

BULK SOLIDS HANDLING EQUIPMENT

AIRSWEEP FLUIDISING FLOW AIDS

Air Cannon Fluidizer-VA-Series

VA series air cannon arch breaking nozzle is easy to install, used in hopper and silo-pipeline, suitable for powder fine dust (cement and lime), solve the problem of material bridge arch and rat hole, especially suitable for the situation that cannot be installed in the silo down, press-packed from the outer box of the silo.

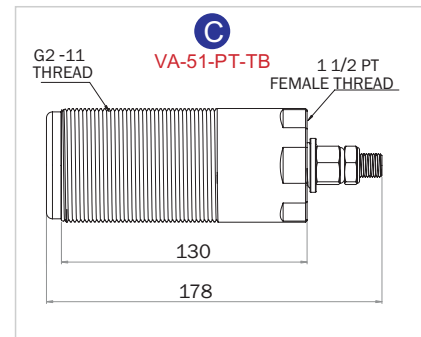
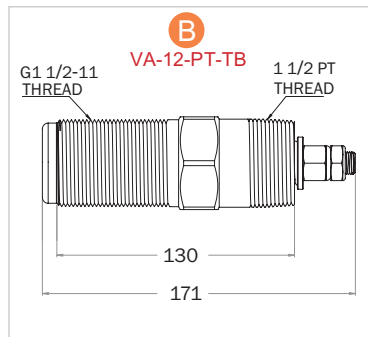
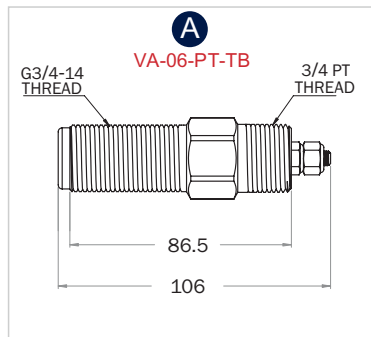
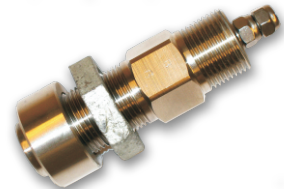


Performance & Technical Features - Benefits

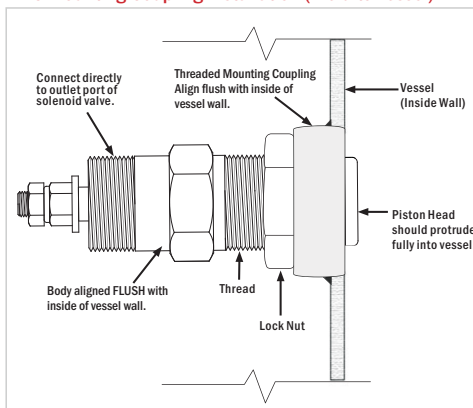
- Air pressure 2 to 47bar (29 to 100 PSI)
- Working temperature -40° C to 230° C [-40° F to 450° F]
- Suitable for cement, lime, flour and small particles
- For powders and granular products Food-grade (FDA-approved)

Options & Accessories

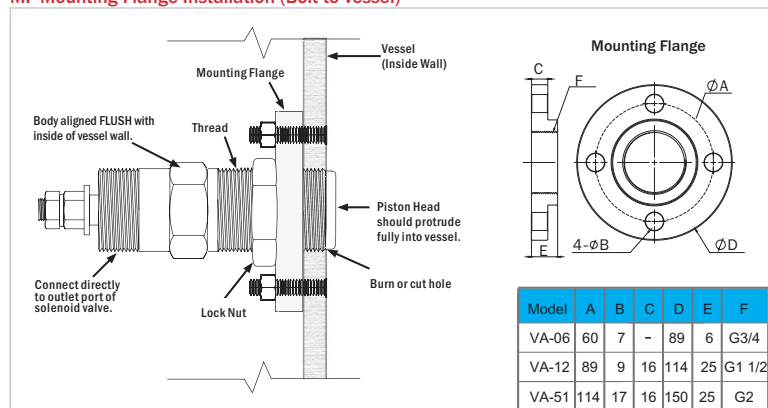
- With stainless steel shaft
- For external assembly
- Clamp Clamp Quick Installation



MC Mounting Coupling Installation (Weld to vessel)



MF Mounting Flange Installation (Bolt to vessel)



FEATURES (per unit)*

Model	Drawings	Compressed Air/Gas Consumption (per pulse)					
		Material Activation Diameter		Material Activation Diameter		Material Activation Diameter	
		0.61m(2feet)	0.91m(3feet)	1.22m(4feet)	1.83m(6feet)	1.83m(6feet)	2.44m(8feet)
VA-06	A	0.002 m ³ @2.76bar (0.08scf@40psi)	0.012 m ³ @4.14bar (0.45scf@60psi)				
VA-12	B			0.054 m ³ @5.52ba (1.9scf@80psi)	0.069 m ³ @6.89bar (2.45scf@100psi)		
VA-51	C					0.062 m ³ @5.52bar (2.18scf@80psi)	0.085 m ³ @6.89bar (2.99scf@100psi)

*erage in 75 lbs/ft³ material; 250 millisecond pulse.

