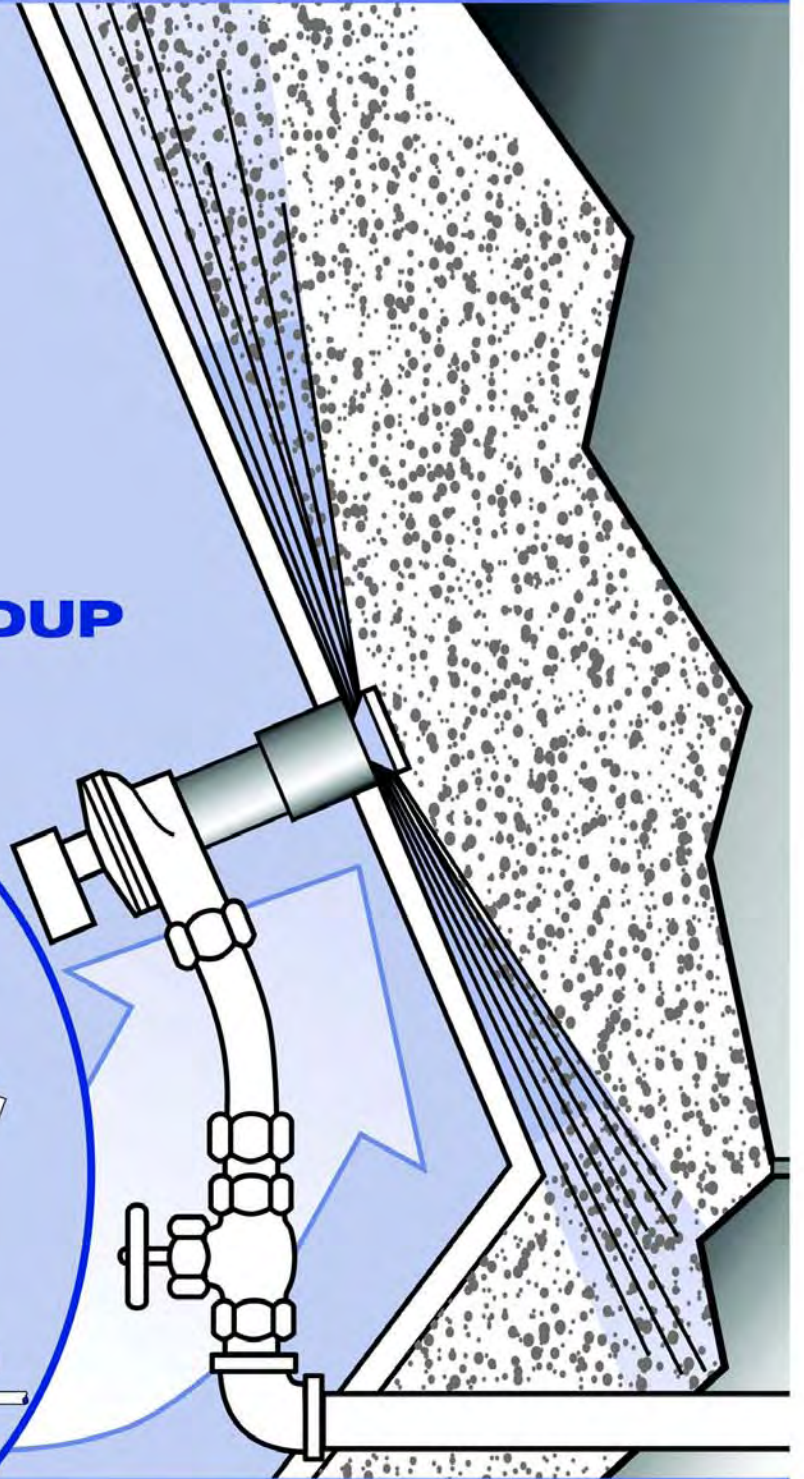
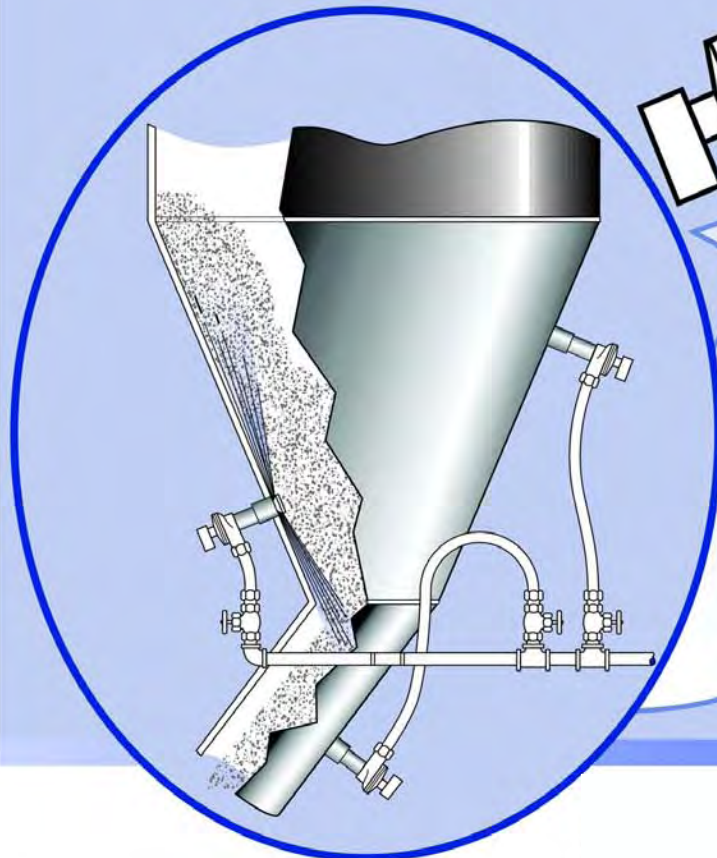


