Introduction

Vibration absorbers are designed for installation in the suction and discharge line of Air conditioning and Refrigeration systems to absorb the transmission of compressor-induced vibrations through system tubing.

Stainless Steel (SS) Corrugated Tubing in the Vibration Absorber, increases its flexibility and vibration absorbing capacity for longer duration. This corrugated Stainless Steel tubing is covered with high tensile wire braid for superior strength and durability. To make brazing procedure easy, Vibration Absorbers are provided with copper ends.

Performance Characteristics

Technical Details	
Connection Size	1/4" ODF to 1-5/8" ODF
Max Pressure Rating	650psig to 510psig,depending upon the sizing
Operating Temperature	-40°C to 110°C
Material of Construction	Stainless Steel Construction with Copper Connections

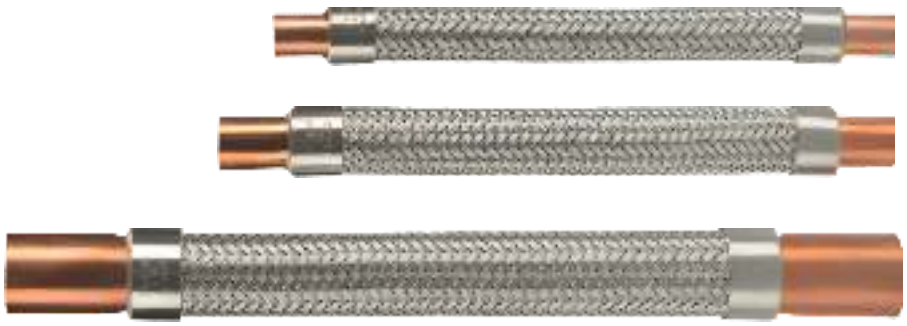
Applications

- Heat Pumps
- Residential Air Conditioning
- Commercial Chillers
- Walk in Coolers & Freezers.
- Rack Refrigeration's
- Transport Refrigeration
- Bus Air-conditioning

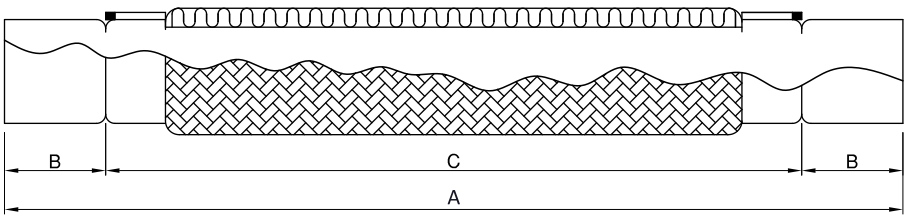
Key Feature

Triple Fusing & Joining Method
Dry All DAVA series Vibration Absorber undergoes triple fusing and joining action while bringing the flexible metal hose and the copper ends together. The first brazing attaches the copper ending to the adaptor ring while the second weld attaches the adaptor ring to the flexible hose. The third weld attaches the steel braiding and the Ferrule to the adaptor ring.

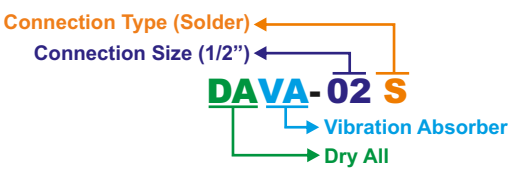
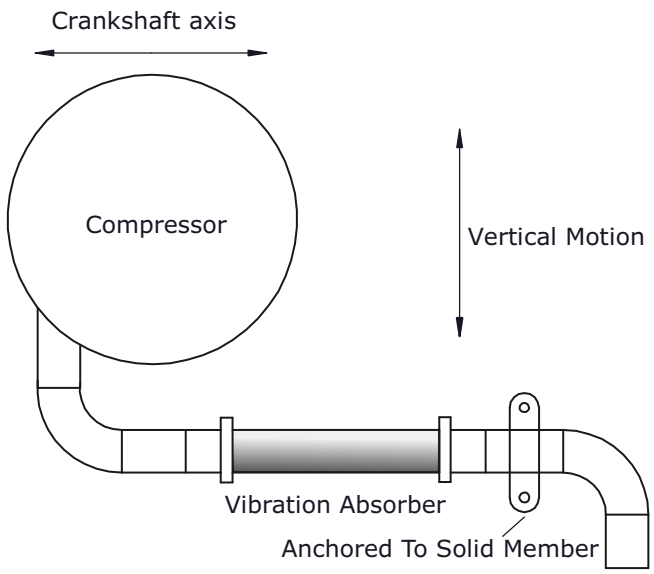
IMAGE, DRAWINGS & MODELS AVAILABLE



Drawing



Sr.No	Model	OD of Copper Tubing	Dimensions							MWP (psig)
			A		B		C		D	
			mm	inch	mm	inch	mm	inch	mm	
1	DAVA-02S	1/4"	206	8.11	28	1.1	133	5.24	16.7	650
2	DAVA-03S	3/8"	210	8.27	25	0.98	141	5.55	16.7	650
3	DAVA-04S	1/2"	224	8.82	25	0.98	151	5.94	21.9	650
4	DAVA-05S	5/8"	247	9.72	25	0.98	177	6.97	21.9	650
5	DAVA-06S	3/4"	263	10.35	25	0.98	190	7.48	26.7	650
6	DAVA-07S	7/8"	299	11.77	31	1.22	211	8.31	32.3	650
7	DAVA-09S	1-1/8"	329	12.95	32	1.26	230	9.06	41.2	650
8	DAVA-11S	1-3/8"	388	15.28	40	1.57	274	10.79	41.2	550
9	DAVA-13S	1-5/8"	428	16.85	54	2.13	295	11.61	49.5	510



- Vibration Absorber should be installed as close as possible to the compressor or vibration source.
- Always install Vibration Absorber perpendicular to the major axis of vibration.
- Secure the refrigerant line or piping to a solid member which is near the end of the vibration absorber furthest from the vibration source.
- Make sure there is enough gap to minimize static compression and tension of the Vibration Absorber after brazing.
- Vibration absorbers should always be installed in a straight line.
- Be careful while making the sweat connection. Avoid disturbing the braze joints which have a melting point of 885°C.
- While brazing make sure the torch flames are away from the body of the vibration absorber (and away from human contact).
- After brazing wipe excess flux or other chemicals from the system to avoid corrosion.
- Use of chlorides should be avoided, chlorides can cause attrition and failure of the Vibration Absorber.