



# O49 - Capacimeter for measuring workpiece volume

## Description

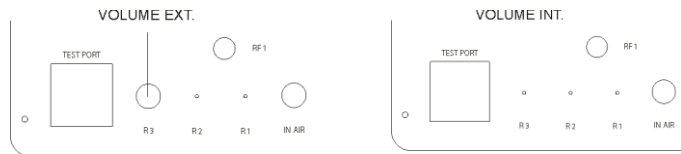
This option allows the automatic calculation of the volume of the piece under test by performing an additional phase at the end of the test phase.

This can be useful to automatically perform the following checks:

- the assembly or welding of components on the test piece has been carried out correctly
- the piece is free of defects
- the piece is not too deformed, or (the previous cases were where the volume of the piece is known in theory, and with the volumetric test you want to check the real)
- to obtain a volume/time measurement even in cases where the volume of the test piece is not known.

The volume is calculated by dividing the internal pressure of the test piece at the end of the test phase, with a reference volume (which may be internal or external to the instrument).

The volumetric test time must therefore be appropriately chosen to ensure that this air partition occurs and stabilises.



External reference volume of the instrument

Internal reference volume of the instrument

The volume is calculated by dividing the internal pressure of the test piece at the end of the test phase, with a reference volume (which may be internal or external to the instrument).

The volumetric test time must therefore be chosen in such a way that this air partition occurs and stabilises.

The measured volume data is inserted into the result track together with the other test data and can be stored on a computer system.

## Technical Code

Within the technical code the field that defines the optional "Capacimeter for volume measurement" is located in position 49.

T8990-065000-530000010000000000000010000000000100000100



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