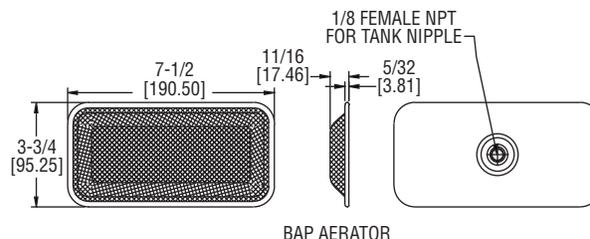


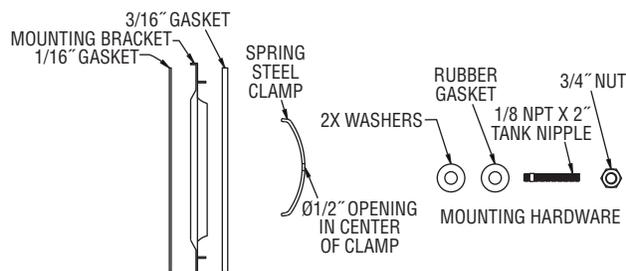


Series BAP Bin Aerator Pad

Specifications - Installation and Operating Instructions



BAP AERATOR



OPTIONAL BAP-K MOUNTING KIT

Series BAP Bin Aerator Pad provides positive flow of dry, finely ground materials from any bin using the proven principle of aeration. Low pressure air is introduced into the product, restoring its natural ability to flow. In this way congestion, bridging and rat-holing are overcome without resorting to brute force. Almost all flow problems inherent to dry, fine materials are caused by compaction. When low pressure air is introduced to a finely ground material it will flow like water – uniformly and quickly. Series BAP is non-clogging and provides equal distribution and consumption of air. The aerator pads feature simple and quick installation, are inexpensive, and adapt to any bin configuration.

There are many advantages of the Bin Aerator Pad. It provides a positive, uniform, and easily controlled flow with quiet operation. Also, it yields first in/first out flow. Heavy-Duty construction features stiffeners to prevent crushing of air compartment. These stiffeners eliminate the possibility of the Bin Aerator Pad being crushed by a head of material or by a man stepping on it when cleaning bin. The stiffeners do not obstruct the diffusion of air.

Aeration gives the best results on materials with a 60 mesh size or smaller and with a 3% or less moisture content. Specific materials that respond well to aeration content are as follows: Lime, Portland Cement, Carbon Black, Diatomaceous Earth, Flour, Soda Ash, Gypsum, Fly Ash, Pigments, Soap Powders, Bentonite, Bran, Clay, Cereals, Fullers Earth, Detergents and many others.

SPECIFICATIONS**Temperature Limit:**

BAP-C and BAP-SSC: 180°F (82°C).

BAP-F and BAP-SSF: 600°F (316°C).

Supply Pressure: 3 to 5 psi (0.2 to 0.3 bar).**Air Consumption:** See air supply chart on next page.**Air Connection:** 1/8" NPT male.**Materials:** See model chart.

Model Number	Description
BAP-C	Zinc Plated Steel Body with Galvanized Steel Mesh and Cotton Diffuser
BAP-SSC	316 Stainless Steel Body with 316SS Mesh and Cotton Diffuser
BAP-F	Zinc Plated Steel Body with Galvanized Steel Mesh and Fiberglass Diffuser
BAP-SSF	316 Stainless Steel Body with 316SS Mesh and Fiberglass Diffuser
BAP-K	Optional External Mounting Kit

Bin Aerator Pad Selection

For best results, locate lower bin aerator pads as close to the discharge outlet as possible. If material is held in the bin for long periods and/or compacted in transport, we recommend bin aerator pads be installed on 12" centers.

Bin Aerator Pads Aerators on 12" Centers		Bin Aerator Pads Aerators on 15" Centers	
Length of Sloping Bin Wall	Number of Bin Aerator Pads Per Row	Length of Sloping Bin Wall	Number of Bin Aerator Pads Per Row
1' 8" - 2' 7"	2	1' 11" - 3' 1"	2
2' 8" - 3' 7"	3	3' 2" - 4' 4"	3
3' 8" - 4' 7"	4	4' 5" - 5' 7"	4
4' 8" - 5' 7"	5	5' 8" - 6' 10"	5
5' 8" - 6' 7"	6	6' 11" - 8' 1"	6
6' 8" - 7' 7"	7	8' 2" - 9' 4"	7
7' 8" - 8' 7"	8	9' 5" - 10' 7"	8
8' 8" - 9' 7"	9	10' 8" - 11' 10"	9
9' 8" - 10' 7"	10	11' 11" - 13' 1"	10

Generally, four rows of bin aerator pads on 12" or 15" centers are recommended. On conical bins, these rows are spaced equally. On pyramidal bins, rows are spaced equally on sloping sides or in valleys if material tends to hang up in these valleys.

Air Supply

Air supply must be clean and dry. We recommend positive displacement, low pressure blowers. Plant air can be used, but the pressure must be reduced to 3-5 psi, and a filter or moisture trap used on the low pressure side. The volume of air needed is a limiting factor on the use of plant air.

Manifold Piping Size Guide		Air Consumption Guide Per Bin Aerator Pad	
Piping Size	Number of Aerators in a Row	Air Pressure, psi (bar)	Cubic Feet Per Minute (lpm)
3/4"	1-5	1 (0.07)	4.2 (118.9)
		2 (0.14)	5.7 (161.4)
1"	6-9	*3 (0.21)	6.5 (184.1)
		4 (0.28)	7.1 (201.0)
1-1/4"	10-12	5 (0.34)	7.6 (215.2)

Installation

Drill 7/16" holes through bin wall on predetermined centers (12" or 15" or customer's preference). Insert special tank nipple through hole and lock into place with locknut. Rubber gasket and spacer washers are furnished.

If using BAP-K external mounting kit see bulletin PC-BAP-K.

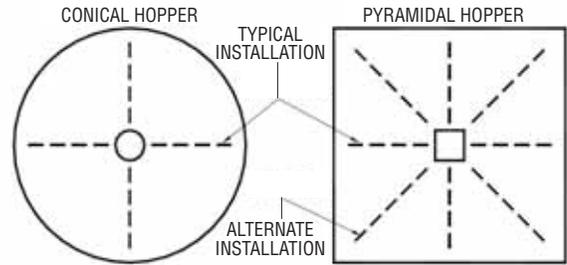


Figure 1: Typical Layouts

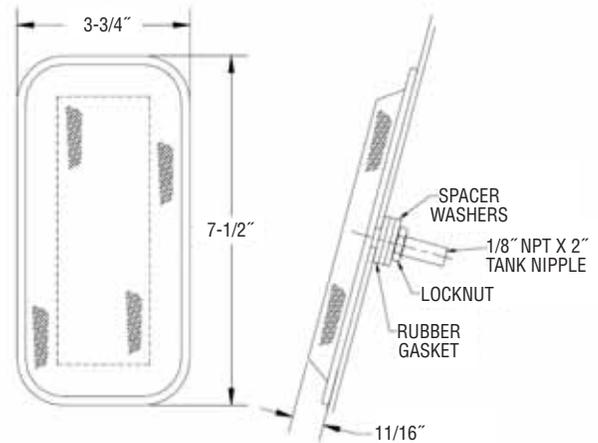


Figure 2: Series BAP Bin Aerator Pad Installed

MAINTENANCE

Upon final installation of the Series BAP Bin Aerator Pad, no routine maintenance is required. A periodic check of system calibration is recommended. The Series BAP is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.