**Guaranteed Solutions
for Tough
Flow Problems**

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

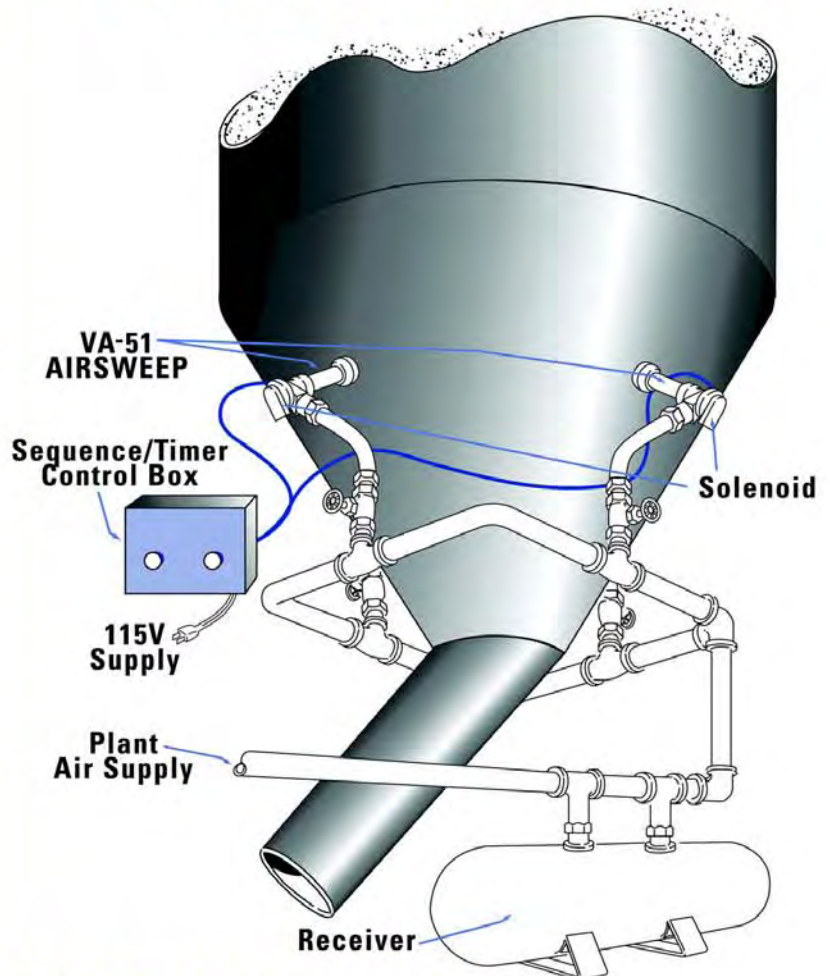
Chemicals:

