Instructions
These instructions provide information about PEC Eccentric Valves. They are for use by personnel who are responsible for installation, operation and maintenance of PEC Eccentric Valves.

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).

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 suitable protection for any potential pipeline material in the valve.

Inspection
Your PEC Eccentric Valve 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) and serial number 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.
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DeZURIK
4–20” PEC Eccentric Valves

Description
The 4 – 20” PEC Eccentric Valves have welded nickel seats that provide excellent resistance to corrosion and damage, and prolong the life of the resilient plug facing. The valve rotates 90 degrees from full open to full closed. Clockwise rotation of the valve stem closes the valve. If an actuator other than a DeZURIK is to be mounted, the actuator must be capable of maintaining the valve plug position with flow in the pipeline.

⚠️ 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 suitable protection for any potential pipeline material in the valve.

Handling
Lifting the valve improperly may damage it. Do not fasten lifting devices to the actuator, plug or through the seat opening in the body. Lift the valve with slings, chains or cables fastened around the valve body, or fastened to bolts or rods through bolt holes in the flanges.

Required Tools
This valve is assembled using only SAE fasteners. To service this valve, you should have a full set of combination wrenches, Allen wrenches, a large flat tipped screwdriver, a flat pry bar, a pin punch and a dead blow hammer.

Note: You may want to machine a shaft to aid you in removing the lower bearing from the body. See "Disassembly" section.

Installation
The type of materials carried in the pipeline and the location of the valve determine the correct installation procedure. Proper installation of PEC Eccentric Valves with rubber lining and rubber faced flanges is without gaskets. The rubber facing on the valve flanges is an integral flange seal.

Rust Veto may be removed with the use of Houghton Kleensol #4 or petroleum solvent.

Liquids and Gases
1. Before installation, remove foreign material such as weld spatter, oil, grease, and dirt from the valve and pipeline.

Install the valve as shown in Figure

The valve may be installed with the plug shaft vertical or horizontal. The preferred position is with the plug shaft horizontal with the plug up when open.

The word "SEAT" is cast on the seat end of the body.
Installation (continued)

2. Ensure the valve and flanges are concentric to ensure proper flange sealing.
3. Tighten the flange bolts or studs in a crisscross pattern.

Suspected Solids

If the pipeline carries suspended solids such as paper stock of 2 percent or higher consistency, mining slurry, or raw sewage:

1. Before installation, remove foreign material such as weld spatter, oil, grease, and dirt from the valve and pipeline.
2. Install the valve as shown in Figure 2.
   a. In HORIZONTAL pipelines, install the valve so that the plug is horizontal and rotates upward as the valve opens.
   b. For VERTICAL pipelines, install the valve with the end marked “SEAT” at top of valve.

3. Tighten the flange bolts or studs in a crisscross pattern.
4. Ensure the valve and flanges are concentric to ensure proper flange sealing.
Fusion/Powder Coated Valves

⚠️ **CAUTION!**

Valves with fusion/powder coated exterior paint require flat washers to be installed under the flange nuts when installing the valve to the pipeline flange to prevent the paint from cracking or chipping.

Closed Position

Because of the eccentric action of this valve, the closed position of the valve is dependent upon the pressure drop expected when the valve is closed.

To adjust the valve closed position, follow these steps:

⚠️ **WARNING!**

This valve is a pressure vessel. The bonnet will blow off the actuator if the bonnet bolts are removed with pressure in the valve. Completely release pressure before disassembling the valve.

1. Relieve pipeline pressure.

⚠️ **WARNING!**

Moving parts from accidental operation of power actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

2. If the actuator is powered, disconnect and lock out the pneumatic, hydraulic, or electrical power to prevent accidental operation of the actuator.
3. Back off the actuator closed position stop as described in the Actuator Instructions.
4. Close the valve with the torque specified in the Actuator Instructions.

*Note:* This torque is the amount required to seat the plug for a given pressure drop across the valve. To avoid excessive plug and seat wear caused by over torquing, use the actual pressure drop across the valve when determining correct closing torque.

5. After the valve has been closed using the correct amount of torque, set the actuator closed position stop to limit actuator travel at this position.

