



SILVERWING

Specialist Inspection Equipment

Technology Driven
Not Operator
Dependent

Vacuum Box



Industry



Lightweight electric vacuum box systems to compliment our range of tank inspection equipment.

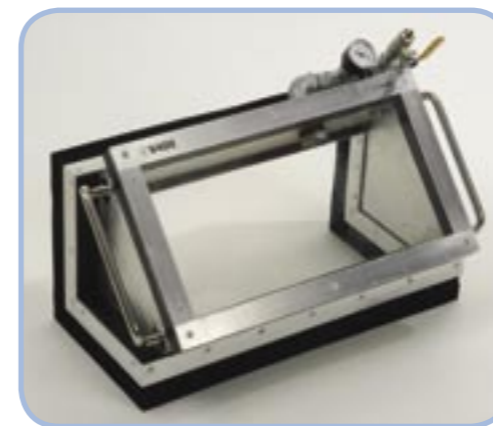
To compliment our range of tank inspection equipment, Silverwing UK Ltd now manufactures vacuum box systems for weld seam leak testing. These lightweight and portable systems eliminate the need for a compressor as the vacuum is generated by the portable electric vacuum pump.



Off the shelf designs are available for lap

welds / butt welds (flat) and shell to annular welds (angled) and we can produce custom vacuum boxes to suit your specific needs. The vacuum box test is performed on welded seams for rapid integrity evaluation.

The weld is flooded with detergent solution and the vacuum box placed over the top. The open edge of the vacuum box incorporates a soft but hard wearing neoprene seal so a vacuum can be generated within the box. The operator views the weld area through a clear polycarbonate observation window in the top of the box. A stream of bubbles will indicate any leaks in the weld.



A vacuum relief valve is incorporated in the system to prevent damage to the vacuum box. This is set at 20in.Hg (10 psi) ensuring that the most stringent requirements of EEMUA, API and ASME are met.

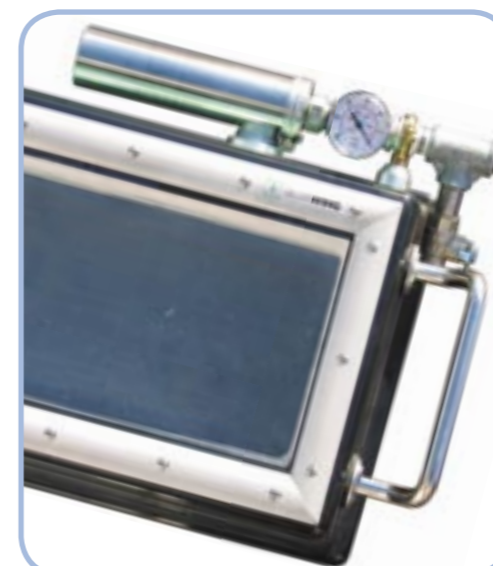
The Silverwing vacuum box system is highly effective and

provides a rapid, economic method of evaluating the integrity of various welds. Although designed for the

harsh environments of above ground

storage tanks our vacuum box system is

suitable for a wide range of applications.



Technical Specification

V600 Vacuum Box

Dimensions	Length 760mm x Width 263mm x Height 145mm
Weight	11kg
Weld test length	600mm
Weld type	Tank floor lapwelds and butt welds.
Tank Diameter	All tank diameters

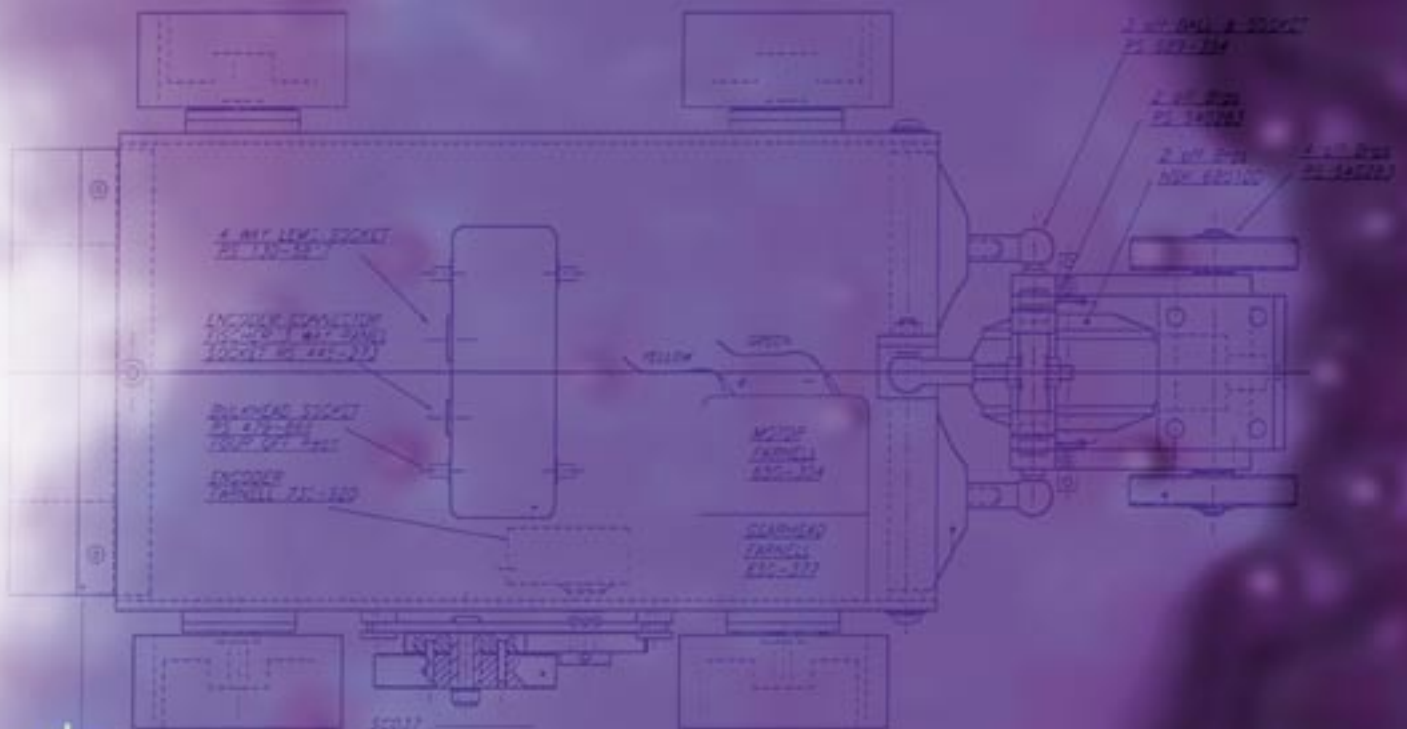
V400 Vacuum Box

Dimensions	Length 550mm - height and width depend on angle
Weight	7kg
Weld test length	400mm
Weld type	Shell to annular welds.
Tank Diameter	5 meter diameter and over

Vacuum Pump (used with both boxes)

Dimensions	Length 403mm x Width 165mm x Height 236mm
Power supply	110/220v 50/60Hz
Pump type	Electric oil-less vacuum pump with carbon fibre vanes
Designed operating pressure	20in.Hg (10 psi)
Cable length	5m
Hose Length	30 foot
Pump Weight	25kg

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