

RECTANGULAR AIR PAD

- Promotes Material Flow
- Rugged Construction
- Economical
- Easy Installation

The Monitor air pad bin aerator is an aeration device used to promote the flow of dry bulk powders from a storage vessel.

PRINCIPLE OF OPERATION

The Air Pad operates by continuously introducing air into the body of the dry powder. When a powder is first conveyed into a storage vessel it is actually a highly aerated mixture of air and particulate. In this state the mixture flows quite readily. However, as the powder settles the solid particulate and air separate resulting in a decrease in volume and an increase in bulk density. In this deaerated state powders can behave more like a single large solid structure rather than a fluid-like mixture. By replacing the naturally lost air, the air to particulate mixture ratio is held thus maintaining the fluid like characteristic of the aerated powder.



APPLICATIONS

For best results in promoting the flow of dry bulk powders, multiple rows of air pad bin aerators should be used. The number of rows and quantity of air pads in each row will differ by application. Monitor application engineers are ready to provide you with the best recommendation for your specific material flow problem.

Generally, four rows of air pad bin aerators on 12" or 15" centers is recommended. While the effective radius of each air pad is approximately 10", the air pads should be spaced so that the entire troublesome area is within the sphere of influence of the air pads. The following table should be used to determine the recommended air pads per row.

12" Centers		15" Centers	
Length of Sloping Bin Wall	# of Air Pads/ Row	Length of Sloping Bin Wall	# of Air Pads/ Row
1' 8"	2	1' 11"	2
2' 8"	3	3' 2"	3
3' 8"	4	4' 5"	4
4' 8"	5	5' 8"	5
5' 8"	6	6' 11"	6
6' 8"	7	8' 2"	7
7' 8"	8	9' 5"	8
8' 8"	9	10' 8"	9
9' 8"	10	11' 11"	10

TYPICAL APPLICATIONS INCLUDE, BUT ARE NOT LIMITED TO:

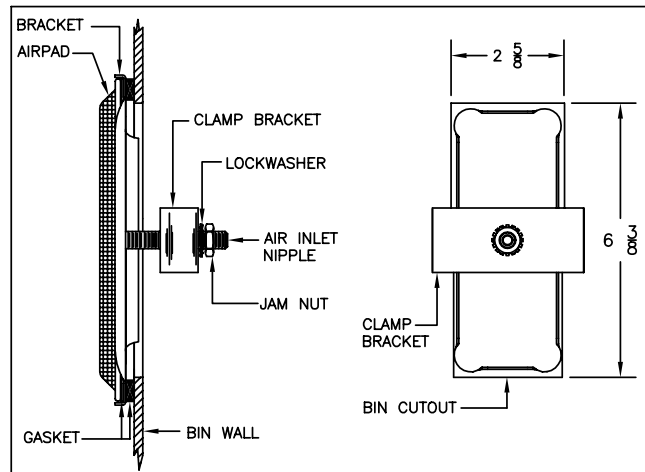
- Cement
- Bentonite
- Gypsum
- Soda Ash
- Lime
- Flour
- Carbon Black
- Fly Ash
- Resins
- Other Dry Powders

FEATURES

- Effective radius of 10 inches
- Adapts to almost any bin configuration
- Low cost
- Easy installation
- Minimal maintenance

ACCESSORIES

An external mounting kit is available. This kit can completely eliminate the need to enter the bin to install or service air pad bin aerators. Using a 2-5/8" X 6-5/8" cutout hole in the bin wall, the mounting kit can be completely installed and serviced from outside the bin. Our air pad and external mounting kit can easily install in existing cutouts of other brands. The external mounting kit includes gaskets, clamp bracket, rectangular mounting bracket and necessary hardware for mounting with your air pad bin aerator and its mounting hardware. An external mounting kit for high temperature applications is also available.

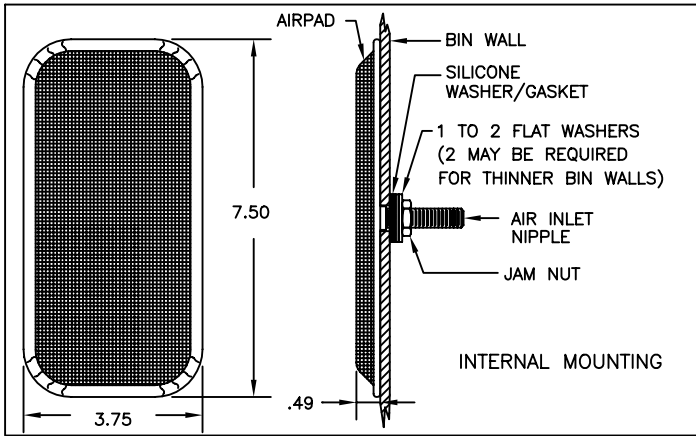


Use of External Mounting Kit

SPECIFICATIONS

AIR SUPPLY/CONSUMPTION	
Air Supply:	Clean, dry air 3 to 5 psi
Air Consumption:	1 psi - 4.2 scfm 4 psi - 7.1 scfm 2 psi - 5.7 scfm 5 psi - 7.6 scfm 3 psi - 6.5 scfm
MATERIALS OF CONSTRUCTION	
Body:	Zinc-plated steel or 304 stainless steel
Diffuser:	Cotton (up to 180° F) Fiberglass (up to 650° F)
Diffuser Screen	16 mesh zinc-plated steel or 304 SS
Air Inlet Nipple/Nut:	1/8" NPT nickel-plated brass
Spacer Washers:	Nickel-plated steel
Washer/Gasket:	Silicone (up to 650° F)
EXTERNAL MOUNTING KIT	
Gaskets:	Neoprene (up to 180° F)
High Temp Gasket:	Up to 300° F
Brackets/Lockwasher	Zinc-Plated Steel

MECHANICALS



ORDERING INFORMATION



CONSTRUCTION

- 1 = Zinc Plated Steel
- 2 = Stainless Steel

DIFFUSER MATERIAL

- 1 = Cotton
- 2 = Fiberglass

ACCESSORIES

- 3-8010 External Mounting Kit
- 3-8011 External Mounting Kit (High Temp)

REPLACEMENT PARTS

- 3-8001 Replacement Mounting Hardware (Internal Mtg.)
- 3-2001 Replacement Gasket for External Mounting
- 3-2003 Replacement Gasket for External Mounting (High Temp)

WARRANTY

Monitor Technologies warrants each air pad it manufactures to be free from defects in material and workmanship under normal use and service within two (2) years from the date of purchase within North America, and within one (1) year from date of purchase outside of North America. The purchaser must notify Monitor of any defects within the warranty period, return the product intact, and prepay transportation charges. The obligation of Monitor Technologies LLC under this warranty is limited to repair or replacement at its factory. This warranty does not apply to any product which is repaired or altered outside of Monitor Technologies' factory, or which has been subject to misuse, negligence, accident, incorrect wiring by others, or improper installation. 933A.3.0302.2.5M