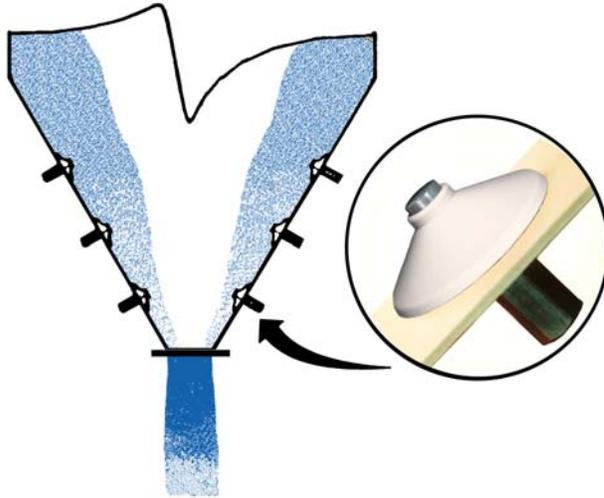




Valve & Flow Control Technology

AIRBRATOR

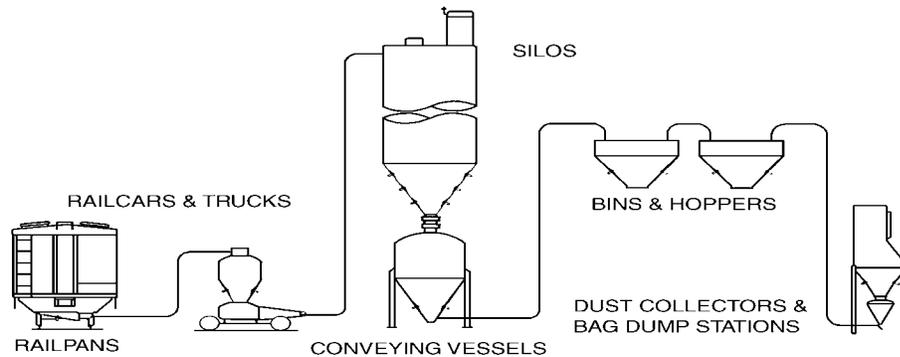
THE AIR PAD WITH AERATION & VIBRATION



Features:

- ◇ Robust Design
- ◇ Directional Air Flow
- ◇ Self-Cleaning
- ◇ No Airline Plugging
- ◇ Easy Installation
- ◇ Vibratory Action Promotes Material Flow
- ◇ Stainless Steel Shaft
- ◇ Food Grade
- ◇ Use in any type of silo or bin
- ◇ Rated to 300° F.

Keeps Dry Bulk Materials Moving



Alumina
Ash
Bag House Dust
Barlite
Bentonite
Cement

Clay
Calcium Carbonate
Cornstarch
Cement Clinker
Diatomaceous Earth
Fly Ash

Flour
Flourospar'
Gypsum
Lime
Perlite
PVC Resin

Salt
Sand
Soda Ash
Sugar
Soup Powder
.....And More

AKO UK Ltd.
13 Alvis Way, Royal Oak Trading Estate
Daventry, Northamptonshire, NN11 8PG

Web: www.ako-valves.com

Tel: (0044) (0) 1327-312747
Fax: (0044) (0) 1327-312565
Email: sales@ako-valves.com

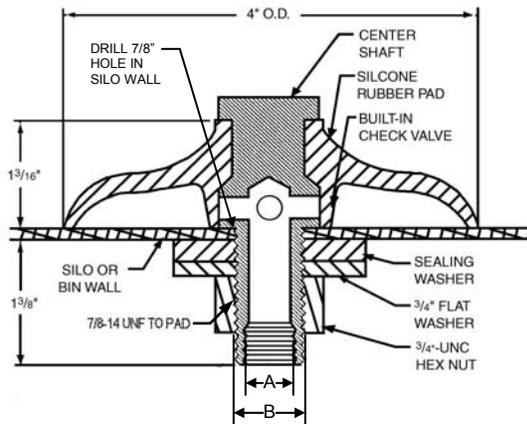
Airbrator Air Pads

Do you have problems getting your bulk materials to consistently flow from your silos and bins? Is your material sticky or have a high angle of repose? Have you tried aeration and found your materials continue to hang-up or bridge? The new AKO UK Airbrator Air Pad will help you economically solve these and other common material flow problems.

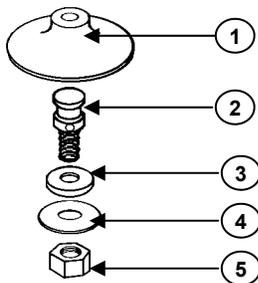
Aeration Plus Vibration

Airbrator combines aeration and vibration to solve even the most difficult material flow problems. The special design creates a vibration as the air flows between the pad's boot and the bin wall. This provides a very effective flow aid for all types of dry products. Plus, the Airbrator pad does not require a specific air pressure for operation. You can use blower air from as low as 5 PSIG to high pressure air up to 60 PSIG.

Airbrator Specifications



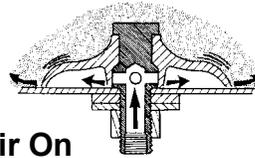
- A. 1/4" NPT Male Connector with 3/8" OD Tubing
 B. 1/2" NPT Female Connector with 1/2" OD Tubing or Hose



Parts Description

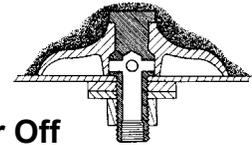
1. White Silicone rated at 400° F or Neoprene Pad rated at 250° F
2. 316 S.S. Stud
3. White Sealing Washer
4. 7/8" Flat Washer
5. 7/8" - 14 UNF Hex Nut

Operation



Air On

Air is introduced in the silo or bin through the Airbrator Pad. As the air discharges in the material it provides an aeration effect to fluidize the material. The positive air pressure keeps material from getting under the boot. The air flowing under the boot causes it to vibrate. The vibration of the boot helps move material that has the tendency to hang up or bridge.



Air Off

When the air is removed from the boot, the pressure of the material and the design of the boot forces the boot against the side of the bin. This prevents the material from getting under the boot and into the air supply line.

Air Consumption

Airbrator Pads are operated by pulsing air on and off. The CFM required is calculated by multiplying the cycle time per minute by the air flow at the supply times the number of pads. For example, if using 4 Airbrator Pads with an on-time of 2 seconds and an off-time of 10 seconds, and supply pressure of 20 PSIG, the CFM is calculated as follows: 60 seconds per minute / 12 seconds total cycle time = 5 cycles per minute x .53 (see chart at 20 PSIG) x 4 pads = 10.60 CFM. The actual on/off time is dependent on the application.

PSIG	CFM	Cubic feet per aerator		
		Pulse time in seconds		
		1	2	3
60	55	0.93	1.83	2.75
50	40	0.67	1.33	2.00
40	30	0.50	1.00	1.50
30	20	0.33	0.67	1.00
20	16	0.27	0.53	0.80
15	13	0.22	0.43	0.65
10	10	0.17	0.33	0.50
5	5	0.08	0.17	0.25

When using internal thread

Typical Installation Layout

