

VIBRA-PAD Aeration Pads

THE EFFECTIVE DISCHARGE ALTERNATIVE



Short Description:

In situations where materials have very poor flow properties or are prone to bridging in the discharge area of any silo type, the Vibra Aeration Pad is the obvious solution.

The combination of compressed air and the vibration generated by the Vibra-Pad by its special material properties will guarantee to improve the flow properties of almost any material. The air pressure is regulated from outside the silo and can also be linked to a timed solenoid to pulse the air into the material when required.

The installation of the Vibra-Pad in the silo wall/casing is a straightforward operation.

Application:

- Improves the flow properties of materials difficult to discharge from silos, storage tanks or hoppers by due to the combination of vibration and airflow.
- A must for products prone to bridging.

Advantages and Distinguishing Features:

- Periodic blasts of air fluidises the material and sends resonate vibration waves through the material. The compressed air blasts separates the material from the silo wall, again supporting the material to flow.
- The unique double lip design of the Vibra-Pads flexible membrane prevents any material from escaping back into the compressed air lines.
- The sleek dimensions of the Vibra-Pad prevent it becoming a flow hindrance inside the silo to stored material.

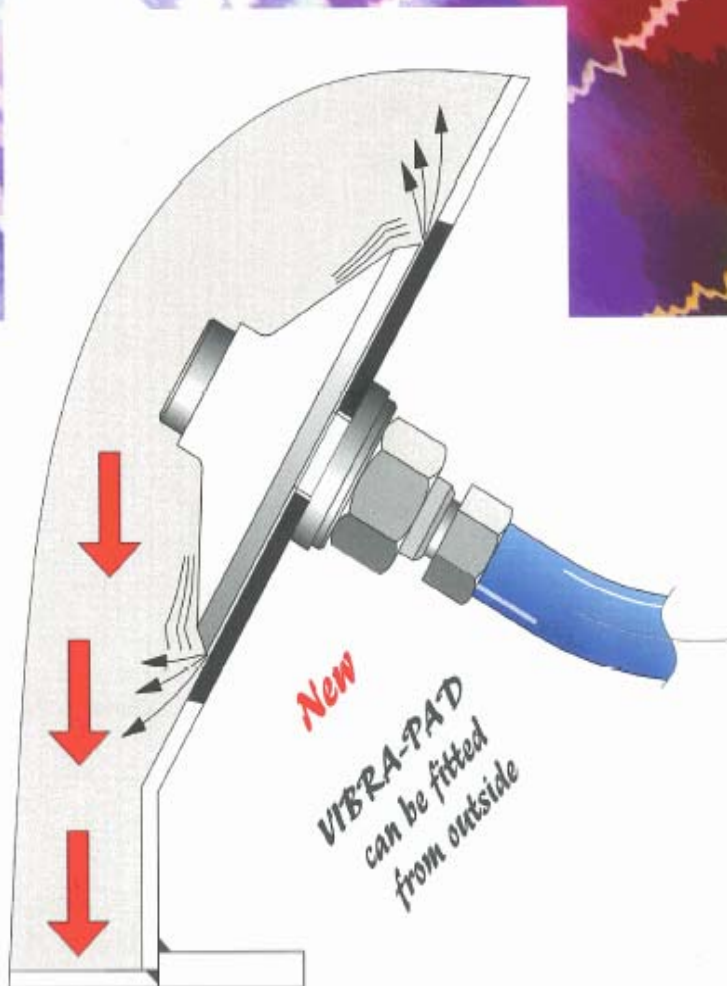
Material of Construction & Specification:

- The main bolt can be manufactured from mild steel or 304/316 stainless steel depending on requirements.
 - Standard flexible membrane white silicone (or neoprene) temperature (180 - max. 250 °C)
- Easy installation instructions are available.
- Compressed air requirement min 0.5 - 6 bar air pressure.

