



Reversible 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" x 1-1/2" male barbed fitting into the larger opening of the steel drum.
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 Filling the Steel Drum:

1. Follow set up instructions.
2. The black knob located on the top of the Drum Pump should be turned counter clockwise until it is in the stop position.
3. On the open end of the hose connect the desired attachment for liquids.
4. 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.
5. 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.

To Empty the Drum:

1. Follow the set up instructions.
2. Insert the 36" liquid exhaust PVC tube into the steel drum through the 2" banjo drum fitting.
3. With the compressed air supply off, turn the black knob located on the top of the Drum Pump.
4. Hold the open end of the hose over a suitable container or area to receive the liquid from the steel drum.
5. Slowly turn the compressed air on or if attached turn the ball valve to the "on" position.
6. Turn the compressed air off or rotate the ball valve to the closed position when the drum has been emptied.

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.

Questions or Concerns:
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