

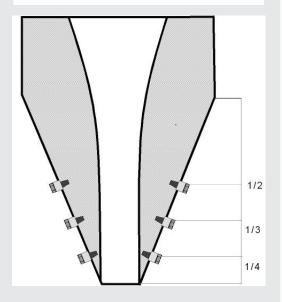
The Powtek **U-2** Fluidization Nozzle is used to aid the flow of product out of bins and silos.

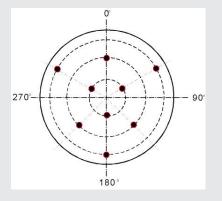
It is fast and easy to install - just drill a hole, weld a bushing and insert the nozzle.

With the Powtek nozzle **installation** and **maintenance** is made safely **from the outside**. **Nobody is required get inside the silo.** The operator can unscrew, clean and mount the nozzles back as **often** as he likes and **whenever** he wishes to do so.



Installation Layout





How it works

By adding air to the powder inside the silo s cone the friction between the wall and the product is reduced enhancing a more balanced material discharge.

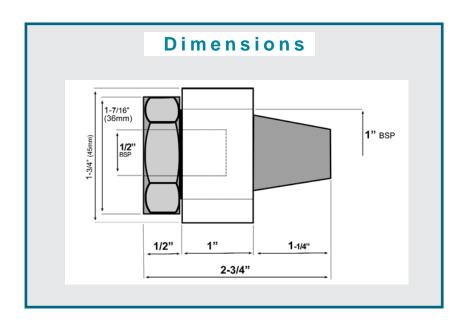
Since the entire body is made of carbon steel, it can be extracted and applied again as many times as necessary as opposed to other models on the market made of plastic that can only be cleaned once or twice.

The number of nozzles to be used depends on the size of the cone. Nozzles are usually applied in rows of 3.

The operation cycle can be:

-continuous with a constant flow of air at 5 psi -intermittent using higher 10-20 psi air pressure. In this case a timer and a solenoid valve are required.





HOW TO INSTALL

1. Drill a 1-7/8 diameter hole on bin s cone.

2. Insert bushing in the hole so that the edge of the bushing is aligned with the inside wall.

- **3.** Weld bushing to the bin s wall.
- 4. Insert nozzle.
- 5. Insert air fitting.

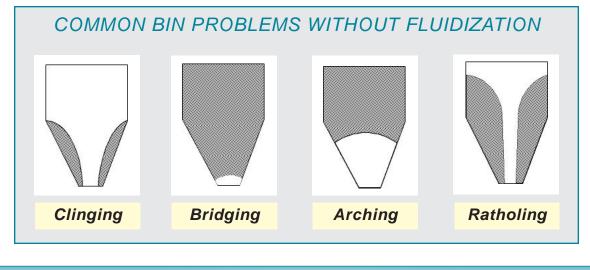
AIR FITTINGS OPTIONS

SINGLE: Barbed 1/2 (12mm) x Male Pipe 1/2 BSP TEES: 2 x Barbed 1/2 (12mm) x Male Pipe 1/2 BSP

| TECHNICAL SPECS | |
|-----------------------|--------------------------|
| Pressure | 2 to 5 PSI |
| Air Consumption | 0.1 cfm at 5 PSI |
| Weight | 13 Ounces |
| Housing | Zinc Plated Carbon Steel |
| Bushing construction | Carbon Steel |
| Exhaust port material | Sintered Bronze Alloy |
| Inlet air port size | 1/2" BSP |

AIR NOZZLES or VIBRATORS?

There are many **products** that do not respond well to vibration. Since they are **highly compactible**, if vibrated, the discharge is inhibited. By making the material more fluid and without any shaking, aerators are much more capable of achieving a better flow.





2500 PEARL BUCK ROAD - SUITE- I BRISTOL, PA 19007 PH: 215-788-2888 FAX: 215-788-2883 powtek@comcast.net www.powtek.us