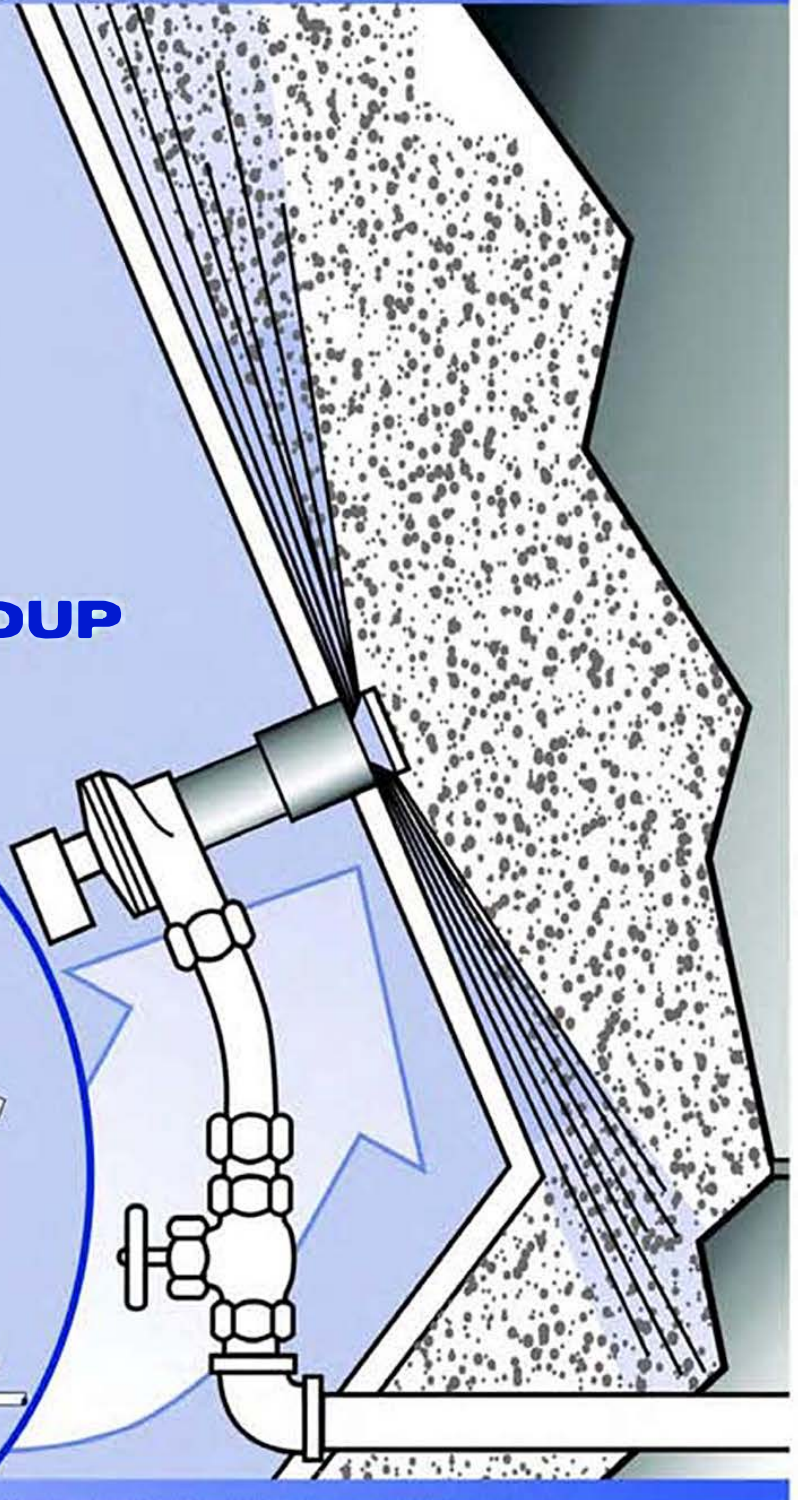
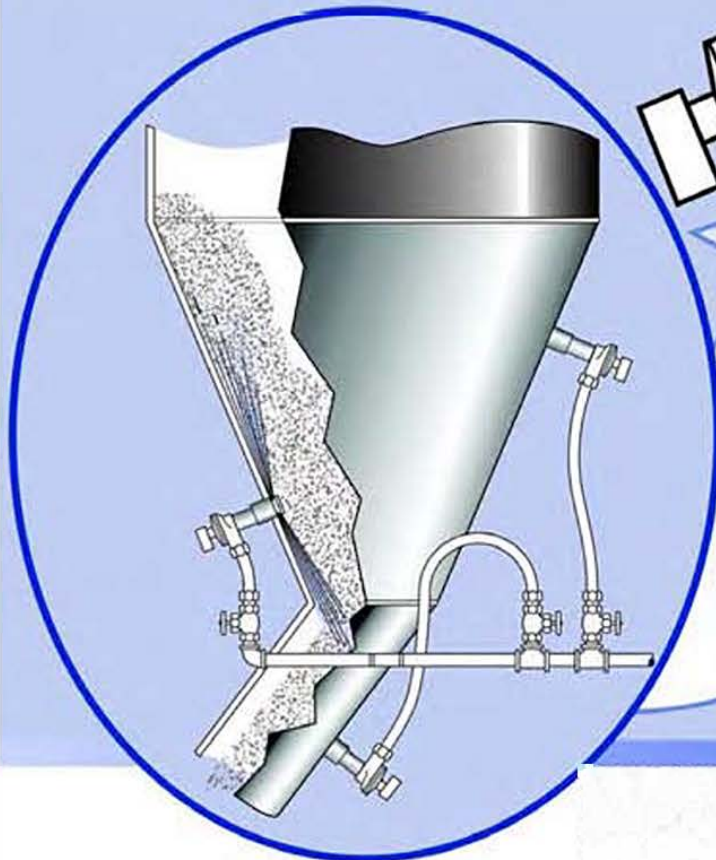


