



HENRY
TECHNOLOGIES

Vibration Eliminators

NEW HIGH PRESSURE
VS SERIES

Based on the proven high quality
design of the **V SERIES**

FEATURES

Maximum Working
Pressure of 60 Bar for
sizes up to 1-3/8"

All Joints
Tig Welded

Full Stainless
Steel Construction

Suitable for
use with CO₂
and HFC's



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DESIGNED FOR PERFORMANCE

VIBRATION ELIMINATORS



V SERIES

The function of a Vibration Eliminator is to absorb compressor vibration. By installing a vibration eliminator, the risk of damage to system equipment and pipework is reduced.

Applications

A vibration eliminator can be installed in both the suction and discharge lines of air-conditioning and refrigeration systems.

Vibration eliminators are suitable for HCFC, HFC and CO₂ refrigerants, along with their associated oils.

Main Features

- Proven design
- Large hose ID
- Stainless steel hose and braid
- Stainless steel ferrules for superior strength
- Helium leak tested
- CE marked
- UL listed (V series only)

Technical Specification

Allowable operating pressure = As per table

Allowable operating temperature = -40°C to +120°C (V & VS models)

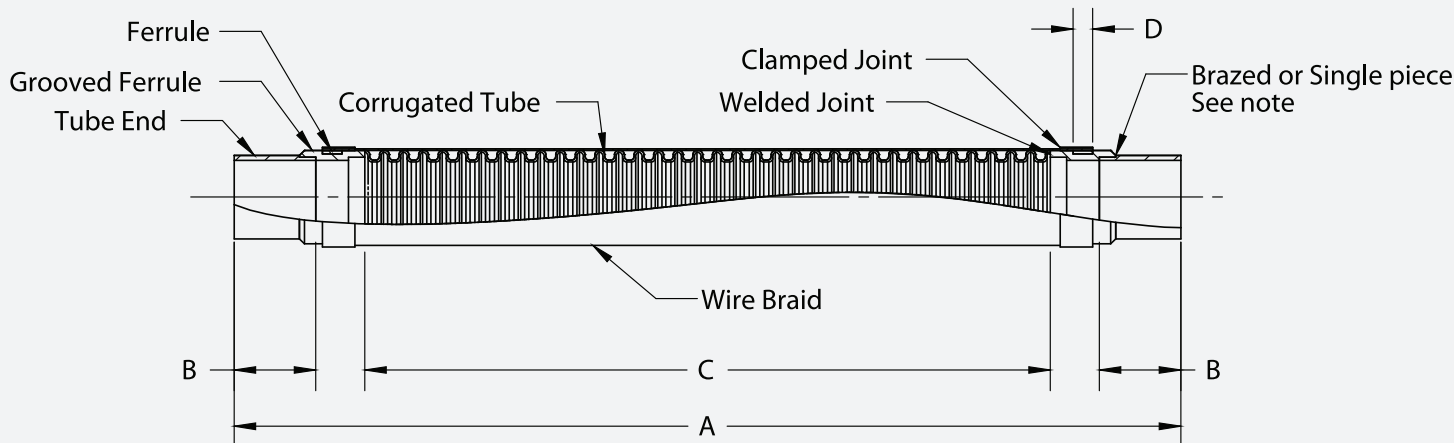
VS SERIES

The V Series

Each unit is constructed of a deep pitch corrugated hose covered with a stainless steel braid. The hose and braid are reinforced by ferrules at each end and connected to copper tube ends by a high temperature braze alloy.

The VS Series

The VS series is based on the proven design of the V series with a few modifications. The VS series is constructed entirely of stainless steel and all joints are tig welded. Consequently there is no need to wet-rag the product during the installation process. The maximum working pressures are higher, as detailed in the table.