Dimensions in mm

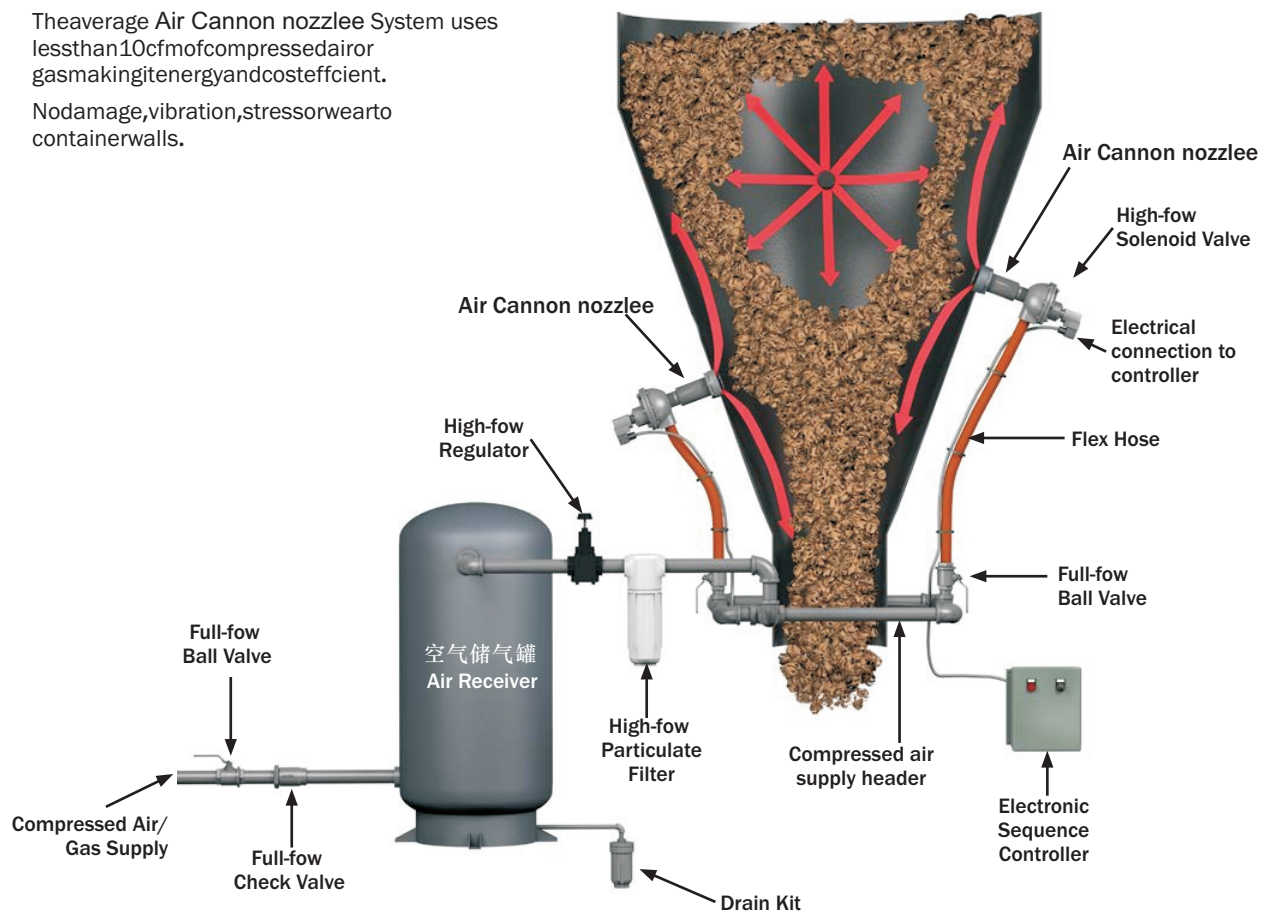
AIR CANNON FLUIDIZER CONTROL SYSTEM

Fluidizer control system

A typical Air Cannon nozzle material activation system consists of strategically-located AirSweeps, high-flow solenoid valves, electronic sequence controller and air receiver.

The average Air Cannon nozzle System uses less than 10 cfm of compressed air or gas making it energy and cost efficient.

No damage, vibration, stress or wear to container walls.



Typical Air cannon Nozzle System Components

Component	Model VA-06	Model VA-12	Model VA-51	Description
Solenoid Valve	✓	✓	✓	Delivers rapid, high-volume pulse of compressed air/gas to AirSweep nozzle.
Flex Hose Assembly	✓	✓	✓	Connects the solenoid valve to hard-piped header loop.
Full-flow Ball Valve	3/4"	1-1/2"	1-1/2"	Isolation valve for individual nozzles.
High-flow Particulate Filter	1"	1-1/2"	2"	Point-of-use particulate filtration enhances life of system components by removal of in-line contaminants.
Air Receiver	30-gallon	60-gallon	80-gallon	Compressed air reservoir ensures instantaneous volume for system.
High-flow Regulator	1"	1-1/2"	2"	Regulates compressed air supply for proper AirSweep operation.
Full-flow Check Valve	1"	1-1/2"	2"	Ensures one-way flow to system.
Full-flow Ball Valve	1"	1-1/2"	2"	System shut-off.
Electronic Sequence Controller	✓	✓	✓	Controls sequenced pulsing of AirSweep system; adjustable for any process.

Dimensions in mm