model	Port Size	Voltage
USS-MSV20001	1/2"	AC110 V, US plug
USS-MSV20002	3/4"	AC110 V, US plug
USS-MSV20003	1"	AC110 V, US plug
USS-MSV20004	1-1/4"	AC110 V, US plug
USS-MSV20005	1-1/2"	AC110 V, US plug
USS-MSV20006	2"	AC110 V, US plug
USS-MSV20001-G	1/2"	AC220 V, EU plug
USS-MSV20002-G	3/4"	AC220 V, EU plug
USS-MSV20003-G	1"	AC220 V, EU plug
USS-MSV20004-G	1-1/4"	AC220 V, EU plug
USS-MSV20005-G	1-1/2"	AC220 V, EU plug
USS-MSV20006-G	2"	AC220 V, EU plug



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. 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.