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

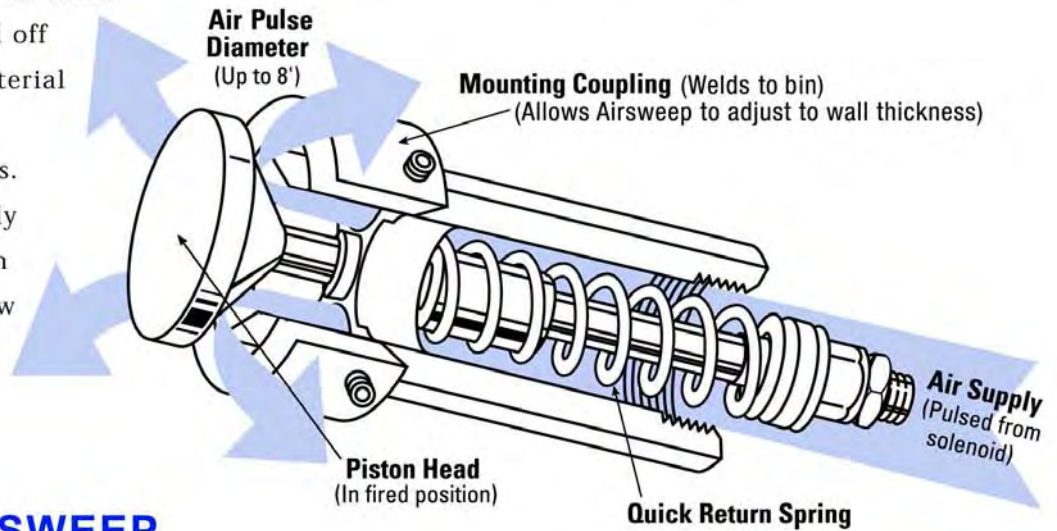
- Starts and moves material fast
- First in, first out controlled flow
- Restores full bin capacity
- Safe, non-damaging to vessel
- Low air consumption
- Installed & serviced from outside of container
- 3-year warranty
- Only one moving part
- Non-jamming design
- Sturdy, long-lasting
- Mounts to metal, 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.



Left: Model VA-51 Airsweep shown with bolt-on mounting flange on sloped hopper wall.

Inset: VA-51 nozzle shown while firing inside hopper.

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)
	<p>VA-06</p>	Carbon Steel	3/4"	40	2'	0.3
	<p>304 / 316 Stainless Steel</p> <p>Other Alloys Available</p>	60		3'	0.5	
	<p>VA-12</p>	Carbon Steel	1-1/2"	80	6'	1.6
	<p>304 / 316 Stainless Steel</p> <p>Other Alloys Available</p>	100		8'	2.2	
	<p>VA-51</p>	Carbon Steel	1-1/2"	80	6'	1.8
	<p>304 / 316 Stainless Steel</p> <p>Other Alloys Available</p>	100		8'	2.4	

*Piston extension when "fired"

** Average in 75 lbs/ft³ material; 0.25 sec. air pulse



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