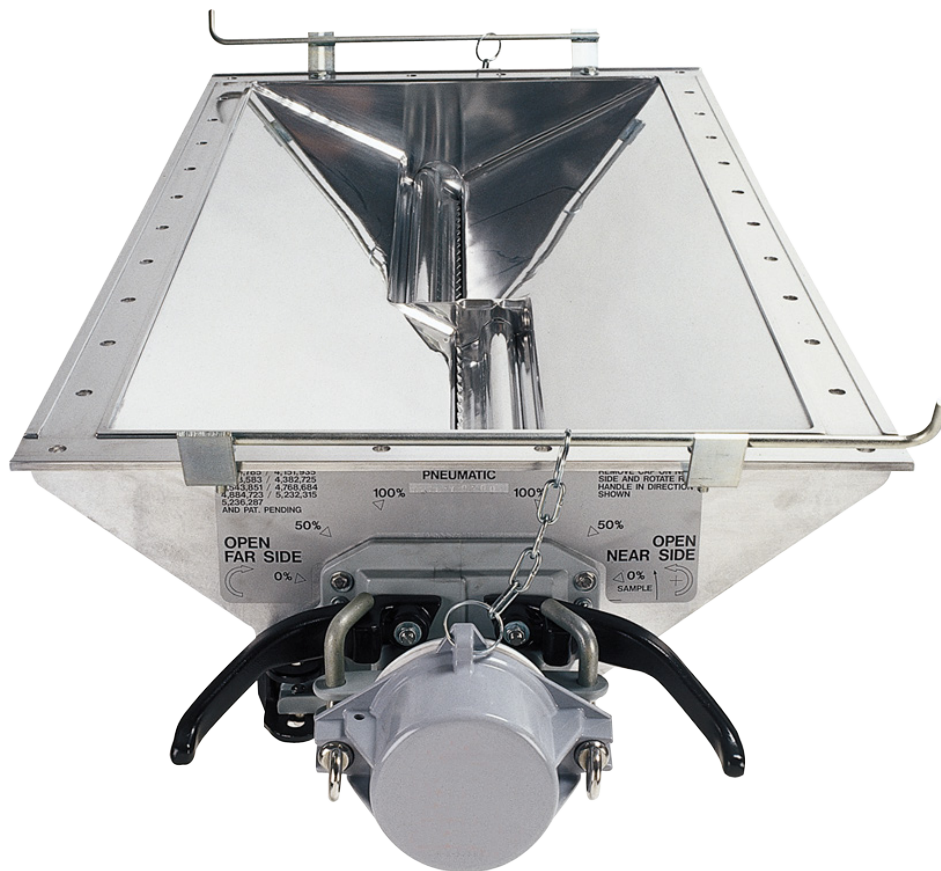


# MODEL 5236 Super Clean Adjustable Pneumatic Outlet

## SERVICE BULLETIN



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The model 5236 adjustable pneumatic outlet is designed to give superior performance with unparalleled sanitation. The 5236 outlet offers easy cleaning with removable adapters, a seamless clean bore design, a serrated control valve for greater flow control and easier operation, provisions for sampling without flooding the product tube, and an improved mounting gasket design.

## OPERATING INSTRUCTIONS

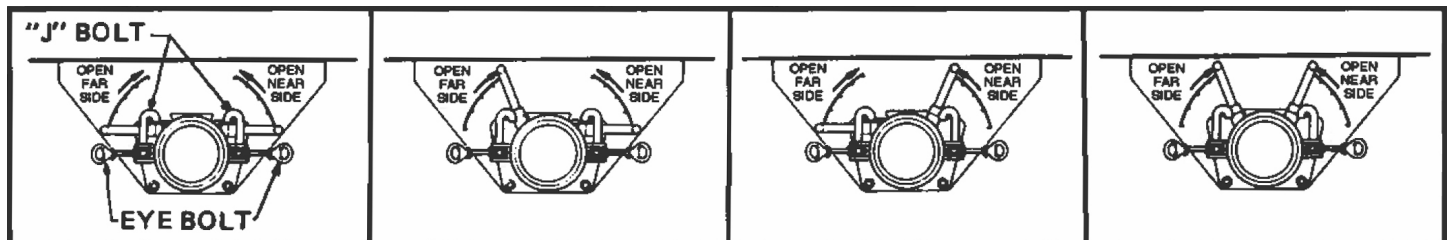


Figure 1

Figure 2

Figure 3

Figure 4

### Preparatory Steps

1. Open at least one hatch cover on the hopper being unloaded to avoid risk of collapsing the roof section. If filtered air is required, a filter must be applied to the open hatches.
2. Remove the caps from both sides of outlet and secure on cap hangers. To open the caps, loosen the eye bolts and rotate the "J" bolts out of the way. NOTE: The "J" bolts must clear the valve handles on both sides of the outlet. The valves cannot be rotated unless both caps are removed and the "J" bolts clear the handles. If filtered air is required, apply a filter to the nozzle opposite the one used for the vacuum connection.
3. Connect a pneumatic line to the outlet nozzle by sliding the product hose fitting over or into the discharge nozzle on the outlet.
4. Start the pneumatic system.

