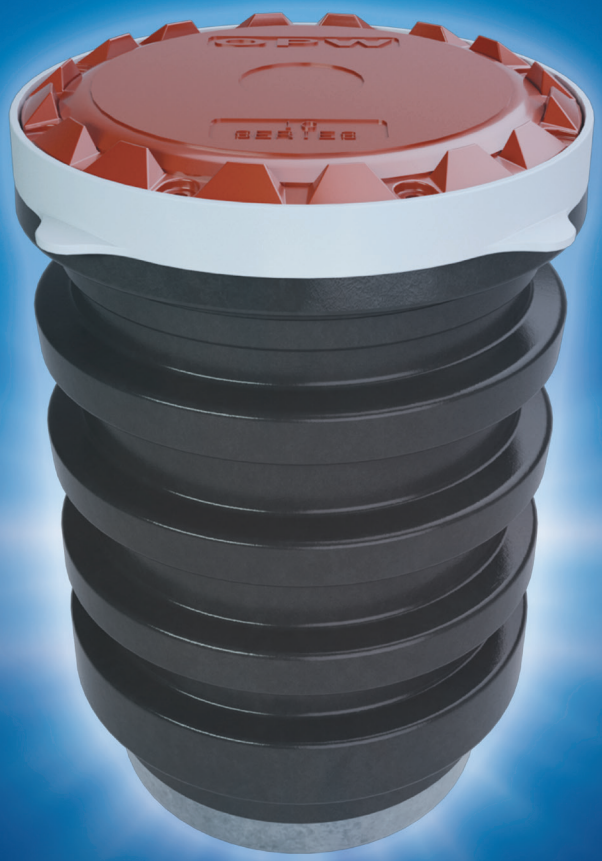
# EDGE™ SPILL CONTAINER TROUBLESHOOTING GUIDE



## CAUSES OF COMMON SPILL BUCKET MAINTENANCE ISSUES AND HOW TO ADDRESS THEM

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# SMARTER SPILL BUCKET TRO

**The OPW EDGE™ Double Wall Spill Container** is the fueling industry's premier 5- and 15-gallon spill container.

**Delivering best-in-class reliability, installation, testing and serviceability, almost every component on the EDGE™ can be repaired or replaced.**

OPW developed this guide to help retail fueling site maintenance and service personnel:

- Determine the causes of common EDGE™ spill bucket issues more quickly
- Know which part(s) of the spill container to inspect for a suspected issue and where to look for them
- Understand what part(s) to replace

## Where to Look/What to Check

Please refer to the back page of this brochure for a diagram of an OPW EDGE™ Double Wall Spill Container that illustrates where to begin investigating a potential problem.

**Issue:** Spill Container Loses Vacuum During Interstitial Test

| RECOMMENDED PATH/POSSIBLE CAUSE | WHERE TO LOOK/WHAT TO CHECK |
|---|---|
| **The plow ring is the most common leak path because the ring feels the force and weight of every car that drives over it. Fortunately, the repair is quick and inexpensive. To determine if there is a leak, add 1/2 PSI pressure to the interstice, spray with a soap mixture and watch for bubbles.** | First, check the torque on the plow ring bolts to ensure they are torqued to 20 ft-lbs. It is OK to torque these up to 25 ft-lbs. Ensure all bolts are torqued to the same value. If the vacuum leak persists from the top ring, replace the gaskets.<br>**Inspection Location: 1 (See Back Page)** |
| **The next most common issue is a broken or loose O-ring on a Visigauge or Sensor Adapter (white plug).** | All OPW Double Wall EDGE™ Spill Containers have a Visigauge, Access Port, or Sensor Adapter in the primary. Remove this plug to ensure the O-rings are in good condition. Depending on the style of the spill bucket, components are available to replace O-rings, Sensor Adapters and Visigauges. OPW also offers these parts as complete assemblies. If the Drain Plug is resistant to removal and reinstallation, a new white adapter/gauge adapter may be necessary.<br>**Inspection Location: 3 (See Back Page)** |
| **Compromised containment bellows could be the issue or, less frequently, a compromised base seal is possible. This area of the container is not accessible for component replacements, but a replacement cartridge is available to satisfy either scenario. These failures typically cause a very quick loss of vacuum.** | Compromised primary bellows can usually be seen from grade during a thorough inspection. If there are no signs of issues after checking the ring seals and gauge port, disassemble the spill bucket further to identify the source of the leak path.<br>**Inspection Location: 7 (See Back Page)** |

# UBLESHOOTING STARTS HERE

## **Issue:** Liquid Is Found in the Interstice Through a Visual Indication on the Visigauge or Electronic Sensor

| RECOMMENDED PATH/POSSIBLE CAUSE | WHERE TO LOOK/WHAT TO CHECK |
|---|---|
| **Liquid found in the interstice means either groundwater is leaking in, or fuel/residual water is leaking out of the primary.** | First, determine if the liquid is fuel or water. If the liquid is fuel, it is coming from inside the primary. Look there for possible paths. Water, however, can come from either the inside or the outside. Look for any possible signs of damage on the ring, primary bellows, or Visigauge/Sensor Adapter. Check for any missing or loose hardware.<br>**Inspection Location: 1, 2, 3 (See Back Page)** |
| **If seals are in good shape, bolts are tight and the Visigauge/Sensor Adapter is in good shape and tight, remove the primary cartridge to inspect the secondary. When the primary is removed, check the bellows seal (not replaceable) around the base. Clean and condition the seals within, and where the secondary base threads into the primary base.** | When removing the primary cartridge, inspect the O-ring that seals the primary base to the secondary base. If no components are identified as the cause of the leak, consider installing new assemblies to return the spill container to a like-new condition. See chart on following page for containment part numbers by model.<br><br>Note: A sensored spill bucket will contain a passthrough location for the sensor wire. Inspect this area of the container when the primary is removed.<br>**Inspection Location: 7, 8 (See Back Page)** |

