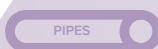


VACUUM BOX

Bubble Leak Testing for Storage Tank Weld Seams



TANKS



PIPES



VESSELS

- > INTEGRATED LED LIGHTING
- > CALIBRATED VACUUM GAUGE
- > EXTREMELY RUGGED CONSTRUCTION
- > DESIGNED TO API 650 & 653 RECOMMENDATIONS

VACUUM BOX

BUBBLE LEAK TESTING OF TANK BOTTOM PLATE WELDS AND SHELL TO BOTTOM PLATE WELDS

Silverwing's range of vacuum boxes are suitable for both new build and in-service storage tank weld inspection. Unlike some vacuum boxes that rely upon a vulnerable vacuum gauge the Silverwing range have calibrated vacuum relief valves fitted as standard. The use of a calibrated vacuum relief valve ensures that not only do they meet the requirements of applicable international standards but prevents damage to vacuum box and reduces the risk of operator injury due to over vacuum resulting in the viewing window imploding.

V750 KEY FEATURES

- > Integrated LED to maintain correct light level (optional)
- > Higher productivity due to 750 mm length
- > Two stage seal design to improve initial vacuum
- > Calibrated vacuum gauge
- > Calibrated relief valve to control vacuum
- > Carry bag for easy transportation

GENERAL KEY FEATURES

- > Electric pump, compressor or combined versions
- > High & low vacuum variants for in-services and new build tanks
- > Tank bottom and shell to bottom weld inspection models
- > Field proven durability & reliability

V750 VACUUM BOX

The latest addition to the vacuum box range is the V750. The V750 has been completely redesigned to API 650 / 653 inspection standards. The design incorporates a 750 mm weld inspection length, extremely rugged body, calibrated vacuum gauge, internal LED's to ensure correct visibility along the test weld, new two stage seal designed to maximise efficiency and reduce operator fatigue.

ELECTRIC PUMP OR COMPRESSOR DRIVEN

The vacuum is generated by the use of an electric vacuum pump or by use of an Air Vacuum Generator (AVG) and external compressor. Inspection companies tend to use the electric pump with the vacuum boxes due to its greater flexibility while construction companies tend to use the AVG based systems.

HIGH AND LOW PRESSURE MODELS

The vacuum boxes are rated to either 20 inch Hg (10psi/0,7bar) which are recommended for in-services tanks or 10 inch Hg (5psi/0.37bar) which are recommended for new build tanks.



CALIBRATED GAUGE

The V750 is supplied with an industrial 100 mm face glycerine filled pressure gauge rated to 30 in Hg as required by ASME V Article 10 – Bubble Test Vacuum Box Technique. Along with the vacuum gauge is a vacuum relief valve which prevents the box from drawing too great a vacuum which could damage the box.



Calibrated Gauge

LED LIGHTS

The optional built in LED lights provide the recommended light intensity along the weld under test as recommended by API 650. The LED lights can be switch on and off with a simple push button eliminating the need for the operator to move their standard halogen lights as they move round the tank.

TECHNICAL SPECIFICATION

V750

Dimensions:	L 935 x W 265 x H 190 mm
Weight:	10.5 kg
Pressure rating:	20 inch Hg
Weld test length:	750 mm

V400C, V400CAVG, V400D

Dimensions:	L 660 x W 310 x H 380 mm
Weight:	8.95 kg
Pressure rating:	20 inch Hg
Weld test length:	400 mm
Min tank diameter:	5 meters

V600LP, V600LPAVG

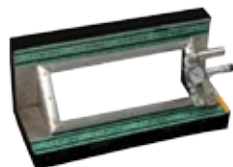
Dimensions:	L 660 x W 220 x H 150 mm
Weight:	2.75 kg
Pressure rating:	10 inch Hg
Weld test length:	600 mm

V400LP, V400LPAVG

Dimensions:	L 540 x W 220 x H 220 mm
Weight:	4 kg
Pressure rating:	10 inch Hg
Weld test length:	400 mm
Min tank diameter:	5 meters

