

AIRSWEEP FLUIDISING FLOW AIDS
空气炮流化助流器

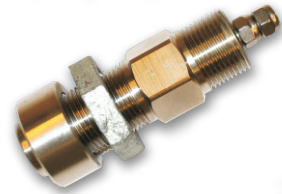
Air Cannon Fluidizer-VA-Series VA 系列破拱空气炮

VA系列空气炮破拱气嘴安装简易，应用于料斗和筒仓-管道,适用于在金属，饲料中，木材或玻璃纤维筒仓、垃圾箱、料斗、滑槽—粉末细尘（水泥和石灰），解决物料桥拱和鼠洞问题,特别适合筒仓内无法按装的情况下，从筒仓外箱按装。

VA series air blasting arch nozzles are easy to install and are used in hoppers and silos pipes. They are suitable for use in metal, feed, wood or fiberglass silos, bins, hoppers, chutes - powder fine dust (cement and lime).), solves the problems of material arches and rat holes, and is especially suitable for loading from the outer box of the silo when the silo cannot be loaded.



VA



性能-特性

- 工作压力：2~7bar (29~100PSI)
- 工作温度：-40~+230℃
- 适用于木材或玻璃纤维和小型颗粒
- 食品级（FDA）
- 相比其它流化器效率提高70%-130%

Performance & Technical Features - Benefits

- Air pressure 2 to 47 bar (29 to 100 PSI)
- Working temperature -40°C to 230°C (-40°F to 450°F)
- Suitable for wood or glass fibers and small particles
- For powders and granular products Food-grade (FDA-approved)

选项&附件

- 带有不锈钢轴304&316&碳钢
- 外部安装套件
- 钳式卡箍快速安装

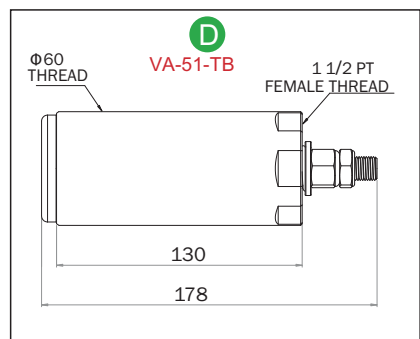
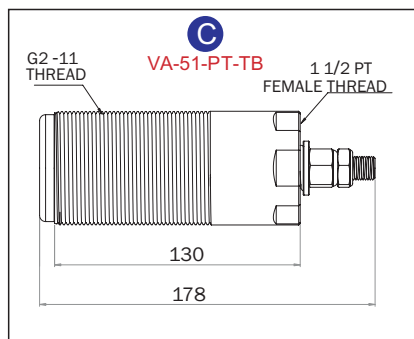
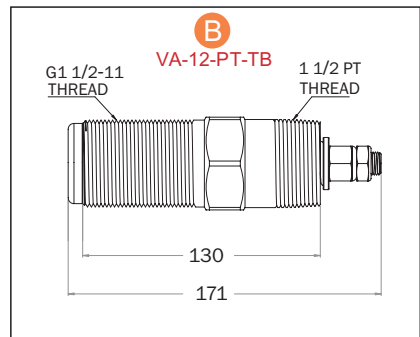
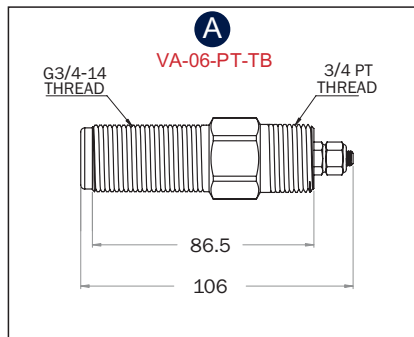
Options & Accessories

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

How To Order 型号含义

VA	-06	-SS	-PT	-TB
TYPE 型号	Size 通径	Body material 阀体材质	Thread type 螺纹形式	Connection Type 连接形式
VA	06: 3/4" DN20 12: 1 1/2" DN40 51: 2" DN50	CS: 碳钢 SS: 不锈钢 CS: carbon steel SS: Stainless steel	PT: 英制螺纹 NPT: 美制螺纹 E:	TB: 标准螺纹安装 TRI: 快速安装 TB: threaded installation TRI: Clamp installation

