

# **H** TECHNICAL PROCEDURE

**HAS 120/150/190/210/230/40LH  
400/402/460 & HPS ParaSteer**

**NO:** 17730-239

**SUBJECT:** Height Control Valve Inspection

**DATE:** January, 2000

**REVISION:** A

## PREVENTIVE MAINTENANCE

### AIR FITTINGS INSPECTION

1. If an air leak is suspected, begin by building up the air system to normal operating pressure.
2. Spray all nylon tube air fittings with a soapy water solution to detect the leak location.
3. Detected leaks at nylon tube fittings can be corrected by tightening the fittings until only two threads show on the fittings.

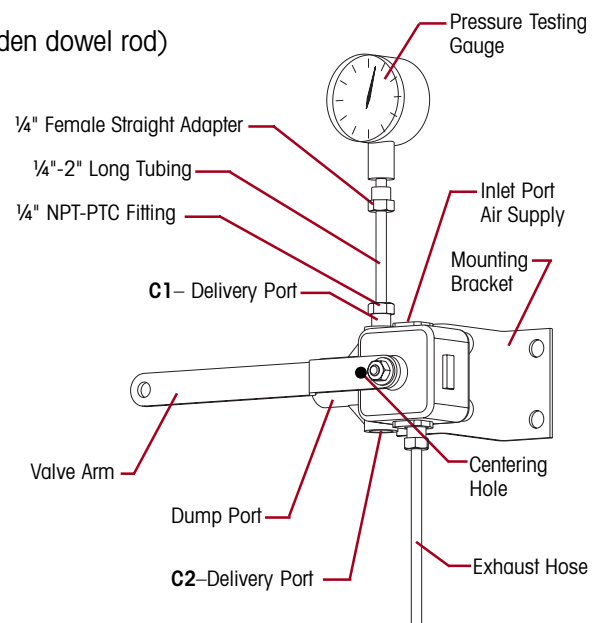
### HEIGHT CONTROL VALVE TEST

The height control valve (H Part No. 57977-) test can be done with Barksdale Field Test Kit No. KD 2250. If the Barksdale Inc. kit is used follow their instructions.

If using shop tools you will need the following for proper testing:

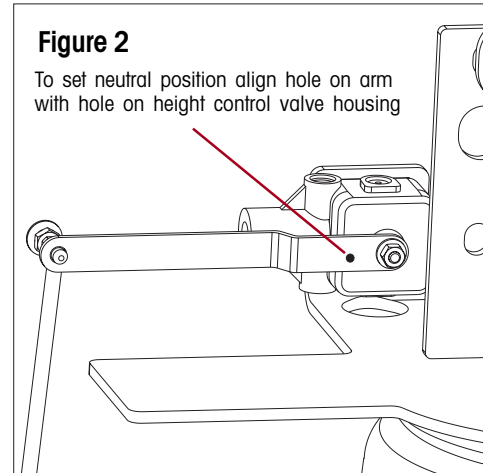
- 160 pound minimum gauge that has 5 pound graduation marks with a 1/4" male brass connection
- 2" long -1/4" Tubing inserted into brass connection of gauge
- 1/4" Female straight adapter that mates to 1/4" air hose
- 1/4" NPT-1/4" PTC Fitting
- 1/4" NPT Plug
- Centering Pin (1/8" wooden dowel rod)
- Tool for air line removal

**Figure 1**



## INSTRUCTIONS

1. Disconnect the height control linkage from the height control valve arm.
2. Rotate valve arm down to exhaust air.
3. Clean area around air fittings.
4. Disconnect the air lines from the air springs to the valve, at C1 and C2.
5. Plug C2 port.
6. Attach gauge tubing on C1 port, as shown in Figure 1.
7. Apply lubricant on tubing end to facilitate installation.
8. Move handle up to FILL mode. This pressurizes the test valve/gauge.
9. Move valve arm towards center and install centering pin in holes on the valve arm and the valve housing, as shown in Figure 2. Care must be exercised so as not to overshoot the center (blocked) mode of the valve as this will cause the test volume to be exhausted.
10. Note pressure reading on gauge.
11. Observe pressure reading for a period of 30 seconds.
12. Refer to chart below (Figure 3) for maximum allowable pressure drop vs. inlet pressure in 30 seconds. Valve is good if pressure drop does not exceed maximum allowable.
13. Replace valve if maximum allowable pressure drop is exceeded.
14. Reconnect linkage and bag lines to valve cylinder ports.



## NOTE

If valve meets all the above characteristics, the valve is operating properly. Do not attempt to disassemble or repair valve as this will void warranty.

