

**HIGH PRESSURE HAND PUMP
OPERATING INSTRUCTIONS****WARNING:**

- ◆ **PRESSURE TESTING IS INHERENTLY DANGEROUS. STRICT ADHERENCE TO THESE OPERATING INSTRUCTIONS AND INDUSTRY SAFETY PRACTICES COULD PREVENT INJURY TO PERSONNEL**
- ◆ **ALL PERSONNEL MUST BE CLEAR OF TEST AREA WHEN PRESSURE TESTING FOR SAFETY, AN INCOMPRESSIBLE LIQUID SUCH AS WATER SHOULD BE USED AS THE TEST MEDIUM.**

PRIOR TO USE:

- ◆ Ensure the reservoir is filled with either water or oil.
 - ◆ Ensure a suitable high pressure hose is connected to the outlet connection labeled FLUID OUT on the backside of the pump.
 - ◆ Ensure the PRESSURE RELEASE valve is closed (turn clockwise).
1. Remove the handle from the storage rings and place on the LOW PRESSURE pump.
 2. With the PRESSURE RELEASE closed, pump the LOW PRESSURE pump to remove any residual air in the system.
 3. Connect the outlet hose to the test object, ensuring all connections are leak-tight.
 4. After all appropriate connections have been made proceed with pumping the LOW PRESSURE pump, until either the gauge reads 1,000 PSI or until there is high resistance in the handle.
 - 5a. If a higher test pressure is required, move the handle from the LOW PRESSURE pump to the HIGH PRESSURE pump.
 - 5b. Continue to pump until the gauge reads the desired test pressure or 10,000 PSI max.
 6. Upon completion of testing, release the pressure by slowly opening the PRESSURE RELEASE valve (turn counter-clockwise) until the gauge reads 0 PSI.

QUESTIONS? Contact EST Group Customer Service at any of the following locations with questions.

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EST Group is a business unit of Curtiss-Wright Flow Control Company. EST Group provides a complete range of repair products, services and replacement parts covering the life cycle of tubular heat exchangers and condensers; additionally EST Group provides products and services to facilitate pressure testing pipe, piping systems, pressure vessels and their components. Visit EST Group on the Internet at <http://estgroup.cwfc.com>.



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