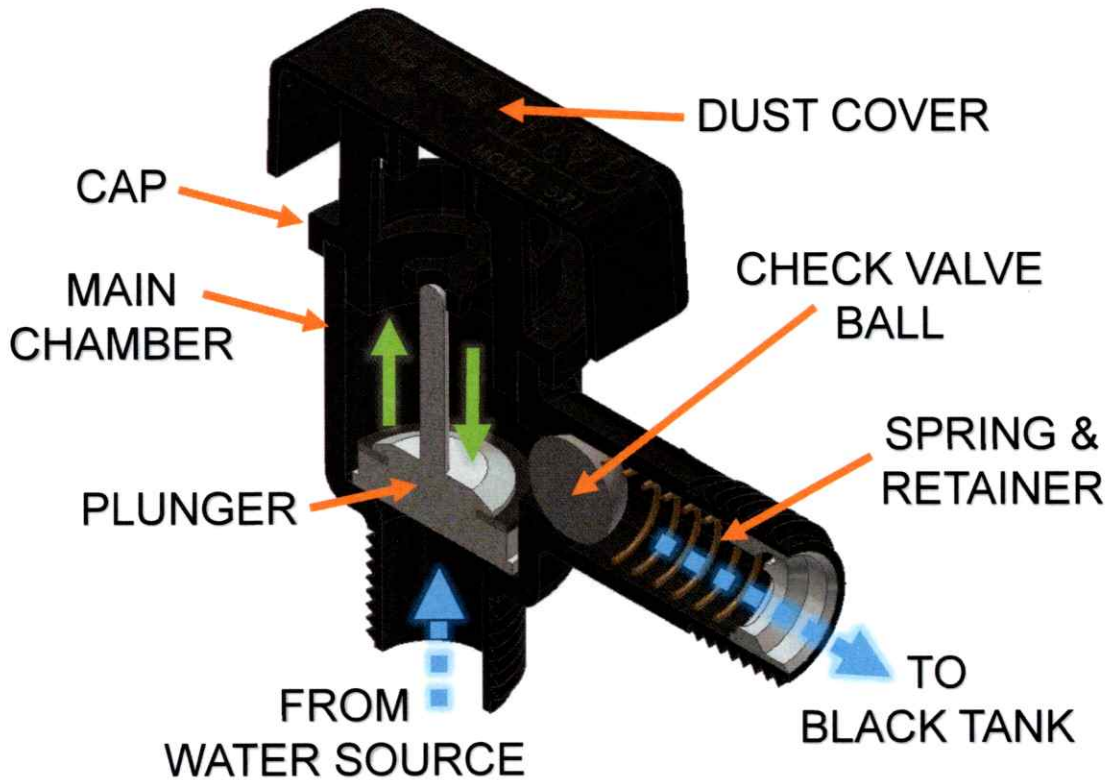


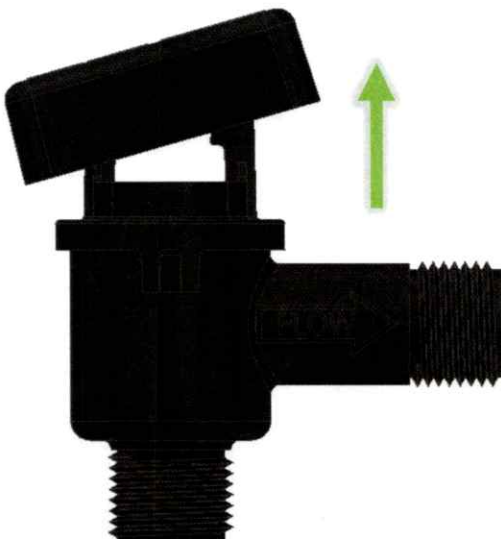


B&B Molders LLC

571 Vacuum Breaker Troubleshooting Guide



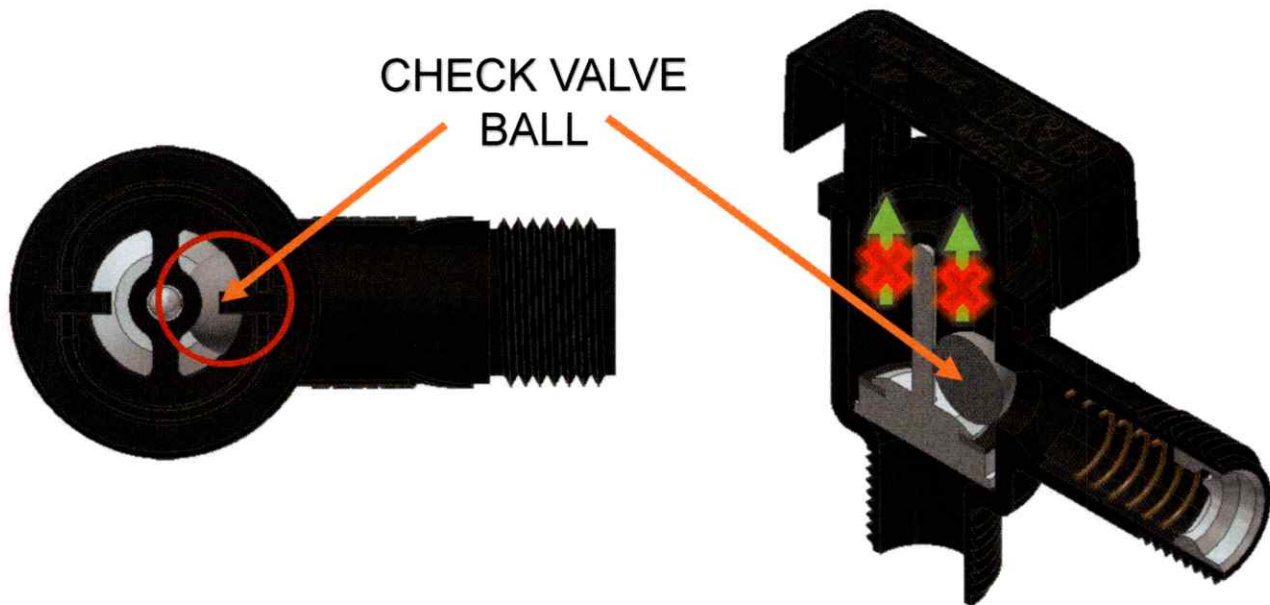
When the 571 Vacuum Breaker is functioning properly, the internal plunger will have free vertical travel within the main chamber. Contaminants or obstructions in the main chamber are the most common issue experienced with the 571 Vacuum Breaker.



The first step is to remove the 571 Vacuum Breaker from their unit for inspection. According to RVIA code, it should be located somewhere easily accessible, above the highest flood plane of the RV (toilet rim). It is commonly found beneath the bathroom sink, but some manufacturers may choose to put it in a different location. In which case, you may need to contact your RV manufacturer.

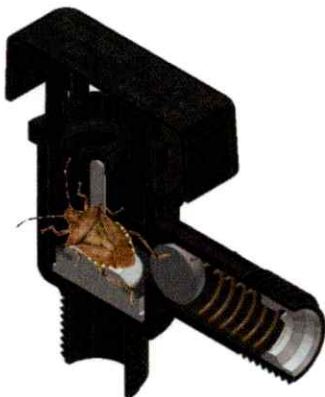
Remove the dust cover by grabbing under the cover, above the check valve (noted by arrow) that directs water to the black tank. This will require some force, but the part will not be damaged if done correctly.

After the dust cover has been removed, look inside the part from the top to determine if there is any debris or obstruction that could be interfering with the function of the plunger.

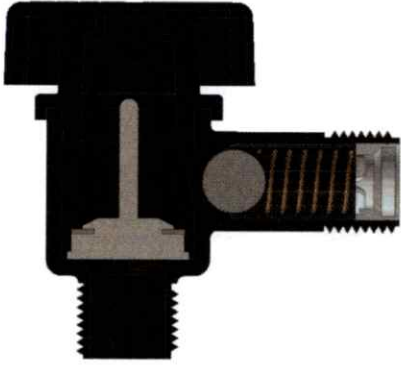


If pressure is present for an extended period, the check valve ball can migrate into the main chamber of the vacuum breaker. When this happens, vertical movement of the plunger is blocked, preventing a closed seal at the top, which allows water to flow around the plunger, over the cap, and onto the RV floor.

After extensive testing and application analysis, the only condition that results in ball migration is the presence of high pressure in the reverse direction for extended periods of time. According to RVIA code, the black waste-water holding tank should be properly vented by utilizing a minimum 1¼" pipe to create a "neutral