



## SCREWED BONNET NEEDLE VALVES H-99

### 1. Use

For maximum valve life, use the valve only within the stated pressure and temperature range, and in accordance with the corrosion resistance of the material.

### 2. Operation

To open the valve, rotate the handle until it comes in contact with the lower gland. This will allow maximum flow through the valve.

To close the valve, rotate the handle until the stem tip comes into contact with the seat.

Do not use excessive force when closing the valve. Excessive torque applied to the handle may damage both the seat and the stem tip.

### 3. Cleaning The Valve

Liquids can be trapped within the valve.

If the valve has been used with hazardous media, it must be de-contaminated before disassembly.

All personnel involved in the removal and disassembly of the valve should wear appropriate protective clothing, such as face shields, aprons, gloves, etc.

### 4. Replacing Seat and Stem Seals

If there are signs of leakage through the stem area, and further adjustment is not possible, replace the stem seal.

If there are signs of leakage across the seat, replace the stem.

### 5. Procedures Disassembly

With the valve clamped firmly in a vise:

- Remove the set screw (1) with the appropriate Allen wrench, and remove the handle (2).
- Remove the packing bolt (3).

- Rotate the stem counter clockwise until the stem is free from the body.

**Note:** The stem will be complete with upper gland (4) the packing (5).

- Clean and inspect all metal parts for nicks, scratches, etc., particularly the stem tip and the valve seat. Discard any parts that are damaged, and replace them with authorized HAM-LET parts.

- Discard the stem packing and replace it with authorized HAM-LET parts.

#### Re-Assembly

Reverse the steps above, taking care to lubricate all parts with an appropriate lubricant.

**Note:** Factory valves are tested at 1,000 psig using N<sub>2</sub>. No leakage from the seat or the stem is allowable after 1 minute with the valve immersed in water.

### 6. Installation

#### Disassembly

- On taper threads, use a conventional thread sealant such as PTFE tape or an appropriate alternative that is compatible with the application.

- Apply a wrench to the body and connecting nut. Do not use the handle to tighten the connection. LET-LOK® Valves

- Ensure the tubing is cut square and that it is de-burred.

- Ensure the tubing is located firmly in the connection.

- From the finger-tight position, rotate the nut a full 1 1/4 turn.

**Note:** For sizes 3/16 inch (4mm) or less, rotate the nut 3/4 turn only.

- Apply a wrench to the body and connecting nut. Do not use the handle to tighten the connection.

