



Drum Pump Installation and Maintenance

The *Arizona Vortex Drum Pump* operates in conjunction with a standard 30 or 55 gallon STEEL Drum that is in good condition. The *Arizona Vortex Drum Pump* operates by moving near sonic speed compressed air through a .002" annular orifice, in return creating a 8.5" HG vacuum inside the steel drum. At this speed you should be able to fill a 55 gallon steel drum in under 2 minutes at 80 psi compressed air and 28 CFM.

ONLY STEEL DRUMS IN GOOD CONDITION SHOULD BE USED!

(You may attach an on/off ball valve and pressure gauge to the compressed air inlet for easy operation.)

Set Up

1. Thread the *Arizona Vortex Drum Pump* stem into the 3/4" threaded opening of the steel drum. Teflon tape may be used to create a tight fit.
2. Thread the 2" plug into the 2" drum opening and attach the "Banjo" Cam lever fitting. Pull up on the rings to lock the fitting in place.
3. Attach a regulated 3/8" or 1/2" air line to the *Arizona Vortex Drum Pump*. To prevent line debris from interfering in usage of the *Arizona Vortex Drum Pump* an air filter is recommended. Part #90000 may be purchased through Arizona Vortex.
4. **Notice:** A smaller air supply hose could starve the Drum Pump of enough air and give you undesired results.
5. Insert one end of the cuffed hose securely over the male barbed fitting that was placed on the steel drum. DO NOT glue the cuff to the adapter.

For Liquid Transfer:

1. With the compressed air supply connected either turn on the air compressor or if installed turn the handle of the ball valve slowly to the "on" position. (Ball valve not supplied) The top of the steel drum will be pulled in slightly due to the Drum Pump vacuuming characteristics.
2. Insert the free end of the hose with or without attachments into the liquid which is to be vacuumed and turn on the air supply that is regulated to a working pressure between 70 and 90 psig. A float valve located in the stem of the Drum Pump will automatically shut off the unit when the drum has been filled. If a ball valve is attached; the ball valve may also be used to turn off the unit at ANY time during operation. If a ball valve is not installed you can use the compressed air on/off for operation. The squeegee tool may be used to pick up liquids from floor areas. Push the squeegee tool away from you to quickly pick up liquids spills.

FOR DRY CHIP:

1. Attach the desired attachment onto the end of the wand and vacuum chips or other small debris.

Questions or Concerns:
Toll Free: 1-800-660-4060
Worldwide: 1-928-684-5733
FAX: 1-928-684-5752
Email: info@arizonavortex.com
Website: www.arizonavortex.com

CAUTION:

The Arizona Vortex Drum Pump is NOT recommended for use with volatile or hazardous liquids or chemicals since a state of vacuum may lower the ignition point.