



Water tanker checklist

Tow List

The PDP trailer has a commercial 6 pin tubular electrical male connector that plugs into **Cynomys**. All lights work. If you tow with your own vehicle you may have to make adapters? **Cynomys** is fitted with a compensating brake system that regulates the brakes on the trailer. If the light goes to red (near your right knee) the brakes lock, do not change the settings unless you are having braking difficulties. There is a 2" ball on **Cynomys** that fits to the trailer and two emergency chains; the receiver on the trailer has a lock that should be open to couple and locked to tow. Pay attention to cutting corners as you are towing a trailer equal in length to your vehicle.

Water tanker know list

Fact #1: The Albuquerque fire hydrants have two 2 1/2" male connections on the side and a 4" connection on the front; you always use the side connection.

Fact #2: Once you have the fill hose connected **Open the hydrant slowly**. Turn the "nut" on the top of the hydrant **RIGHT OR CLOCKWISE TO SHUT; LEFT OR COUNTER CLOCKWISE TO OPEN**. You will have to turn it several times to get the water to flow.

BEWARE: the water is under a lot of pressure. If the fill hose is connected mechanically to the water tanker be prepared for some jumping in the hose and leakage; if you are holding the fill hose in the tanker be prepared for a surge.

Fact #3: The water meter has a 2 1/2" female connection to connect it to the fire hydrant side connection. Obscene as it may be, stick it between your legs and turn the connection until it is snug (righty-tighty, lefty-loosey). It is bulky and your legs will steady it to allow you to align and tighten it.

Fact #4: The water meter has a 2 1/2" male hose connection to which one connects the fill hose. The meter has a gate valve which should be left open.

Fact #5: **You must have a fill hose with a 2 1/2" female screw coupling to transfer the water from the hydrant to the water tanker.**

Fact #6: **You must use one (there are 4) of the 3/4" garden hose adapters on the discharge header of the pump to attach the flushing hose.**

Fact #7: If you need lots of water use the 1 1/2" outlet and the 1 1/2" fire hose & nozzle.

Water tanker definitions:

Fire Hydrant: The things dogs piss on and from which you will get water

Hydrant Wrench: A five sided device that fits over the hydrant nut and side caps. It is at the end of a short run of rod (which can be tightened to the hydrant nut) to allow you to undo the side caps and open the hydrant. A pipe wrench will do. **DO NOT LEAVE OURS AT THE SITE.**

Fill Hose: The hose that attaches to the water meter and conducts water to the tanker. THIS HOSE MUST HAVE A 2 1/2" FEMALE SCREW CONNECTION ON ONE END TO HOOK TO THE WATER METER OR HYDRANT. ON THE PDP HOSE, THE OTHER END IS A QUICK CONNECT WHICH GOES TO THE COUPLING ON EITHER SIDE OF THE TANK.

Spray hose: Attaches to the 1 1/2 valve for lots of water.

Gas Can: A vessel that holds gasoline; you will need one to refill the gas tank; We have one so there is no need to rent one. But you will need it to refill the gas tank, so ensure that it has gasoline in it.

Final Check List:

What you need to have as a minimum:

- The water tanker; safety chains all connected.
- Electrical cable connected.
- A fill hose with a 2 1/2" female screw connection to connect to the water meter or water hydrant and mechanically connects to the water tanker.
- A garden hose to connect to one of the hose outlets on the discharge header.
- Paperwork (water meter permit minimum, permission from the site owner and federal permits).
- Full tank of gas for the pump.
- Stick your arm out the window and get the contractor attitude, cut off anyone you want, you are on a mission...

Water Tanker Fill:

Remember I've warned you about the surge.

- You have your paper work, right? The permit??
- Pull up to a hydrant, leaving enough room for the hose to extend...
- Remove one of the side caps with the hydrant wrench.
- Hook up the meter (or 3" fill hose if you are "liberating") to the hydrant.
- Hook up the fill hose to the meter and to the water tanker to one of the two couplings depending on which side of the tank the hydrant is on.

- Open either valve #1 or valve #2, depending on which one you are connected to; close valve #3. Open the hydrant nut slowly.
- Fill tanker (start adding soap as you fill, 7 quarts of biodegradable soap for 500 gallons).
- Shut hydrant valve when full; shut valve #1 or #2 depending on which you used.
- Disconnect hoses.
- Disconnect meter.
- Put on end cap and tighten.
- Roll up hose.
- Return tools, hose and meter, to the vehicle and head to the site.

On site start up:

- Hook up the garden hose to one of the outlets on the pump header and open the valve.
- Open Valve #3.
- Check the oil and gas in pump top up as needed. (CHECK THE OIL EVERY TIME YOU ADD GASOLINE).
- Turn on the gas to the engine (refer to pump spec sheets if needed).
- Prime the pump if you need to (usually not) There is a vent screw in the top of the pump casing.
- Push speed control to about 1/2 throttle (at 0 throttle it turns the motor off).
- Open the choke if you need to (usually not if warm).
- Pull the starter cord and start the pump.
- Once it starts, close the choke (if you used it).
- Adjust the speed using the throttle control.
- Start flushing.

WARNING: Do not run the pump at full throttle; you will be turning the water on and off as you flush using the hose nozzle and “dead heading” the pump is bad for it. You can get plenty of water at 3/4 open; if you insist on running it at full throttle you will need to run a second hose from one of the other hose outlets on the header, back

into the tank and crack open the valve to allow the pump to bleed off pressure.