Experience

High Technology

Service and Quality



Function of the VIBRA-PAD aeration pads

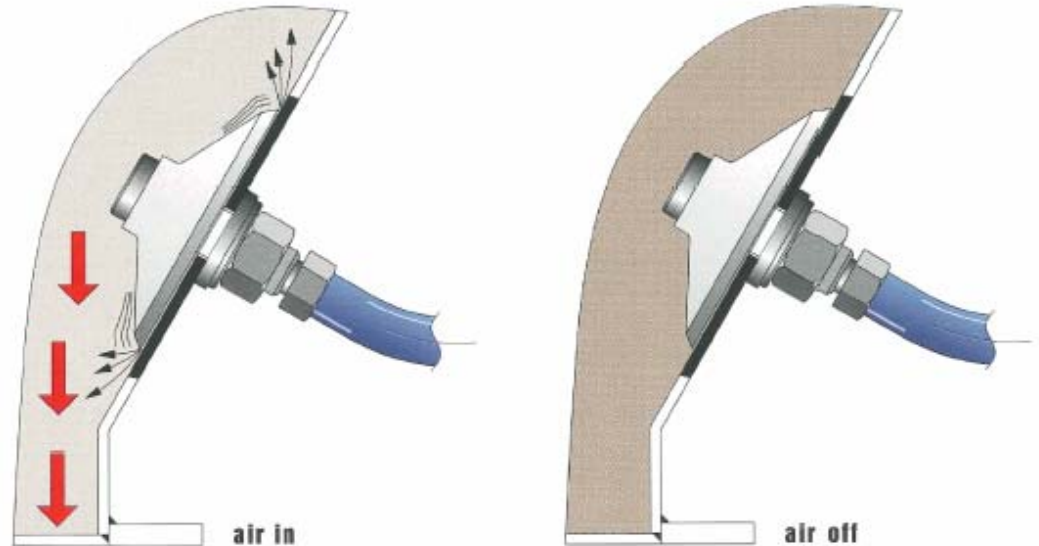
Compressed Air In:

Compressed air enters the silo via the Vibra-Pad fixing bolt/pin and escapes from under the neoprene/silicon membrane.

A combination of the compressed air burst and vibration of the Pad membrane assist the material to flow.

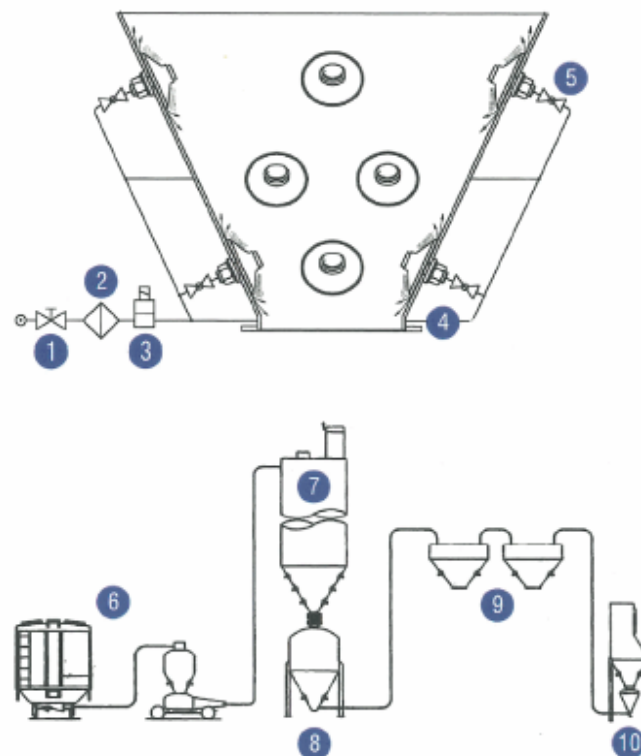
Compressed Air Off:

Once the compressed air is shut of the material compacts. The neoprene membrane seals off against the silo wall and aided by the double lip design prevents any material from escaping into the airline or atmosphere.



Mounting/installation:

- 1 Valve
- 2 Filter
- 3 Magnetic solenoid valve
- 4 Air line circuit
- 5 Regulator valve
- 6 Road/rail transport etc.
- 7 Silos
- 8 Conveying vessels
- 9 Hoppers
- 10 Dust separator and sack emptying stations



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