air" condition. The vent pipe running from the tank to the roof is typically capped with a "mushroom" cap that serves as protection from the elements. Occasionally, critters or insects may block this pipe. In the tank, paper or solids can also become lodged in the vent, obstructing proper venting. Once obstructed, gases contained in the tank will build pressure (especially in high heat) for long periods of time, causing damage to occur. Once the ball makes its way into the main chamber, the part is no longer functioning properly and will likely leak. It is imperative to let the customer know that if this happens, they should check all points of ventilation to ensure that it does not happen again.



Occasionally, vertical plunger travel is restricted by debris that is not the check valve ball. Insects such as stink bugs, wasps, and ants have all been found inside of the main chamber preventing a seal from occurring. Carpet remnants, saw dust, stones, and metal shavings have also been found inside returned product. If it is general debris (not the check valve ball), carefully remove debris by hand or repeatedly blow out with compressed air. If removing by hand, avoid damaging the plunger. Then retest for proper seal



When debris isn't found inside of the vacuum chamber, connect it to a water source outside of the unit to test the flow. An adapter from a standard hose thread to the 1/2" standard pipe thread used on the 571 Vacuum Breaker will be necessary.

- If the part is continuing to leak from the top of the 571 while separated from the RV, we apologize for the inconvenience and will send a replacement part. B&B requests all suspect parts be returned for testing to determine cause of failure.

- Testing for leaks using oral air pressure is not an accurate way to determine if the part is functioning correctly, and it is likely contaminated with hazardous waste. **DO NOT EVER BLOW INTO THE PART WITH YOUR MOUTH.**