Lubrication

This valve does not require routine maintenance lubrication. If the valve is disassembled, lubricate the packing and the plug journals as follows:
Packing

Packing lubrication requirements are dependent upon the packing material.

- **PTFE PACKING:**
  Requires no lubrication.

- **ALL PACKING OTHER THAN PTFE:**
  Apply a light coat to the inside and outside diameters of the packing rings using one of these lubricants.
  - Lubriplate Clearplex-2 (**recommended**)
  - Amoco FG (alternate)
  - Mobilgrease FM 101 (alternate)
  - Petro-Canada Purity FG 2 (alternate)
  - Phillips Philube PF (alternate)

  **Note:** Ensure lubricant is compatible with flow media.

Plug Journals and Lubrication

Plug journal lubrication is dependent upon the materials used in construction of the valve.

- **CAST IRON, DUCTILE IRON, NI-RESIST, BRONZE AND ACID BRONZE VALVES:** Lubricate the journals on the plug using one of these lubricants.
  - Lubriplate Clearplex-2 (**recommended**)
  - Amoco FG (alternate)
  - Mobilgrease FM 101 (alternate)
  - Petro-Canada Purity FG 2 (alternate)
  - Phillips Philube PF (alternate)

- **ALL VALVES EXCEPT CAST IRON, DUCTILE IRON, NI-RESIST, BRONZE, & ACID BRONZE:** Coat the journals on the plug with a light coat using one of these lubricants.
  - Dow Corning Molykote G Rapid paste (**recommended**)
  - Shell Retinax AM (alternate)
  - Shell Lithall MDS (alternate)

Then lubricate with a mixture of powdered graphite and one of these lubricants.
  - Standard Oil #140 Gear Lube (**recommended**)
  - Mobil Mobilgear 634 (alternate)
  - Shell Omala 460 (alternate)
  - Texaco Meropa 460 (alternate)
  - Amoco MP (alternate)

- **HARD RUBBER LINED VALVES:** Lubricate the journals on the plug using one of these lubricants.
  - Dow Corning Molykote #44 (**recommended**)
  - Magnalube G (alternate)
  - Texaco Molytex E.P. Grade 2 (alternate)
Lubrication *(continued)*

**Grit Excluders/ Thrust Washer**

Apply a light coat to all surfaces of grit excluders and thrust washer using one of these lubricants.

- Lubriplate Clearplex-2 *(recommended)*
- Amoco FG (alternate)
- Mobilgrease FM 101 (alternate)
- Petro-Canada Purity FG 2 (alternate)
- Phillips Philube PF (alternate)

*Note: Ensure lubricant is compatible with flow media*

**Packing Adjustment**

The stem seal tightening procedure is dependent upon the type of actuator on the valve. If a packing leak should occur, tighten the packing as follows:

**4 – 8" Lever and Nut Operated Valves**

1. Loosen the nuts under the packing gland
2. While actuating the valve with a torque wrench, tighten the nuts on top of the packing gland until the torque required to actuate the valve matches the torque shown in Table A.

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Actuating Torque</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Packing</td>
<td>Low Friction Packing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ft lbs</td>
<td>Nm</td>
<td>ft lbs</td>
</tr>
<tr>
<td>in / mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 / 100</td>
<td>28</td>
<td>37</td>
<td>14</td>
</tr>
<tr>
<td>5-6 / 125-150</td>
<td>60</td>
<td>81</td>
<td>30</td>
</tr>
<tr>
<td>8 / 200</td>
<td>104</td>
<td>141</td>
<td>52</td>
</tr>
</tbody>
</table>

3. Once the torque is matched, tighten the nuts under the packing gland.

*Note: If the packing leaks following this adjustment, replace the packing.*

**10" and 12" Lever Operated Valves**

Tighten the nut on top of the housing until the spring is approximately 3/4 compressed.

*Note: If packing leaks when the spring is fully compressed, replace the packing.*

**All Other Actuators**

Tighten the gland nuts evenly only until the leak stops.

*Note: Do not continue tightening after leak stops. If packing leak cannot be stopped by tightening the gland nuts, the packing must be replaced.*
Figure 3 – Parts Identification
Packing Replacement

Replacing Packing with Actuator Removed
To replace the packing without removing actuator, see “Replacing Packing Without Removing Actuator” section.

