

## Hydraulic Pump, Valves and Cylinders

Hydraulic Pumps, Valves and Cylinders - Many lift trucks are driven utilizing liquid propane. Even though several facilities will have refuelling capabilities on location, many would have cylinders delivered to their headquarters instead. Whenever a lift truck runs out of fuel, the cylinders are changed. A few training and cautions is required whenever handling propane because it is a highly flammable substance.

Personal Protective Equipment, or PPE, should be worn prior to filling or changing a lift truck cylinder. Because liquid propane is really cold, it can result in burns if it comes into skin contact. All the time wearing thick leather gloves will help protect hands. Goggles or various standard eyewear together with a face shield is also highly recommended. Having a fire extinguished close at hand is likewise recommended before the refuelling process begins.

Be certain that the surroundings are safe from whichever lit cigarettes or open fires. Find the fill valve on the cylinder and take out the cover. Next you can connect the fill line to the fill valve. Once the fill line is in place, cautiously open the bleed valve. This will be a small round knob on the cylinder which is commonly brass coloured. A hissing sound could escape when the valve is open and this is normal as long as it is only air being vented and not actual propane.

Open the fill valve on the fill line really slowly, listening for any leaks around the connection point. Once certain there are no leaks, the valve can then be opened more. The sound of propane entering the tank must be audible. On no account leave the tank unattended whenever refuelling and look at the bleeder valve during the method. A spray of white propane gas will emit from the bleeder valve when the tank is full. Turn the fill valve off entirely and then close the bleeder valve. Extremely gradually and cautiously take out the fill line from the tank. Watch for any excess gas caught in the coupling that would be expelled when the seal is broken. It should only be a small quantity of gas and is normal. Put back the protective cover on the fill valve. Double check all valves are entirely closed. The tank is now set and full to utilize.