## **Issue:** Hydrostatic Failure or Drop Tube Pressure Failure

| RECOMMENDED PATH/POSSIBLE CAUSE | WHERE TO LOOK/WHAT TO CHECK |
|---|---|
| **Hydrostatic test failures indicate a path exists somewhere from the primary into the secondary or into the tank via the drain/plug, 3-bolt flange or nipple assembly.** | If the spill container fails a hydrostatic test, observe the area where the water level dropped, if possible. Investigate the drain/plug assemblies for any damage, movement or loose hardware. Check the Visigauge/Sensor Adapter plug and O-ring to ensure good condition. Be sure the 3-bolt flange is tight. Check the fill adapter and nipple assembly for pitting or poor connections. If issues cannot be found in these areas, consider removing the primary to inspect it further or replace it.<br>**Inspection Location: 3, 4, 5, 6 (See Back Page)** |
| **Drop tube/drain valve pressure test failures sometimes result from a problem in the spill bucket area.** | Investigate the drain valve/plug area.<br>**Inspection Location: 5 (See Back Page)** |

## Containment Part Numbers:

**1** **201689** – 5-Gallon Seal for Snow-Plow Ring
**C05446M** – 15 Gallon Seal

**2** **1-31RTR** 5-Gallon Rain-Tight Snow-Plow Ring
For sealable cover rings, please see the catalog for powder-coated rings.

**3** **211465** – Complete Visigauge Assembly
(all parts & O-rings)
**206017** – Sensor Adapter Assembly
(poly plug with O-ring)
See the catalog for individual component part numbers, i.e., O-rings, gauge only, etc.

**4** **201739** – 3-Bolt Flange/Nipple adapter
**201692** – O-ring for 3-Bolt Flange/Nipple adapter

**5** **1DK-2100-EVR** – Drain-Valve Subassembly
**1DP-2100** – Plug Kit

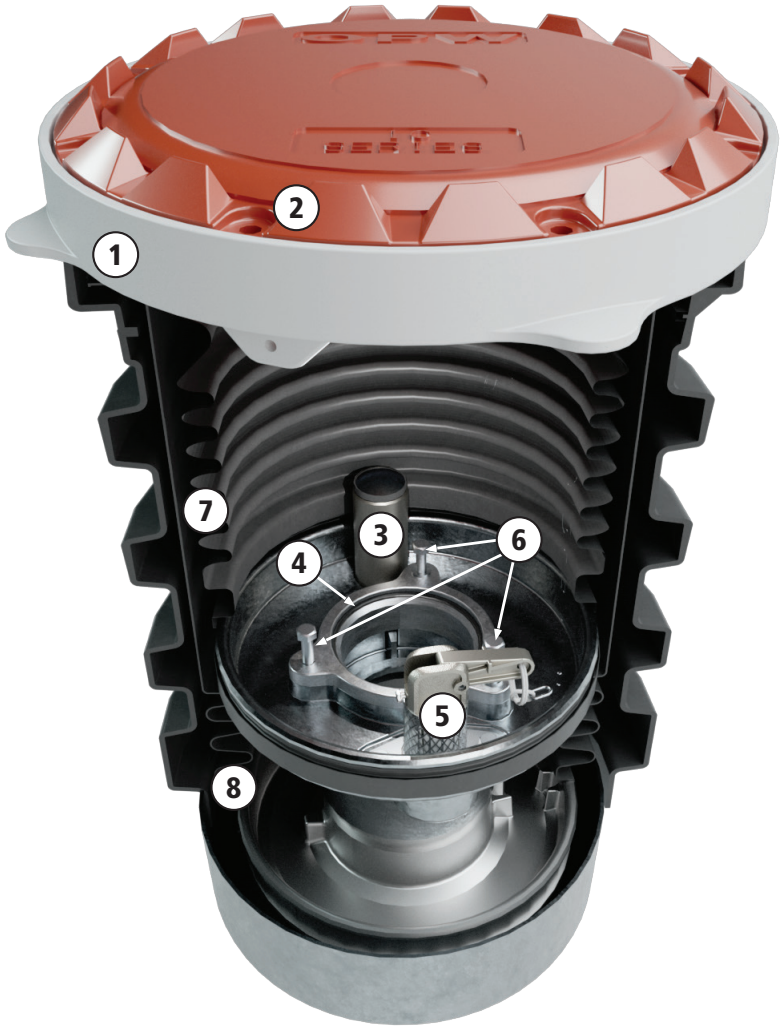
**6** **201970** – 3/8-16 x 1.5″ SST Bolt
**200254** – 3/8″ SST Lock Washer

5-Gallon Buckets **Primary** Containment Replacement Kit

**7** **202135-KIT** – Models with a Drain
**202136-KIT** – Models with a Plug

5-Gallon Buckets **Secondary** Containment Replacement Kit

**8** **202137-KIT** – Models with a Visual Gauge
**206010-KIT** – Models with Access Port
(no gauge or sensor)
**206011-KIT** – Models with Electronic Sensor




## Product Information On-Demand

For additional component information, download the OPW Product Guide app on the App Store or Google Play.

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Revised 05/09/2025