Air Cannon nozzle
空气炮气嘴



Dimensions in mm

AIRSWEEP FLUIDISING FLOW AIDS 空气炮流化助流器

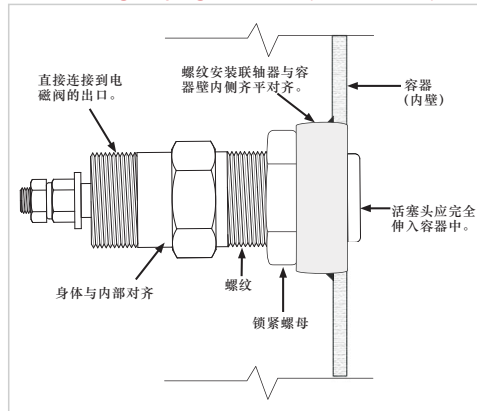
Fluidizer-VA-Tri-Clamp Series VA 快装系列破拱空气炮

FEATURES 特征 (per unit)*							
Model 型号	Drawings 图纸	Compressed Air/Gas Consumption (per pulse) 压缩空气消耗量 (次/脉冲)					
		Material Activation Diameter 材料活化直径		Material Activation Diameter 材料活化直径		Material Activation Diameter 材料活化直径	
		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)
VA-51	D					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.
*平均1.2吨/立方米: 250毫秒脉冲

VA-**-TB Mounting Installation

MC 安装联轴器安装 (焊接到容器上) MC Mounting Coupling Installation (Weld to vessel)

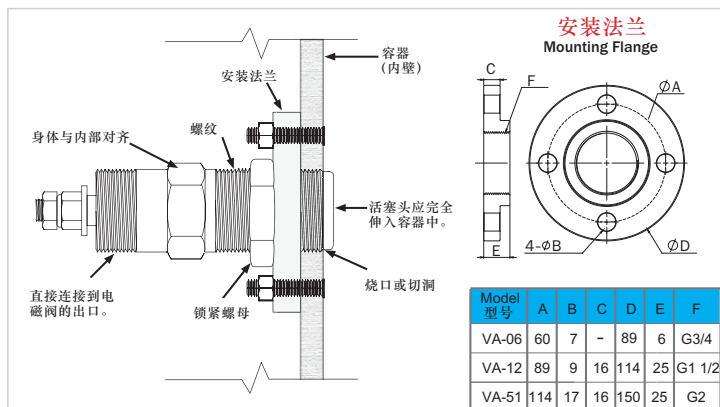


MC 安装联轴器的安装

1. 容器壁上的切割孔。建议的孔尺寸大约比联轴器直径大 1/8 英寸 (3.175 mm)，以便联轴器通过弯曲壁。MC 安装联轴器直径为 3 英寸 (76.2 mm)，因此推荐的孔尺寸为 3-1/8 英寸 (79.375 mm)。
2. 与容器壁内部对齐，并将连续焊珠焊接到壁外部。*
3. 在空气扫的前螺纹部分使用防夹剂。螺纹空气扫描到位置，使身体的前部对齐与联轴器的前面。这将正确地定位活塞头在容器内。
4. 正确定位后，拧紧锁紧螺母以保持空气扫描的位置。

注意: 在急剧弯曲的容器壁上，气嘴主体将在顶部和底部 (12:00 和 6:00 位置) 稍微延伸到垃圾箱中，并且应与侧面齐平 (3:00 和 9:00 位置)。

MF 安装法兰安装 (螺栓到容器) MF Mounting Flange Installation (Bolt to vessel)



安装法兰安装

1. 将法兰放置在墙面上。扫风的标记孔。标记螺栓圆布局。
2. 钻孔或切割孔的空气扫描和螺栓孔。孔尺寸应足够直径，允许空气扫描通过墙壁。
3. 采用用螺栓连接的方式将法兰固定到墙上
4. 在空气扫的前螺纹部分使用防夹剂。把扫射线穿入位置，使空气扫描体的前部与血管的内壁对齐。这将正确地定位活塞头在容器内。
5. 正确定位后，拧紧锁紧螺母，以保持空气扫描的位置。

Dimensions in mm

AIRSWEEP FLUIDISING FLOW AIDS
空气炮流化助流器

Fluidizer-VA-Tri-Clamp Series **VA 快装系列破拱空气炮**

VA快装系列空气炮破拱气嘴安装简易，应用于料斗和筒仓-管道,适用于在金属，混凝土中，木材或玻璃纤维筒仓、垃圾箱、料斗、滑槽—粉末细尘（水泥和石灰），解决物料桥拱和鼠洞问题,特别适合筒仓内无法按装的情况下，从筒仓外箱按装。
VA quick installation series air cannon arch breaking nozzle is easy to install, applied to hopper and silo-pipe, suitable for metal, concrete, wood or glassFiber silos, dustbins, hoppers, chutes— powder fine dust (cement and lime), solve material bridge arch and rat hole problems, especially suitable for silosIf it is not possible to pack in the silo, it can be packed from the outer box of the silo.

