



**DeZURIK HYDRAULIC HAND  
PUMP MANUAL OVERRIDE  
FOR USE WITH ROTARY DIAPHRAGM  
ACTUATORS**

Instruction **D10251**  
August 2012

# DeZURIK

## Hand Pump Manual Override for use with Rotary Diaphragm Actuators

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### Instructions

These instructions provide information about hydraulic hand pump manual overrides. They are for use by personnel who are responsible for installation, operation and maintenance of hydraulic hand pump manual overrides.

### 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 that have been removed from service with the assumption of pipeline material within the valve.**

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### Inspection

Your hydraulic hand pump manual override 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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### **Installation**

The unit is mounted, connected and filled with hydraulic oil at the factory. Install the valve so that the pump is horizontal. If it is necessary to mount the pump vertical, the end with the hose connection must be down. Reposition the pump by changing the valve or actuator mounting position, or by removing the pump from the valve and securely mounting the pump and hose externally from the valve.

### **Operation**

The manual Override has two modes of operation - normal and override – as determined by the positions of the release valve on the pump and the valve in the line between the pump and the ram. In the normal mode, both valves are open, and the diaphragm actuator is positioned by the pneumatic pressure to the actuator. In the override mode, the diaphragm actuator is positioned by the ram and the hand pump.

#### ***To Change from the Normal Mode to the Override Mode***

1. Close the valve on the pump by turning the lever to the clockwise position.
2. Leave the valve in the line open.
3. Pump the hand pump, and move the actuator and valve to the desired position.
4. Close the valve in the line to lock the actuator in position.

#### ***To Change from the Override Mode to the Normal Mode***

1. Open the valve on the pump by turning the lever to the counterclockwise position.
2. Open the valve in the line open,

### **Maintenance**

Apply lubricant annually to all pivot and rubbing points on the pump. Use a good grade of No. 10 motor oil or grease. Do not use dry lubricants.

Air can accumulate in the hydraulic system during setup or after prolonged use, and can cause the ram to be unstable, or to respond slowly. To remove the air, follow these steps:

1. Remove the ram from the actuator and position the ram at a level below the pump.
2. Loosen the filler cap on the pump.
3. Extend and retract the arm several times without putting a load on the system. Air will be released through the pump reservoir.
4. Tighten the filler cap on the pump.
5. Replace the ram on the actuator.