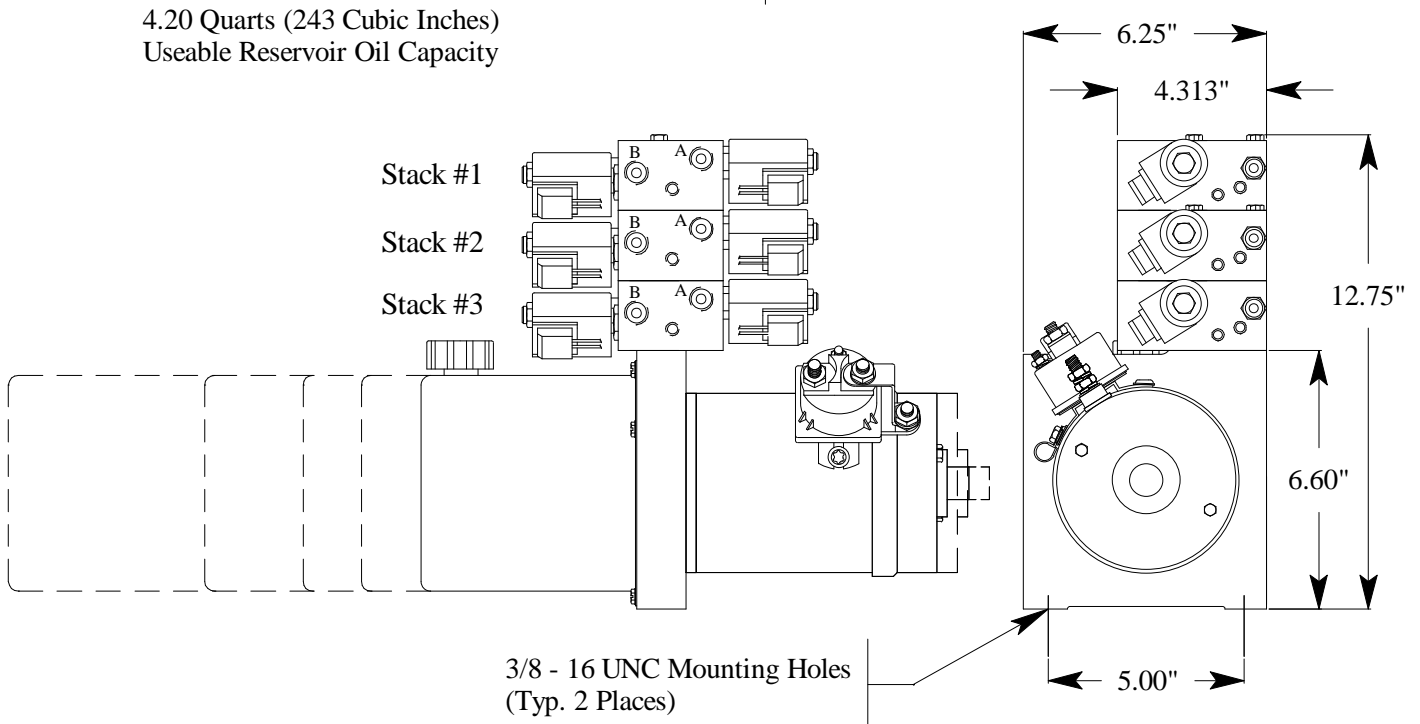
