



**DeZURIK ENK NECK
EXTENSION**

FOR LA-, M- & T-SERIES ACTUATORS

Instruction D10017
July 2016

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.

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.

Table of Contents

Description	3
Disassembly.....	3
To remove the extension from the valve.....	3
To remove the actuator from the extension.....	3
Reassembly	4
To replace the extension on the valve	4
To replace the actuator on the extension.....	4
Shortening the ENK Extension.....	5
Lengthening the ENK Extension	6

Description

The ENK Neck Extension is located between the valve and the valve actuator, and is used to extend the distance from the valve to the actuator. The extension consists of a stationary outer extension and a rotating inner extension to transmit the torque from the actuator to the valve. This document provides instructions for the extension when used with LA-Series, M-Series or T-Series Actuators.

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.

To remove the extension from the valve

1. Remove the four mounting screws that mount the extension to the valve.
2. Lift the extension and actuator from the valve. If the extension drive shaft is keyed to the valve shaft, do not lose the key.

To remove the actuator from the extension

1. Remove the actuator from the extension by following the steps in the REMOVING ACTUATOR FROM VALVE section of the actuator Instructions.

Reassembly

To replace the extension on the valve

1. Remove the gasket or sealant from the mating mounting surfaces between the extension and the valve. If a gasket was used, do not reuse the gasket; apply a thin bead of silicone sealant to the extension mounting surface. Apply the sealant between the inside diameter and the mounting hole pattern.



CAUTION!

Do not force the inner extension onto the valve shaft.

If the inner extension does not easily slide onto the valve shaft, contact the DeZURIK Field Service department (320-259-2000) for additional instructions before continuing reassembly.

2. If the inner extension was keyed to the valve shaft, replace the key in the valve shaft. Engage the inner extension with the valve.
3. Mount the outer extension to the valve with the four mounting screws; tighten the screws.

To replace the actuator on the extension

1. Remove the gasket or sealant from the mating mounting surfaces between the actuator and the extension. If a gasket was used, do not re-use the gasket; apply a thin bead of silicone sealant to the extension mounting surface. Apply the sealant between the inside diameter and the mounting hole pattern.
2. Mount the actuator on the extension by following the steps in the REPLACING ACTUATOR ON VALVE section of the actuator Instructions.

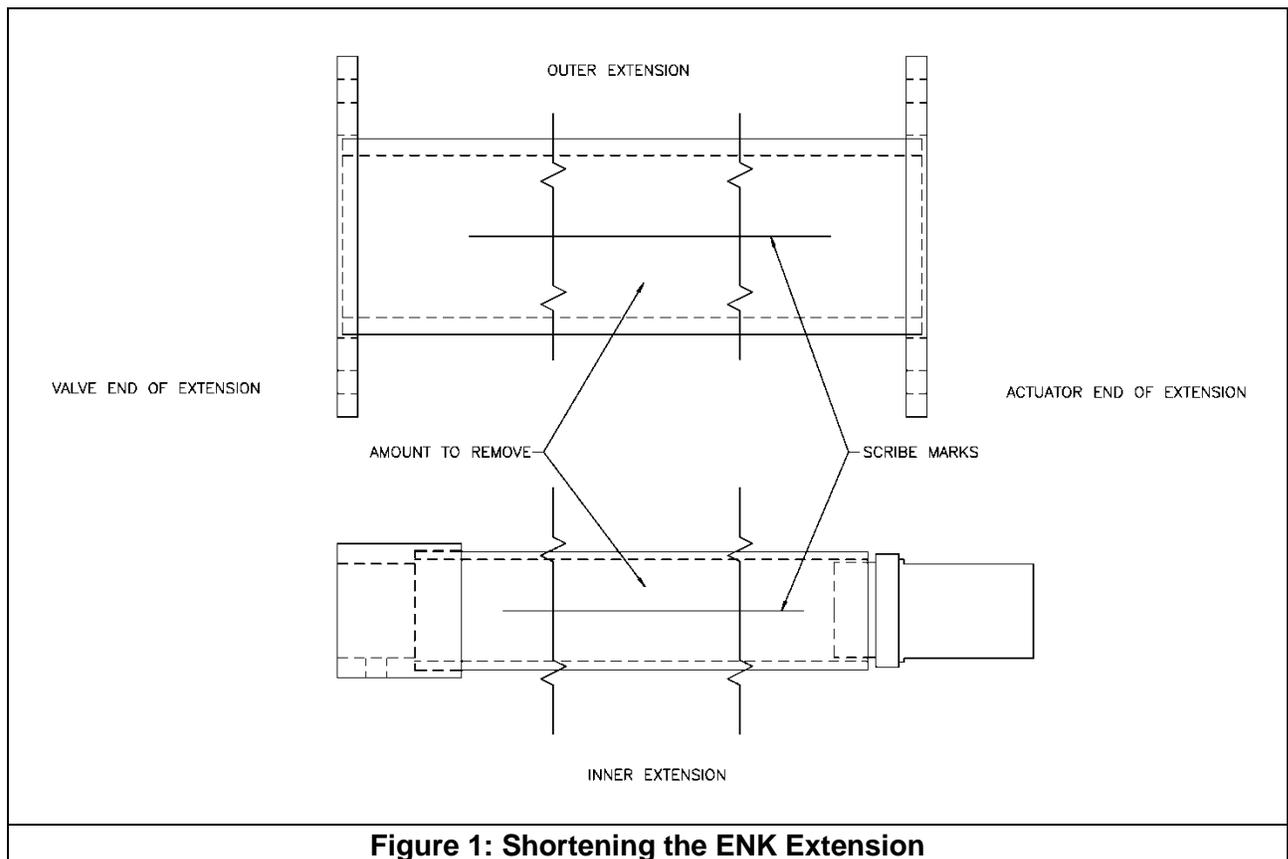
Shortening the ENK Extension

1. Scribe inner and outer extensions as shown in Figure 1 with the scribe marks at least 4" longer than the amount to remove.
2. Cut out the amount to remove from the center of the scribed area, preferably with a saw keeping the cuts square and clean.
3. Butt the cut ends of each extension piece together and match the scribe marks, keeping the end couplings in the same original alignment.

