

Product Data Sheet

Vacuum Box BAV4025



The BAV4025 is an NDT vacuum box designed for flat surfaces, tailored for leak testing welds, sheets, waterproofing membranes, and coverings on roof terraces, flat roofs in various industrial sectors. Its interchangeable base offers great flexibility to inspect different surfaces and weld configurations, enabling rapid leak detection.

The BAV4025 is a vacuum box, also known as a bubble box, specifically designed for checking the tightness of flat surfaces (**configuration 1**), for example:

- Storage tanks:
 - Tank bottom plates
 - Shells with a curvature radius greater than 2.5 meters
- Boat hulls
- Overlap and butt welds
- Roofing waterproofing sheets and membranes, flat or terrace roofs
- Any other surfaces (metallic or non-metallic) where a pressure gradient can be applied



Its two-part design consisting of the main body and an interchangeable base addresses the challenges of equipment maintainability (maintenance), versatility, and ensures good readability of indications (height of the viewing window).

The BAV-4025 vacuum box can optionally accommodate the internal corner base of the BAV-4025IA (**configuration 2**) to increase its inspection capabilities.

Our vacuum box can operate either by compression using the venturi system or by suction using our specially adapted optional vacuum pump.

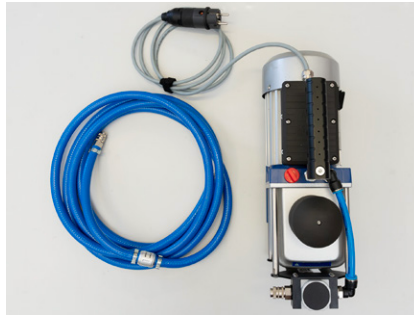
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Options



Hardened transport case

To safely transport your vacuum box, we offer a hardened transport case with a machined imprint in the shape of the vacuum box to prevent any movement. This case can transport both bases (plate and Internal Angle base)



Vacuum pump PAV-2209

To use the vacuum box in suction mode with a vacuum pump. We offer a customized 220V 9CFM pump adapted for field conditions. It includes a 2-meter pneumatic hose with our innovative flow regulation and rapid depressurization



Gauge with calibration certificate

We standardly provide a CE-certified but uncalibrated gauge. Therefore, we offer an option of a calibrated gauge with a verification certificate for your standardized inspections.



Additional Base for Internal Right Angles

This option allows you to keep the body of your BAV-4025 vacuum box and equip it with this base for inspecting internal right angles (see control configuration no. 2 at the top of the page). Custom-made bases can be produced upon request.

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TECHNICAL SPECIFICATIONS

Details

Dimensions	400mm x 250mm x 125mm
Weight	5100g
Materials	Main body: Aluminium alloy, Plexiglas Base: Plexiglas, closed-cell foam
Gauge	-1 Bar
Vacuum Generator Type	Hybrid system: - Venturi Effect: Requires a compressor of 10m ³ /hour at 8 bar - Vacuum pump (optional)
Foam Type	Closed-cell foam
Foam Height	35 mm
Foam Hardness	40/50 Shore 00