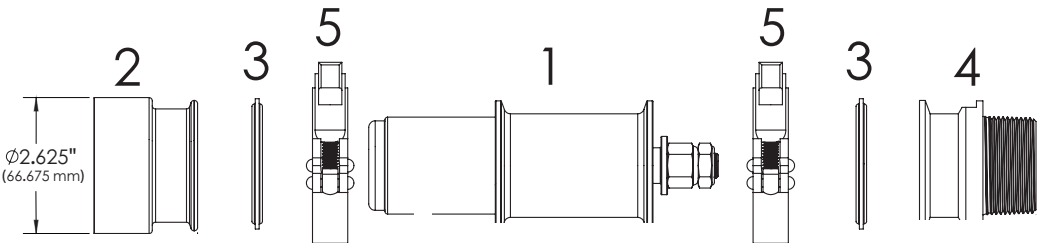
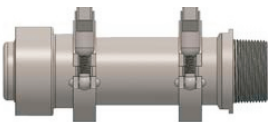


空气炮气嘴
Air Cannon nozzle

VA-TRI

VA-06-TRI-TRI

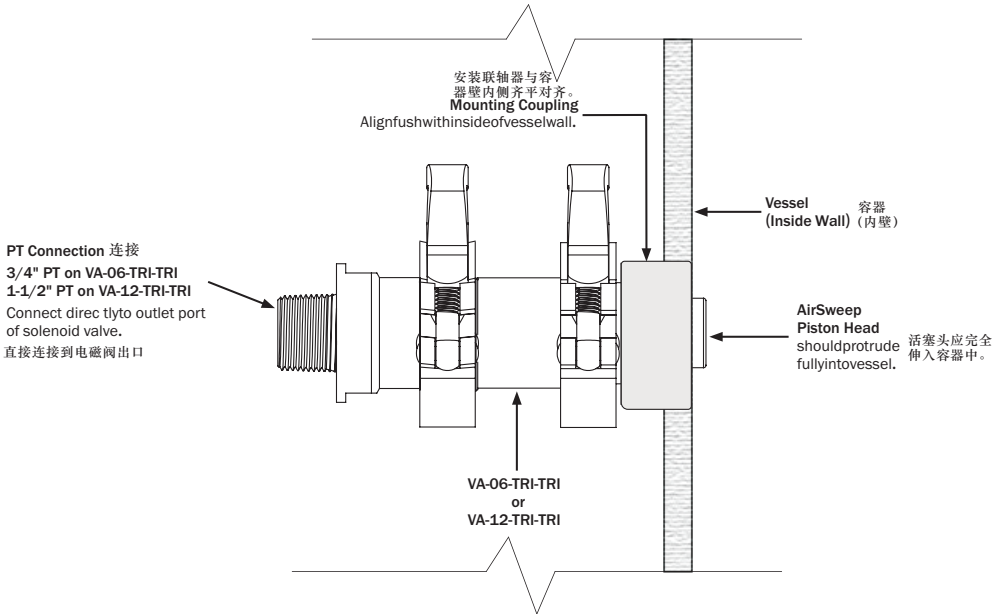
VA-12-TRI-TRI



Item No.	Description	VA-06-TRI-TRI	VA-12-TRI-TRI
1	Tri-ClampAirSweepBody	VA-06-316-TRI-TRI	VA-12-316-TRI-TRI
2	MountingCoupling	MC-06-316-TRI	MC-12-316-TRI
3	Gasket	GASKET-06-TRI	GASKET-12-TRI
4	Adapter	AD-06-TRI	AD-12-TRI
5	Clamp	CLAMP-06-TRI	CLAMP-12-TRI

Note: AirSweep Tri-Clamp Assemblies typically include the following parts, all sold separately:

- One (1) AirSweep Body
- One (1) Mounting Coupling
- Two (2) Clamps
- Two (2) Gaskets
- One (1) Adapter

