



# A1005-505CBG

Stainless Steel Spill Containment  
Replacement for OPW 101BG

## INSTALLATION INSTRUCTIONS

US Patents 8,425,145 B2  
and 8,425,145 B

### Emco Supplied Parts

Stainless steel bucket  
Reducing Collar  
O-ring  
(2) split flanges  
(10) stainless steel bolts  
Lid w/seal

### Required Kits

Pipe nipple (see chart below)  
*If existing bucket has a drain...*  
A1005-505DP Drain Plug Kit

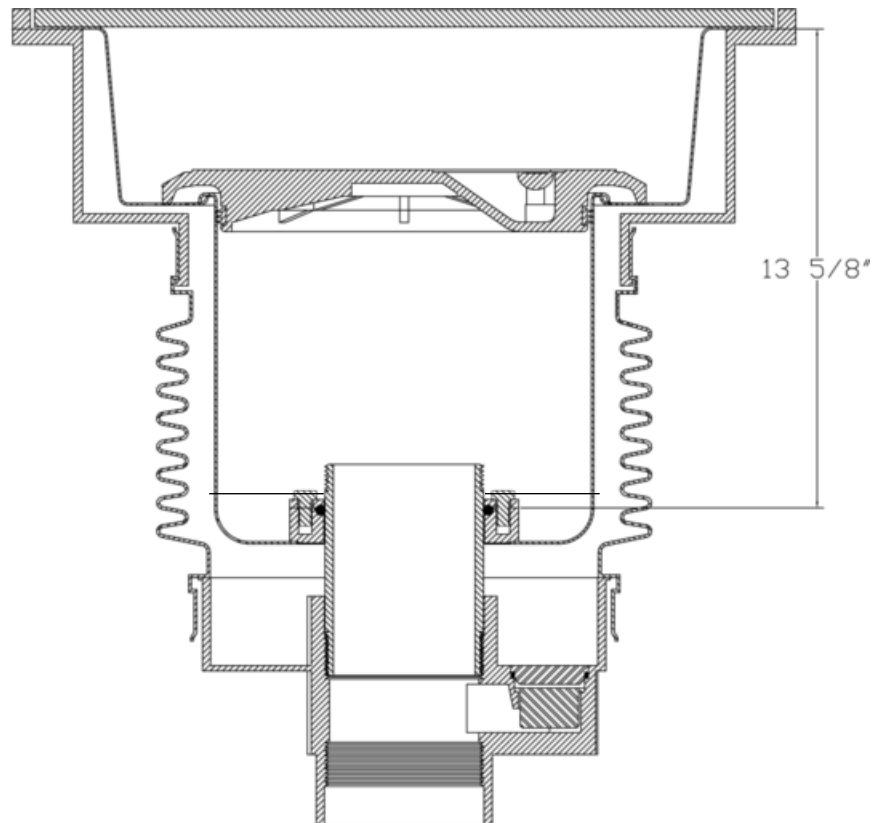
### Required Tools

9/16" socket  
1/2" socket  
12" extension and ratchet  
Pipe sealant  
Urethane sealant  
(such as Emco Z0839-001)  
Adapter wrench  
Wire brush  
Plumbers putty or heavy grease  
A0081-003 Emco Pipe Nipple Wrench

### Purchased Separately from Emco

A0333-002 Emco Hand Pump  
494833 Test Cover  
Emco A1004-210TEST

*Refer to your local regulations and AHJ before installation of this product*



**Step 1:** Remove outer lid. Pump out any liquid and clean out existing containment areas.



**Step 2:** Unbolt the bellow to rim clamp from underside the rim and remove the lid and rim assembly. Remove cap and adapter.

**Step 3:** If pipe nipple surface is not clean 13 5/8" from upper lid seat, remove existing pipe nipple and replace with a nipple that will provide clean pipe at that dimension. Use an A0081-003 Pipe Nipple Wrench to install the new nipple. Avoid scarring the seal surface. (If seal surface is damaged, the unit will not pass pressure decay test.) Use pipe sealant on the lower threads.



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**Step 4:** Using a 1/2" socket, remove the drain, if existing. Carefully inspect the drain cavity to ensure there is no damage that could cause the bucket to fail testing requirements.



