

SplashBotix GEN II SplashValve

Fast-acting proportional flow control technology designed to enable the next generation of aquatic features and installations.



SplashBotix GEN II SplashValve Maintenance Guide

*Guide subject to change without notice.
Please check back with the factory for updates.*



SplashValve
Diverter Valve

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Contents

GEN II SplashValve Maintenance Procedures and Best Practices2

 Removing and Cleaning SplashValve Spools.....2

 Winterizing SplashValves4

GEN II SplashValve Maintenance Procedures and Best Practices

The SplashValve is comprised of 316 stainless steel and chemical and wear-resistant plastics and its internal diverter mechanism is magnetically coupled to the SplashValve's motor, eliminating the need for dynamic seals, which eventually wear away and leak. Combined, these characteristics enable the SplashValve to operate in harsh aquatic environments for prolonged periods of time.

However, the SplashValve's spool may, from time to time, collect hair, cigarette butts, leaves and other obstructive material commonly found in fountains and water features. While the presence of obstructive material inside the spool won't cause the SplashValve harm, it may obstruct the flow of water through the device. To mitigate the buildup of such material, it's suggested that owners or operators use adequate means of water filtration in their fountains, as well as remove and clear their SplashValve spools as needed.

Removing and Cleaning SplashValve Spools

Spool Removal Key: Every GEN II SplashValve order comes with a special key-shaped tool designed to remove both the SplashValve's spool and protective pressure plug. The tip of this tool, shaped like "Y", is inserted underneath the lip of spool and pressure plug such that it can be used to pull the plug or spool from the bore.



GEN II SplashValve Spool
Removal Tool

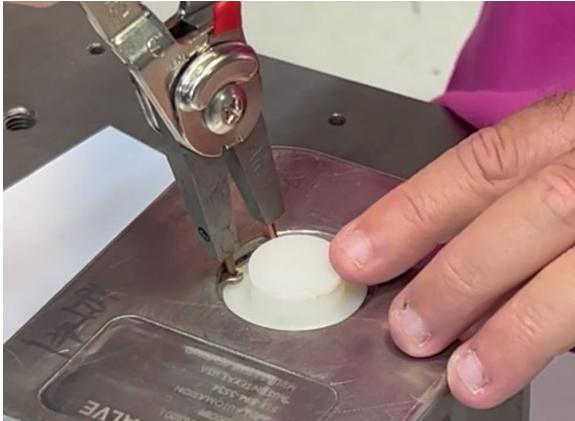


GEN II SplashValve Spool



GEN II SplashValve Pressure Plug

Removing the Pressure Plug and Spool: Each GEN II SplashValve comes with a snap ring that secures the spool while the SplashValve is in operation. To remove the SplashValve's spool, first pull out the snap ring. Then, using the removal key, remove the spool's protective pressure plug and then the spool from the SplashValve's bore. With the spool removed from the bore, use soap and water to wipe away or spray off any residue or obstructive material in or around the spool and bore. Once, thoroughly cleaned, place the spool back into the bore.



1. Remove Spool Pin



2. Remove Pressure Plug Using Tool



3. Remove Spool Using Tool



4. Clear Bore and Spool Using Soap/Water

Re-inserting the Spool and Pressure Plug: After the bore and spool have been cleaned out and cleared of any obstructive material, the spool should be carefully re-inserted into the bore such that the spool's rounded metal pin fits in into the corresponding groove located at the bottom of the bore. Due to the strong magnetic forces inside the SplashValve's bore, it is strongly recommended that those handling the SplashValve use the tool both to remove and re-insert the spool. Using the tool to remove and insert the SplashValve's spool ensures that fingers and other extremities remain clear of the SplashValve's bore while the spool is being oriented within the bore.

NOTE: During the startup process, each SplashValve's spool will "home" to a certain position specific to that SplashValve. Therefore, any time a spool is removed from a SplashValve, operators should make sure it's returned to the same SplashValve after servicing. If a spool is placed into a different SplashValve,

the spool will have to be re-homed and the SplashValve's RDM parameters and show programming will need to be reset.

Winterizing SplashValves

To winterize, SplashValve spools should be removed and kept in a plastic bag or container, while the rest of the SplashValve can be left inside a niche or basin throughout the winter. It's highly recommended that operators label each SplashValve and each SplashValve's corresponding spool to ensure that each spool is returned to its originally assigned SplashValve once startup begins the following season. If spools are placed in SplashValves different from those to which they were originally assigned, the spools will automatically re-home upon startup and the fountain will have to be reprogrammed. In order to prevent wear or damage due to the buildup of ice, each SplashValve's bore should also be thoroughly dried and its effect nozzle capped such that rain, snow or other precipitation can't collect in the device during the offseason.

Winterizing Best Practices

1. **Removing and Labeling Spools:** Be sure to remove the SplashValve spools and store them in plastic bags or water-tight containers. To ensure a seamless startup the following season, it's highly recommended to label each SplashValve and its originally assigned corresponding spool. This ensures that each spool can be returned to its respective SplashValve correctly during startup.
2. **Preventing Ice Build-Up:** To prevent any wear or damage caused by the accumulation of ice, make sure to thoroughly dry the bore of each SplashValve and cap its effect nozzle. This prevents rain, snow, or other precipitation from collecting in the device during the offseason.
3. **Storing SplashValves:** Once each device's spool has been removed, its bore thoroughly dried and its nozzle capped, SplashValves can be left installed in the field for the entire winter season.
4. **Winterizing Chemicals:** While the use of glycol or other winterizing agents are not necessary to winterize SplashValves, particularly if they are thoroughly dried, these agents will not damage the device if used to winterize SplashValves. If other potentially more corrosive winterizing agents are being used, operators can contact the factory to determine whether the SplashValve's components are at risk.