HAZMAT TRAINING PROPS

Advanced Entertainment Technology

Two Dome Rotating Railroad Tank Car Training Simulator

Description:

The Rotating Railroad Tank Car training prop replicates a tank car in both the upright position and a rolled-over position (up to 100 degrees in either direction, in 15-degree increments), providing typical access, elevation, and working space around railroad tank car domes, including one DOT 112 High Pressure Dome and one DOT 117 General Service Dome, in multiple positions.

The High Pressure Dome is plumbed to provide liquid line, vapor line, and pressure relief device leaks. Leak scenarios include vibration-induced valve opening, a valve loose in its mounting, and failed pressure relief device. The General Service Dome is plumbed to leak from the Eduction Valve and the Air Connection Valve. Visible vapor leaks are simulated by mixing air and water.

The Rotating Railroad Tank Car training prop is manually operated. This prop requires a user-provided source of water and compressed air. The simulator ships fully assembled and can be offloaded onto a concrete surface and be fully operational within minutes. Weighing a fraction of an actual railcar, this unit can be easily transported on a standard lowboy trailer.



2 DOME RAILROAD TANK CAR TRAINING SIMULATOR



RAILROAD TANK CAR ROTATED ON ITS SIDE

Training Modes & Remediations:

HIGH PRESSURE DOME:

Valve Liquid line leak - Isolate and secure leak source
Vapor line leak - Isolate and secure leak source
Pressure relief device leak - Cap or isolate relief valve as appropriate
Valve open from vibration - Close valve to mitigate
Valve loose in its mounting - Tighten mounting hardware to mitigate

GENERAL SERVICE DOME:

Eduction Valve leak - Close or secure valve to mitigate
Air Connection Valve leak - Close or secure valve to mitigate
Visible vapor leaks are simulated using a water and compressed air mixture