

## GPA- Series Pump Instructions

Plan the orientation of your supply and return fittings prior to assembly so they will be facing in the desired direction for your installation. Keep in mind that the filter sock has to be aligned with the reservoir tray.

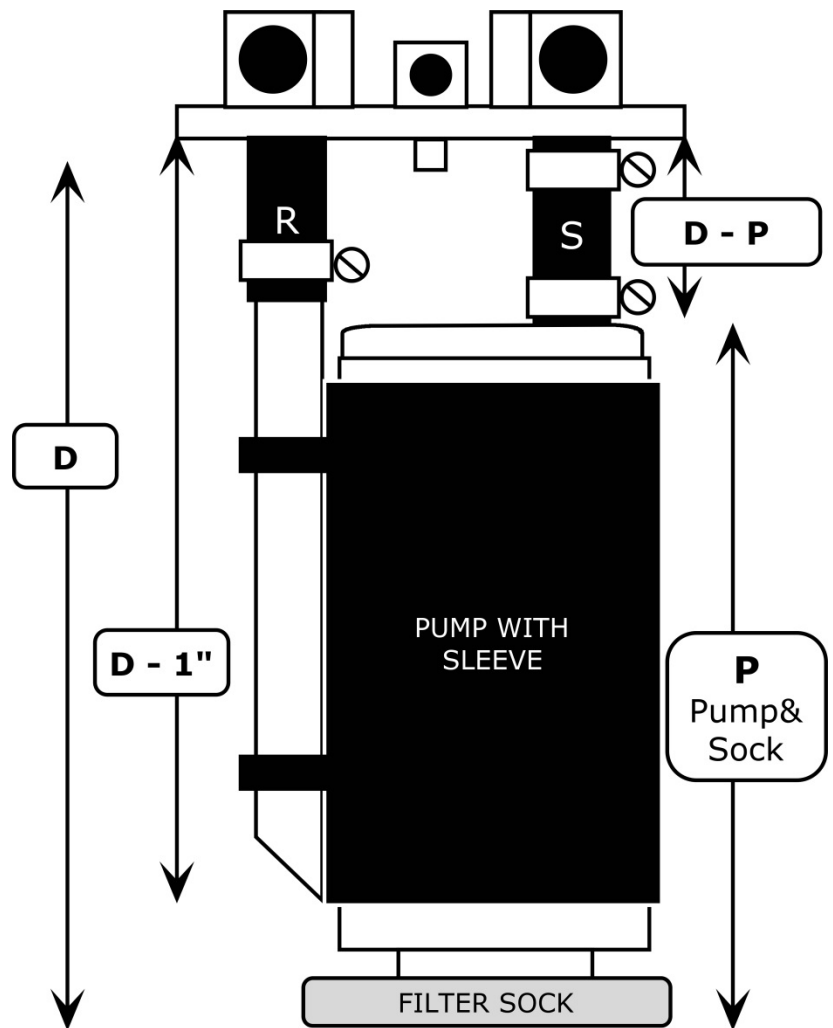
- 1) Measure the depth of your tank (D) by inserting a ruler down the 2-1/8" diameter accessory opening on your tank. Determine the length of your supply and return tubes:

**D = Depth of tank**

**S = D - P**

**D - 1" = Return Line**

- 2) Trim the Return (R) and Supply (S) tubes to the lengths determined in step #1. (For GPA-5, GPA-6, GPA-8 & GPA-9 pumps D - 1-5/8" = Return Line. See reverse side for photo instruction.)
- 3) Slip two hose clamps over the Supply Line (do not tighten)... warm the end of the Supply Line with a heat gun... push the pump outlet-nozzle into the Supply, being sure to use a straight motion so you don't stress the outlet nozzle. (For GPA-2, GPA-4 & GPA-TBI do not remove the white nylon sleeve on the pump outlet)
- 4) Rotate the pump until it nestles against the return line. Tighten the hose clamps and cable tie the pump to the Return Line with two cable ties (See reverse side for photo).
- 5) Connect your in-tank wire harness to the fuel pump, making sure that the connections are secure. Route the wires through the pass-through fitting being sure to leave a little slack to prevent strain or chaffing, use a 9mm wrench to tighten the upper jam nut on the wire pass through in ¼ turn increments until the wire no longer moves up and down. **BE CAREFUL NOT TO OVERTIGHTEN DOING SO COULD BREAK THE FITTING OR CAUSE A LEAK.**
- 6) Red wire is positive. Black wire is Ground.
- 7) You should consider installing an access door in the floor above your pump module.
- 8) For a better seal use Permatex part # 85420 Gasket dressing and flange sealant on the gasket and screws. When installing using TANKS INC hardware the torque spec is ½ Ft. lb.
- 9) **NEVER RUN YOUR PUMP DRY**
- 10) Pump connections are ¼" NPT be sure to use Fuel proof thread sealer or tape.
- 11) For the extra venting necessary for fuel injection, we have supplied a 5/16" barbed vent fitting. This can be connected to a carbon canister or Tanks part # VVR.



## GPA-2 & GPA-4 Pump Assembly



## GPA-6 Pump Assembly

The return line on the GPA-6 pump must terminate before the pump flares out to a larger diameter to fit inside of the tank pump opening. Cut return line as shown here.