



Gauge Calibration



Introduction

As part of IMCA D018 and recommended practice it is advised that pressure gauges should be calibrated and tested periodically every 6 months to confirm reliability and performance.

Service requirements

IMCA guidelines state service requirements as follows:

Depth Gauges

Including Cassion gauges if used to control decompression

| Examination/test | Validity period |
|--|-----------------|
| Checked to an accuracy of $\pm 0.25\%$ of max. scale value at a min of 5 points within the scale | 6 months |
| Visual examination and function test in situ | 6 months |

Life Support Gauges

Including Cassion gauges if only used to indicate depth

| Examination/test | Validity period |
|---|-----------------|
| Visual examination and check to an accuracy of $\pm 2.5\%$ of max scale value at a min of 4 points within the scale | 6 months |

Pressure Relief Valves

| Examination/test | Validity period |
|---|-----------------|
| Visual examination | 6 months |
| Function test followed by a leak test to max working pressure | 2 1/2 years |

Servicing should be carried out by a competent person and using certified test equipment traceable back to a National Standard.

Further Information

To discuss your requirements, contact Shabnum Hanif by emailing s.hanif@jfdglobal.com

JFD servicing capability

As part of Service+, JFD offers a Gauge Calibration service to clients around the world who are looking to ensure the safety, quality and accuracy of their equipment as part of an ongoing maintenance program.

JFD has invested in an advanced, highly-accurate UKAS approved field calibrator and communicator system which offers calibration capabilities for pressure, temperature and various electrical signals.

This technology means that our experienced technicians are able to provide a highly efficient testing service which is more practical and time effective than traditional methods.

The system is linked to calibration software allowing paperless management and instant generation of the relevant certification and documentation. This offers significant cost and time savings to our clients as well as minimising administration errors. Retaining historic gauge information further reduces the calibration duration for repeat visits.

Specification

| | |
|-------------------|--|
| Pressure accuracy | $\pm (0.005 \% \text{ FS} + 0.0125\% \text{ of reading})$ |
| Temperature | RTD temperature measurement accuracy starting from $\pm 0.011 \text{ }^\circ\text{C}$. |
| Electric | Current measurement accuracy starting from $\pm (0.75 \mu\text{A} + 0.0075 \% \text{ of reading})$. |

Competence and assurance

JFD manufactures and supplies dive systems and equipment around the world. Our experienced technicians are highly specialised in this field and are the ideal choice for clients looking for support in this area.

More details online:

