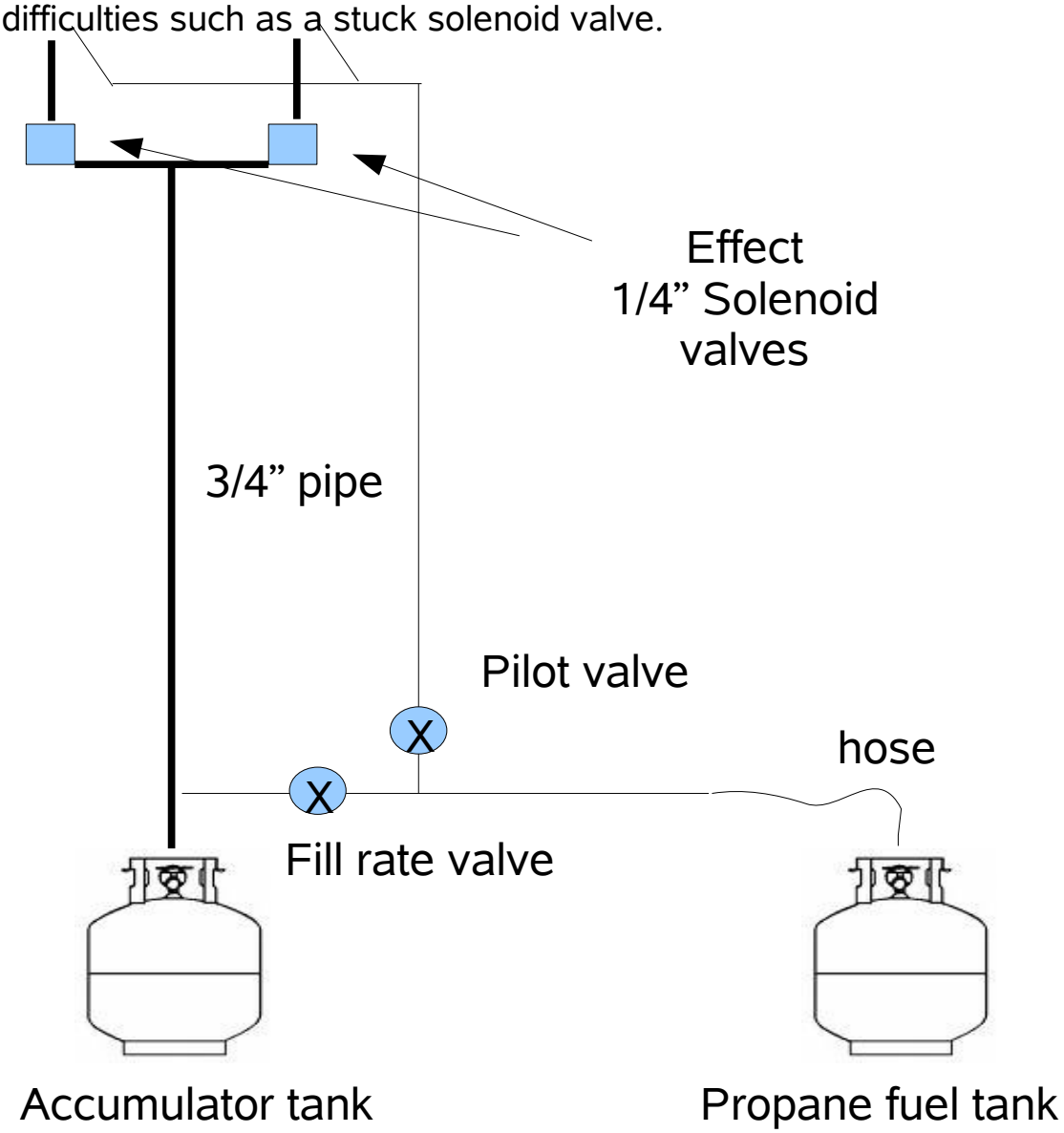
RoboShaw's Flame Effects Plan

Roboshaw's fire effect is a pretty standard example of a solenoid controlled propane flare. There are two solenoid valves at the top of a mast at the front of RoboShaw (just behind the engine; see http://smaalders.net/barts/bm2006/roboshaw2006_photos.html).

