

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 refrigerant suction and discharge lines.

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

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Stainless Steel VAFS Models

The Packless VAFS line of improved vibration absorbers are electrically welded without braze joints for improved strength and reliability. They are designed for use with modern high pressure refrigerants. All VAFS vibration absorbers are manufactured with stainless steel flexible tubing and 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 Packless classic VAF models have a proven track record for quality and reliability. The VAF standard sizes are manufactured with red brass flexible tubing and bronze braids.

Model —	Connection (ID) ▲		Length —		Working Pressure		Burst Pressure	
VAF-1	¼ in	6.4 mm	7 in	177.8 mm	660 psig	46 bar	3300 psig	228 bar
VAF-2	¼ in	6.4 mm	7 ½ in	190.5 mm	660 psig	46 bar	3300 psig	228 bar
VAF-3	⅜ in	9.5 mm	8 ¼ in	209.6 mm	620 psig	43 bar	3100 psig	214 bar
VAF-4	½ in	12.7 mm	9 in	228.6 mm	620 psig	43 bar	3100 psig	214 bar
VAF-5	⅝ in	15.9 mm	9 ¾ in	247.7 mm	620 psig	43 bar	3100 psig	214 bar
VAF-6	¾ in	19.1 mm	10 in	254.0 mm	620 psig	43 bar	3100 psig	214 bar
VAF-7	¾ in	19.1 mm	11 ¼ in	285.8 mm	620 psig	43 bar	3100 psig	214 bar
VAF-8	⅞ in	22.2 mm	11 ½ in	292.1 mm	620 psig	43 bar	3100 psig	214 bar
VAF-9	1 ⅛ in	28.6 mm	13 in	330.2 mm	540 psig	37 bar	2700 psig	186 bar
VAF-10	1 ⅜ in	34.9 mm	14 ¾ in	374.7 mm	540 psig	37 bar	2700 psig	186 bar
VAF-11	1 ⅝ in	41.3 mm	17 in	431.8 mm	500 psig	34 bar	2500 psig	172 bar

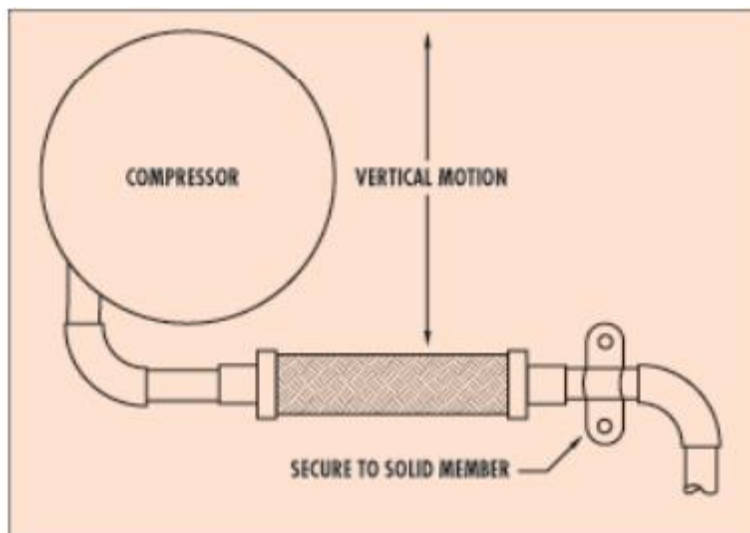
Technical Details

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

Each vibration absorber is pressure tested and then carefully vacuum tested using a sensitive helium mass spectrometer leak detection device. Each unit is cleaned, dehydrated and sealed in plastic film after final inspection to ensure cleanliness and dryness prior to installation. Packless vibration absorbers can be purchased in bulk or individually boxed.

Packless can customize the length and type of end connections for the vibration absorber for the specific needs of your application. [Contact us](#) today to discuss how we can assist 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.
- With VAF models, be careful when making the sweat connection to avoid disturbing the braze joints 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. Chlorides can cause corrosion and failure of the vibration absorber.