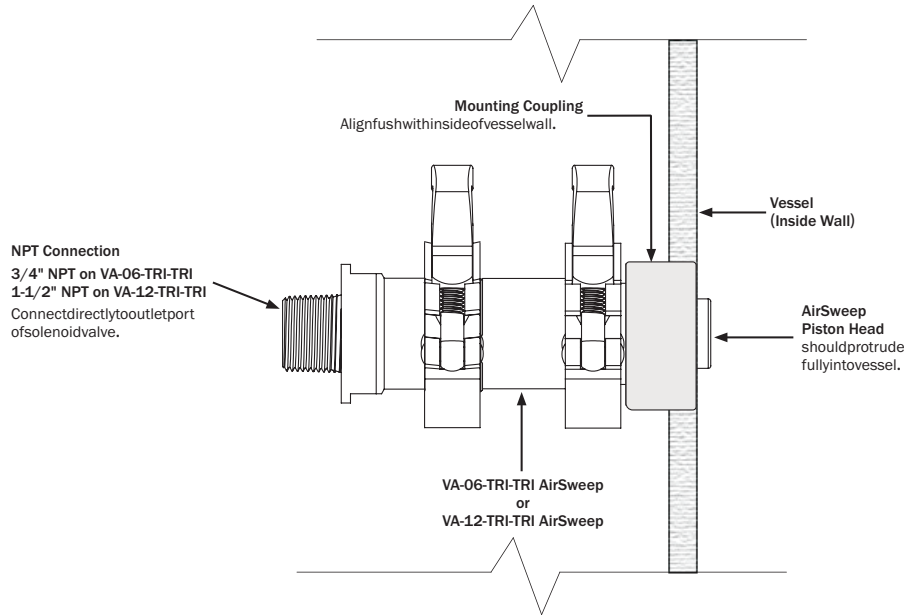


Dimensions in mm

AIRSWEEP FLUIDISING FLOW AIDS 空气炮流化助流器

Fluidizer-VA-Tri-Clamp Series VA 快装系列破拱空气炮

VA-06-TRI-TRI and VA-12-TRI-TRI Mounting Installation



MC-06-TRI and MC-12-TRI Mounting Coupling Installation (Weld to vessel)

1. Cut hole in vessel wall. Recommended hole size of approximately 1/8" (3.175mm) greater than diameter of coupling to allow coupling to pass through curved wall.
For MC-06-TRI mounting coupling, recommended hole size is 2.108" (53.54mm)
For MC-12-TRI mounting coupling, recommended hole size is 2.75" (69.85mm)
2. Align coupling flush with inside of vessel wall and weld continuous bead to exterior of wall.*
3. Install clamp gasket to inside groove in mounting coupling flange.
4. Push AirSweep fully into mounting coupling, ensuring clamp gasket is tightly sandwiched between AirSweep and mounting coupling.
5. Install tri-clover clamp around AirSweep and mounting coupling flange and finger-tighten until snug.
6. Apply Teflon tape to adapter thread and thread solenoid valve onto adapter. Do not over-tighten.
Do not use pipe dope or paste on threads, as this material may foul the solenoid valve.
7. Install clamp gasket to inside groove in rear AirSweep flange.
8. Position adapter flange to mate with rear AirSweep flange – with gaskets sandwiched between the two parts.
9. Install tri-clover clamp around rear flange and finger-tighten until snug.

Note: On sharply curved vessel walls, front surface of mounting coupling may extend slightly into the vessel at top and bottom

(12:00 & 6:00 positions), and should be flush at sides (3:00 & 9:00 positions).

For maximum effectiveness, connection between adapter and solenoid valve should be direct, with no additional pipe nipples or fittings. When possible, use only the supplied adapter. If additional pipe length is required, do not exceed 12" between solenoid valve and AirSweep.

* **Welding procedure must be done properly to avoid warping of Mounting Coupling**

Welding should be done in accordance with the American Welding Society (AWS) standards as supported by ASME (American Society of Mechanical Engineers).

