

Handling and Safety



Note: Failure to follow these safety precautions may result in injury, equipment damage, system failure, or death. Always consult the manufacturer's documentation for additional details or specific requirements.

General Safety Precautions

1. Personnel Safety

- Ensure only trained personnel handle hydraulic tanks and systems.
- Wear appropriate Personal Protective Equipment (PPE) such as gloves, safety goggles, and steel-toe boots.

2. Fire Hazards

- Hydraulic fluid is flammable. Keep tanks away from open flames, sparks, or sources of ignition.
- Maintain a fire extinguisher rated for oil-based fires near the work area.

3. Pressure Risks

- Always relieve system pressure before performing maintenance.
- Do not open tank caps or connections under pressure.

4. Handling and Lifting

- Use proper lifting equipment rated for the tank's weight.
- Avoid dropping or mishandling tanks to prevent damage and fluid leaks.

Installation Safety

- **Location:** Install the tank on a flat, stable surface. Ensure adequate ventilation around the tank to prevent overheating.
- **Connections:** Use compatible hoses, fittings, and seals to prevent leaks and ensure system integrity.
- **Mounting:** Secure the tank to prevent movement during operation.



Operational Safety

1. Fluid Management

- Use only manufacturer-recommended hydraulic fluids.
- Regularly inspect fluid levels and top off when necessary. Avoid overfilling.

2. Temperature Control

- Monitor operating temperatures to prevent overheating.
- Ensure proper functioning of cooling systems, if installed.

3. Contamination Prevention

- Keep tank openings sealed to avoid contamination by dirt, debris, or water.
- Use clean tools and containers during maintenance.

Maintenance Safety

1. Routine Inspections

- Check for leaks, cracks, or signs of corrosion regularly.
- Inspect connections, hoses, and filters for wear and damage.

2. Cleaning

- Drain the tank and clean it periodically to remove sludge or contaminants.
- Use appropriate cleaning agents recommended for hydraulic systems.

3. Repairs

- Only qualified technicians should perform repairs.
- Use original manufacturer parts to maintain safety and functionality.

Emergency Procedures

1. Fluid Leaks

- Contain the spill using absorbent materials.
- Dispose of contaminated materials according to local regulations.

2. Fire

- Use a fire extinguisher rated for oil-based fires.
- Evacuate the area if the fire cannot be controlled.

3. System Malfunctions

- Shut down the system immediately in case of abnormal noises, vibrations, or leaks.
- Do not restart until the issue is resolved.

Disposal

- Dispose of used hydraulic fluid, filters, and tank components according to environmental and regulatory standards.