

Changes For HBLT Version 2.40

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The major change for this version is the support for Pressure Manager control of an HBLT with a Smart Manifold attached. See the document Pressure Manager Upgrade To Support The Smart Manifold, March 31, 2005 for the upgrade design goals.

This version makes the following changes:

1. Enabled the HBLT to receive commands from and send status to Pressure Manager supporting the Smart Manifold. This allows Pressure Manager to run tests and scripts that support the Smart Manifold.
2. Added support for the following new script commands:

CYCLE+1
MANIFOLD COMPLIANCE
MANIFOLD COUNT
MANIFOLD CUTOFF PSI
MANIFOLD LEAK DELAY
MANIFOLD LEAK MAINTAIN
MANIFOLD LEAK TARGET
MANIFOLD MODE
MANIFOLD PURGE RATE
MANIFOLD TIMEOUT
VACUUM POSITION

3. Added a busy icon to HBLT screens that are related to motor movement. When the motor is idle, the icon changes from a small box to a large box in steps. When the motor is applying pressure/filling, successive bar increase in height creating a sloping up image. When the motor is removing pressure/drawing more water, successive bars decrease in height creating a sloping down image.
4. Added pressure releases (burps) at various locations to prevent unwanted squirts when a Smart Manifold valve opens.
5. Added an adaptive fill when a Smart Manifold is used in parallel mode. This feature fills using the fill rate times the number of open ports. This value is capped by the maximum allowable purge rate.

Customer changes in the *HBLT* application from version 2.31 to version 2.40

6. When dropping pressure to a negative value, the HBLT takes multiple strokes if needed to reach the negative pressure.
7. When hunting for a burst or leak on a Smart Manifold, remove the pressure from all ports prior to the hunt.
8. Added the ability for Pressure Manager to force the HBLT back to the main menu screen.