



HANDBOOK

VIBRATION ABSORBERS



 Castel

VIBRATION ABSORBERS

Employ

- ▶ Vibration Absorbers are installed in the air conditioning and refrigeration plants to eliminate or reduce vibrations and noise generated by the compressor.
- ▶ Moreover they eliminate slight thermal dilations.
- ▶ Suitable with HFC, HCFC, CFC Refrigerants, blended with mineral oils and polyester oils.
- ▶ Manufactured according PED Directive 97/23/CE.



Vibration Absorbers

Installation

- ▶ The Vibration absorber can be placed on the discharge or suction lines the nearest possible to the compressor. It cannot compensate the eventual lack of tubing alignment.
- ▶ The Vibration absorber must be installed perpendicularly to the vibrations direction. When the vibrations are horizontal and vertical, we suggest mounting two vibration absorbers at 90° as shown on drawings 1 and 2.
- ▶ For an optimum absorption of the vibrations please anchor the end of the absorber as shown on drawings 1 and 2.
- ▶ The vibration absorber does not absorb axial or torsion generated solicitation. Please make sure that there is enough space to avoid compression or tensions after the installation.
- ▶ The excessive speed of the refrigerating fluid can cause vibrations and noise. In this case we suggest mounting an element of higher diameter.



Vibration Absorbers

Fig.1

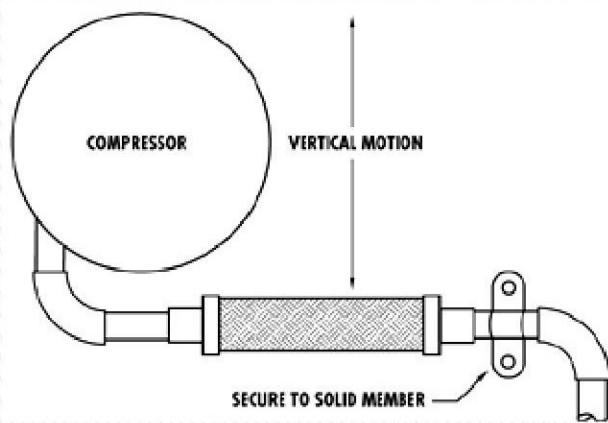
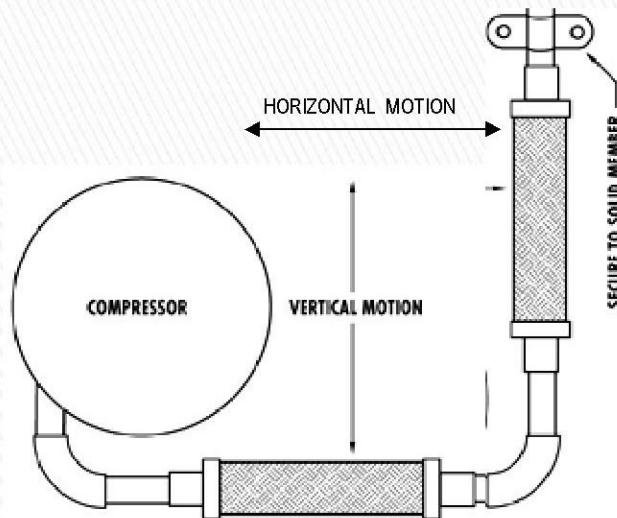
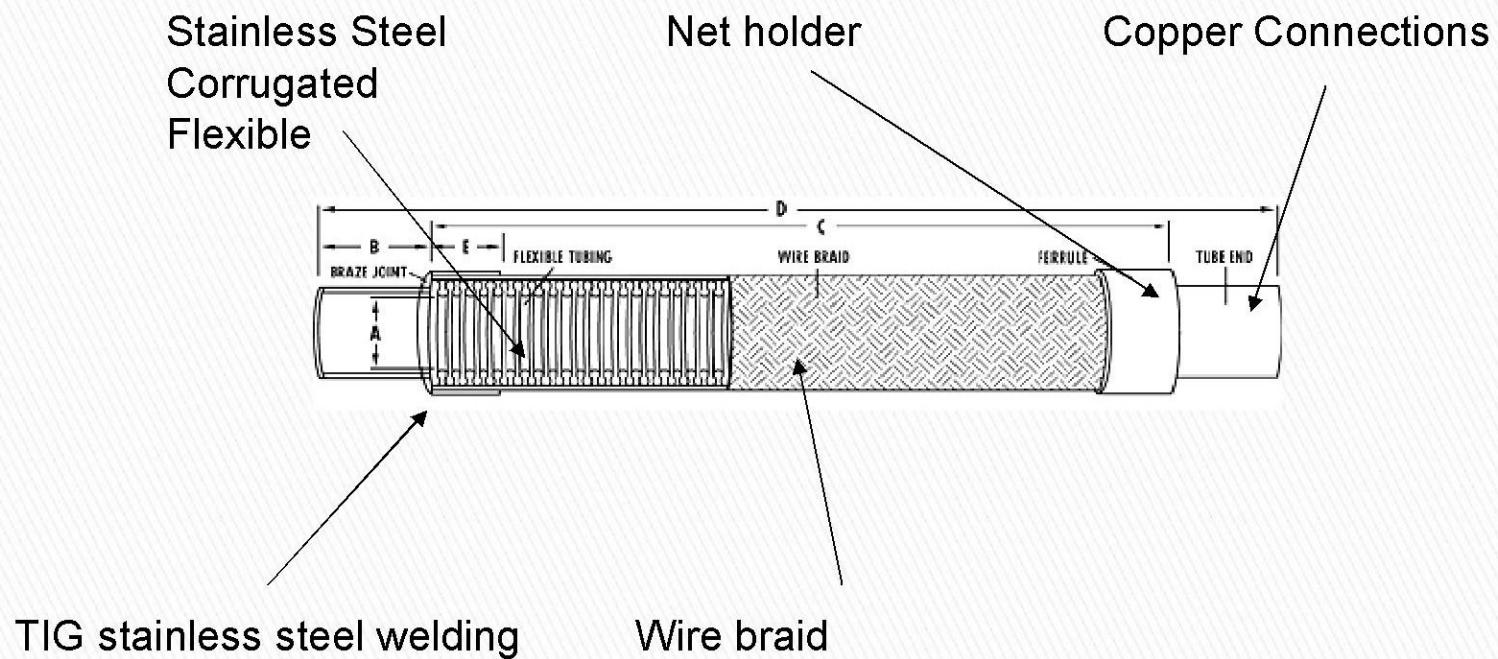


