

GENERAL PRESENTATION



The series of BAV vacuum boxes with interchangeable bases has been specifically designed to inspect angled assemblies, whether open or closed, depending on the selected options.

Their versatility allows them to be used across various sectors, particularly in the maritime industry for inspecting ship hulls, tanks, and repair inserts.

The BAV series vacuum boxes are composed of two parts:

- The inspection window
- The sealing base

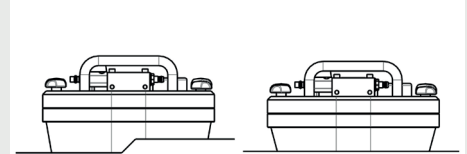
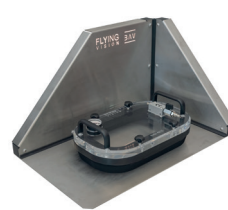
This innovative design allows you to keep the inspection window while changing the base according to the control configuration, thereby enhancing the tool's flexibility and efficiency.



CONTROL CONFIGURATIONS

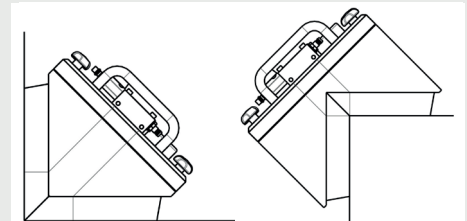
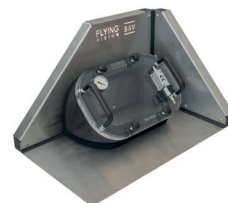
Flat controls:

- Flat welds
- Lap joints
- Internal or external circular welds depending on the curvature radius



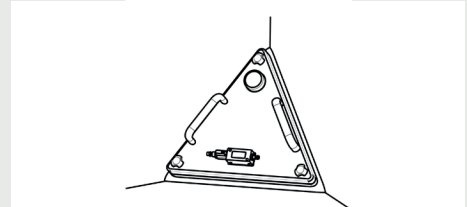
Angle controls:

- Internal angle welds
- External angle welds
- Internal or external angle welds with a varying angle



Corner controls:

- Internal corner welds at 90°
- Internal corner welds where an isosceles plane is present



MAIN FEATURES

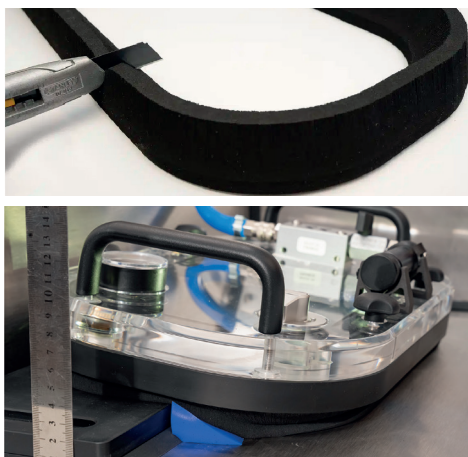
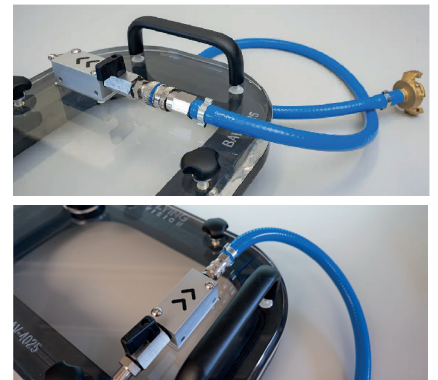


Design in two parts

- Independent inspection window including all elements necessary for inspection processing (vacuum gauge, hybrid vacuum system, and handling grips)
- Height of the inspection chamber at least 2cm to facilitate indication interpretation
- Interchangeable base for:
 - Quick maintenance
 - Modularity / configuration change

Hybrid vacuum system

- Venturi effect vacuum
- Vacuum pump suction
- Airflow regulation valve on the Venturi side
- Aluminum and stainless steel design for enhanced durability
- Integrated into the window to ensure mechanical protection
- Quick coupling Rectus type 21 male (vacuum pump side)
- Quick coupling Rectus type 23 male (Venturi side)



