

SERVICE CONNECTIONS

ELASTOMER & STAINLESS STEEL BELLOWS PIPE CONNECTIONS

Vibracoustics flexible bellows/compensators for pipe work fulfill two essential functions. As part of a vibration control system they reduce vibration and noise transmission through the service connections. They also permit expansion and contraction of the pipes when carrying varying temperature fluids, reducing stresses and the possibility of pipe and support fatigue.

Vibracoustics supply both elastomer and stainless steel types as part of a total system approach to vibration control.

Pumps and blowers, etc. are used in many Industrial processes to transport liquids/mediums. The rotating or reciprocating operation of these units generate vibration and noise which can be transmitted directly into any supporting structure. Mounting the pumps or blowers on AVM's reduces the noise and vibration transmitted by effectively introducing support flexibility, This flexibility results in an increase in start-up and shut down movements at the equipment service connections. By using Vibracoustics special construction bellows in the pipe work to provide the service connections, transmission along the pipes is reduced, additional movements accommodated and fluid pulsation noise within the liquid/medium also reduced.

ELASTOMER BELLOWS



Reiflexa Type 1A

Vibracoustics "Reiflexa" (Data sheet, 72-A-01 etc.) and "3K" Expansion bellows(Data sheet, 73-A-01 etc.) provide the necessary flexibility to achieve good noise and vibration attenuation. Produced in several constructions of differing inner carcass materials, 'Reiflexa' bellows handle a variety of mediums found in industry, eg. Cooling water, acids, oils, gases, acetones, etc.



Type 3K

Vibracoustics '3K' expansion bellows are predominantly used in marine for cooling water, fuel and lubrication oil for temperatures up to 90 deg.C.

In many processes where heat is a factor, different elastomer compounds and construction materials are available in the 'Reiflexa' range to meet temperatures up to 130 deg C., depending upon such factors as pressure, alignment and displacement at the bellows. (72-A-01 etc.). In addition flame protection sleeves can provide pipe work integrity through the initial period of a fire, ensuring continuity of critical services for 30, 60 or 120 minutes.(See data sheet, 74-A-01 etc.).



Firesleeves

STAINLESS STEEL BELLOWS



Stainless Steel bellows (Data sheet, 75-A-01), available with flange fixings or pipe ends, complete the bellows ranges offered and provide the service and expansion point connections for both exhaust and high temperature pipe work. Vibracoustics Exhaust bellows are more often supplied as part of a complete pipe run isolation support system (Data sheet, 70-A-01 etc. and 71-A-01 etc.), to reduce noise and vibration transmission on board ships and in building and industrial environments.

For applications and technical assistance please refer to VIBRACOUSTICS Ltd.

Vibracoustics is continually seeking to improve products and reserves the right to change designs and specification without prior notice or alteration of literature.

MOUNTING INSTALLATION

INSTALLING EQUIPMENT ON FLEXIBLE MOUNTINGS

Vibracoustics offer full installation and set-up instructions for their parts, however these are not for general release but will be supplied with an order, if requested.

A list of available instructions is shown as follows:

INSTALLATION INSTRUCTION LIST

- IM01:- Alignment of main engines on 'VRD' mountings in 'Vee' arrangements (Product Group 47).
- IM04:- Installation Instructions for Spring mounting systems (Product Group 94).
- IM04A:- Installation Instructions for 50mm deflection spring mountings (Product Groups 94 & 95).
- IM07:- Instructions for Damper units DV1, DV2 and DV3 types (Product Group 96).
- IM08HA:- Instructions for RD075 and RD228 type HA for small main engines (Product Group 48).
- IM08SP:- Instructions for RD075 and RD228 type SP for small main engines (Product Group 48).
- IM08S:- Instructions for RD075 and RD228 type S for small main engines (Product Group 48).
- IM09:- Instructions for 'Reiflexa' Bellows (Product Group 72).
- IM10:- Instructions for replacing Air Diaphragms (Product Group 09).
- IM11:- Instructions for the installation of type 50 series Machine mounts (Product Group 50).
- IM12:- Instructions for the installation of height adjustable RD013, 019, etc type HAP and 220-2, 224-2 type HA conical mounts (Product Group 48).
- IM13:- Instructions for Spring and Spring Damper units (Product Groups 95 & 96).
- IM18:- Instructions for the Installation & Maintenance of CAL6 Air Mount systems for Power Plants (Product Group 09).
- IM19:- Instructions for VI-HUSH VS4020xxHA mounts on small main engines (Product Group 41).
- IM20:- Instructions for fitting of 4 mm CAL Mount Damper tube (Product Group 09).
- IM21:- Installation Instructions for Economy Spring Mounts (Product Group 94).
- IM22: General Instructions for CAL Air Mount systems (Product Group 09).
- IM23: Introduction of the Heavy Duty Base for CAL Air Mount systems (Product Group 09).
- IM24: General Instructions for the Installation of Pipe work & Exhaust Pipe work support systems (Product Groups 70 & 71).
- IM25: Instructions for replacement of CAL Air Mount Control Valve Diaphragms (Product Group 09).
- IM26: Instructions for Installation and setting of Conical Mounts RD 214/215/244 without height adjustment (Product Group 48).
- IM27: Instructions for Installation and setting of Conical Mounts RD 314/315 without height adjustment (Product Group 48).
- IM28: Instructions for Installation and setting of Conical Mounts RD 314/315 with height adjustment (Product Group 48).
- IM29: Instructions for Installation and setting of Conical Mounts NS4800 without height adjustment. (Product Group 48)
- IM31: Installation Instructions for VS4000 Series Mountings (Product Groups 40 & 41).
- IM32: Instructions for Installation and setting of Conical Mountings (Product Group 47).

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