

MACHINE SOLUTIONS INC.



USER MANUAL

HYDRAULIC BURST/LEAK TESTER HBLT VACUUM PURGER



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Introduction

The Crescent Design Vacuum Purger is an accessory for the Hydraulic Burst Leak Tester. It assists in purging the HBLT system of air prior to use for testing. The vacuum applied to the HBLT outlet significantly improves the removal of air during purging, resulting in increased performance and test repeatability.

It consists of the 2 items:

- A handheld vacuum pump
- A Vacuum container and gauge assembly, which displays the vacuum created and stores the liquid which is purged with the air from the HBLT during purging

Installation

Connect the handheld vacuum pump charger to a mains power source.

Purging the HBLT

- 1) Remove the fitting adapter from its storage location with the release button as shown



- 2) Connect the fitting adapter to your HBLT as shown or at the outlet end of the plumbing furthest from the HBLT.



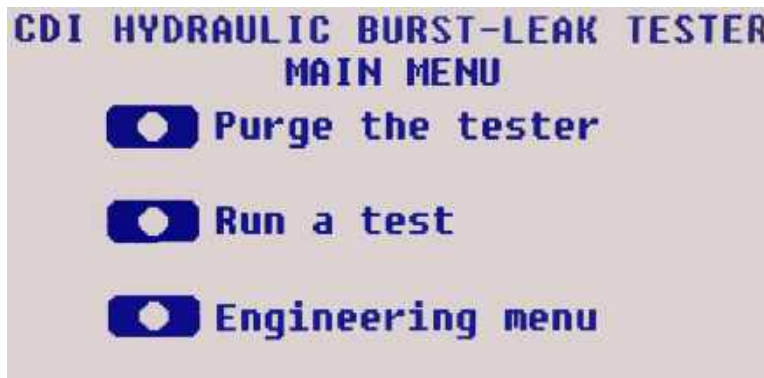
- 3) Evacuate the container by placing the pointed nose of the handheld vacuum pump in the hole at the top of the container. Push down and depress the trigger on the pump. Run the vacuum pump until the gauge indicates below 15 PSI of vacuum.



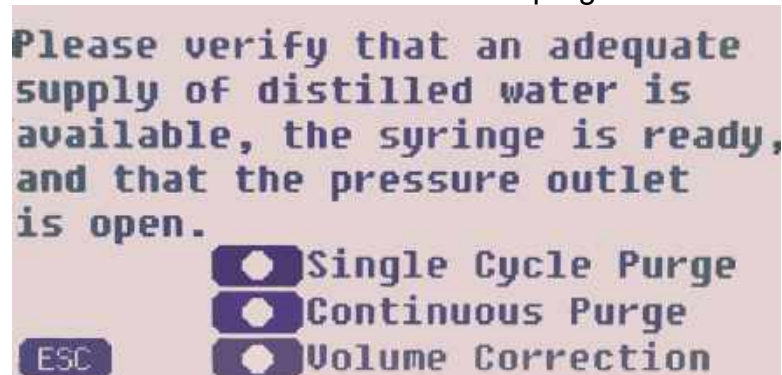
- 4) Connect the white quick disconnect fitting from the Vacuum Purger, as shown. If you have additional plumbing connected to the outlet of your HBLT or Smart Manifold, connect the fitting adapter to the point furthest from the HBLT. Connect the fitting adapter to the HBLT first - then attach the white quick disconnect fitting. Failure to do this causes a loss of vacuum.



- 5) Begin a purging cycle on the HBLT. This will begin cycling liquid into the vacuum container. Press the Purge the tester button on the main menu.



- 6) Press the Continuous Purge button to start the purge process. Press the Stop button when satisfied that all air has been purged from the HBLT.



- 7) Push the vent button **first** and then disconnect the fittings. Failure to vent before disconnecting the fittings results in air leaking back into the HBLT.



- 8) Remove the lid and empty the contents.

NOTE: Remove any water in the collection container before it reaches the top. If water is drawn into the vacuum pump, it is likely to be damaged.