**Guaranteed Solutions  
for Tough  
Flow Problems**

***ELIMINATES:***

- **RAT HOLES**
- **BRIDGING**
- **STICKY BUILDUP**



## TYPICAL MATERIALS SUCCESSFULLY HANDLED BY AIRSWEEP

### Mined Materials:

Aluminum  
Barite  
Bentonite  
Borax  
Coal (coke, mine run  
silt, pulverized)  
Copper  
Diatomaceous Earth  
Gypsum  
Iron Ore  
Kaolin  
Lead  
Lignite  
Limestone  
Magnetite  
Phosphate  
Shale  
Soda Ash  
Taconite  
Uranium

Polyacrilimide  
Sodium Sulfite  
Titanium Dioxide  
Zinc (acetate,  
chromate, oxide)

### Foods:

Animal Feeds  
Brewers Grain  
Brine (dust)  
Chocolate  
Cocoa  
Coffee  
Feed  
Flour  
Grain  
Hops  
Meal  
Peanuts  
Salt  
Sugar  
Tankage

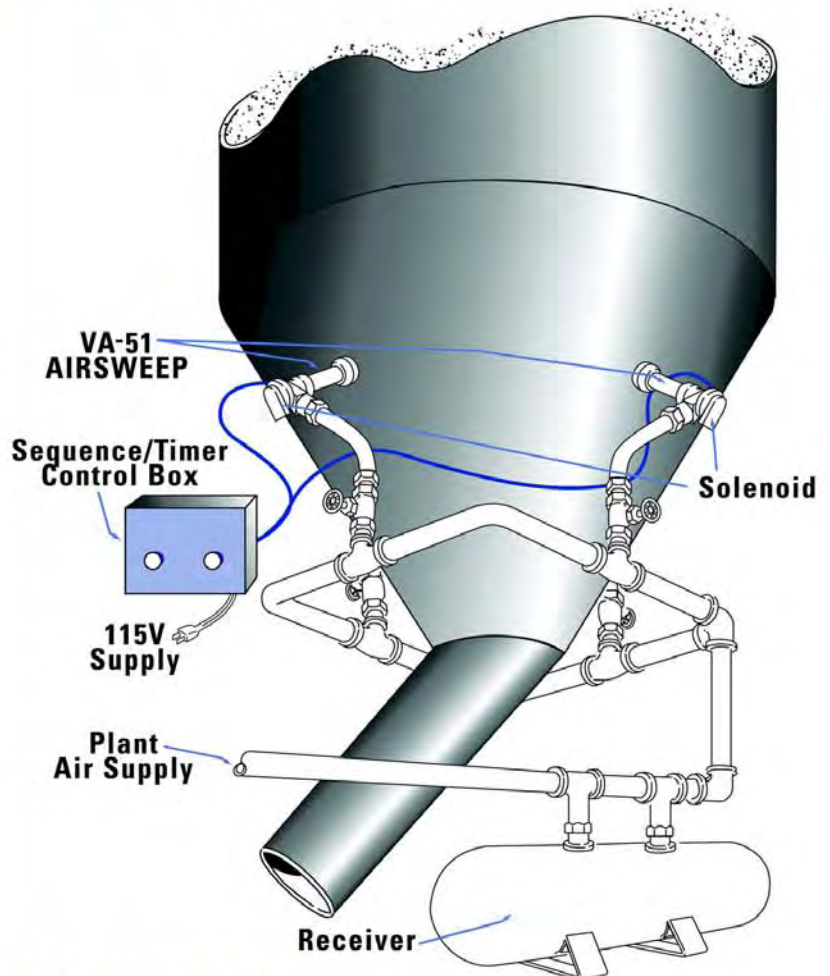
### Chemicals:

Adipic Acid  
Ag Limestone  
Aluminum Chloride  
Boric Acid  
Calcine  
Calcium Carbonate  
Herbicides  
Iron Oxide  
Lead Chromate  
Lime  
Moly Disulfite

### Other:

Cement  
Chalk  
Cork  
Detergent  
Fertilizer  
Fly Ash  
Foundry Sand  
Pharmaceuticals  
Plastics  
Resin  
Sludge