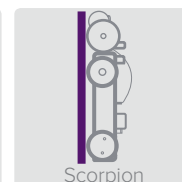
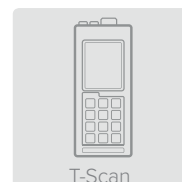
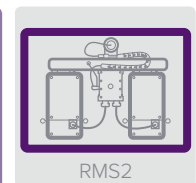
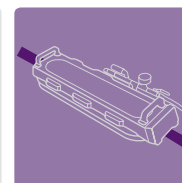
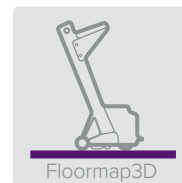
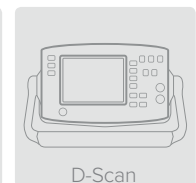
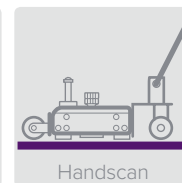
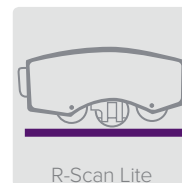
Electric Vacuum Pump - VP110 / VP240

Dimensions:	L 500 x W 250 x H 310 mm
Weight:	27.70 kg
Power:	110 v or 240 v



THE SILVERWING SYSTEM

Silverwing produce a full range of equipment for corrosion inspection of storage tanks, including floor plate, wall and roof structures. The product range includes MFL mapping and manual systems, ultrasonic crawlers for thickness measurement, and vacuum boxes for weld inspection. By supplying a complete range we can offer unrivalled support, and ensure the highest quality inspection in the most efficient way. All our products are field proven by our in house teams and used by the most respected global inspection companies. For a complete overview contact our technical sales team.



For more information on Silverwing Systems please visit our web site: www.silverwingndt.com



LED Lights

CARRY BAG

A custom manufactured nylon carry bag with wipe clean lining, a hard base to protect the vacuum box seal, storage pockets for batteries and chargers. With the operator in mind the storage bag has built in wheels to allow operator to easily transport the equipment whilst on site.



750 Bag

ORDER CODES

ORDER CODE	VACUUM TYPE	VACUUM RATING	WELD TYPE	LED	CALIBRATED GAUGE
V750LED-F:	Vacuum pump driven	20 inch Hg	Flat Plate	Yes	Yes
V750LED-AVG:	Compressor driven	20 inch Hg	Flat Plate	Yes	Yes
V750LED-DUAL:	Vacuum pump or compressor driven	20 inch Hg	Flat Plate	Yes	Yes
V750-F:	Vacuum pump driven	20 inch Hg	Flat Plate	No	Yes
V750-AVG:	Compressor driven	20 inch Hg	Flat Plate	No	Yes
V750-Dual:	Vacuum pump or compressor driven	20 inch Hg	Flat Plate	No	Yes
V400C:	Vacuum pump driven	20 inch Hg	Shell to Floor	No	No
V400CAVG:	Compressor driven	20 inch Hg	Shell to Floor	No	No
V400D:	Vacuum pump or compressor driven	20 inch Hg	Shell to Floor	No	No
V600LP:	Vacuum pump driven	10 inch Hg	Flat Plate	No	No
V600LPAVG:	Compressor driven	10 inch Hg	Flat Plate	No	No
V400LP:	Vacuum pump driven	10 inch Hg	Shell to Floor	No	No
V400LPAVG:	Compressor driven	10 inch Hg	Shell to Floor	No	No

ACCESSORIES

ORDER CODE	DESCRIPTION
VP110	110 V electric vacuum pump
VP240	240 V electric vacuum pump
SW001457	Vacuum pump service kit
VACH1C	10 meter hose for use with air compressor includes additional bayonet European Male Compressor Coupling (1/2" BSPT)
VACH2C	10 meter hose for use with vacuum pump for use with an Electric Vacuum Pump.
SW001365	Vacuum box seal adhesive
SW002099	Seam test concentrate 1 kg (powder)
V750-BAG	V750 carry bag
V750-SP	V750 screen protector

V750 SPARES

V759	V750 replacement window
V756	Replacement seal for V750

V600LP SPARES

SW001390	V600LP replacement window
V619	Replacement seal for V600LP/V600LPAVG

V400C SPARES

V403	V400C replacement window
V412	Replacement seal for V400C/V400CAVG/V400D

V400LP SPARES

V407	V400LP replacement window
V401	Replacement seal for V400LP/V400LPAVG

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ALWAYS ACCURATE. ALWAYS EFFICIENT.

