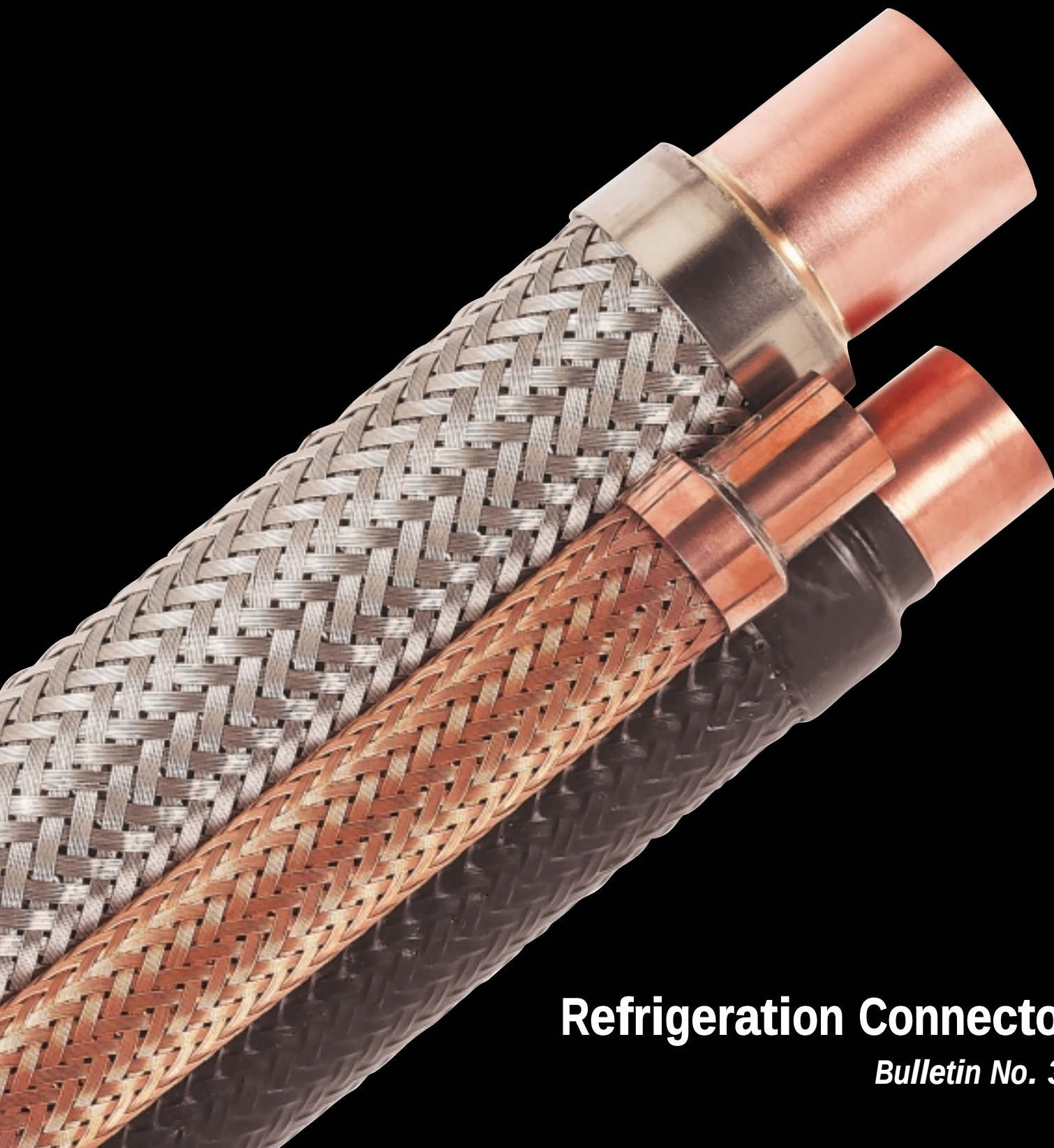




Vibration Eliminators



Refrigeration Connectors

Bulletin No. 302

ANACONDA

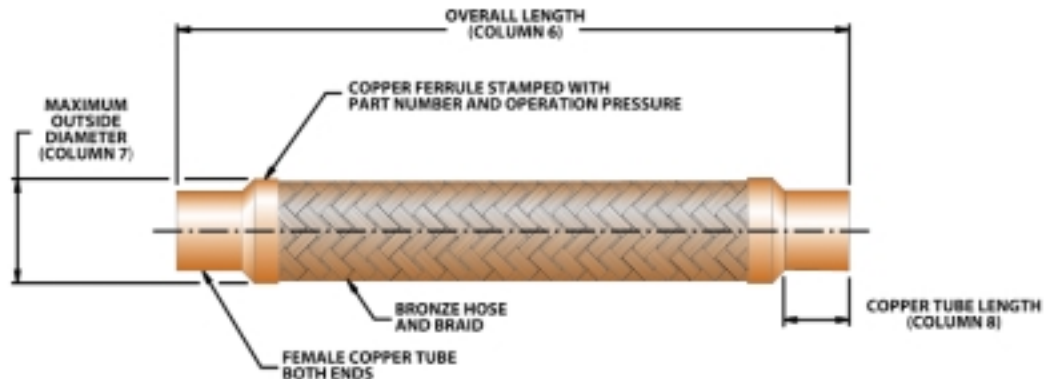


Table 1 Anaconda Bronze Vibration Eliminators with Female Copper Tube Ends

Nominal Copper Tube Size	Actual Tube O.D. in.(mm)	Model Number	Maximum Operating Pressure psig(barg)	Flexible Hose I.D. in.(mm)	Overall Length (+/-1/4) in.(mm)	Maximum Outside Diameter in.(mm)	Tube End Length (+/-1/8) in.(mm)	Part Identification Number (PIN) Bagged/Boxed	Weight lbs(kgs)
1/8	1/4 (6.4)	1418FZ	700 (47)	1/4 (6.4)	7-1/2 (191)	0.63 (15.9)	0.50 (12.7)	210073 211073	.10(.05) .12(.05)
1/4	3/8 (9.5)	5614FZ	700 (47)	5/16 (7.9)	8-1/4 (210)	0.75 (19.0)	0.63 (15.9)	210093 211093	.15(.07) .16(.07)
3/8	1/2 (12.7)	3838FZ	500 (33)	3/8 (9.5)	9 (229)	0.88 (22.2)	0.75 (19.0)	210113 211113	.25(.11) .28(.13)
1/2	5/8 (15.9)	1212FY	450 (30)	1/2 (12.7)	9-3/4 (248)	1.13 (28.6)	0.88 (22.2)	210132 211132	.45(.20) .47(.21)
