

Liquid-Filled Pressure Gauge

Pre-Installation Inspection

- Verify that the pressure gauge is suitable for the application conditions, connections, dimensions and process medium.
- After unpacking, visually inspect the gauge for any damage to the threads, window, or pointer.
- Install the gauge in a location free from excessive vibration and direct sunlight.

2. Pressure Gauge Installation

Always use a suitable wrench on the wrench flats (spanner flats) provided on the process connection.

Never tighten or rotate the pressure gauge by applying force to the gauge case. Doing so may damage the gauge and affect measurement accuracy.

- Ensure the system is depressurized before installation.
- Use appropriate thread sealing material.
- Install the gauge in its specified mounting position ($90^{\circ} \pm 5^{\circ}$).
- Locate the vent plug on the top of the gauge case.
- Do not subject the gauge to any external mechanical loads or use it as a support point.

3. Vent Plug Removal

After installation, cut off the rubber tip of the vent plug. This allows the gauge case to equalize with atmospheric pressure, ensuring accurate readings and preventing indication errors.

4. Commissioning

- Check all process connections for leaks before operation.
- Open isolation valves slowly.
- Pressure surges must be always avoided.

5. Maintenance and Inspection

- Liquid-filled pressure gauges are generally maintenance-free.
- It is recommended to verify the gauge accuracy once or twice per year using a calibrated pressure source.
- For liquid-filled gauges, periodically check the fill level. The liquid level should not drop below 75% of the case diameter.

6. Maximum Pressure Limits

- Maximum allowable pressure: Full-scale value shown on the dial
- Recommended continuous operation: between 1/3 and 2/3 of the full-scale range.
- Maximum fluctuating pressure: 90% of full scale.

Pub # : IOM_Liquid-Filled Pressure Gauge	By: RL 08/07/26	Rev:1	File name: IOM-Liquid-Filled Pressure Gauges
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