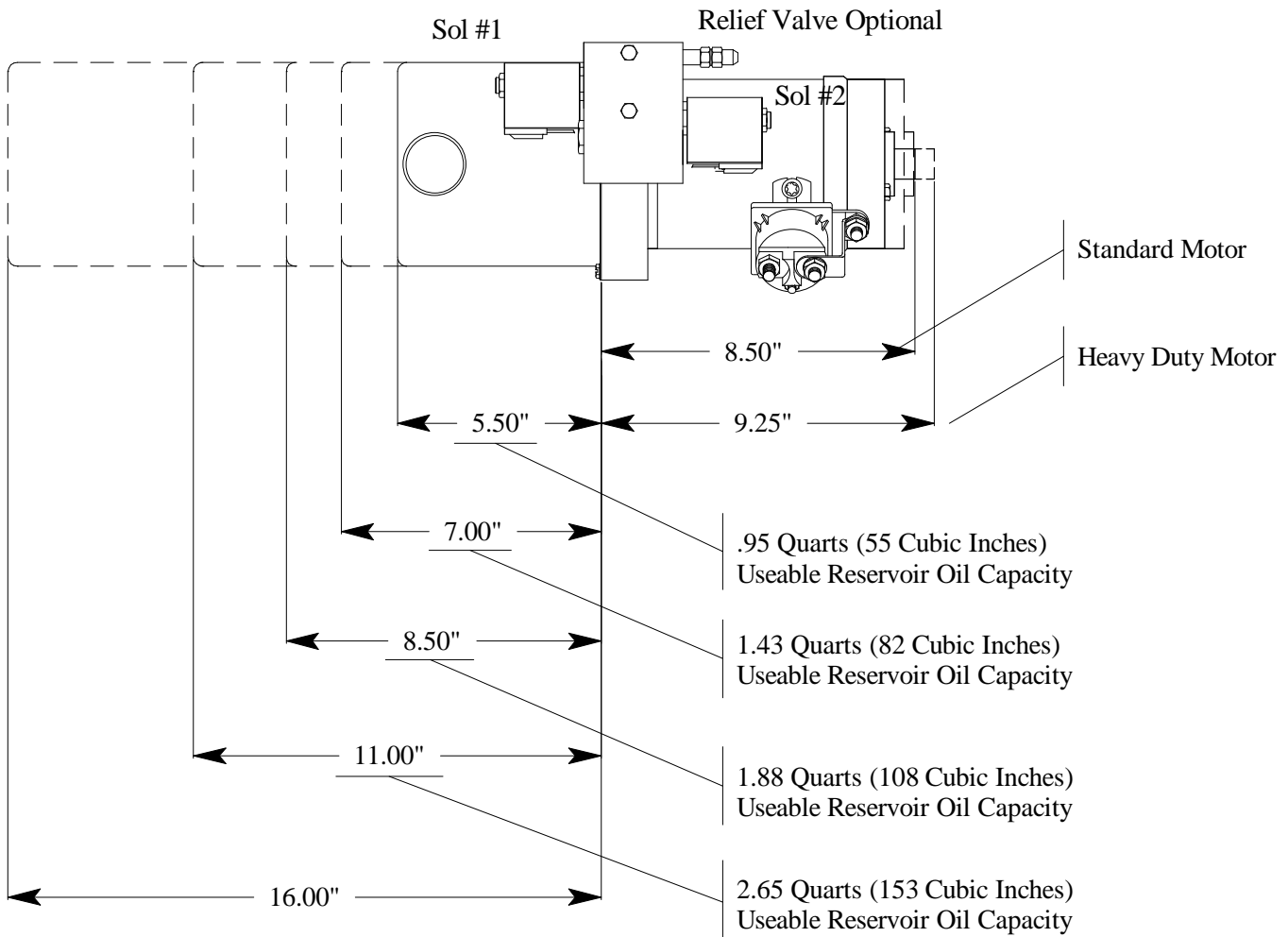


