


Knowledge base

Pressure gauge - operating temperature

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What is the operating temperature for a gauge?

The operating temperature of a pressure gauge is usually given for both the ambient temperature and the pressure medium temperature.

Operating temperature (ambient): This is the temperature at which the gauge is at during use.

Operating temperature (medium): This is the temperature of the fluid/medium that enters the pressure gauge during use.

To ensure the longest possible life and accuracy of readings, pressure gauges should always be used within their given operating temperature. Gauges not designed for extreme operating conditions can malfunction in a short period of time.

If the gauges operating temperatures are not adhered to, several problems can occur, including:

- Soldered pressure joints can become damaged leading to leaks and pressure loss.
- Internal components (such as the Bourdon tube) may become damaged.
- Expansion of case fluid can cause internal build up of pressure and lead to safety issues.

To find out more about any of our gauges currently available, please contact sales@brannan.co.uk.

