Locking Devices
For Quadra-Powr® II and Quadra-Powr X
Actuators

Installation, Maintenance and
Operating Instructions
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READ THESE INSTRUCTIONS FIRST!

This instruction manual contains important information regarding the installation, operation, and troubleshooting of the Jamesbury® Locking Devices for Quadra-Powr II and Quadra-Powr X Actuators. Please read these instructions carefully and save them for future reference.

SAVE THESE INSTRUCTIONS!

Subject to change without notice.
1 GENERAL

This instruction manual contains important information regarding the installation, maintenance and troubleshooting of the Jamesbury Locking Devices for Quadra-Powr II and Quadra-Powr X Actuators. Please read these instructions carefully and save them for future reference.

1.1 Warning

1. BEFORE ATTEMPTING TO ASSEMBLE LOCKOUT DEVICE OR REMOVE IT AFTER USE MAKE CERTAIN THAT ACTUATOR IS NOT PRESSURIZED.
2. WHEN LOCKING, SECURING, BLOCKING OR OTHERWISE ISOLATING A LINE OR VESSEL, FOLLOW ALL APPLICABLE LOCAL AND NATIONAL SAFETY CODES.
3. CHECK THE LOCKED ACTUATOR/VALVE FOR THROUGH LEAKAGE UNDER THE EXPECTED LOCKOUT CONDITIONS. TRY TO CYCLE THE ACTUATOR, AND CHECK FOR LEAKAGE THROUGHOUT ANY TRAVEL OF THE LOCKING DEVICE. IF ANY DOUBT, BLANK THE LINE BY INSTALLING SUITABLE LINE BLINDS, BLIND FLANGES, PIPE CAPS, PLUGS, ETC.

2 DESCRIPTION

Jamesbury locking devices are designed to hold Jamesbury Quadra-Powr II and Quadra-Powr X actuators in a fixed close or open position in applications handling hazardous or valuable fluids. Spring to close actuators may be locked closed. Spring to open actuators may be locked open. For standard locking devices refer to (Table 1).

Figure 1

<table>
<thead>
<tr>
<th>QP1</th>
<th>QP2</th>
<th>QP3</th>
<th>QP4</th>
<th>QP5</th>
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<tbody>
<tr>
<td>LD-59</td>
<td>QPX1 and QPX2</td>
<td>QPX3</td>
<td>QPX4</td>
<td>QPX5</td>
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</table>

3 REMOVAL AND STORAGE

1. To remove the locking device, remove the padlock, swing the cover out of the way, loosen (DO NOT REMOVE) the upper jam nut and remove the locking stud.
2. With the locking stud still inserted through the large hole in the center of the locking plate, thread the lower jam nut onto the bottom of the stud. This will secure the stud and nuts for storage.
3. To store the device, insert the attached hole plug firmly into the locking hole. This will plug the hole and store the device for easy reuse (see Figure 3).

4 INSTALLATION

To install these locking devices to Quadra-Powr II and Quadra-Powr X actuators, proceed as follows:

1. Before attempting to assemble lockout devices make certain that the actuator is not pressurized.
2. Remove the hole plug from the lockout hole and discard.
3. Remove the two jam nuts from the stop adjusting studs. Do not turn or loosen studs as this will change the stop location of the actuator.
4. Assemble the nameplate over the stop studs. Reassemble and tighten the jam nuts. Make sure that the nameplate nomenclature that is visible after it is installed, i.e. “Spring To Close” or “Spring To Open,” agrees with the mode of the actuator.
5. Remove the lower jam nut from the locking stud. Store the nut by threading it onto the end of either of the stop studs. Insert the locking stud through the large hole in the center of the lockout plate, thread it into the lockout hole and tighten securely. Tighten the upper jam nut to secure the plate. Pivot the locking cover down until the hole in the cover lines up with the hole in the end of the locking plate.
6. Secure the device with a padlock. A padlock with a 1/4” – 5/16” (6.35 – 7.9 mm) diameter shackle is recommended (see Figure 2).

4 REPAIR KITS/SPARE PARTS

For further information on spare parts and service or assistance visit our web-site at www.metso.com/automation.
### Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NAME</th>
<th>QTY</th>
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<tbody>
<tr>
<td>1</td>
<td>Lockout Plate</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Locking Cover</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Plug</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Locking Stud</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Jam Nut</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Wire Tie</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Nameplate</td>
<td>1</td>
</tr>
</tbody>
</table>

**ACTUATOR LOCKED**  
*Figure 2*

**LOCKING DEVICE STORED**  
*Figure 3*