Note
Copper tube ends are brazed into grooved ferrule
Stainless Steel tube ends & grooved ferrule are machined from one piece

VIBRATION REDUCTION

V and VS Series (Imperial range)

Part No		ODS (inch)	Dimensions (mm)				MWP (barg)		weight (kg)	CE Cat
			A	B	C	D				
V Series	VS Series		(+/-6)	(+/-3)	(+/-3)	(+/-1.5)	V Series	VS Series		
V-1/4	VS-1/4	1/4	202	17	133	10	44.8	60.0	0.14	SEP
V-3/8	VS-3/8	3/8	215	18	141	10	44.8	60.0	0.14	SEP
V-1/2	VS-1/2	1/2	225	18	151	10	44.8	60.0	0.15	SEP
V-5/8	VS-5/8	5/8	247	20	169	10	44.8	60.0	0.21	SEP
V-3/4	VS-3/4	3/4	266	23	180	11	44.8	60.0	0.32	SEP
V-7/8	VS-7/8	7/8	301	25	211	11	44.8	60.0	0.31	SEP
V-1-1/8	VS-1-1/8	1-1/8	329	32	223	12	41.3	60.0	0.42	I
V-1-3/8	VS-1-3/8	1-3/8	392	35	274	14	37.9	60.0	0.66	I
V-1-5/8	VS-1-5/8	1-5/8	425	40	295	16	35.1	45.0	0.98	I
V-2-1/8	VS-2-1/8	2-1/8	520	50	370	16	27.5	40.0	1.46	I
V-2-5/8	VS-2-5/8	2-5/8	613	60	434	19	24.1	35.0	2.60	I
V-3-1/8	VS-3-1/8	3-1/8	680	70	481	19	22.0	30.0	3.60	I
V-3-5/8	VS-3-5/8	3-5/8	812	85	579	21	13.0	20.0	4.70	I
V-4-1/8	VS-4-1/8	4-1/8	832	90	589	21	13.0	20.0	5.50	I

V and VS Series (Metric range)

Part No		ODS (mm)	Dimension (mm)				MWP (barg)		weight (kg)	CE Cat
			A	B	C	D				
V Series	VS Series		(+/-6)	(+/-3)	(+/-3)	(+/-1.5)	V Series	VS Series		
V-6M	VS-6M	6	202	17	133	10	44.8	60.0	0.14	SEP
V-10M	VS-10M	10	215	18	141	10	44.8	60.0	0.14	SEP
V-12M	VS-12M	12	225	18	151	10	44.8	60.0	0.15	SEP
V-5/8	VS-5/8	16	247	20	169	10	44.8	60.0	0.21	SEP
V-7/8	VS-7/8	22	301	25	211	11	44.8	60.0	0.31	SEP
V-28M	VS-28M	28	329	32	223	12	41.3	60.0	0.42	I
V-1-3/8	VS-1-3/8	35	392	35	274	14	37.9	60.0	0.66	I
V-42M	VS-42M	42	425	40	295	16	35.1	45.0	0.98	I
V-2-1/8	VS-2-1/8	54	520	50	370	16	27.5	40.0	1.46	I
V64M	VS-64M	64	613	60	434	19	24.1	35.0	2.60	I
V76M	VS-76M	76	680	70	481	19	22.0	30.0	3.60	I
V-89M	VS-89M	89	812	85	579	21	13.0	20.0	4.70	I
V-108M	VS-108M	108	832	90	589	21	13.0	20.0	5.50	I

Note: The V Series is dual CE and UL approved where applicable.

Continued Overleaf

Installation – main issues

1. The vibration eliminator should be fitted as close to the compressor as possible and must be installed in a straight line. Vibration eliminators are not designed to compensate for pipework misalignment.
2. Care should be taken to allow sufficient space for the vibration eliminator to avoid static compression or tension, after brazing in place. Vibration eliminators are not designed to absorb axial or torsional stress.
3. Vibration eliminators should be installed perpendicular to the direction of vibration. When vibration exists in two planes, two vibration eliminators should be used. Refer to Figs 1 and 2.
4. For optimum absorption of vibration, the refrigerant line should be anchored at the end of the vibration eliminator furthest from the vibration source.
5. Take special care to install vibration eliminators horizontally when used in suction lines or where operating temperatures are below freezing point. Condensation may form on the outside of the unit and if installed vertically this may accumulate in the lower braid collar. In subsequent freezing this may deform and destroy the unit. If vertical installation is the only option, or indeed if condensation is possible with horizontal mounting, the entire flexible section, ferrules and braided hose, must be covered with a watertight synthetic material e.g. a heat shrinkable PVC sleeve.
6. The ferrule and start of braid must be wet-ragged for brazing when installing the V series to prevent overheating and subsequent damage.

