

Model 60-31M

Miniature Auto Vent Unit

The model 60-31M acts as a phase separator for liquid nitrogen, removing gaseous nitrogen from small piping, such as valve manifolds, to ensure rapid liquid response at the outlets.

This facilitates accurate temperature control, in systems where “slugs” of gaseous nitrogen could cause a loss of control because of the low cooling power of the gas, compared with liquid nitrogen.

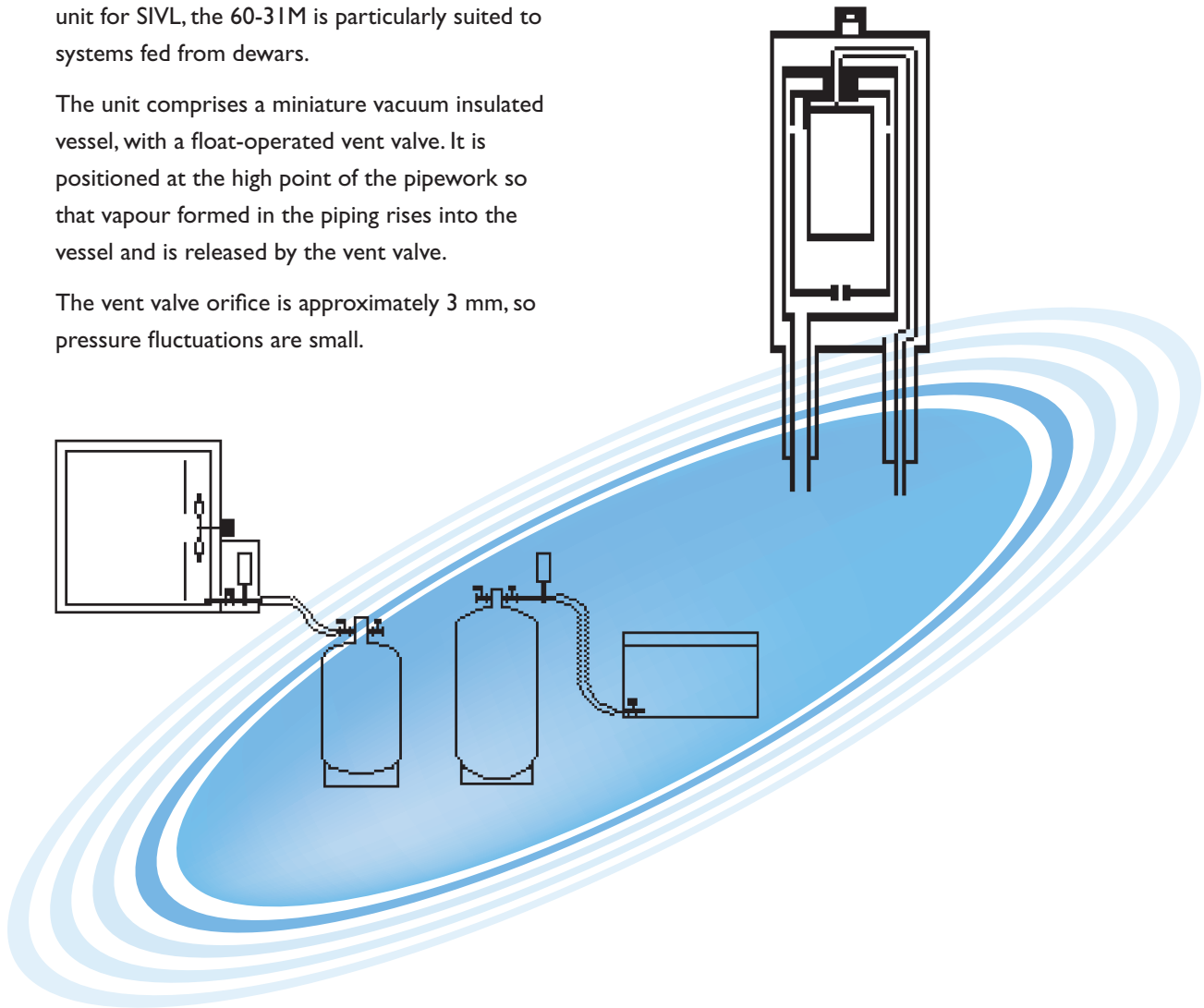
Based on the well-established model 60-31 vent unit for SILV, the 60-31M is particularly suited to systems fed from dewars.