# AIRSWEEP System Guarantees Flow



## Total System Approach

A typical Airsweep system consists of strategically-located Airsweeps, high-flow solenoid valves, electronic sequence controller and air receiver. System can operate independently or can easily integrate with other equipment or automation systems. Based upon flow requirements, system is set to sequentially pulse bursts of high velocity air along the container wall. Up to an 8-foot diameter of material is dislodged with each pulse, promoting steady outflow.

## Tough Flow Problem?

Send specifics of your application to us for a free engineering proposal.

No obligation.

## SPECIAL ADVANTAGES & FEATURES

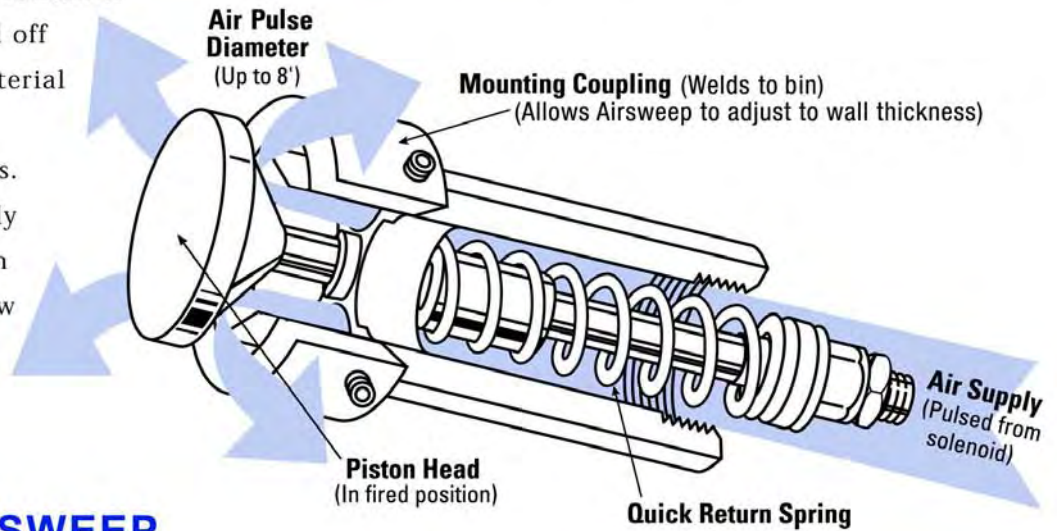
- Starts and moves material fast
- First in, first out controlled flow
- Restores full bin capacity
- Safe, non-damaging to vessel
- Low air consumption
- Installed & serviced from outside of container
- 3-year warranty
- Only one moving part
- Non-jamming design
- Sturdy, long-lasting
- Mounts to metal, concrete, fiberglass, etc.
- Operates above 900°F
- Virtually maintenance free
- Activates up to an 8-foot diameter of material per pulse