Fig.2

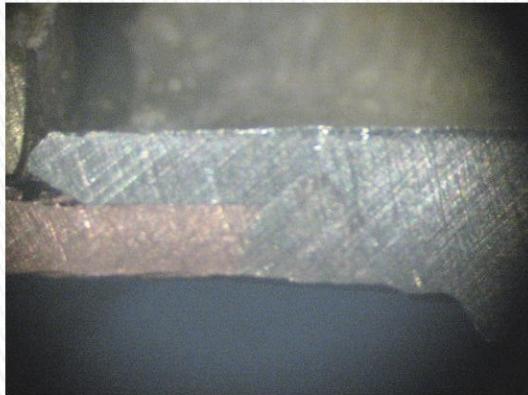


Technical Data

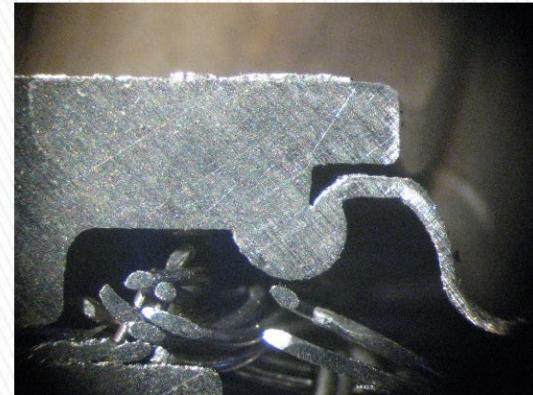


Construction

- ▶ Produced with stainless steel and copper connections.
- ▶ All welding are made with TIG method.



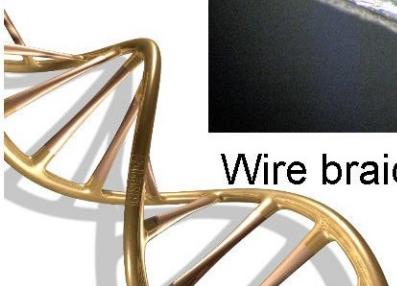
Copper ends welding



Corrugated flexible welding

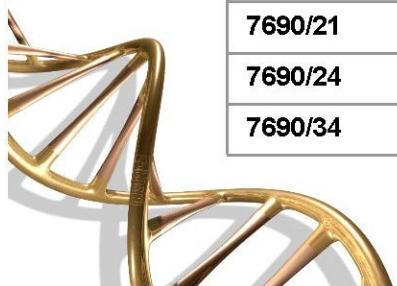


Wire braid welding



Vibration Absorbers

Part number		connections	
Castel		mm	inch
7690/M10		10	
7690/M12		12	-
7690/4		-	1/2
7690/5		16	5/8
7690/M18		18	-
7690/6			3/4
7690/7		22	7/8
7690/M28		28	-
7690/9		-	1.1/8
7690/11		35	1.3/8
7690/13		-	1.5/8
7690/M42		42	-
7690/17		54	2.1/8
7690/M64		64	
7690/21		67	2.5/8
7690/24		76	
7690/34		108	4.1/4



List of Materials:

- ▶ Copper end
- ▶ Corrugated flexible AISI321/316L
- ▶ Wire braid AISI 304
- ▶ Net holder AISI 304

Technical data:

- ▶ Nominal pressure
PN=35 bar up to diameter 54mm
- ▶ PN=25 bar from to diameter 67 mm
- ▶ Temperature range min/max -
100°C/+250°C

Certificate PED – 97/23/CE

	A	B	C	D	E					
1	I	C								
2	I	D								
		MARCATURA			MARCATURA					
3		Dimensione Attacchi			Diametro	Lunghezza				
4		Codici		Nominale [mm] [Inch]	diametro [mm] [A]	spessore [mm] [B]	Profondità* [C]	[mm]	[mm]	I E I
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
80										
81										
82										
83										
84										
85										
86										
87										
88										
89										
90										
91										
92										
93										
94										
95										
96										
97										
98										
99										
100										
101										
102										
103										
104										
105										
106										
107										
108										
109										
110										
111										
112										
113										
114										
115										
116										
117										
118										
119										
120										
121										
122										
123										
124										
125										
126										
127										
128										
129										
130										
131										
132										
133										
134										
135										
136										
137										
138										
139										
140										
141										
142										
143										
144										
145										
146										
147										
148										
149										
150										
151										
152										
153										
154										
155										
156										
157										
158										
159										
160										
161										
162										
163										
164										
165										
166										
167										
168										
169</										