1. Discontinue pipeline flow and relieve pipeline pressure.
2. Scribe the actuator and valve bonnet for alignment when reassembling.

⚠️ WARNING!
Moving parts from accidental operation of power actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

3. If the actuator is powered, disconnect and lock out the pneumatic, hydraulic, or electrical power to prevent accidental operation of the actuator.

⚠️ WARNING!
When an eccentric 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.

4. Remove the actuator from the valve. See Actuator Instructions.
5. Remove the actuator adaptor (when used) from the valve.
6. Remove the packing gland nuts (A13), then slide the packing gland (A11) off the plug shaft (A3).
7. Pull the packing (A9) out of the bonnet (A6).
8. For valves with low friction packing, lubricate the new packing (A9), then install it one ring at a time in the sequence shown in Figure 4.

![Figure 4 — Correct Packing Installation Sequence](image-url)
Packing Replacement (continued)

Note: 4 - 8” lever and nut operated valves without low-friction packing have a friction cone (A10) and standard packing (A9). Before installing the gland (A11), set the cone on top of the packing. Do not lubricate the outside of the cone or the inside of the gland. See Figure 5.

9. Slide the packing gland (A11) down the plug shaft (A3) and over the studs (A12). If the valve has a friction cone (A10), bring the gland nuts (A13) under the gland (A11) up finger tight.

![Figure 5 — Friction Cone Adjustment](image)

10. Adjust gland nuts (A13).
   a. 4 - 8” LEVER AND NUT OPERATED VALVES ONLY:
      Turn packing gland nuts (A13) onto the studs (A12) until they touch the gland (A11).
   b. ALL REMAINING VALVES EXCEPT 10” AND 12” LEVER OPERATED:
      Turn the packing gland nuts (A13) onto the studs until they touch the packing gland (A11), then one more turn.

   Note: This is a preliminary adjustment, it will be necessary to adjust the packing gland nuts (A13) after the valve is pressurized. See "Packing Adjustment" section.

11. Fasten the adaptor (when used) to the valve, lining up the scribe marks made during disassembly.

12. Install the actuator as described in the Actuator Instructions.

13. If the actuator is a powered actuator, reconnect power to the actuator.
Packing Replacement *(continued)*

**Replacing Packing Without Removing Actuator**

*Note:* Lever and nut operated valves require that the actuator be removed before packing can be replaced. See “Replacing Packing with Actuator Removed” section to replace the packing in these valves.

1. This process can be done with or without pressure in the pipeline.

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**WARNING!**

Caustic, toxic, or hot material in the pipeline can cause personal injury or death if leakage occurs. Confirm that the material is not harmful.

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2. Ensure that the material in the pipeline will not cause injury if leakage occurs.
3. Remove the packing gland nuts (A13) from the studs (A12), and slide the packing gland (A11) up the stem of the plug (A3).
4. Remove the studs (A12) from the bonnet (A6).
5. Cut and completely remove all of the old packing (A9) from the packing chamber in the bonnet (A6).
6. Cut each new packing ring (A9) radially in one place with a razor-sharp knife.
7. Place each new packing ring (A9)—one at a time with the joints staggered—around the plug stem (A3) and into position in the packing chamber.
8. Replace the studs (A12) in the bonnet (A6).
9. Push the packing rings (A9) down into position with the packing gland (A11), and replace the packing gland nuts (A13) on the studs (A12).
10. Turn the packing gland nuts (A13) onto the studs (A12) until they touch the packing gland (A11), then one more turn.
11. Restore the pipeline pressure if it was relieved, and check for packing leakage. If leakage occurs, tighten each packing nut just enough to stop the leakage. Excessive tightening will cause reduced packing life and higher valve operating torque.
Disassembly

⚠️ WARNING!
This valve is a pressure vessel. The bonnet will blow off the actuator if the bonnet bolts are removed with pressure in the valve. Pressure must be completely released before disassembly.