### Unloading Operations

1. Initially the outlet control valves will be in the closed position (Figure 1) with valve handles in the horizontal position.
2. To start unloading, rotate the far side (opposite from product hose connection) control valve handle in the direction of arrow (Figure 2) until the desired flow is achieved. Most of the lading in the compartment will be unloaded with the valve in this position.

### Clean-Out Operations

1. After the flow of material stops (indicated by a sharp decrease in vacuum) close the far side valve.
2. Rotate the near side (same side as product hose) control valve handle in direction of arrow (Figure 3) until the desired flow is achieved. Continue operations until flow ceases.
3. Open the far side control valve to the full open position, then open the near side control valve to the full open position to allow remaining material to fall into discharge tube (Figure 4).
4. Return the control valve handles to closed position (Figure 1).

### Preparing The Car For Return Transit

1. Shut off the vacuum system.
2. Remove the hatch filters, check inside of the car to ascertain that unloading is complete. Close the hatch covers and secure in the closed position.
3. Disconnect the conveying hose from the discharge nozzle.
4. Remove the filter on the side of the car opposite the vacuum connection.
5. After making certain that the valves are in the closed position, apply caps to both discharge nozzles and secure.

### Special Note-Interrupted Unloading

If unloading is to be discontinued before the compartment is empty, rotate both control valve handles to the "closed" position. Allow the vacuum system to run for a short period (2 minutes) to clear all pellets from the bottom of the control valve tube.

## Product Sampling Procedure

Sampling can be achieved both from the hatch and the outlet. The method employed for sampling from the hatch is obvious. To take a sample from the outlet:

1. Break the seal on the near side of the outlet only.
2. Remove outlet cap. Rotate the near side control valve handle towards the open position to the sample position.
3. Take a sample from the material which has fallen into the product tube.
4. Return the control valve handle to the closed position, apply the outlet cap and reseal.

## Washing Instructions

### Disassembly

1. Remove both outlet end caps.
2. With the control valves in the closed position, remove each of the six (6) adapter retaining bolts and nuts from the adapter.
3. Pull the adapter away from the outlet end sheet and swing the adapter out of the way (Photo 2).

NOTE: Be sure the stub shaft on the adapter disengages from the control valve. If the control valve does not disengage from the stub shaft, reach through the adapter opening and push the control valve away from the adapter.

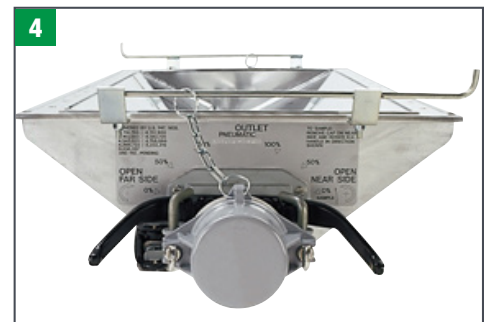
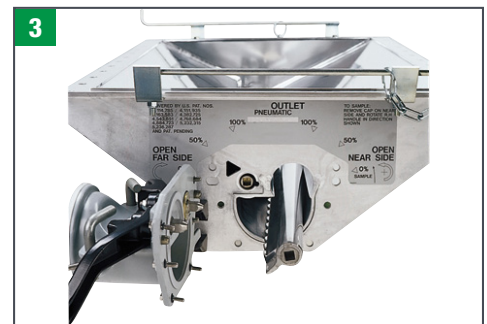
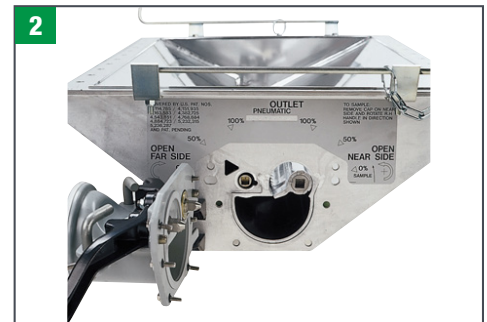
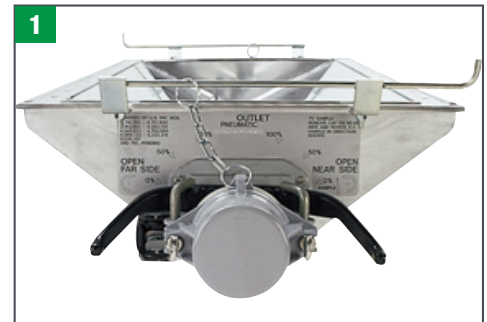
4. Remove the control valve from the outlet by pulling it straight out, sliding the valve through the end sheet opening (Photo 3).
5. To remove the end adapter from the hinge, rotate the adapter 30° away from end sheet, push the adapter hinge against the end sheet, and lift the adapter out of engagement with the hinge.
6. Repeat steps 1 through 4 for disassembly of the opposite side of the outlet.