5/8	3/4 (19.0)	1258FY	450 (30)	1/2 (12.7)	10 (254)	1.13 (28.6)	1.00 (25.4)	210142 211142	.50(.23) .54(.24)
5/8	3/4 (19.0)	3458FY	450 (30)	3/4 (19.0)	11-1/4 (286)	1.50 (38.1)	1.13 (28.6)	210152 211152	.85(.39) .95(.43)
3/4	7/8 (22.2)	3434FY	450 (30)	3/4 (19.0)	11-1/2 (292)	1.50 (38.1)	1.25 (31.8)	210162 211162	.90(.41) 1.00(.45)
1	1-1/8 (28.6)	1010FY	450 (30)	1 (25.4)	13 (330)	1.88 (47.6)	1.50 (38.1)	210172 211172	1.25(.57) 1.35(.61)
1-1/4	1-3/8 (34.9)	5454FY	500 (33)	1-1/4 (31.8)	14-3/4 (375)	2.25 (57.2)	1.63 (41.3)	210192 211192	2.30(1.04) 2.40(1.09)
1	2	3	4	5	6	7	8	9	10

Refer to the Notes on Page 3

SUITABLE FOR USE WITH THE FOLLOWING REFRIGERANTS

R12 R125 R401B R404A R407C R410A R502
R22 R134A R402A R407A R408A R410B R507
R23 R401A R402B R407B R409A R412A R508
R509

NOT FOR USE WITH AMMONIA

Refrigerant saturation pressure at 125°F(52°C) maximum and 80°F(27°C) minimum must be equal to or less than the design pressure.

