

**Dry All**

Full Range of HVAC&R Line Products



**Vibration-Absorber**

## Introduction

Vibration absorber are designed for installation in the suction and discharge line of Air conditioning and refrigeration system 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 Absorber are provided with copper ends.

## Materials

| Hose Assembly components | Dry All material grade for Vibration Absorber |
|--------------------------|---|
| Corrugated Metal Hose    | SS 304  |
| Braided wire             | SS 304  |
| Ferrule                  | SS 304  |

## Technical Data

| Sr. No. | Model No. | Connection size | Maximum Working Pressure | Working Temperature | Refrigerants  |
|---------|-----------|-----------------|--------------------------|---------------------|---|
| 1       | DAVA-02S  | 1/4" ODF        | 650 Psig                 | -10°C to +150°C     | CFC, HCFC & HFC R12, R134a, R22, R404A, R407C, R410A, R500, R502, R507. |
| 2       | DAVA-03S  | 3/8" ODF        |                          |                     |   |
| 3       | DAVA-04S  | 1/2" ODF        |                          |                     |   |
| 4       | DAVA-05S  | 5/8" ODF        |                          |                     |   |
| 5       | DAVA-06S  | 3/4" ODF        |                          |                     |   |
| 6       | DAVA-07S  | 7/8" ODF        |                          |                     |   |
| 7       | DAVA-09S  | 1-1/8" ODF      | 600 Psig                 |                     |   |
| 8       | DAVA-11S  | 1-3/8" ODF      | 550 Psig                 |                     |   |
| 9       | DAVA-13S  | 1-5/8" ODF      | 510 Psig                 |                     |   |

## COMPLIANCES

### ROHS AND REACH COMPLIANCE:

Dry All's Vibration Absorbers are RoHS (Restriction of hazardous substances) as well as REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) Compliant products.

## 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 150°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

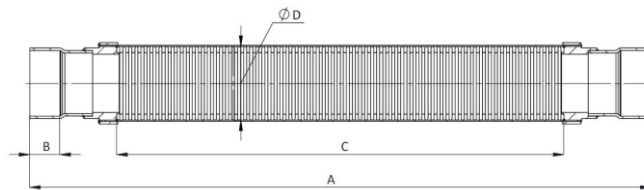
### Triple Fusing & Joining Method

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.

