STANDARD ANTI-TEAR PROTECTION
RESISTANT TO TEMPERATURES BETWEEN -55°C AND +135°C
SHORE VISUAL IDENTIFICATION
PATENT No. 10201500027680

ANTI-VIBRATION BELL MOUNTS

NEWS 2018

MADE IN ITALY PRODUCT

PATENTED

Soleco engineering s.r.l.

2018
SOLECO BELL MOUNT SERIES

version with TEAR-RESISTANT, CHAMFERED BUSHING

PAD
- in COLOURED ELASTOMER based on the hardness of the elastic body.
- The pad has slip-proof, flexible embossing which allow the charged anti-vibration mount to stand by friction and at the same time reduce the transmission of noise.

ELASTIC BODY
- in NATURAL RUBBER available in 3 types of hardness: 45, 60 and 70 ShA.
- Suitable for use in temperatures between -25°C and +90°C and for use with aqueous and glycol solutions.
- Excellent elastic performance, high resistance to abrasion and ageing.
- ON REQUEST: special compounds available: NBR, HNBR, EPDM.

METAL STRUCTURE
- in UNI EN 10111 DD13 STEEL with UNI ISO 2081 Fe/Zn 15c1Awhite galvanized coating.
- Available in AISI 316 STAINLESS steel for offshore, food and health sectors and for use at low temperatures.

SIZES, ELASTIC CHARACTERISTICS AND MODELS ON THE FOLLOWING PAGES.

CERTIFICATIONS AND PATENT n° 102015000027680

- Soleco BELL mounts have been tested at the Politecnico di Milano and have successfully met all the requirements, guaranteeing the highest standards of quality.
- Soleco BELL mounts are protected by PATENT in ITALY and ABROAD.
The elastic body of the bell mount is available in THERMOPLASTIC ELASTOMER, in 3 types of hardness: 45, 60 and 70 ShA.

- Ideal for use in temperatures ranging from -45°C to +110°C for the 45 and 70 ShA version and from -55°C to +135°C for the 60 ShA version.
- The compound, in recyclable thermoplastic, has a high resistance to ageing, pollutants, hydrocarbons, salt mist, UV rays and detergents.

SPECIAL COMPOUND:
- UL94-V0 SELF-EXTINGUISHING and ISO 846...
- ANTI-BACTERIAL.

APPLICATIONS:
- In combination with AISI 316 STAINLESS STEEL, it is suitable for OFFSHORE installations or in the HEALTH and FOOD industry and at extreme temperatures.
SOLECO BELL MOUNT SERIES
NATURAL RUBBER MODELS “NR”

PRICE LIST

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<tr>
<th>GALVANIZED STEEL MODEL</th>
<th>HARDNESS ShA</th>
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SOLECO BELL MOUNT SERIES
NATURAL RUBBER MODELS “NR”

PRICE LIST

model CFNRNR...6231...

model CFNRNR...9245...

model CFNARNR...15050...
SOLECO BELL MOUNT SERIES

DIMENSIONS

model CFNR...6231...

model CFNR...9245...

model CFNARNR...15050...

<table>
<thead>
<tr>
<th>MODEL</th>
<th>C</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>D1 (mm)</th>
<th>D2 (mm)</th>
<th>D3 (mm)</th>
<th>D4 (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
<th>G (mm)</th>
<th>H (mm)</th>
<th>L (mm)</th>
<th>DEFLECTION (mm)</th>
<th>HARDNESS (ShA)</th>
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GUIDE TO CHOOSING THE ANTI-VIBRATION MOUNTS

NOMOGRAPH

TO CHOOSE AN ANTI-VIBRATION MOUNT, YOU MUST KNOW:
1. The static weight of the machine and the number of support points with their respective loads;
2. The excitation frequency determined by the rotating body at the lowest r.p.m.;
3. Installation of the machine to insulate: indicate if it is under cover, subjected to wind or in areas with a high presence of salt mist or other aggressive agents.
   It is essential to consider the temperatures to which the anti-vibration mounts will be subjected.