ORDERING INSTRUCTIONS

Vibration Eliminators can be ordered by indicating the Model Number (column 3), if they are bagged or boxed, or by the Part Identification Number (PIN) in Column 9.

Vibration Eliminators

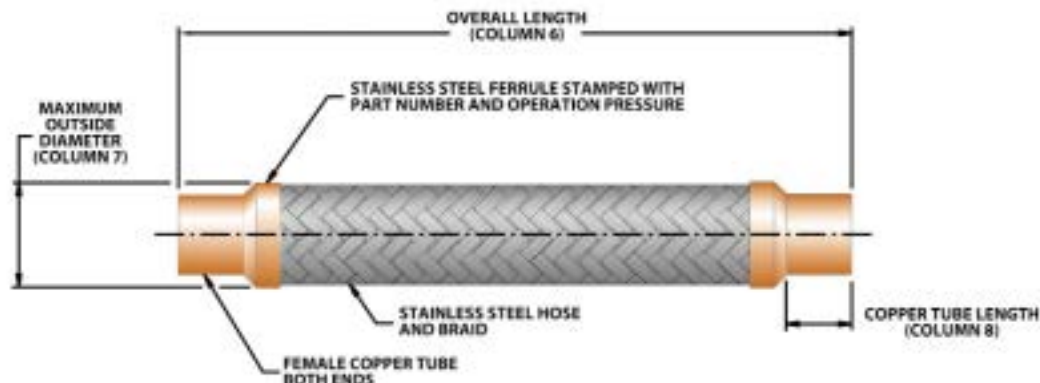


Table 2 Anaconda Stainless Steel Vibration Eliminators with Female Copper Tube Ends

Nominal Copper Tube Size	Actual Tube O.D. in. (mm)	Model Number	Maximum Operating Pressure psig(barg)	Flexible Hose I.D. in. (mm)	Overall Length (+/-1/4) in. (mm)	Maximum Outside Diameter in. (mm)	Tube End Length (+/-1/8) in. (mm)	Part Identification Number (PIN) Bagged/Boxed	Weight lbs(kgs)
1-1/2	1-5/8 (41.3)	6464FS	400 (27)	1-1/2 (38)	17.0 (432)	2.38 (60)	2.00 (50)	212200 212200BX	2.2(1.0) 2.4(1.1)
2	2-1/8 (54.0)	2020FS	360 (24)	2 (50)	20.0 (508)	3.25 (83)	2.50 (64)	212220 212220BX	3.6(1.6) 4.0(1.8)
2-1/2	2-5/8 (66.7)	5252FS	300 (20)	2-1/2 (64)	24.0 (610)	3.88 (99)	3.00 (76)	212240 212240BX	5.2(2.4) 5.7(2.6)
3	3-1/8 (79.4)	3030FS	300 (20)	3 (76)	27.0 (686)	4.50 (114)	3.50 (89)	212260 212260BX	10.5(4.7) 11.0(5.0)
3-1/2	3-5/8 (92.0)	7272FS	150 (10)	3-1/2 (89)	23.0 (584)	4.94 (125)	3.19 (82)	210280 211280	7.6(3.4) 8.1(3.7)
4	4-1/8 (104.8)	4040FS	150 (10)	4 (102)	25.0 (635)	5.75 (146)	4.38 (111)	210300 211300	9.5(4.3) 10.2(4.6)
1	2	3	4	5	6	7	8	9	10

NOTES

1. The designs tabulated are recognized under the component program of Underwriters Laboratories Inc. File No.SA 2585.
2. When purchased as "bagged" each vibration eliminator is cleaned and dehydrated for refrigeration service, and sealed in plastic film. When purchased as "boxed" each vibration eliminator is cleaned and dehydrated for refrigeration service, individually boxed and sealed in plastic film.
3. The maximum test pressure is 1.5 times the maximum operating pressure which is tabulated in Column 4.
4. The minimum burst pressure is 5 times the maximum operating pressure which is tabulated in Column 4.
5. The copper tube ends are designed as sweat connections for refrigeration tubing. The inside surface conforms to ASME/ANSI B16.18 and B16.22.
6. All configurations are available with male copper tube ends.