Dimensions in mm

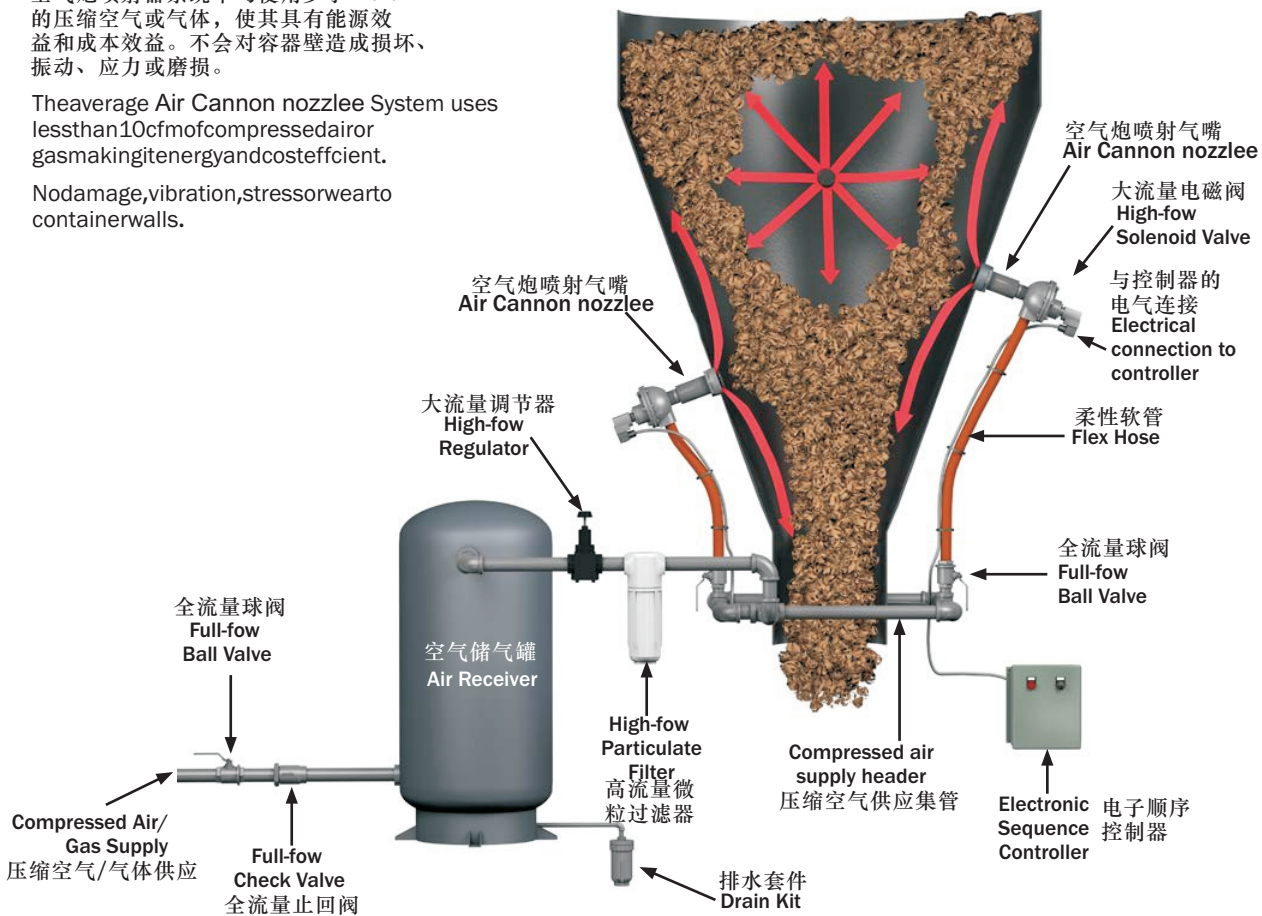
AIR CANNON FLUIDIZER CONTROL SYSTEM

空气炮流化器控制系统

Fluidizer control system 流化器控制系统组件

空气炮喷射器系统由空气清扫器、高流量电磁阀、电子序列控制器和空气接收器组成
A typical Air Cannon nozzle material activation system consists of strategically-located AirSweeps, high-fow solenoid valves, electronic sequence controller and air receiver.

空气炮喷射器系统平均使用少于 10 cfm 的压缩空气或气体，使其具有能源效益和成本效益。不会对容器壁造成损坏、振动、应力或磨损。
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.



空气炮喷嘴系统组件
Typical air cannon nozzle System Components

零件	Model VA-06	Model VA-12	Model VA-51	描述ription
电磁阀	✓	✓	✓	向空气喷嘴提供快速、大容量的脉冲压缩空气/气体
柔性软管组件	✓	✓	✓	将电磁阀连接到硬管集管回路。
全流量球阀	3/4"	1-1/2"	1-1/2"	单个喷嘴的隔离阀。
高流量微粒过滤器	1"	1-1/2"	2"	使用微粒过滤器去除压缩空气中的污染物来延长系统组件的使用寿命
空气储气罐	100-升	200-升	300-升	压缩空气储罐确保系统的瞬时容量。
大流量调节器	1"	1-1/2"	2"	调节压缩空气供应以确保空气喷嘴正常运行。
全流量止回阀	1"	1-1/2"	2"	确保单向流向系统。
全流量球阀	1"	1-1/2"	2"	系统关闭。
电子顺序控制器	✓	✓	✓	控制空气喷系统的顺序脉冲；适用于任何过程。

Dimensions in mm