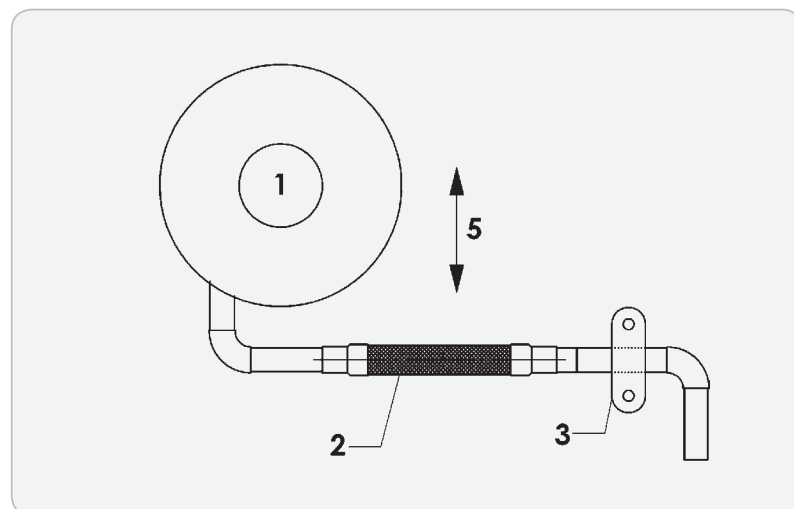


FIG. 1 SINGLE SYSTEM

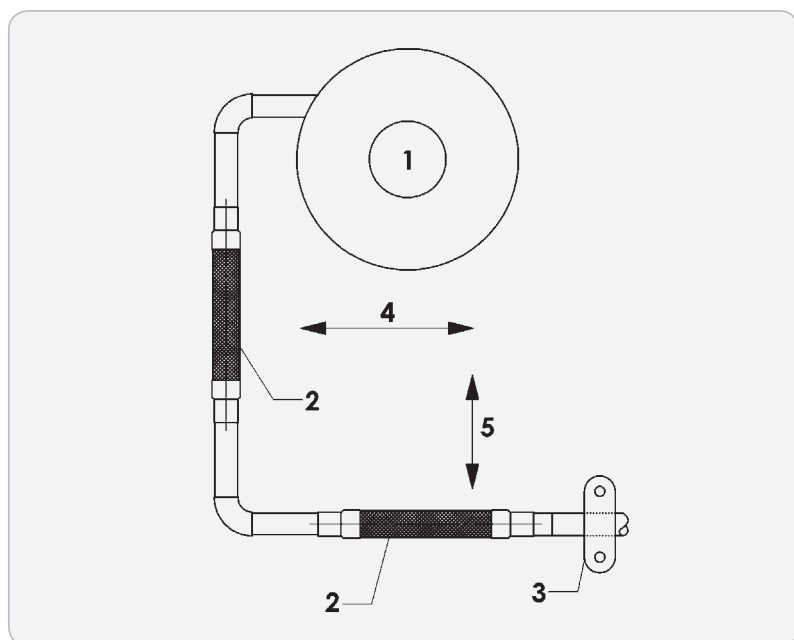


FIG. 2 DOUBLE SYSTEM

- ① Compressor
- ② Vibration eliminator
- ③ Secure to solid member
- ④ Horizontal motion
- ⑤ Vertical motion

The information contained in this catalogue is correct at the time of publication.

Henry Technologies has a policy of continuous product development; we therefore reserve the right to change technical specifications without prior notice.

Extensive changes within our industry have seen products of Henry Technologies being used in a variety of new applications. We have a policy, where possible, to offer research and development assistance to our clients. We readily submit our products for assessment at the development stage, to enable our clients to ascertain product suitability for a given design application.

It remains the responsibility of the system designer to ensure all products used in the system are suitable for the application.

For details of our warranty cover, please refer to our standard terms and conditions of sale.

Copies are available on request.

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