NOTE: This is important to ensure proper valve and actuator alignment when re-installing the ENK extension.

4. Weld the cut ends of each extension together, keeping the pipe as straight as possible and the scribe marks aligned.

NOTE: This is also important. It is recommended to clamp both ends of the pipe into a jig, if possible, to insure linear alignment of the pipe while welding.



If instructions are followed properly, this is an authorized DeZURIK modification and will not affect the warranty.

Lengthening the ENK Extension

1. Scribe inner and outer extensions as shown in Figure 2 with the scribe marks at least 4" long.
2. Cut the pipe in the middle of the scribe mark, preferably with a saw, keeping the cuts square and clean.
3. Scribe the entire length of the extension pieces to be added, keeping the scribe line parallel to the centerline of the pipe.
4. Butt the two original pieces together with the extension piece in the middle and match the scribe marks, keeping the end couplings in the same original alignment.

NOTE: This is important to ensure proper valve and actuator alignment when re-installing the ENK extension.

5. Weld the three pieces together, keeping the pipe as straight as possible and the scribe marks aligned.

NOTE: This is also important. It is recommended to clamp the pieces together in a jig, if possible, to insure linear alignment of the pipe while welding.

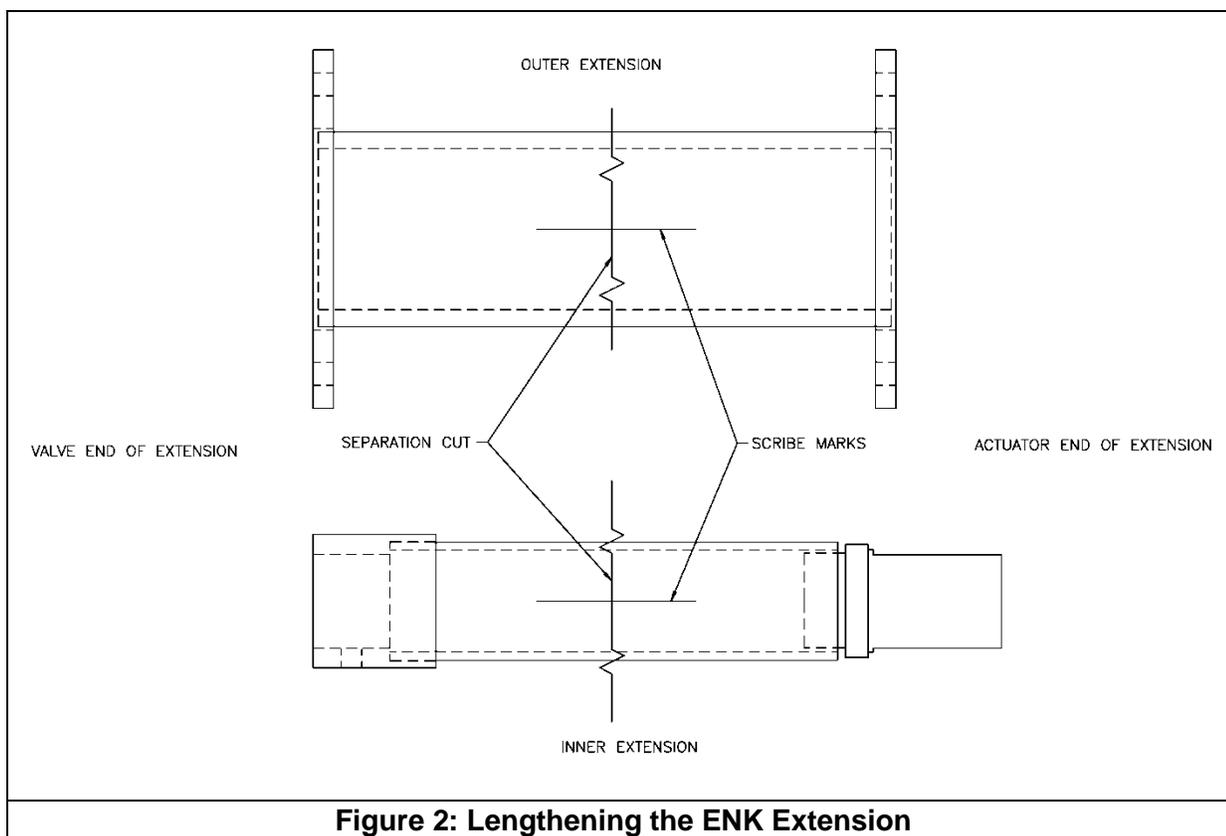


Figure 2: Lengthening the ENK Extension

If instructions are followed properly, this is an authorized DeZURIK modification and will not affect the warranty.