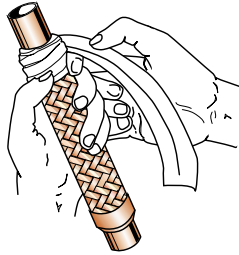
Synthetic covered Vibration Eliminators are available for use when problems exist from condensation and freezing of moisture on the outside surface of the Vibration Eliminator.



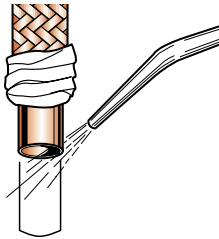
INSTALLATION INSTRUCTIONS

1. Brazing and soldering flux must be removed immediately after installation. Chlorides will cause premature failure of stainless steel vibration eliminators.

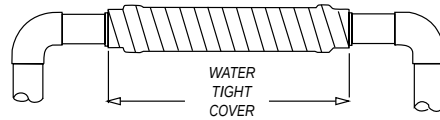
2. Wrap the ferrule and approximately 2" of the braid with a wet cloth to prevent overheating during brazing and soldering.



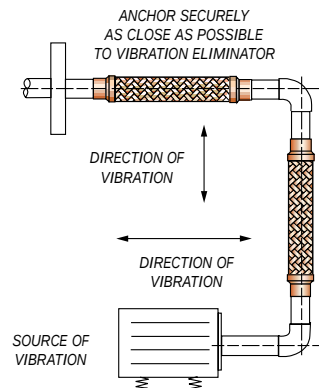
3. Direct the torch away from the ferrule and braided section. Avoid contact of the flame with the ferrule and braid.



4. If condensation will collect and freeze: the entire flexible section, ferrules and braided hose, must be covered with water tight material.



5. Vibration Eliminators are most effective when installed perpendicular to the major motion. The fixed end should be securely anchored as close as possible to the Vibration Eliminator. When major motion exists in two planes two Vibration Eliminators should be installed.



Limited Warranty

This warranty is given by Universal Metal Hose (Universal), located at 2133 South Kedzie, Chicago, Illinois 60623-3393, (773) 277-0700, for the benefit of the first purchaser of the product to which the warranty applies. This warranty applies only to those parts which are manufactured and delivered by Universal.

The warranty is that the parts manufactured and delivered by Universal will be free from defects in material or workmanship under normal use and service for the time specified below.

In the event of failure of a part due to such a covered defect, Universal will repair or replace, at its option, the defective part at its factory location at 2133 South Kedzie, Chicago, Illinois 60623-3393.

The part must be returned to the factory by and at the expense of the person claiming the benefit of the warranty.

The warranty shall be for a period of twenty-four (24) months after the date of delivery of the product, twelve (12) months after commencement of use of the product, or the specified service life of the product, whichever period is the shortest. All products for which warranty claims are made must be returned as provided above to the factory within thirty (30) days from the date of claimed malfunction in order for this warranty to be effective.

The only entity authorized to do any warranty repair is the manufacturer.

The repairs or replacement by Universal will be accomplished within forty-five (45) days from receipt of the defective parts at the factory.

This warranty is expressed in lieu of all other warranties, expressed or implied, including the warranty of merchantability, the implied warranty of fitness for a particular purpose, and of all other obligations or liabilities on the part of Universal and it neither assumes nor authorizes any other persons to assume for Universal any other liabilities in connection with the sale of the products.

This warranty does not cover parts of products made by others or products or any part thereof which have been repaired or altered, except by Universal, or which shall have been subjected to misuse, negligence or accident.

Universal shall not be liable for damage or delay suffered by the purchaser regardless of whether such damages are general, special or consequential in nature, whether caused by defective material or workmanship or otherwise, or whether caused by Universal's negligence regardless of the degree.



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