High-performance foam

- High resistance to abrasion
- Flexibility 40/50 shore 00
- Standard foam heights of 35 mm
- High deformation and clearance capacity (around 20mm for standard foam and around 30 mm for 50 mm foam)*
- Innovative geometry to ease application and reduce effort
- High resistance adhesive bonding
- Resistant to hydrocarbons and most chemicals

**Performance achievable with the upcoming "Silicon spacers" accessory*

Integrated pressure gauge

- Integrated into the window for mechanical protection
- Easily removable with one nut
- Measurement range from 0 to -1 Bar
- Calibration certificate available as an option



Control valve

- Precise adjustment of the vacuum pressure using either the Venturi effect or a vacuum pump
- Release valve for eliminating the vacuum and immediately detaching the vacuum box



GENERAL OPTIONS



LED Lighting - Ref: BAV-A050

- Removable LED lighting with battery
- USB-C charging port
- Diffuser to reduce reflections
- Light temperature 4500°K
- Adjustable from 500 to 15000 Lux
- 6 hours of battery life at 2500 Lux
- IP68 protection



Rugged Transport Cases

Rugged transport cases with a custom-made insert to fit the vacuum box, preventing movement.

These cases can transport several bases depending on the version



Silicon spacers kit for lapweld - Ref: BAV-A090

We have developed a kit of silicone spacers designed to inspect your lap welds with thickness variations of up to 25 mm.

Our silicone spacers feature an innovative design and flexibility, allowing them to adapt easily to all welding and bevel configurations.

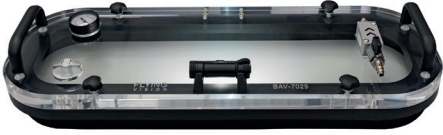
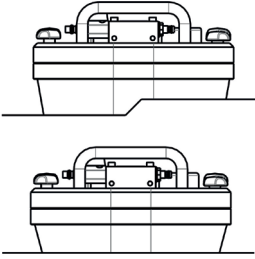
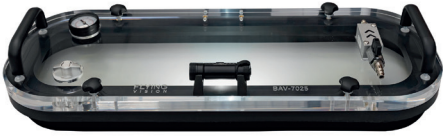
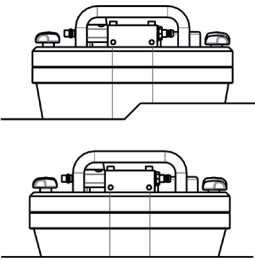

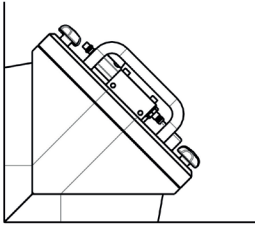


Pressure Gauge with Calibration Certificate - Ref: BAV-A030-2

Pressure gauge with a verification certificate for your standardized inspections.

PRODUCTS

BAV7025 Series Kits

Reference / Designation	Control Configuration	Specifications
Réf: BAV-A100-001 BAV7025 - Flat vacuum box kit 		Dimensions 700 x 250 x 130 mm Weight 7.2 kg Foam Height 35 mm Foam Hardness 40/50 Shore 00 Max Controllable Height 15 mm* Min Control Radius 8 m
Réf: BAV-A100-002 BAV7025 - Flat vacuum box kit 		Dimensions 700 x 250 x 140 mm Weight 7.2 kg Foam Height 45 mm Foam Hardness 40/50 Shore 00 Max Controllable Height 25 mm* Min Control Radius 8 m
Réf: BAV-A100-003 BAV7025 - 90° angle vacuum box kit 		Dimensions 700 x 250 x 300 mm Weight 9.5 kg Foam Height 35 mm Foam Hardness 40/50 Shore 00 Nominal Control Angle 90°

