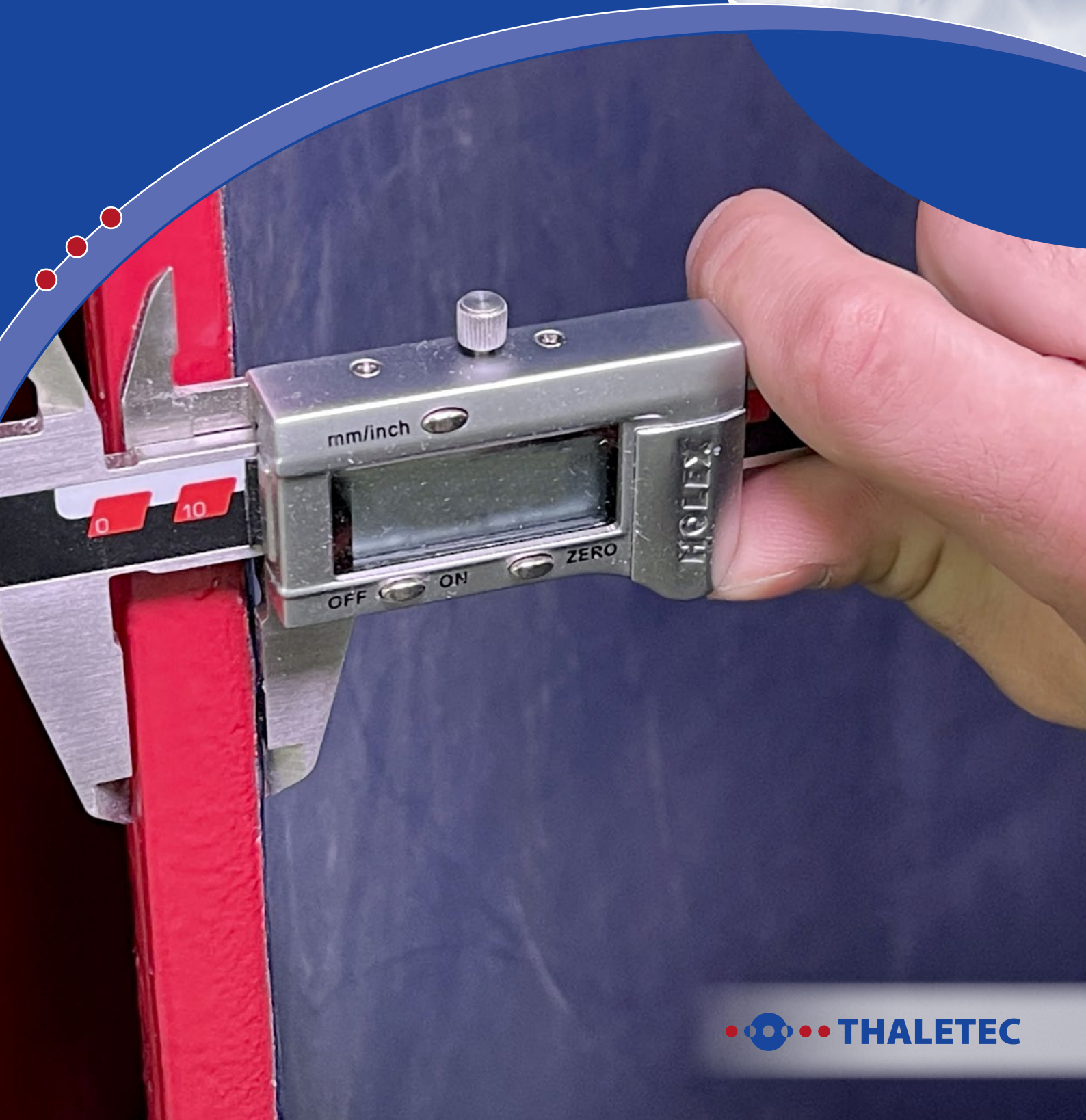


THALETEC

**Non-destructive wall
thickness measurement
for glass-lined vessels
and components**



Description

Due to external corrosion, abrasion or cavitation, the steel wall thickness of glass-lined tanks or reactors may be reduced compared to the nominal wall thickness. However, knowledge of the wall thickness of the glass-lined pressure vessel is fundamental to safe operation. Knowledge of the vessel wall thickness at all points is also essential for making a decision to reglass a glass-lined part.

Typically, wall thickness is measured with ultrasonic wall thickness gauges on the outside of the vessel. In the case of glass-lined reactors with an outer jacket, insulated vessels or vessels that are not completely accessible from the outside, the wall thickness cannot be determined everywhere.

It is therefore advisable to determine the wall thickness of the vessel in the areas that are not accessible from the outside **from the glass-lined inside**. THALETEC has developed a method for this purpose.

With this method, the steel wall thickness of a glass-lined tank or reactor can be measured **through the glass-lining** with high accuracy.

Advantages

- Measurement of the actual wall thickness of a glass-lined vessel at all points that are accessible from the inside of the vessel.
- No need to remove insulation or other attachments
- Fast and reliable method, which can be performed together with regular glass-lining inspection and glass layer thickness inspection
- Particularly suitable for determining the vessel wall thickness in the jacketed area or areas covered with half pipes and not accessible from the outside

Procedure

The procedure is comparable to the determination of the actual glass thickness. A calibrated probe is placed on the glassed surface. A digital display shows the actual value of the vessel wall thickness at the measuring point. The measured value can be stored and the measured values can be saved for documentation of the test.

Need?

If required, please contact the THALETEC service department.



↑ Measuring the wall thickness of a glass-lined reactor from the glass-lined inner side

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