The unit comprises a miniature vacuum insulated vessel, with a float-operated vent valve. It is positioned at the high point of the pipework so that vapour formed in the piping rises into the vessel and is released by the vent valve.

The vent valve orifice is approximately 3 mm, so pressure fluctuations are small.

The model 60-31M is normally installed with a check valve and isolation valve in the vent line. The check valve prevents ingress of moisture from the atmosphere, and the isolation valve allows the vent to be shut off.

Typical applications are in environmental test chambers, cooling systems etc.



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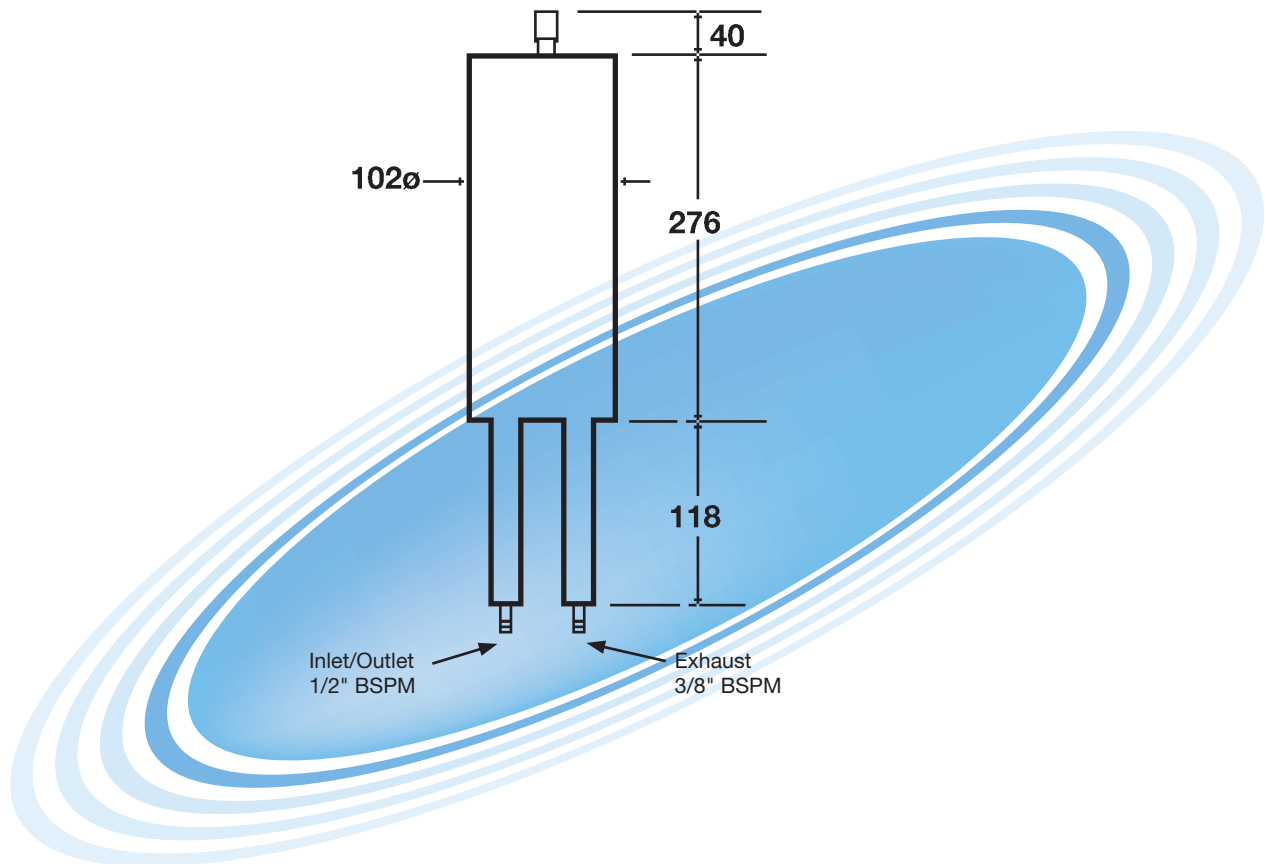
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Specifications

Materials of Construction	Austenitic Stainless Steel types 304/321/316
Contraction Compensation	Internal Bellows assembly
Jacket Protection	Combined evacuation/relief port
Maximum Operating Pressure Differential	10 bar g
Design Pressure	18.15 bar g
Test Pressure	20.1 bar g

Dimensions



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