Optional Bases for the BAV7025x

Reference	Designation
Réf: BAV-A120-1	Complete base for BAV7025x - 180° Angle / flat base - Foam height 35mm
Réf: BAV-A120-2	Complete base for BAV7025x - 180° Angle / flat base - Foam height 45mm
Réf: BAV-A120-3	Complete base for BAV7025x - 90° Angle - Foam height 35mm


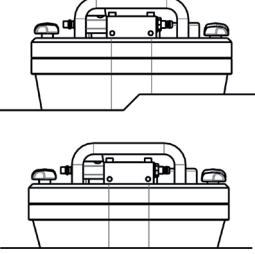

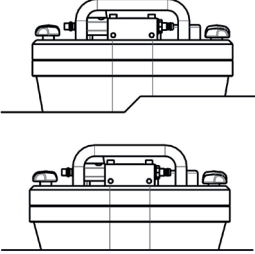

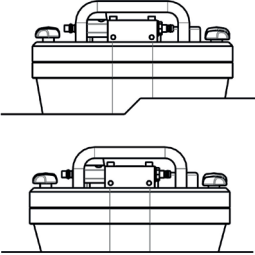

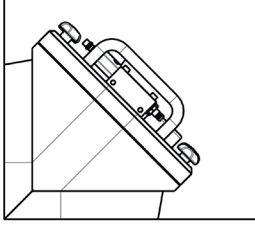

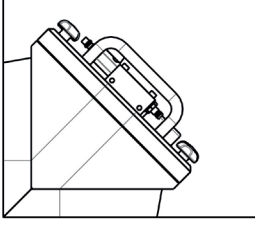
▶ LEAK TESTING PRODUCT RANGE

▶ VACUUM BOX

FLYING VISION

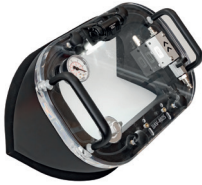
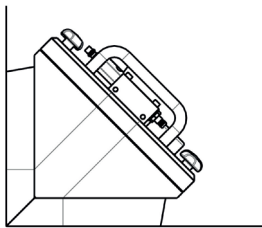
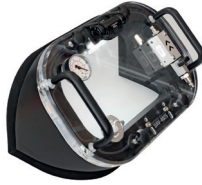
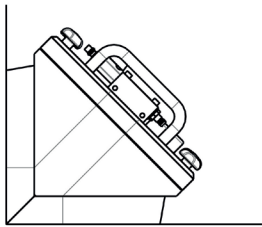

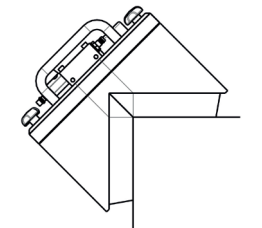

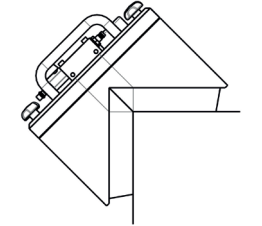
PRODUCTS

BAV4025x Series Kits

Reference / Designation	Control Configuration	Specifications	
Réf: BAV-A200-001 BAV4025 - Flat vacuum box kit - 35 mm foam 		Dimensions Weight Foam Height Foam Hardness Max Controllable Height Min Control Radius	400 x 250 x 130 mm 4.5 kg 35 mm 40/50 Shore 00 20 mm* 2.5 m
Réf: BAV-A200-002 BAV4025 - Flat vacuum box kit - 45mm foam 		Dimensions Weight Foam Height Foam Hardness Max Controllable Height Min Control Radius	400 x 250 x 140 mm 4.5 kg 45 mm 40/50 Shore 00 20 mm* 2.5 m
Réf: BAV-A200-003 BAV4025 - Flat vacuum box kit - 70mm high base 		Dimensions Weight Foam Height Foam Hardness Max Controllable Height Min Control Radius	400 x 250 x 190 mm 6.8 kg 35 mm 40/50 Shore 00 20 mm* 2.5 m
Réf: BAV-A300-2 BAV4025A - 70° angle vacuum box kit 		Dimensions Weight Foam Height Foam Hardness Nominal Control Angle Max Controllable Angle	400 x 250 x 300 mm 6.5 kg 35 mm 40/50 Shore 00 70° ≈ 65° à 80°
Réf: BAV-A300-1 BAV4025A - 90° angle vacuum box kit 		Dimensions Weight Foam Height Foam Hardness Nominal Control Angle Max Controllable Angle	400 x 250 x 250 mm 6.2 kg 35 mm 40/50 Shore 00 90° ≈ 80° à 100°

