

LANCE PRESSURE VESSEL

ASME-coded 75# 492bbl temporary pressure vessel, specifically designed for storing pressurized products or those with emissions.

This vessel offers a range of capabilities, with emissions control being a key feature.

Equipped with advanced technology, it helps reduce environmental risks, minimize personnel exposure, and improve operational efficiency – ultimately, saving you money.



LANCE Portable ASME Coded Pressure Vessel

Key specifications & Safety Features



Key Specifications:

- Capacity
- 21,000 US Gallons (liquid full)
 - 16,800 US Gallons (operating)
- Pressure Ratings:
- Maximum Operating Pressure: 64 PSI
 - Maximum Allowable Pressure: 75 PSI
 - Vacuum Rating: -2 PSI
- Construction: Schedule 80 Carbon steel with class 150 flanges
- Instrumentation:
- Digital pressure transmitter
 - Radar liquid level sensor
 - Automated safety systems
- Filling System: Automated MOV with backup power supply, ensuring safety shutoff at 16,800 gallons or 64 PSI

Performance & Safety Features:

- Advanced Safety Mechanisms:
- Automated Overpressure Protection
- Warning light activates at 64 PSI
 - Alarm horn if pressure continues to rise
- Emergency Override: Manual override permissive required to open valve
- Vacuum Protection & Pressure Relief
- Equipped with vacuum breakers and PSV to atmosphere
- Integrated Containment System:
- Eliminates the need for secondary containment berms with a rigid, enclosed trailer frame that serves as a permanent spill guard
- Environmental Compliance:
- Holds vapor pressure until manually vented, eliminating tank breathing emissions
 - Can be tied into permanent flare and portable Tos (Thermal oxidizers)
 - Puts client in control of when, where and how much to vent based on permitting
 - Reduces carbon usage, waste disposal costs, and paperwork associated with environmental deviations

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Operational Advantages & Cost Efficiency



Operational Advantages:

- Multi-Function Capabilities:
- Acts as a surge drum, knockout drum, de-gas drum, and an unloading/loading vessel
 - Can be air-freed, leak-checked, blown out, pumped out, or steamed out for VOC material handling in temporary applications
- User Friendly Design:
- Digital control systems with real-time pressure and liquid level monitoring
 - Automated safety trip valves to prevent overfill and overpressure situations
- Certified ASME Coded & Tested:
- Hydro-tested and pressure/bubble-tested for reliability
 - Ensures adherence to strict industry safety standards and operating procedures

Cost & Efficiency Benefits:

- Reduces equipment rental dependencies (vapor recovery systems, carbon units, additional flanges, hoses, bolts, and gaskets)
- Speeds up Management of Change (MOC) approvals by meeting or exceeding standard piping specifications
- Minimizes leak points, reducing maintenance costs and environmental risks
- Decreases man hours on a project, reducing injury and exposure risks