### Cleaning

7. Wash the car interior. The best results are obtained by washing with a roto-jet placed alternately in each hatch.
8. Clean the outlet by directing a water spray through the outlet end sheet openings. Cars which have been in service with some commodities may require flushing the outlet with a detergent spray to remove all of the fines or additive residue.
9. Dry the outlet and car interior thoroughly.

### Reassembly

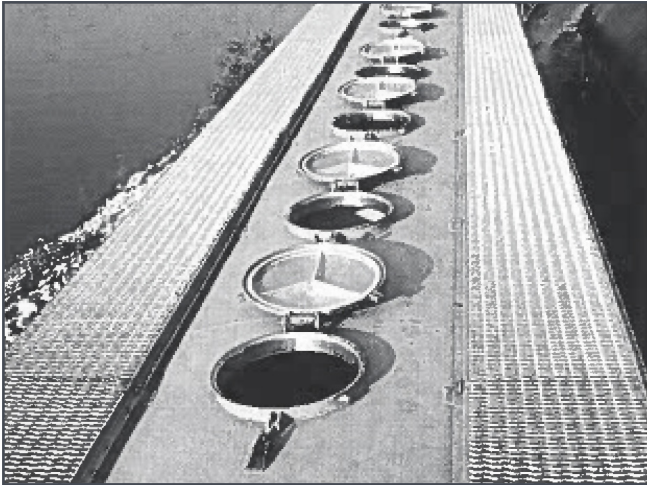
10. Set the control valves in the valve seats and slide the control valves back into place, engaging the square shaft at the bulkhead (Photo 3).
11. Swing the outlet adapter back into place, aligning the valve handles to engage the control valves and operating shaft. Make certain that the two (2) locator pins on the adapter engage the holes in the outlet end sheet.
12. Reapply the six (6) adapter bolts and nuts to each adapter, and torque to 20 foot pounds.
13. Repeat steps 10 through 12 for the opposite side of the outlet.
14. Operate both control valves from full open to full closed position to ensure that the outlet has been reassembled correctly.
15. Reapply outlet caps and close hatch covers.



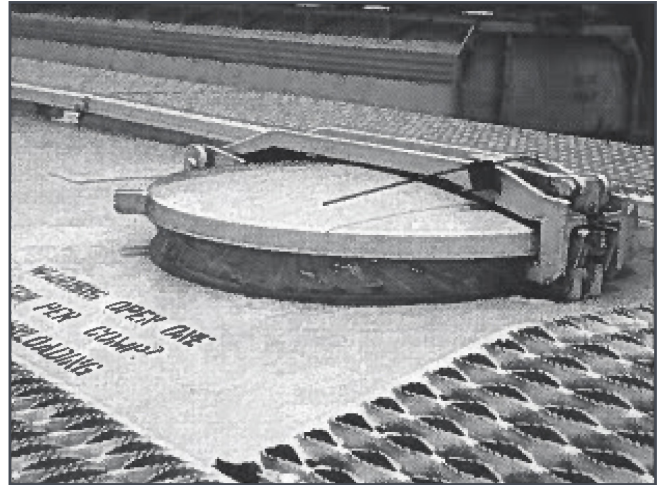
## Pre-trip Inspection

### Secure the Outlet Prior to Loading

Outlets should be inspected to verify that they are functional and clean. Outlet caps should be inspected for cleanliness, gasket integrity, and damage. Outlet caps must be securely locked and sealed prior to shipping the car.



*Wipe hatch rings, covers, and gaskets clean to assure proper sealing of covers.*



*Properly applied seal through the hatch strap and over the cam lever. As can be readily seen, it would be impossible to open the hatch without breaking the seal.*

### Preparing an Empty Car

**Replace and secure outlet caps on both sides of car.**

The AAR requires that all outlets be closed and secured before an empty covered hopper car is routed back to a loading facility. This simple action will prevent damage and costly replacement or repairs to the outlets.