

Gold Cup Compensator Adjustment

Purpose: Instructions for proper field adjustment of compensators on Gold Cup Pumps

Setup:

1. Install pressure gages in ports Ag and Bg, or elsewhere in the main system lines.
2. Configure the system to allow for the pump outlet to be blocked. This may be done by valves or by a lock on the driven fluid motor shaft (brake).
3. If initial start up, back out the compensator adjusting screw (not necessary if changing pressure on an operating system).

Procedure:

1. Start the pump drive. Check to see that the replenishment gage achieves its proper value. This may vary depending upon system requirements, but should be in the range of 200 PSI to 350 PSI.
2. With the system blocked, set the input control to full to pressurize the forward pressure port. (Ag or Bg).
3. The unit will now be operating on the compensator. The pressure may be now adjusted. Remove the acorn nut and loosen the locknut. To increase pressure, turn the adjusting screw CW, to decrease turn it CCW, until the desired pressure is achieved. Tighten the locknut and replace the acorn nut. Check on the opposite side if the drive is reversible. This should show the same pressure as the forward side +/- 200 PSI.

Note: $\frac{1}{2}$ turn of the adjustment screw will give approximately 1000 PSI pressure setting change.

