

For anything outside of the scope of this document please contact Flowfit or a qualified hydraulic engineer. This is provided in good faith and without liability and does not form part of any contract.

Standard Information

Hydraulic pressure gauges are instruments used to measure and display the pressure within a hydraulic system. These gauges are essential for monitoring system performance, ensuring safe operation, and diagnosing potential issues.

Safety Precautions

1. Selection and Compatibility

- Ensure the pressure gauge is rated for the system's maximum operating pressure.
- Verify compatibility with hydraulic fluids and operating temperatures.

2. Installation

- Mount the gauge in a location free from excessive vibration, high heat, or mechanical impact.
- Use appropriate fittings and thread sealants to prevent leaks.
- Avoid over-tightening connections to prevent damage to the gauge threads or seals.

3. Operation

- Regularly check the gauge for signs of wear, damage, or calibration drift.
- Do not expose the gauge to pressure spikes beyond its rated capacity.
- Monitor the gauge to ensure system pressure remains within safe operating limits.



4. Inspection and Maintenance

- Inspect for cracks, leaks, or visible damage before use.
- Clean the gauge face to ensure the readings are visible.
- Periodically recalibrate the gauge to ensure accurate pressure readings.



5. Emergency Precautions

- In case of gauge failure, immediately shut down the system to prevent hydraulic accidents.
- Replace damaged or malfunctioning gauges promptly to avoid risks of inaccurate pressure readings.

6. Pressure Release

- Before servicing hydraulic systems or replacing the gauge, relieve all system pressure to avoid injury.

7. Safety Guidelines

- Always wear appropriate personal protective equipment (PPE), such as safety gloves and goggles, when working with hydraulic systems.
- Ensure all operators are trained in the safe use of hydraulic equipment and pressure gauges.

8. Disposal

- Dispose of damaged or obsolete gauges according to local environmental regulations, especially if exposed to hazardous hydraulic fluids.

These guidelines help maintain safety while using hydraulic pressure gauges in high-pressure environments.