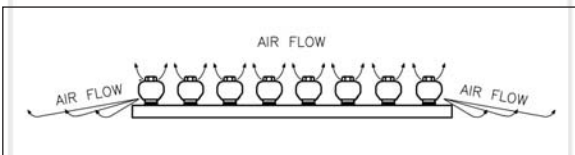
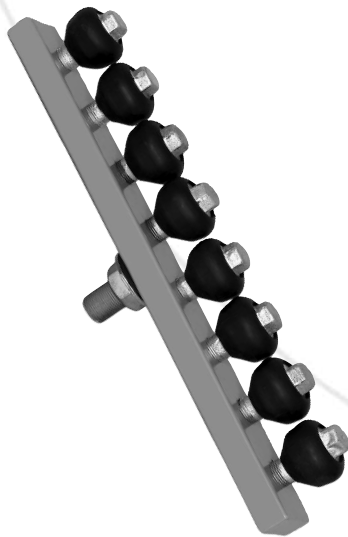




*"Setting The Standard For Supplier Excellence"*

## Flo-Pad

- ▼ Fluidizes materials in Vessels
- ▼ Handles Tough Applications
- ▼ Multi-Directional Air Release
- ▼ No Damaging Vibration
- ▼ Virtually Maintenance Free



**TYPICAL APPLICATIONS INCLUDE, BUT ARE NOT LIMITED TO:**

<b>Cement</b>	<b>Bentonite</b>	<b>Gypsum</b>
<b>Soda Ash</b>	<b>Lime</b>	<b>Flour</b>
<b>Carbon Blk.</b>	<b>Fly Ash</b>	<b>Resins</b>

The Monitor Flo-Pad bin aerator is a device used to promote the flow of dry bulk powders from a storage vessel without the noise and damaging vibration caused by pneumatic or electric vibrators. The Flo-Pad uses multiple Evassers mounted on a single air plenum chamber inside the vessel and is capable of aerating many types of bulk powders and granular solids in bins, hoppers and silos including some of the most difficult applications.

While the Flo-Pad is able to discharge air at up to 80 psi (5.5 bar) to help dislodge and move settled materials, the single Flo-Pad is used to maintain flowability of material with a constant 2 to 5 psi (0.14 to 0.35 bar) supply of air.

Unlike other types of aerators that use cotton or canvas to diffuse the air, the Flo-Pad uses multiple Evassers, which are less likely to be bound or clogged due to moisture. In addition, the Flo-Pad is not as prone to backflow of material because the standard neoprene boot on the Evassers expands to let the pressurized air out and contracts when the air is shut off blocking the air outlets from material backflow.

### PRINCIPLE OF OPERATION

The Flo-Pad uses multiple Evasser bin aerators mounted on a single air plenum chamber for optimal efficiency in even some of the most difficult applications to continuously introduce air into a mass of stored powder. When first conveyed into a storage vessel, the powder is actually a highly aerated mixture of air and particulate. In this state, the mixture flows quite easily. As the material settles, the particulate and air separate. The material decreases in volume and increases in density (it packs), and in turn it begins to behave like one solid mass rather than a fluid mixture of particles. The Evassers on the Flo-Pad replace the naturally lost air and increase and maintain the air-to-particulate mixture ratio, thus allowing the material to flow.

### APPLICATIONS

The most effective aeration of dry bulk materials is typically achieved by the use of multiple rows of Flo-Pads, one row located in each quadrant of the slopping bin bottom. The Flo-Pad can be used to aerate dry powders and granular materials. The spacing between rows and individual Flo-Pads can vary from application to application. In all cases, please consult with the Monitor application engineers for a recommendation that meets your specific material flow problem.



## FEATURES

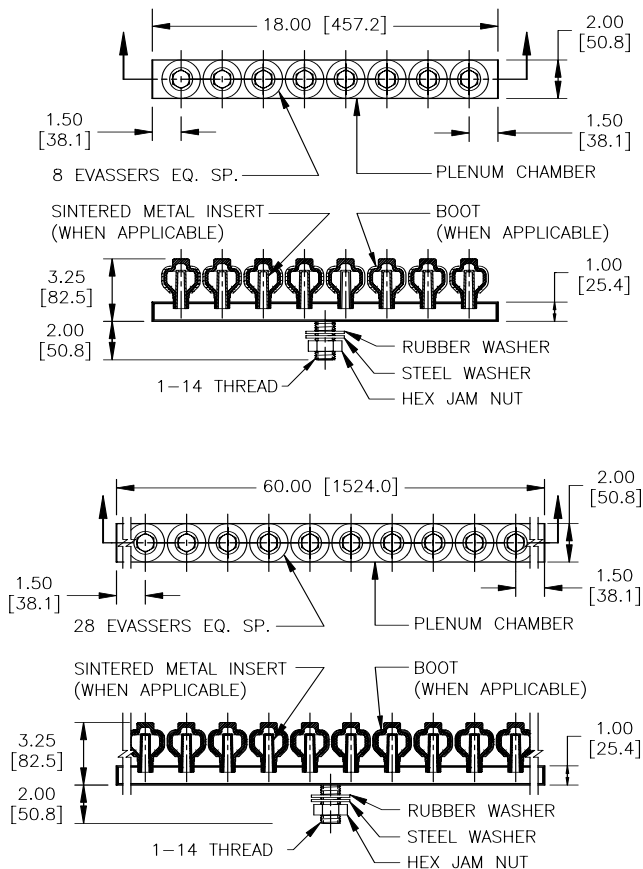
- ▼ Typical effective radius of 12 inches (305 mm)
- ▼ 18 in (457 mm) and 60 in (1,524 mm) Flo-Pads available

## ACCESSORIES

For high pressure or high temperature applications where the boot is not acceptable, a sintered metal insert can be provided.

## MECHANICALS

DIMENSIONS ARE SHOWN IN INCHES WITH MILLIMETER EQUIVALENT IN BRACKETS



## ORDERING INFORMATION

- 8-8013 Option 4, 18 in (457 mm) Flo-Pad and 8 cast iron Evassers with boots
- 8-8019 Option 4A, 18 in (457 mm) Flo-Pad and 8 cast iron Evassers with sintered bronze 90 micron inserts
- 8-8014 Option 5, 60 in (1,524 mm) Flo-Pad and 28 cast iron Evassers with boots

## SPECIFICATIONS

### Air Supply/Consumption:

Air Supply: Continuous clean, dry air 3 to 5 psid (0.2 to 0.35 bar) (the difference between the air feed pressure and the internal vessel pressure)

Air Consumption: Dependent upon quantity of Flo-Pads and air supply manifold size (Refer to bulletin 964A for further information or consult the factory)

### Materials of Construction:

Evasser: Cast iron  
 Plenum Chamber: Painted Mild steel  
 Boot (standard): Black Neoprene (up to 175°F/80°C)  
 Sintered Metal Insert: Bronze 90 micron (up to 900°F/480°C) or 40 micron filter for extra fine materials (up to 900°F/480°C)  
 SS 90 micron (up to 900°F/480°C)

### Plenum Chamber:

Connection: 1"-14 UNS x 2" pipe nipple  
 Mounting Hole: 1-7/16 in (36.5 mm) diameter

## WARRANTY

Monitor Technologies warrants each Flo-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. The purchaser must notify Monitor of any defects within the warranty period, return the product intact, and pre-pay 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.



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