**Step 5:** Plug the drain cavity using Emco A1005-505DP Drain Plug Kit, following instructions included with kit.



**Step 6:** Thoroughly clean the existing rim surface with a wire brush, then with a solvent such as lacquer thinner to ensure there is no oily residue on the rim. Apply urethane sealant around the top rim.



**Step 7:** Position the reducing collar in the existing spill containment. Test fit the new stainless steel bucket to ensure that it sits completely flat on the top of the reducing collar, then remove the stainless steel bucket.



**Step 8:** Apply a bead of urethane sealant on the underside cavity of the new bucket to prevent groundwater from entering the existing containment.



**Step 9:** Install the new stainless steel bucket over the nipple, pushing it down completely to ensure that it seats fully on the reducing collar.



**Step 10:** Install new o-ring over the nipple, seating it completely in the groove in the stainless steel flange.



**Step 11:** Install the two split flanges using the ten supplied stainless steel bolts.



**Step 12:** Hand tighten all ten bolts, ensuring that the bucket is completely down and flat on the reducing collar. Using a 9/16" socket, tighten each of the ten bolts to 15 ft. lbs. Pressure may need to be applied to ensure the liner does not shift while tightening bolts.



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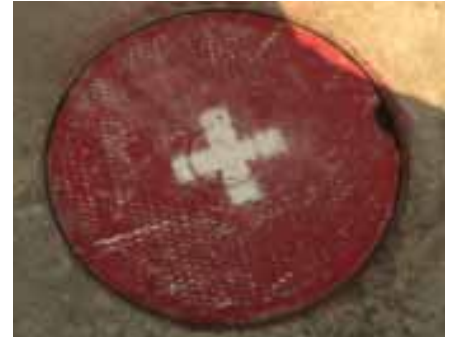
Stainless Steel Spill Containment



**Step 13:** Install adapter and cap per instructions included with each.



**Step 14:** Lubricate the lid seal and install new Emco lid.



**Step 15:** Install original outer lid.

**Step 16: Testing** - Perform one of the following test procedures as specified by customer:

**Integrity Test** - perform per following procedure, with customer specified cap and adapter.

**Hydrostatic Test** - perform if specified per customer or local regulations. Perform per local guidelines.

## Integrity Test Procedure

### **Equipment** (not supplied)

Emco A1004-210TEST Vacuum Apparatus w/test adapter 494343

Emco 494833 Test Cover

Timer

Air supply

### **Procedure**

1. Line top surface of stainless steel bucket with plumbers putty.  
(Heavy grease may be used, but may not work properly on rough surfaces.)
2. Place test cover over plumbers putty or heavy grease.
3. Insert brass plug from test unit into opening in test cover (A).
4. Attach air pressure source to air pressure regulator on vacuum apparatus.
5. Slowly apply vacuum of 30" water column (2.2" mercury) to the interstitial space, by moving the toggle switch. Wait 30 seconds. Reapply 30" water column.
6. Ensure switch is in off (center) position, start timer and record remaining vacuum after 1 minute.
7. If the remaining vacuum after 1 minute is 26" water column (1.9" mercury) or greater, the containment is tight.
8. If the test fails, determine if leak point is at test cover seal, cap or adapter, or base flange o-ring by spraying a soap solution to each area and watching for bubbles. Repair as required and retest.
9. Replace components.



## Follow-Up Testing

If follow-up or annual retesting is required by local/state regulation, use the above procedure.



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## Stainless Steel Spill Containment

### **Tank Operator Responsibilities**

Tank operator must ensure that all Federal, Provincial and local codes are being met during the filling of the tank.

All operators must be familiar with proper filling procedures.

The operator responsible for transferring product to an above ground storage tank must take all reasonable steps to prevent spillage.

The delivery hose from the tank's fill pipe must not be disconnected before the hose has been drained completely.

When tank vehicles are being unloaded, the vehicle operators must remain

- (a) in constant view of the transfer nozzle and fill pipe; and
- (b) in constant attendance at the discharge control valve.

### **Emco Wheaton Retail**

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