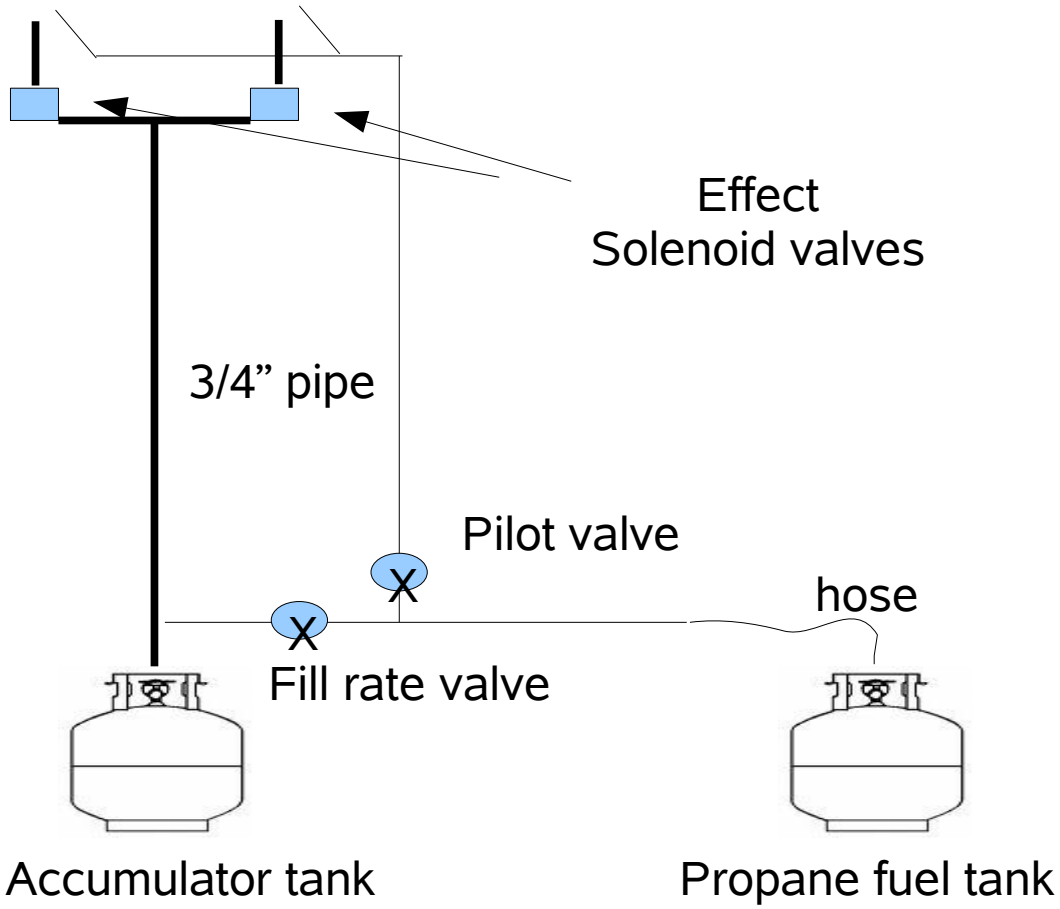
The propane source is an accumulator tank (a propane tank with the valve removed), which is fed by a standard 5 gallon propane tank through a valve. When desired, the operator can discharge stored propane from the accumulator tank by activating the solenoid valves at the top of the mast. The flares are ignited by pilot flames.

All fittings, valves and pipes are suitable for propane service, with pressure ratings of 200 psi or above and propane-compatible seals..

I propose to use the tank shutoff valves to shutoff the propane flow in case of difficulties such as a stuck solenoid valve.



All valves, pipe, tubing, hose, etc, rated for propane service (200 psi).



RoboShaw's 2007 Flame Effects Plan