## Why AIRSWEEP Works

Powerful pulses of air are directed between the material and the container wall to sweep and lift material off sloping surfaces. Loosened material falls toward outlet, initiating downward flow of bin contents. Sequenced firing of strategically positioned Airsweeps maintain positive and controlled outflow with minimum expenditure of air.

## AIRSWEEP Cutaway View

(DESIGN AWARDED U.S. PATENT 6,237,893)



## Where to Use AIRSWEEP

Metal, concrete, wood or fiberglass bins, hoppers, silos, chutes, batchers, conveyor transfer points, larry cars, screens, feeders, centrifuges – any place granular or fine material builds up or bridges. Starts and maintains flow of moist, dense or entangled materials. Installs from outside. Easily retrofits to any application. Airsweeps can operate in temperatures above 900°F.



## Why Use AIRSWEEP

Cost and energy efficient. Uses plant air. The average system uses less than 10 CFM – significantly less than air pads, blasters, rubber disk/jet fluidizers, lances or pneumatic vibrators. There is no damage, vibration, stress or wear to container walls. Easy installation. No need to empty bin or stop production. Airsweep eliminates labor-intensive, costly rodding, hammering, air lancing and shutdowns for bin clean out.

## Why AIRSWEEP Lasts

Only one moving part, the piston, features a dust-tight nozzle that quickly recloses and reseals after firing. Fines and feedback materials are locked out, eliminating clogging and jamming. For added strength and wear resistance, Airsweep parts are machined from blocks of high grade steel. Strict quality control ensures reliable, trouble-free performance.

# AIRSWEEP SYSTEMS

VA-06



Stainless steel VA-06 Airsweeps keep batch hopper flowing.

VA-12



VA-12 Airsweep gives on-demand flow of calcium carbonate at plastics manufacturer.

VA-51



Stainless steel VA-51 Airsweeps on table salt hopper.

| TECHNICAL DATA  |  | Performance**   |          |                  |                    |                  |
|-----------------|--|---|----------|------------------|--------------------|------------------|
| AIRSWEEP MODELS |  | Materials of Construction   | Solenoid | Air Pressure PSI | Air Sweep Diameter | Air Usage (scfm) |
|                 |  | Carbon Steel<br><br>304 / 316 Stainless Steel<br><br>Other Alloys Available | 3/4"     | 40               | 2'                 | 0.3              |
|                 |  |   |          | 60               | 3'                 | 0.5              |
|                 |  | Carbon Steel<br><br>304 / 316 Stainless Steel<br><br>Other Alloys Available | 1-1/2"   | 80               | 6'                 | 1.6              |
|                 |  |   |          | 100              | 8'                 | 2.2              |
|                 |  | Carbon Steel<br><br>304 / 316 Stainless Steel<br><br>Other Alloys Available | 1-1/2"   | 80               | 6'                 | 1.8              |
|                 |  |   |          | 100              | 8'                 | 2.4              |

\*Piston extension when "fired"

\*\* Average in 75 lbs/ft<sup>3</sup> material; 0.25 sec. air pulse

Distributed By:

  
ChicagoVibratorProducts  
Flow and Compaction

Division of CVP Group  
800-842-7284 (P)  
866-247-7538 (F)  
Solutions@ChiVib.com  
www.ChicagoVibrator.com