# #11/11/11 Stacked Valve – DC Unit Layout

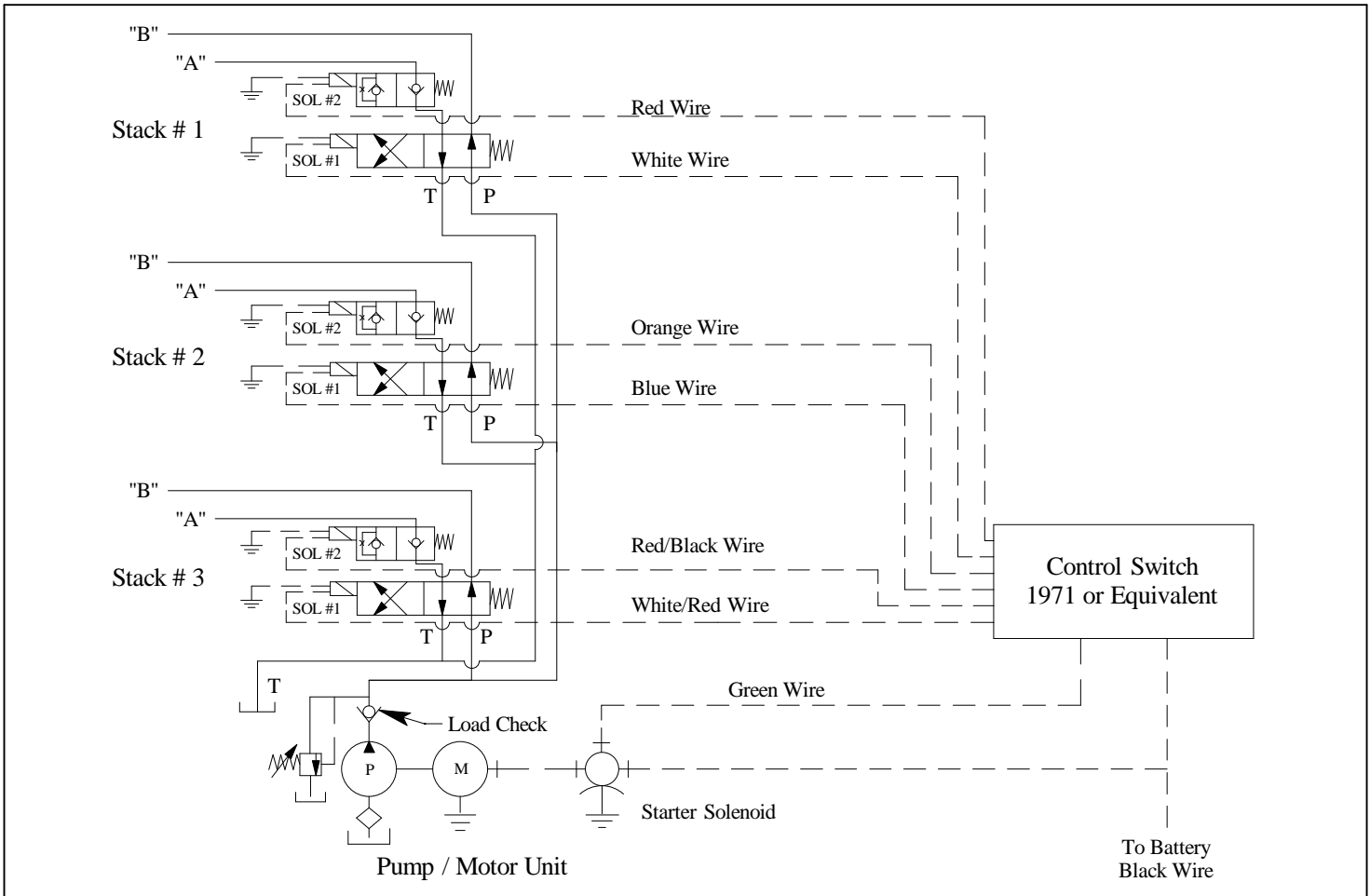


**Description :**

12 Volt DC Piston/Gear Pump unit with Three-stack #11 Valves.

One 4-Way, 2-Position Solenoid Valve and one Solenoid Operated N/C Check Valve in each Stack.

# #11/11/11 Stacked Valve – Schematic



## System Function (Each Valve Stack)

Energizing Power unit and Sol # 1, oil is directed to Port "A" and oil from Port "B" is directed back to tank ("T" Port).

Energizing Power unit and Sol # 2, oil is directed to Port "B" and oil from Port "A" is directed back to tank ("T" Port).

## Application (Each Valve Stack)

1. Power up / Power Down
2. Power extend / Power retract

## Note :

When either one of the #11 valves is actuated, both hoses of the other valves will pressurize. This is normal in this design.

## Valve Characteristics (Each Valve Stack)

1. Uses one 4-way, 2-position spool type cartridge valve and one 2-way NC P.O. poppet type check valve, solenoid operated.
2. Aluminum manifold block machined for one 4-way, 2-position cartridge valve, two 2-way check valves (plugging one cavity in this application) and with two 3/8" NPT Ports.
3. On stack #1, "B" Port Relief is plugged. In applications where a low pressure relief is required on stack valves, a #24 valve is recommended.

## Limitations (Each Valve Stack)

1. When lifting and/or holding a load, use port "A".
2. If valve is used in an application in which a cylinder is to be lowered with a load on it (overriding load), it should be noted that pressure surges can occur in the load holding hose on the valve that is being operated.
3. Horizontal Mounting.