Follow these steps to disassemble valve:

1. Relieve pipeline pressure and close the valve.

⚠️ WARNING!
Moving parts from accidental operation of power actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

2. If the actuator is powered, disconnect and lock out the pneumatic, hydraulic, or electrical power to prevent accidental operation of the actuator.
3. Close the valve.
4. Remove the valve from the pipeline (if desired).
   
   Note: The valve can be disassembled while still in the pipeline.

5. Remove actuator from valve—see Actuator Instructions.
6. Scribe a line on the body (A1), bonnet (A6) and plug stem (A3) to help align these parts during re-assembly.
7. Remove the screws (A8) that hold the bonnet (A6) in place, then pry the bonnet loose from the valve body (A1).
   
   Note: Note the location of the WARNING TAG (A14) on bonnet (A6) and do not misplace tag. This tag must be attached to the valve at reassembly.
8. Remove the plug (A3) from the valve body (A1). Remove the grit excluder (A18) (If applicable).
9. Remove the gland nuts (A13) and gland (A11) from the bonnet (A6).
10. Remove the packing (A9) from the bonnet (A6).
11. Reaching through the packing chamber in the bonnet (A6), drive the upper bearing (A7) out of the bonnet using a hammer and pin punch.
12. Remove the lower bearing (A2) from the valve body (A1).
   
   Note: The bearing can be chiseled out; or, it can be hydraulically forced out. See Figure 6.
Disassembly (continued)

To hydraulically force the bearing (A2) out:

1. Fill the interior diameter of the bearing (A2) with water.
2. Pound a shaft with the same outside diameter as the lower journal of the valve plug into the bearing (A2).

![Figure 6 — Hydraulically Removing the Lower Bearing](image)

Reassembly

1. Push a new lower bearing (A2) into the valve body (A1), then lubricate the bearing as described in the “Lubrication” section.
2. Place the grit excluder (A18) (if applicable) on the bottom shoulder of the plug shaft (A3) and place the thrust washer (A4) on the top shoulder of the plug shaft (A3). Lubricate grit excluder and thrust washer as described in the “Lubrication” section.
3. Place the plug (A3) into the valve body (A1) so the lower journal slides into the bearing (A2). Turn the plug so it is almost closed.
4. Set a new gasket (A5) in the body (A1).
5. Push a new bearing (A7) into the bonnet (A6), then lubricate the bearing. See "Lubrication" section.
6. Place bonnet (A6) on body (A1), align scribe marks, then fasten bonnet in place with screws (A8).
7. Turn the plug (A3) to the closed position. See "Closed Position" section.
8. For valves with low friction packing, lubricate the new packing (A9), then install it one ring at a time. See Figure 4.
   
   **Note:** 4 - 8" valves use a friction cone (A10) with a wrenching nut or hand lever actuator, and standard packing. Before installing the gland (A11), set the cone on top of the packing (A9). Do not lubricate the outside of the cone or the inside of the gland. (See Figure 5)
9. Slide the packing gland (A11) down the plug shaft (A3) and over the studs (A12). If the valve has a friction cone (A10), bring the gland nuts (A13) under the gland up finger tight.
Reassembly (continued)

10. Adjust gland nuts (A13).
   a. 4 – 8” LEVER AND NUT OPERATED VALVES ONLY: Turn packing gland nuts (A13) onto the studs (A12) until they contact the gland (A11). It will be necessary to adjust the packing gland nuts after the valve is pressurized; see the “Packing Adjustment” section.
   b. ALL VALVES EXCEPT 10” AND 12” LEVER OPERATED: Turn the packing gland nuts (A13) onto the studs (A12) until they contact the packing gland (A11), then one additional turn.
      Note: This is a preliminary adjustment, it will be necessary to adjust the packing gland nuts after the valve is pressurized. See “Packing Adjustment” section.

11. Install the actuator—see Actuator Instructions.

12. After pipeline flow is restored, check the packing for leakage.
      Note: If packing leaks, tighten the packing gland nuts (A13) only enough to stop the leak. Over tightening the packing will cause premature packing failure and higher valve operating torque.

13. If the actuator is a powered actuator, reconnect power to the actuator.

Removing Valve from Pipeline
To remove the entire valve assembly from the pipeline, follow these steps.

