

Pressure and Flow Testing the Steering System

Pump Testing

1. Make necessary gauge/meter connections on pressure line between pump and steering gear.
2. Start engine and check fluid level assuring that oil flow is in proper direction through the flow meter.
3. Place thermometer in reservoir.
4. Steer from lock to lock several times to allow system to warm up. (140 to 160 degrees f.)
5. At idle speed slowly turn the shutoff valve until closed, reading the pressure at which the pressure relief valve opens. Quickly open the valve to avoid heat build up or possible damage.
Caution: If the pressure rises rapidly or is uncontrollable do not completely close the valve. Damage may occur or hoses may rupture.
6. Read the flow at idle and at 1500 rpm in a stationary position. (The flow must not be above the maximum flow specification).
7. At idle turn the steering wheel full left and full right observing the flow rate. (The flow must not drop below the minimum Gallons Per Minute flow specification while turning with a load on the front axle).
8. Normal backpressure will be 50 to 75 PSI with the engine idling and the steering wheel stationary. Check at normal operating temperature