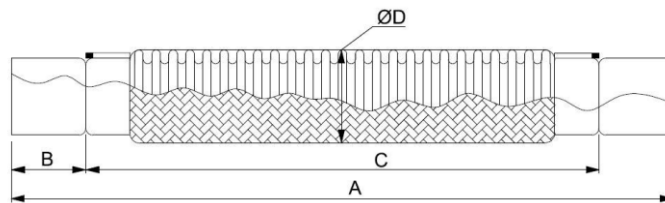
### IMAGE



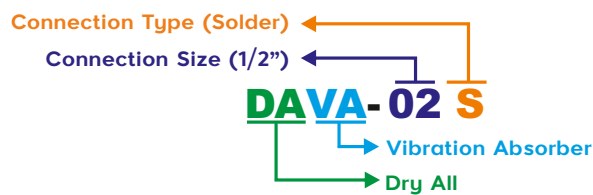
### DRAWING 1



### DRAWING 2



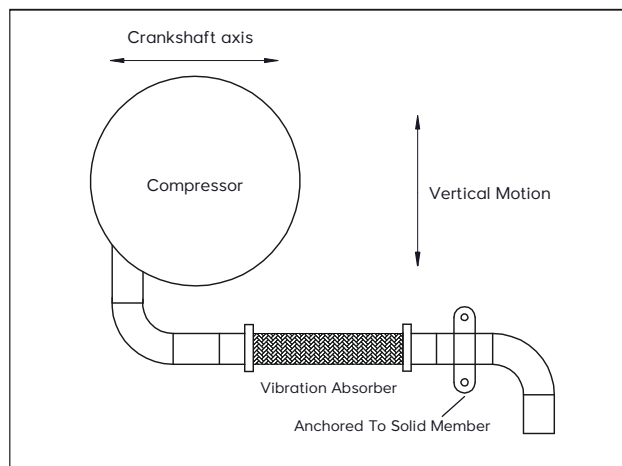
| Sr. No. | Model No. | Connection size | Dimensions |       |      |      |     |       |        |      | Drawing No. |
|---------|-----------|-----------------|------------|-------|------|------|-----|-------|--------|------|-------------|
|         |           |                 | A          |       | B    |      | C   |       | ØD     |      |             |
|         |           |                 | mm         | inch  | mm   | inch | mm  | inch  | mm     | inch |             |
| 1       | DAVA-02S  | 1/4" ODF        | 206        | 8.11  | 9.4  | 0.37 | 133 | 5.23  | 16.7   | 0.65 | Drawing 1   |
| 2       | DAVA-03S  | 3/8" ODF        | 210        | 8.26  | 12   | 0.47 | 141 | 5.55  | 16.7   | 0.65 |             |
| 3       | DAVA-04S  | 1/2" ODF        | 224        | 8.81  | 12   | 0.47 | 151 | 5.94  | 21.9   | 0.86 |             |
| 4       | DAVA-05S  | 5/8" ODF        | 247        | 9.72  | 11.9 | 0.46 | 177 | 6.96  | 21.9   | 0.86 |             |
| 5       | DAVA-06S  | 3/4" ODF        | 263        | 10.35 | 11.9 | 0.46 | 190 | 7.48  | 26.7   | 1.05 |             |
| 6       | DAVA-07S  | 7/8" ODF        | 299        | 11.77 | 15   | 0.59 | 211 | 8.3   | 32.3   | 1.27 |             |
| 7       | DAVA-09S  | 1-1/8" ODF      | 329        | 12.95 | 15   | 0.59 | 230 | 9.05  | 41.2   | 1.62 |             |
| 8       | DAVA-11S  | 1-3/8" ODF      | 388        | 15.27 | 15   | 0.59 | 274 | 10.78 | 41.2   | 1.62 |             |
| 9       | DAVA-13S  | 1-5/8" ODF      | 428        | 16.85 | 37.3 | 1.46 | 295 | 11.61 | 49.5   | 1.94 |             |
| 10      | DAVA-17S  | 2-1/8" ODF      | 520        | 20.47 | 65   | 2.55 | 390 | 15.35 | 70.39  | 2.77 |             |
| 11      | DAVA-21S  | 2-5/8" ODF      | 610        | 24.01 | 75   | 2.95 | 460 | 18.11 | 86.76  | 3.42 |             |
| 12      | DAVA-25S  | 3-1/8" ODF      | 680        | 26.77 | 80   | 3.14 | 520 | 20.47 | 103.38 | 4.07 |             |



## PACKAGING DATA

| SR.NO | Model No. | Quantity (1 Master Box) |
|-------|-----------|-------------------------|
| 1     | DAVA-02S  | 12                      |
| 2     | DAVA-03S  |                         |
| 3     | DAVA-04S  |                         |
| 4     | DAVA-05S  |                         |
| 5     | DAVA-06S  |                         |
| 6     | DAVA-07S  |                         |
| 7     | DAVA-09S  |                         |
| 8     | DAVA-11S  |                         |
| 9     | DAVA-13S  |                         |
| 10    | DAVA-17S  | 4                       |
| 11    | DAVA-21S  |                         |
| 12    | DAVA-25S  |                         |
| 13    | DAVA-29S  |                         |
| 14    | DAVA-33S  |                         |

- 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 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.



Marketed by:



Full Range of HVAC&R Line Products

**SAFE A&T Technology Private Limited**

D-4, MIDC, Phase II, Dombivali (E),  
Dist. Thane-421 201.

T : +91-(0)-251-2870680/81/82

Customer Care : +91 8181 994 994

E : info@dryall.net

W : www.dryall.net

REV24-06-05-01