PRODUCTS

BAV4025x Series Kits

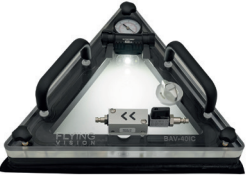
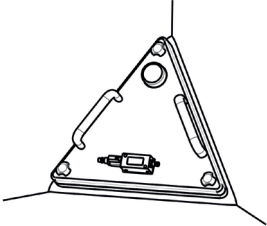
Reference / Designation	Control Configuration	Specifications
Réf: BAV-A300-3 BAV4025A - 110° angle vacuum box kit 		Dimensions 400 x 250 x 220 mm Weight 6 kg Foam Height 35 mm Foam Hardness 40/50 Shore 00 Nominal Control Angle 110° Max Controllable Angle ~ 100° à 120°
Réf: BAV-A300-4 BAV4025A - 130° angle vacuum box kit 		Dimensions 400 x 250 x 190 mm Weight 5.8 kg Foam Height 35 mm Foam Hardness 40/50 Shore 00 Nominal Control Angle 130° Max Controllable Angle ~ 120° à 140°
Réf: BAV-A300-5 BAV4025A - 220° angle vacuum box kit 		Dimensions 400 x 250 x 190 mm Weight 6.2 kg Foam Height 35 mm Foam Hardness 40/50 Shore 00 Nominal Control Angle 220° Max Controllable Angle ~ 210° à 230°
Réf: BAV-A300-6 BAV4025A - 270° angle vacuum box kit 		Dimensions 400 x 250 x 250 mm Weight 6.2 kg Foam Height 35 mm Foam Hardness 40/50 Shore 00 Nominal Control Angle 270° Max Controllable Angle ~ 260° à 280°

Optional Bases for the BAV4025x

Reference	Designation
Réf: BAV-A220-1	Complete base for BAV4025x - 180° Angle / flat base - Foam height 35mm
Réf: BAV-A220-2	Complete base for BAV4025x - 180° Angle / flat base - Foam height 50mm
Réf: BAV-A220-3	Complete base for BAV4025x - 70 mm high flat base - Foam height 50mm
Réf: BAV-A320-2	Complete base for BAV4025x - 70° Angle - Foam height 35mm
Réf: BAV-A320-1	Complete base for BAV4025x - 90° Angle - Foam height 35mm
Réf: BAV-A320-3	Complete base for BAV4025x - 110° Angle - Foam height 35mm
Réf: BAV-A320-4	Complete base for BAV4025x - 130° Angle - Foam height 35mm
Réf: BAV-A320-5	Complete base for BAV4025x - 220° Angle - Foam height 35mm
Réf: BAV-A320-6	Complete base for BAV4025x - 270° Angle - Foam height 35mm

PRODUCTS

BAV40C Kits series

Reference / Designation	Control Configuration	Specifications	
Réf: BAV-A400-001 BAV40C - int. corner vacuum box kit 		Dimensions	490 x 270 x 130 mm
		Weight	4.5 kg
		Foam Height	15 mm
		Foam Hardness	40/50 Shore 00
		Controllable Angle	Internal corner at 90° or corner where the 3 sides form an isosceles plane

