



Expansion Vessel Maintenance Checklist

9 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

Visual Checks

- ☐ Inspect the vessel for external corrosion or damage
- ☐ Check isolation valves are open and the vessel is connected to the system
- ☐ Inspect pipework and connections for leaks

Functional Checks

- ☐ Check the vessel gas pre-charge pressure via the Schrader valve
- ☐ Verify the pre-charge matches the system cold fill pressure
- ☐ Check for water at the Schrader valve (indicates bladder failure)
- ☐ Confirm vessel size is adequate for the system volume and temperature range

Safety Checks

- ☐ Verify the associated pressure relief valve operates correctly

Record Keeping

- ☐ Record pre-charge pressure, system pressure, and vessel condition

Maintenance Frequency

Quarterly

- Check system pressure gauge for unexpected fluctuations
- Visual check for external corrosion (especially on chilled water vessels)

Annually

- Check gas pre-charge pressure
- Test for bladder failure
- Inspect external condition
- Test pressure relief valve