⚠️ WARNING!

This valve is a pressure vessel. The bonnet will blow off the actuator if the bonnet bolts are removed with pressure in the valve. Pressure must be completely released before disassembly.

1. Relieve pipeline pressure and drain portion of system where valve is located.
2. Close the valve.

⚠️ WARNING!

Moving parts from accidental operation of power actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

3. If the actuator is powered, disconnect and lock out the pneumatic, hydraulic, or electrical power to prevent accidental operation of the actuator.
4. Support the valve assembly, then remove the flange bolts.
5. Remove the valve from the pipeline.
DeZURIK
4-20" PEC Eccentric Valves

Field Test
Stroke the valve between the fully open and fully closed positions to verify that the valve and actuator are functioning properly.

Emergency Operation
Operate the valve as under normal conditions, taking care to bring the plug to the position required by the particular emergency condition.

Predicted Wear of Parts
Length of service for parts subject to wear is dependent on service conditions.

Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing Leaks.</td>
<td>Packing is loose.</td>
<td>Adjust Packing. (See “Packing Adjustment” section)</td>
</tr>
<tr>
<td></td>
<td>Packing is worn.</td>
<td>Replace Packing. (See “Packing Replacement” section)</td>
</tr>
<tr>
<td>Valve does not close.</td>
<td>Object is wedged between plug and seat.</td>
<td>Open the valve completely to flush object. If this doesn’t work, remove valve from the pipeline. (See “Removing Valve from Pipeline” section)</td>
</tr>
<tr>
<td></td>
<td>Actuator closed position is out of adjustment.</td>
<td>Adjust the closed position stop as described in the Actuator instructions.</td>
</tr>
<tr>
<td>Valve leaks when closed.</td>
<td>Plug is worn or damaged.</td>
<td>Replace plug. (See “Disassembly” section)</td>
</tr>
<tr>
<td></td>
<td>Rubber on plug is torn.</td>
<td></td>
</tr>
</tbody>
</table>
Guarantee

Products, auxiliaries and parts thereof of DeZURIK, Inc. manufacture are warranted to the original purchaser for a period of twenty-four (24) months from date of shipment from factory, against defective workmanship and material, but only if properly installed, operated and serviced in accordance with DeZURIK, Inc. recommendations. Repair or replacement, at our option, for items of DeZURIK, Inc. manufacture will be made free of charge, (FOB) our facility with removal, transportation and installation at your cost, if proved to be defective within such time, and this is your sole remedy with respect to such products. Equipment or parts manufactured by others but furnished by DeZURIK, Inc. will be repaired or replaced, but only to the extent provided in and honored by the original manufacturers warranty to DeZURIK, Inc., in each case subject to the limitations contained therein. No claim for transportation, labor or special or consequential damages or any other loss, cost or damage shall be allowed. You shall be solely responsible for determining suitability for use and in no event shall DeZURIK, Inc. be liable in this respect. DeZURIK, Inc. does not guarantee resistance to corrosion, erosion, abrasion or other sources of failure, nor does DeZURIK, Inc. guarantee a minimum length of service. Your failure to give written notice to us of any alleged defect under this warranty within twenty (20) days of its discovery, or attempts by someone other than DeZURIK, Inc. or its authorized representatives to remedy the alleged defects therein, or failure to return product or parts for repair or replacement as herein provided, or failure to install and operate said products and parts according to instructions furnished by DeZURIK, Inc., or misuse, modification, abuse or alteration of such product, accident, fire, flood or other Act of God, or failure to pay entire contract price when due shall be a waiver by you of all rights under this warranty.

The foregoing guarantee shall be null and void if, after shipment from our factory, the item is modified in any way or a component of another manufacturer, such as but not limited to, an actuator is attached to the item by anyone other than DeZURIK, Inc. Factory Service personnel. All orders accepted shall be deemed accepted subject to this limited warranty, which shall be exclusive of any other or previous Warranty, and this shall be the only effective guarantee or warranty binding on DeZURIK, Inc., despite anything to the contrary contained in the purchase order or represented by any agent or employee of DeZURIK, Inc., in writing or otherwise, notwithstanding, including but not limited to implied warranties.

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Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

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