Tool and Equipment First-Round Winner

Innovations Challenge

April 2019

Prepared by Transportation Planning Missouri Department of Transportation

Vacuum Breaker



Description

The Vacuum Breaker is a coupling with a spout that goes between the source (i.e. storage tank) and a distributor. This keeps the asphalt from spilling out onto the ground creating environmental hazards.

Benefit

Without the Vacuum Breaker, the hot liquid asphalt that is still in the line after loading comes out when the hoses are disconnected. It would either spill onto the ground, creating an environmental hazard, or onto the individual disconnecting them, creating a safety hazard. The Vacuum Breaker has a valve that when opened, drains the hoses of the hot liquid asphalt. It can be drained into a container and the environmental and safety hazards are eliminated.

Materials and Labor

The cost of materials is \$97.50 and total amount of labor is 1 hour. (See material list on the back of this page)

For More Information Contact:

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Additional information, photos or videos can be seen by accessing Innovations Challenge SharePoint page at: http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx



Granger Prices - Materials List

- •3" cam lock brass female x 3" female N.P.T. \$45.00
- •3" male cam lock x 3" female N.P.T. aluminum \$10.00
- •3" x 3" black iron pipe nipple \$29.00
- •3/4" x 3/4" black iron street elbow \$4.50
- •3/4 gas cock \$9.00