GENERAL ACCESSORIES

Reference	Designation
Réf: BAV-A050	LED lighting for vacuum box
Réf : BAV-A090	Silicon spacers kit for lapweld
Réf: BAV-A060	1-meter hose - venturi circuit - Rectus 23 female quick coupling / air claw coupling
Réf: BAV-ACS-07	2-meter extension hose - vacuum pump air circuit - Rectus 21 male / female quick couplings
Réf: BAV-ACS-04	10-meter extension hose - vacuum pump air circuit - Rectus 21 male / female quick couplings
Réf: BAV-ACS-05	20-meter extension hose - vacuum pump air circuit - Rectus 21 male / female quick couplings
Réf: BAV-ACS-06	30-meter extension hose - vacuum pump air circuit - Rectus 21 male / female quick couplings

▶ LEAK TESTING PRODUCT RANGE

▶ VACUUM PUMP PAV-B8-220 / PAV-B8-110

FLYING VISION



We offer an ultra high-performance dry vacuum pump (8m³/h - 150 mbar vacuum) in 220V and 110V, perfectly suited for the most demanding field conditions, with optimal reliability and minimal maintenance.

Its dry vane vacuum system eliminates the need for oil lubrication, allowing the pump to operate in any orientation without the risk of failure or environmental contamination.

Our PAV-B8 vacuum pump will be perfect for your vacuum box leak testing applications and can also meet a wide range of other applications.

Uncompromising reliability, durability and performance

High Performance

Nominal airflow of 8 m³/h and an ultimate vacuum of 150 mbar

Low Maintenance

100% oil-free operation with self-lubricating graphite vanes

Reinforced Design

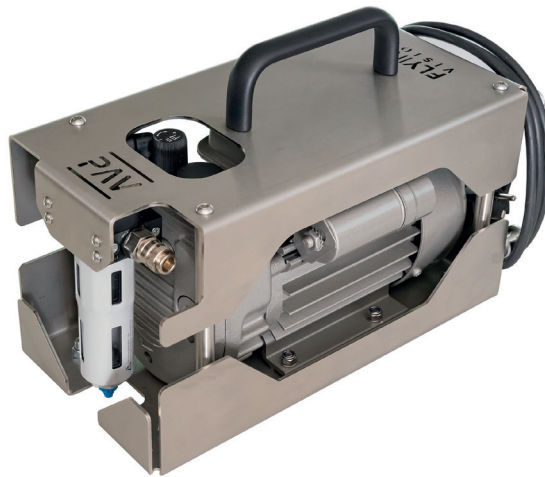
Compact and robust stainless steel casing

Quiet Operation

Noise level of 58 dB at 50 Hz

Low Vibrations

Single-shaft direct drive system



Quick Pneumatic Connection

Rectus 21 Male Stainless Steel

Adjustment Valve

Adjustable minimum vacuum valve

Exhaust Valve

Automatic dust-proof system

Filtration System

Dual-phase filter for particles/water

Power Supply

Reinforced polyurethane cable

Ruggedness

Reinforced casing, extended durability, and minimal maintenance for the most challenging

All-in-One Design

All systems, including the start-up control and pneumatic connections, are integrated and protected within the casing. This maximizes compactness and ensures easy handling, transport, and storage.



▶ LEAK TESTING PRODUCT RANGE

▶ VACUUM PUMP PAV-B8-220 / PAV-B8-110

FLYING VISION

KIT COMPOSITION



PAV-B8-220 / PAV-B8-110 main body including:

- Aluminum carry handle
- On/off switch
- Power cable approximately 1.8m
- Vacuum regulation valve
- Dust-proof exhaust valve
- Dual-phase filter for moisture/dust
- Quick connection system
Rectus 21 Male



GENERAL SPECIFICATIONS

Vacuum pump generator type:	Dry vane vacuum pump with self-lubricating, graphite composite vanes
Materials:	Stainless steel, aluminum
Dimensions:	40 x 18 x 23 cm
Weight:	15 kg
Ultimate vacuum:	150 mbar
Nominal airflow:	8 m ³ /h
Power supply / electrical power:	230V and 110V 0.35kW at 50Hz and 0.42kW at 60Hz
Connection type:	Rectus 21 Male quick coupling
Protection rating:	IP54
Certifications:	CE - UKCA

