

A1005-505CPWESW

Stainless Steel Spill Containment Double Wall Replacement Insert For OPW 3100 Series

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

INSTALLATION INSTRUCTIONS

Emco Supplied Parts

Primary stainless steel buckets Adapter ring Offset ring/o-ring/bolt/flange kits Lid w/seal Primary rim (4) ³/8" x ³/4" socket head cap screws (8) ³/8" x ³/4" long bolts Jack bolt kit Riser extension (4) ³/8" x 4" studs

Required Tools

5/16" Allen Wrench Utility knife 9/16" socket 3/8" socket 12" extension and ratchet Chain wrench or strap wrench Adapter wrench Plumbers putty or heavy grease Emco A0081-001H Primary Removal Wrench

Purchased Separately from Emco Emco 494833 Test Cover Emco A1004-210TEST



<u>Step 5:</u> Remove the primary unit and discard.

<u>Step 1:</u> Remove lid, cap, and adapter. Disconnect drain chain.



<u>Step 2:</u> Remove the 8 rim bolts, rim and gasket. Discard.



<u>Step 3:</u> Use a 5/16" Allen wrench to remove the 3 bolts from the bottom flange. Remove flange and discard. Remove riser seal, if equipped. Remove drop tube.



<u>Step 4</u>: Use the Emco A0081-001H Primary Removal Wrench to loosen the primary.



Step 6: Install riser extension.



Step 7: Install adapter ring, lining up the 4 counterbored holes with the 4 holes in rim. Use a 5/16" Allen wrench to install and tighten the 4 socket head cap screws into the counterbored holes.



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<u>Step 8</u>: Install the 4 studs into 4 of the tapped holes using every other hole.



<u>Step 9:</u> Install the new primary unit, using studs to assist with alignment. If necessary, use jack bolts to draw down rim, to get bolts started.



<u>Step 10:</u> Using a 3/8" socket, loosely install 4 of the $3/8" \times 3/4"$ bolts into the 4 open bolt holes in rim.

Large section of offset ring

O-ring groove facing up



<u>Step 11:</u> Remove studs and replace with the 4 remaining 3/8" x 3/4" bolts. Tighten all 8 bolts to 20 ft. lbs., alternating in a star pattern.



<u>Step 12</u>: Install the small cross section o-ring in the groove of the lower flange. Make certain o-ring groove is clean and free of debris.



<u>Step 13:</u> Install the aluminum offset ring, with o-ring groove facing up. Align the large section of the ring with largest open area around the nipple as shown.



<u>Step 14:</u> Install the large cross section o-ring on top of the aluminum offset ring.



<u>Step 15:</u> Install the three flanges using the nine supplied stainless steel bolts and washers. Ensure that the flanges are tight against the nipple.



<u>Step 16</u> Hand tighten all nine bolts, ensuring that the bucket is completely down and flat on the rim.



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<u>Step 17</u>: Using a 9/16" socket, tighten each of the nine bolts to 15 ft. lbs.



<u>Step 18:</u> Install adapter and cap per instructions included with each.

<u>Step 19</u>: Testing: Perform one of the following test procedures as specified by customer.

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

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



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Integrity Test

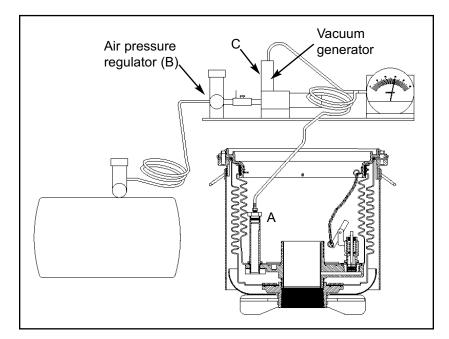
<u>Equipment</u>

Vacuum apparatus w/test adapter 494343, available from Emco Wheaton Retail, p/n A1004-210TEST Timer

Air supply, 30 psi

Procedure

- 1. Remove the gauge from the inspection port and install the test adapter p/n 494343 (included with the vacuum apparatus) (A).
- 2. Attach air pressure source to air pressure regulator (B) on vacuum apparatus.
- 3. Slowly apply vacuum of 30" water column (2.2" mercury) to the interstitial space, by moving the toggle switch (C). Wait 30 seconds. Reapply 30" water column.
- 4. Ensure switch is in off (center) position, start timer and record remaining vacuum after 1 minute.
- 5. If the remaining vacuum after 1 minute is 26" water column (1.9" mercury) or greater, both the primary and the secondary containment vessels are tight.
- 6. If the test fails, allow the bellows to equalize for one minute and repeat test, starting at step 3.
- 7. If test fails a second time, refer to Emco Wheaton Retail Test Procedures TP-160 and TP-161.
- 8. Replace components or repair as necessary.



Maintenance

- 1. Keep rim/lid and drain areas free of debris.
- 2. Replace any damaged part at once.

Replacement Items

494551Drain Kit494343Test Adapter494641DipstickA1004-210TESTVacuum Test ApparatusA1004-210GAGEInterstitial GaugeA1004-316CLIDLid and Seal



494343 Test Adapter

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.