

Vibration Absorbers

Packless vibration absorbers are designed for installation in the suction and discharge lines of air conditioning and refrigeration systems to dampen the transmission of compressor-induced vibration through system piping.

Packless vibration absorbers are recognized under the component programs of Underwriter's Laboratories for application on both suction and discharge lines.

Packless vibration absorbers are compatible with all CO₂, HC, HFO, HFC, HCFC & CFC refrigerants.

[Read More →](#)



Stainless Steel VAFS Models

The Packless VAFS line of improved vibration absorbers are electrically welded with no braze joints for improved strength and reliability and designed for use with modern high pressure refrigerants. All VAFS models are manufactured with stainless steel flexible tubing and stainless steel braids.

Model –	Connection (ID) ▲		Length –		Working Pressure		Burst Pressure	
VAFS-3	3/8 in	9.5 mm	8 1/4 in	209.6 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-4	1/2 in	12.7 mm	9 in	228.6 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-5	5/8 in	15.9 mm	9 3/4 in	247.7 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-6	3/4 in	19.1 mm	10 1/2 in	266.7 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-7	3/4 in	19.1 mm	11 1/4 in	285.8 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-8	7/8 in	22.2 mm	11 1/2 in	292.1 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-9	1 1/8 in	28.6 mm	13 in	330.2 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-10	1 3/8 in	34.9 mm	14 3/4 in	374.7 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-11	1 5/8 in	41.3 mm	17 in	431.8 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-12	2 1/8 in	54.0 mm	20 in	508.0 mm	650 psig	45 bar	3250 psig	224 bar
VAFS-13	2 5/8 in	66.7 mm	24 in	609.6 mm	460 psig	32 bar	2300 psig	159 bar
VAFS-14	3 1/8 in	79.4 mm	27 in	685.8 mm	380 psig	26 bar	1900 psig	131 bar

Brass VAF Models

The classic Packless VAF models with a proven track record for quality and reliability. The VAF standard sizes are produced from red brass flexible tubing and bronze braids while the large sizes use stainless steel.

Model –	Connection (ID) ▲		Length –		Working Pressure		Burst Pressure	
VAF-1	1/4 in	6.4 mm	7 in	177.8 mm	660 psig	46 bar	3300 psig	228 bar
VAF-2	1/4 in	6.4 mm	7 1/2 in	190.5 mm	660 psig	46 bar	3300 psig	228 bar
VAF-3	3/8 in	9.5 mm	8 1/4 in	209.6 mm	620 psig	43 bar	3100 psig	214 bar
VAF-4	1/2 in	12.7 mm	9 in	228.6 mm	620 psig	43 bar	3100 psig	214 bar
VAF-5	5/8 in	15.9 mm	9 3/4 in	247.7 mm	620 psig	43 bar	3100 psig	214 bar
VAF-6	3/4 in	19.1 mm	10 in	254.0 mm	620 psig	43 bar	3100 psig	214 bar
VAF-7	3/4 in	19.1 mm	11 1/4 in	285.8 mm	620 psig	43 bar	3100 psig	214 bar
VAF-8	7/8 in	22.2 mm	11 1/2 in	292.1 mm	620 psig	43 bar	3100 psig	214 bar
VAF-9	1 1/8 in	28.6 mm	13 in	330.2 mm	540 psig	37 bar	2700 psig	186 bar
VAF-10	1 3/8 in	34.9 mm	14 3/4 in	374.7 mm	540 psig	37 bar	2700 psig	186 bar
VAF-11	1 5/8 in	41.3 mm	17 in	431.8 mm	500 psig	34 bar	2500 psig	172 bar

Technical Details

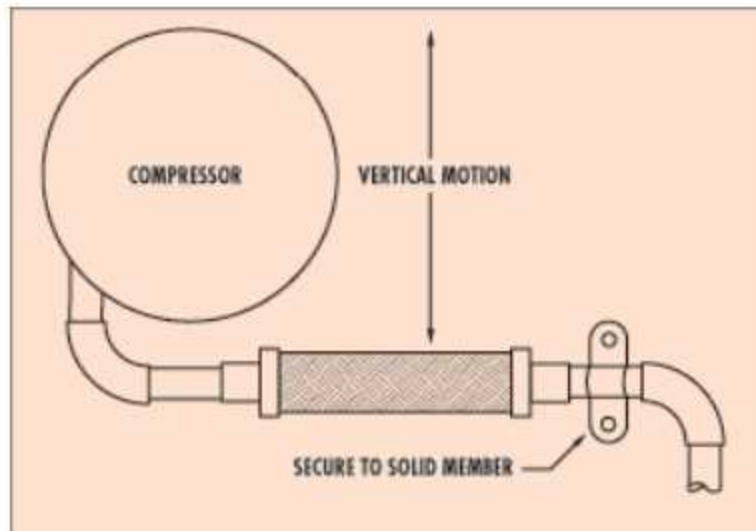
Packless vibration absorbers are constructed of deep pitch corrugated tubing for increased flexibility and vibration absorption, covered by high tensile wire braid for superior strength. The vibration absorbers have female copper end connections for making sweat connections to refrigerant piping.

Each vibration absorber is pressure tested and then carefully vacuum tested using a highly sensitive helium mass spectrometer leak detection device. Units are cleaned, dehydrated and sealed in plastic film after final inspection to maintain cleanliness and dryness prior to installation. These are available either in bulk or individually boxed.

Packless can customize the length and type of end connection for the vibration absorber to meet the individual needs of your application. [Contact us](#) today to discuss how we can help with your requirements.

Installation Notes

- Install as close to the compressor or vibration source as possible.
- Always install perpendicular to the major axis of vibration.
- Anchor the refrigerant line or piping to a solid member near the end of the vibration absorber furthest from the vibration source (see diagram).
- Ensure there is sufficient space to minimize static compression and tension of the vibration absorber after soldering.



- Only install vibration absorbers in a straight line; they are not designed to compensate for offset piping.
- Be careful when making the sweat connection to avoid disturbing the braze joints on VAF models which have a melting point of 1625 °F.
- Always direct torch flames away from the body of the vibration absorber (and away from your own body).
- Clean excess flux or other chemicals from the unit to prevent corrosion.
- Never use chlorides with the stainless steel VAFS models as doing so can cause corrosion and failure of the vibration absorber.