

## INTERNAL PRESSURE TEST OF TUBES CALIBRATION KIT FOR TUBE WELD TESTER



**THE INDISPUTABLE TEST OF  
YOUR WELD RESISTANCE...**

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## FUNCTION

The calibration test, associated with a tube weld tester, allow to mesure the internal pressure of a tube subjected to the application of a crushing pressure exerted by the compressiometer.

### Why use a calibration kit ?

Each tube is defined by several parameters such as his fill rate, his diameter, his volume or his material. The variation of one of these parameters, for a similar crushing pressure, named « external », causes a variation of the internal pressure of the tube, this latter revealing the real resistance of the tube weld. In addition, it was more pertinent to refer to this internal pressure.

It has to fix a restricted internal pressure meeting the most probable requirements, namely that the tube does not explode under normal use, and that it withstands transport constraints.

The ADR P620 and IATA Y963 packing instructions require a minimum internal differential pressure of 0.95 bar.



## STRENGTHS OF KIT :

The use of this Kit is a relevant prerequisite for setting up a test (protocol validation, creation of abacus, observation of physical phenomena, etc.) because it makes it possible to correlate the compression tube value with its internal pressure.

ACRN can provide with the delivery of the system, an abacus validated during these years of experience.

## ● Operation

You just have to open the valve to fill the water pipe. During the external effort, a pressure balance is then created between the water and the product, pressure reported at the level of the manometer, protected by a water membrane during compression.



## BENEFITS

- Easy to use and affordable
- Establishment of a reliable weld resistance test protocol according to transport requirements
- Adaptable to all types of samples
- Suitable to the production environment / Robust
- Many different pressers to reach the target internal pressure

## TECHNICAL INFORMATION

<b>Measurement mode</b>	Internal pressure
<b>Internal pressure range</b>	From 0 to 6 bars
<b>Material used</b>	Thermoplastic material (PP, PEP, EST, etc.)
<b>Accuracy</b>	+/- 0.1 bar
<b>Dimensions</b>	L 200 x D 100 X H 265 mm
<b>Weight</b>	2 Kg
<b>Guarantee</b>	1 year

## OPTIONS

Kit of caps equipped in addition to the two supplied

**ACRN can also realize these tests for you. Please, contact us.**

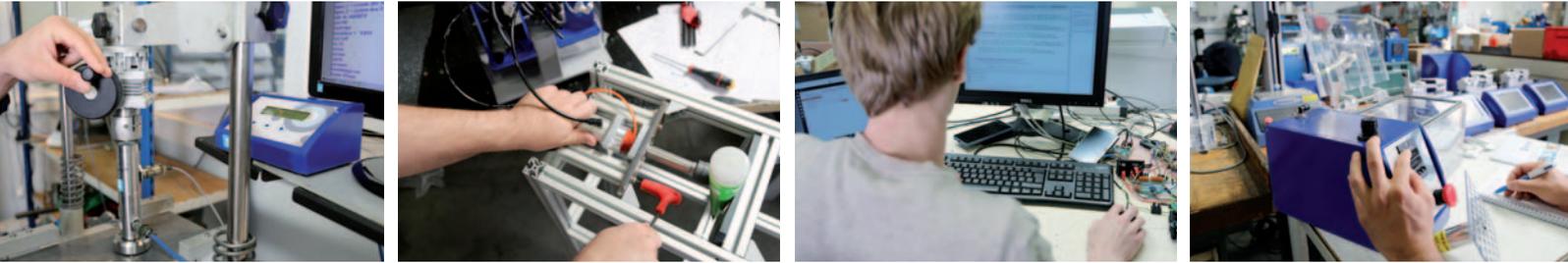
## DELIVERED WITH:

- Explanatory manual of physical principles.
- Detailed procedure for taking measurements and creating the chart.
- 2 caps equipped .

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## ACRN A GLOBAL OFFER

*for your packaging quality controls*



### Calibration and annual maintenance

ACRN is equipped with a metrology laboratory.

Setting up tests, choice of materials, state of the art, work on repeatability  
we can advise you according to your needs (tecnology, budget, ergonomics).

### Leak testing and dynamometric testing

Our skills and equipment for leak testing and dynamometric testing for packaging

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*Major manufacturers have trusted us for many years*

