**OPERATING INSTRUCTIONS**

**Operating Instructions:**

Connecting Action:
1. Place lever in the in-line position then insert connector onto test piece. Make sure test piece is inserted to the required minimum insertion length (see chart). This will ensure proper location relative to the main seal.

2. Rotate lever 90 degrees to the grip and seal position.
   - Note: Preferred position of lever as shown with test media port on top.

3. Introduce test media through test port.

Disconnecting Action:
1. Vent test media pressure.
2. Rotate lever to the in-line position to release gripping action.
3. A slight forward motion of the connector toward the test piece opens the locking collets.

4. Remove connector.
   - Note: The safety design of the pressure assisted gripping collets will not release under pressure.

CAUTION: If excessive operating force or stiffness of the collet/seat assembly is noted, remove collet/seat assembly (See Collet Set Removal and Installation:) and check for alignment and lightly lube the bore of the housing with a petroleum jelly or other compatible lubricant.

**Dimensional Information:**

![JXL EXTERNAL LEVER ACTION NuJaws Diagram]

<table>
<thead>
<tr>
<th>BODY SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>MAX FLOW D</th>
<th>L</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>JXL0</td>
<td>7.25</td>
<td>3.65</td>
<td>1.12</td>
<td>4.13</td>
<td>24</td>
<td>70</td>
<td>1/8-27 NPTF</td>
</tr>
<tr>
<td>JXL1</td>
<td>7.25</td>
<td>3.58</td>
<td>1.02</td>
<td>4.22</td>
<td>27</td>
<td>85</td>
<td>1/4-16 NPTF</td>
</tr>
</tbody>
</table>

**Collet Installation:**

1. First step, assemble collet segments (D) and retaining rings (C), form two pieces of collets into a half-circle and hold between thumb and middle finger. The raised portion of the collets should face toward your thumb with the retaining ring groove facing out.
2. Place the retaining rings (C) into the grooves in collets.
3. Add the last two pieces of collets to form a circle. Hold collet assembly together in one hand.
4. Stack as shown. Set the collet assembly, largest side down, on the washer.
5. Place housing (A), threaded side first, over the completed collet assembly stack.
6. Slide the housing/collet assembly to the edge of the table and as you slide it off the edge use your index finger to hold the seal/collet assembly in place inside housing.
7. Push on the seal, washer and collet assembly from the back to move it to the front of the housing.
8. Turn housing over so that the threaded end is pointed up and screw connector body onto housing. Tighten hand tight until the body o-ring (G) seats. The piston assembly that contains the test port may also rotate. This can be realigned after the housing is snug.
9. If collets are not aligned properly in the seal casing, the casing will not thread on completely. When this occurs, loosen the housing and adjust the collet assembly, you may have to start procedure again from step #1 above.
10. With collet in place and housing snugly tightened, rotate the lever to actuate connector. Visually verify that the connectors gripping and sealing action is correct.

**Collet Set Removal and Installation:**

**Collet Removal:**
1. Place lever in the in-line position with housing (A) pointed downward, unscrew from body (B). Use finger to keep main seal (F), washer (E), collets (D) and retaining rings (C) inside housing (A).
2. Keeping all components inside housing place housing on flat surface then lift housing off of internal components.
3. Collet set components are now exposed for inspection or replacement.

**Continued on other side...**
OPERATING INSTRUCTIONS

11. Attach assembled Nulaws connector to a test piece and tug on the connector to assure proper engagement and gripping of the collet before introduction of pressurized test media.

Main Seal Removal and Installation:

Removal:
1. Place lever in the in-line position so that seal/collet assembly is in the relaxed position, with housing (A) pointed downward, uncoiled housing from body (B). Spring assembly remains in body.

2. Place housing (A) flat on table with threads up, using a pointed repair tool, push main seal (F) out of housing (A). Washer (E) and collets (D) remain inside housing (A).

3. Verify correct size and material of replacement main seal.

4. Lightly lubricate O.D. of main seal and I.D. of the housing with an o-ring lubricant such as petroleum jelly or other compatible lubricant.

Installation:
5. Place replacement main seal (F) bevel side up into housing and slide it down against washer (E).

6. Screw body (B) into housing (A). Tighten hand tight until the body o-ring (G) seals. The piston assembly that contains the test port may also rotate. This can be resized after housing (A) is snug.

7. Rotate lever to activate connector. Visually verify that the connector gripping and sealing action is correct.

CAUTION: Attach assembled FastTest connector to a test piece and tug on the connector to assure proper engagement and gripping of collet before introduction of pressurized test media.

Safety Warnings – General Guidelines:

1. If instructions are not completely understood by operator or components are missing, contact FastTest before attempting use of the connector.

2. All operating parameters should be considered when connector selection is made. Parameters include, but are not limited to: dimensional tolerance, hardness and surface finish of test piece, pressure or vacuum requirements of application, fluid compatibility, temperature, environment and mechanical load or vibration affecting the connector.

3. FastTest XJL Connectors must only be used with test pieces of a specific size as indicated by the part number. Improper use could cause separation of the connector from the test piece resulting in physical harm or damage. The connector part number and maximum pressure rating is marked clearly on the label.

4. CAUTION REMINDER: Keep fingers or other objects away from gripping collets when actuating connector. Pinching or crushing can occur. FastTest XJL Connectors are not internally valved, and will not prevent loss of media when disconnected. Do not attempt to disconnect unless safe conditions are met.

Connector Maintenance:
- A daily, weekly and periodic inspection of the connector by competent person is recommended. User must establish a regular interval for maintenance as determined by the user media and operational environment.

- Lubricate connector on regular intervals. Petroleum jelly is recommended but care should be taken to verify the lubricant is compatible with the application.

- Inspection should include visual checks of the collet seating area, housing, missing or loose components, leak tightness, ease of operation, sufficient lubrication, wear, dirt accumulation and damage.

- Use only original FastTest spare parts that are designated for the application and are subject to strict quality control. See warranty.

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Nulaws JXL Lever Action Grip and Seal Connectors.

DESCRIPTION: XJL Series Connectors seal on the outside diameter of tubes. Instant External Connections to 1,000 psi.

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FastTest, Inc. Product Warranty

FastTest, Inc. warrants its products against defects of workmanship and material for 12 months from the date of the sale by FastTest, Inc. This warranty is void if the product is misused, tampered with, or used in a manner that is not in accordance with FastTest, Inc. recommendations and/or instructions. FastTest, Inc. is not liable for consequential or other damages including, but not limited to, loss, damage, personal injury, or any other expense directly or indirectly arising from the use of or inability to use its products within their specifications or in combination with other products. ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, WHETHER ORAL OR WRITTEN, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. FastTest, Inc. may, at its sole discretion, replace the product at no additional charge for the product or repair the product and return the product to the customer at its expense. FastTest, Inc. may also, at its sole discretion, refund the purchase price of the product. The customer shall return the defective product to FastTest, Inc. at the customer's expense. This warranty is limited to replacement of the product or an account credit in the amount of the original selling price at the option of FastTest, Inc. All alleged defective products must be returned prepaid transportation to FastTest, Inc. along with information describing the products performance, unless disposition in the field is authorized in writing by FastTest, Inc.