

Product Data Sheet

Vacuum Box BAV4025IA



The BAV4025IA is an NDT vacuum box for internal right angles, designed for leak testing 90° internal corner welds, such as inside storage tanks to inspect the shell-to-bottom joint, and also in all types of tanks and containers across various industrial sectors. Its interchangeable base offers great flexibility for inspecting different surfaces and weld configurations, enabling rapid leak detection.

The BAV4025IA is a vacuum box, also known as a bubble box, specially designed for checking the tightness of internal right-angle surfaces (**configuration 2**), for example:

- Storage tanks with a curvature radius greater than 2.5 meters:
 - Bottom shell to cylinder junction with a curvature radius greater than 2.5 meters
 - Ship tanks
- Waterproofing membranes for roofs, flat roofs, or terrace roofs
- Any other right-angle 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-4025IA vacuum box can optionally accommodate the internal corner base of the BAV-4025 (**configuration 1**) to enhance 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.

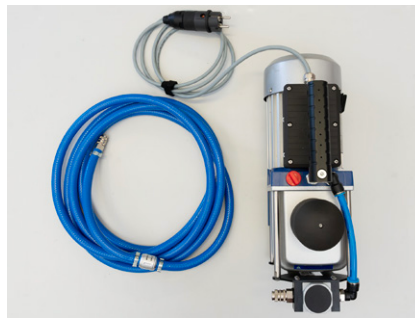
Vacuum Box BAV4025IA

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 Flat Base

This option allows you to keep the body of your BAV-4025IA vacuum box and equip it with this base for inspecting flat surfaces (see control configuration no. 1 at the top of the page). Custom-made bases can be produced upon request.

Vacuum Box BAV4025IA

TECHNICAL SPECIFICATIONS

Details

Dimensions	400 mm x 235 mm x 235 mm
Weight	7200 g
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 10m3/hour at 8 bar - Vacuum pump (optional)
Foam Type	Closed cell foam
Foam Height	35 mm
Foam Hardness	40/50 Shore 00