THE INSTALLATION IS CORRECT WHEN ALL THE INSTALLED MOUNTS HAVE THE SAME ELASTIC DEFLECTION.

If the resting points of different mounts are on the same level, the difference must be compensated for using special adjusters (JACKS).

EXAMPLE OF CHOICE OF ANTI-VIBRATION MOUNT:
If you need to insulate a refrigeration unit weighing 6,234 Kg with a frequency of 1800 r.p.m. (30 Hz).
The unit has six resting points with 1,039 Kg resting on each point (the load is evenly distributed).
To achieve about 90% insulation, a deflection of about 4 mm. is necessary.
The best anti-vibration mount to achieve this is the CFNNR1505016 60 ShA (image on page 6)

When choosing the anti-vibration mount, check that the maximum recommended load is higher than the load applied.

The insulation diagram shows graphically the ratios between the elastic deflections in mm, the vibration speed in r.p.m. or cycles/mm and the degree of insulation as a %.

SOLECO ENGINEERING S.R.L. DECLINES ALL RESPONSIBILITY IN CASES WHERE THE INCORRECT INSTALLATION OF THE SUPPORT IS DETECTED.

FOR ALL FURTHER INFORMATION ON THE ABOVE, PLEASE CONTACT OUR OFFICE ON +39 02 92 44 311.
ELASTIC CHARACTERISTICS

“NR” NATURAL RUBBER

model CFNRNR...6231...

tolerance ±5 ShA

model CFNRNR...9245...

tolerance ±5 ShA

model CFNARNR...15050...

tolerance ±5 ShA

For specific technical information on the elastic behaviour of the thermoplastic elastomer, please contact the technical department tel. +39 02 92 44 31 209 - email. tecnico@solecosrl.com.
HOW TO INSTALL THE JACK

FIGURE 1A
• place the steel disc (6) on the anti-vibration pad (A),
• insert the set screw (1) in the threaded slot of the anti-vibration mount,
  the set screw must be screwed to the bottom of the threaded slot.

FIGURE 2A
• fasten the steel disc (6) on the cover by tightening the low nut (2),
  when assembled in this way, the anti-vibration mount is ready to
  be installed as indicated below.

LEVELLING THE MACHINE WITH THE JACK

STEP 1A
• place the anti-vibration mount under the baseplate of the machine in the dedicated points (B).

STEP 2A
• insert the set screw (1) in the hole (B) so that the disc (4) fits flush to the baseplate.

STEP 3A
• adjust the level of the machine by turning the nut,
  once the machine is perfectly level, insert the elastic washer (3),
  the nut (2) and secure the position.

INSTALLATION OF BELL MOUNT UNDER THE MACHINE WITHOUT THE JACK

STEP 1B
• place the anti-vibration mount under the baseplate of the machine in the dedicated points (B).

STEP 2B
• secure the anti-vibration mount to the baseplate, using the screw and washer (7).
Soleco Engineering S.r.l. is an Italian company with over 45 years’ operating experience in the field of vibration damping, specialised in the analysis, design and manufacture of anti-vibration and anti-seismic devices.

Year after year, we take on increasingly complex challenges with the same passion that allowed us to achieve international recognition, transforming us into reliable supplier of multinational companies in a wide variety of industries.

COMPANY PROFILE

REFERENCES

Holy Mosque
Mecca - Saudi Arabia

Carrera Pinto
Atacama - Cile

Fondazione Prada
Milan - Italy

King Abdullah Financial District
Riyadh - Saudi Arabia

New Doha International Airport
Doha - Qatar

Kaia Airport
Jeddah - Saudi Arabia
Thanks to our experience, to the innovative load estimation software and to a continuous research activity we are always one step ahead in the design and manufacturing of innovative products.

Besides our wide range of standard products, we can provide support in the development of the best customized solutions to specific applications.