



**DeZURIK LIFT, TURN AND  
RESEAT LEVER ACTUATORS**  
USED ON PTW & PFW TAPERED PLUG VALVES

Instruction **D10190**  
August 2012

# DeZURIK

## Lift, Turn and Reseat Lever Actuators

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### Instructions

These instructions provide information about Lift, Turn and Reseat Lever Actuators. They are for use by personnel who are responsible for installation, operation and maintenance of Lift, Turn and Reseat Lever Actuators.

### Safety Messages

All safety messages in the instructions are flagged with an exclamation symbol and the word Caution, Warning or Danger. These messages indicate procedures that must be followed exactly to avoid equipment damage, personal injury or death. Safety label(s) on the product indicate hazards that can cause equipment damage, personal injury or death. If a safety label becomes difficult to see or read, or if a label has been removed, please contact DeZURIK for replacement label(s).



#### **WARNING!**

**Personnel involved in the installation or maintenance of valves should be constantly alert to potential emission of pipeline material and take appropriate safety precautions. Always wear suitable protection when dealing with hazardous pipeline materials. Handle valves, which have been removed from service with the assumption of pipeline material within the valve.**

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### Inspection

Your Lift, Turn and Reseat Lever Actuator has been packaged to provide protection during shipment; however, it can be damaged in transport. Carefully inspect the unit for damage upon arrival and file a claim with the carrier if damage is apparent.

### Parts

Recommended spare parts are listed on the assembly drawing. These parts should be stocked to minimize downtime.

Order parts from your local DeZURIK sales representative, or directly from DeZURIK. When ordering parts, please include the 7-digit part number and 4-digit revision number (example: **9999999R000**) located on the data plate attached to the valve assembly. Also include the part name, the assembly drawing number, the balloon number and the quantity stated on the assembly drawing.

### DeZURIK Service

DeZURIK service personnel are available to install, maintain and repair all DeZURIK products. DeZURIK also offers customized training programs and consultation services.

For more information, contact your local DeZURIK sales representative or visit our website at [www.dezurik.com](http://www.dezurik.com).

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## Lift, Turn and Reseat Lever Actuators

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### Description

The Lift, Turn and Reseat Lever operator provides the most economical means of actuating the PTW and PFW Tapered Plug Valves. Standard mounting positions for lever operators on standard plug options are shown in Figure 1.

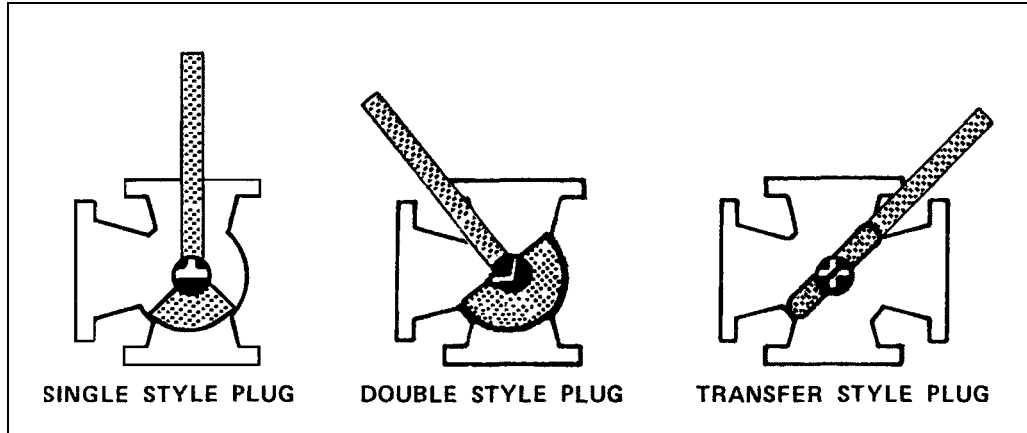


Figure 1 - Standard Mounting Positions for Lever Operators

### Operation

To actuate the valve using the lever operator, follow these steps:

1. Turn the 'Tee' handled locking screw counterclockwise two full revolutions.
2. Lift the lever to unseat the plug, then move the lever to position the plug so the desired flow path is obtained.
3. Push the lever down to seat the plug.
4. Tighten the 'Tee' handled locking screw against the adaptor flange to lock the valve in this position.

### Actuator Removal

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#### **WARNING!**

**When a tapered plug valve is mounted in a vertical pipeline—or mounted in a horizontal pipeline with the plug stem horizontal—gravity can cause the plug to swing to a lower position in the valve body when the actuator is removed.**

**Place the plug in the lowest position before removing the actuator.**

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1. Turn the 'Tee' handled locking screw counterclockwise one full revolution.
2. Drive out the pin fastening the lever to the plug stem.
3. Lift the actuator from the valve.

## **Actuator Installation**

1. Set the actuator on the valve so the plug stem slides into the cavity in the bottom of the lever. The notch in the lever must surround the flange on the adaptor.
2. Line up the holes in the lever and valve plug, then drive the pin thru the holes.
3. Stake the pin on both ends to prevent it from coming out.
4. Lift the lever to unseat the plug, then move the lever to position the plug to obtain the desired flow path.
5. Push the lever down to seat the plug.
6. Tighten the 'Tee' handled locking screw against the adaptor flange to lock the valve in this position.

## **Changing Actuator Mounting Positions**

1. Remove the actuator as described in the ACTUATOR REMOVAL section of this Instruction Manual.
2. Rotate the actuator 180 degrees from its previous position.
3. Install the actuator on the valve as described in the ACTUATOR INSTALLATION section of this Instruction Manual.