



**ENK NECK EXTENSION  
USED WITH G-SERIES ACTUATORS  
ON BAW BUTTERFLY VALVES**

# DeZURIK

## ENK Neck Extension Used With G-Series Actuators On BAW Butterfly Valves

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### Instructions

These instructions provide information about ENK Neck Extensions. They are for use by personnel who are responsible for installation, operation and maintenance of ENK Neck Extensions.

### 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 ENK Neck Extension 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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### Description

The ENK Neck Extension is installed between the valve and the valve actuator and is used to extend the distance from the valve to the actuator. The actuator consists of a stationary outer extension and a rotating inner extension. The outer extension mounts the actuator to the valve; the inner extension is a drive shaft to transmit the torque from the actuator to the valve. This document provides instructions for the extension used with a G-Series Actuator on BAW AWWA Butterfly valves.

### Disassembly

Before disassembly, relieve the pressure and stop the flow in the pipeline.



#### **WARNING!**

**Relieve the pressure and stop the flow in the pipeline. Pressure and/or flow with the extension or actuator removed can cause the valve to slam closed, and can cause water hammer damage to the valve and other pipeline equipment.**

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#### ***To remove the actuator from the extension***

1. Remove the nut and washer from the stud on top of the actuator.
2. Remove the two screws and the small cover fastened to the top of the actuator gear.
3. Remove the screws and the cover from the actuator.
4. Note the orientation of the actuator gear with respect to the extension drive shaft.
5. Remove the screws that mount the actuator to the extension, and lift the actuator from the extension.

#### ***To remove the extension from the valve***

1. Remove the screws that mount the adaptor plate to the stop housing, and slide the outer extension off over the inner extension.
2. Lift the inner extension from the valve shaft. If the extension drive is keyed to the valve shaft, do not lose the key.
3. Remove the screws that mount the stop housing to the valve, and remove the stop housing.

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**Reassembly**

Before reassembly, remove the gaskets or sealant from all mating mounting surfaces. If gaskets were used, do not reuse the gaskets; apply a thin bead of silicone sealant to one of the mating surfaces. Apply the sealant between the inside diameter and the mounting hole pattern.

***To replace the extension on the valve***

1. Mount the stop housing to the valve with the mounting screws and tighten the screws.
2. If the inner extension drive shaft was keyed to the valve shaft, replace the key in the valve shaft. Engage the drive shaft with the valve so that the stop will contact the stop screw when the valve is in the closed position.
3. Slide the outer extension over the inner extension, mount the outer extension to the stop housing with the four mounting screws, and tighten the screws.

***To replace the actuator on the extension***

1. If the actuator gear was keyed to the drive shaft, replace the key in the drive shaft. Place the actuator on the extension, and engage the extension with the actuator so that the open and closed positions of the actuator match the open and closed positions of the valve.
2. Mount the actuator to the extension with the mounting screws and tighten the screws.
3. Mount the cover to the actuator with the mounting screws and tighten the screws.
4. Mount the small cover to the top of the actuator gear with the mounting screws and tighten the screws.
5. Place the washer and nut on the stud on the top of the actuator and tighten the nut to provide clearance between the other end of the inner extension and the top of the valve.