

# Air-Operated Double Diaphragm Pumps (AODD)

## Specialty Pumps: Powder Pumps



### Portable Powder Transfer Pumps

Specially designed and engineered AODD Powder Transfer Pumps are used to effectively transfer very fine, dry and low bulk powders safely, cleanly, and economically. Powder pumps create a safe, efficient and dust-free work environment. They can eliminate the need for intensive physical labor & heavy lifting. A cost-effective replacement for all types of powder augers, mechanical conveyors, screw feeders and pneumatic conveying systems.

To operate efficiently, the Powder Material must be completely dry, fine-grained, free-flowing and with low bulk density. The powder is fluidized inside the pump, therefore powder that cannot be fluidized, cannot be transferred. The conveying distance will depend entirely on the type of powder, its weight, size, shape and bulk density. Typically powders such as Pigments, Activated Carbon, Powder Coatings, Carbon Black, Fumed Silica, Talc, Toners & Powdered Plastics can all be transferred successfully. However a trial should always be carried out to determine the pumps ability to transfer a certain types of powders.

- 100% Pneumatic Operation
- Portable and Easy to use
- Comes Fitted with a Compressed Air Induction System
- Compact & Robust Construction
- Wide and Sturdy Base
- Outside Accessible Air Motor
- 100% Non-Lubricated Air Motor
- Designed for High Performance Operation & Long Life Expectancy

#### About Compressed Air Induction System

All Powder Pumps are fitted with an externally mounted Air Induction System. This system is designed to Fluidize (Aerate) the powder. Once in a Fluidized State, the powder will act like a liquid and can be easily transferred. Air fluidization is controlled by individual Air Valves situated on each of the incoming compressed air lines.

#### Additional IWAKI AIR Powder Pump Information

- Powder Pumps are available in ¾" 1" 1½" 2" & 3" Aluminium or Stainless Steel
- Shipped with factory fitted Compressed Air Induction System
- The standard model utilizes 4 inlets however custom models are available
- Please consult Iwaki America for more information about pumping powders

**TC-X500AC-FLA-PDR**  
2" Flanged Powder Pump



**TC-X253AC-NPT-PDR**  
1" Powder Pump



### Air-Operated Double Diaphragm (AODD) Pump Capabilities

Self Priming  
Can Run Dry  
Can Run Deadhead  
Variable Flow Rates

Variable Discharge Pressures  
Transfer Liquid Slurries  
Can Handle Hard Abrasive Solids  
Can Handle a Wide Variety of Liquids

Explosion Proof / Intrinsically Safe  
Portable & Easy to Use  
Can Pump Shear Sensitive Fluids  
Transfer Viscous Fluids



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