

KIT PN - TGX:16152-540

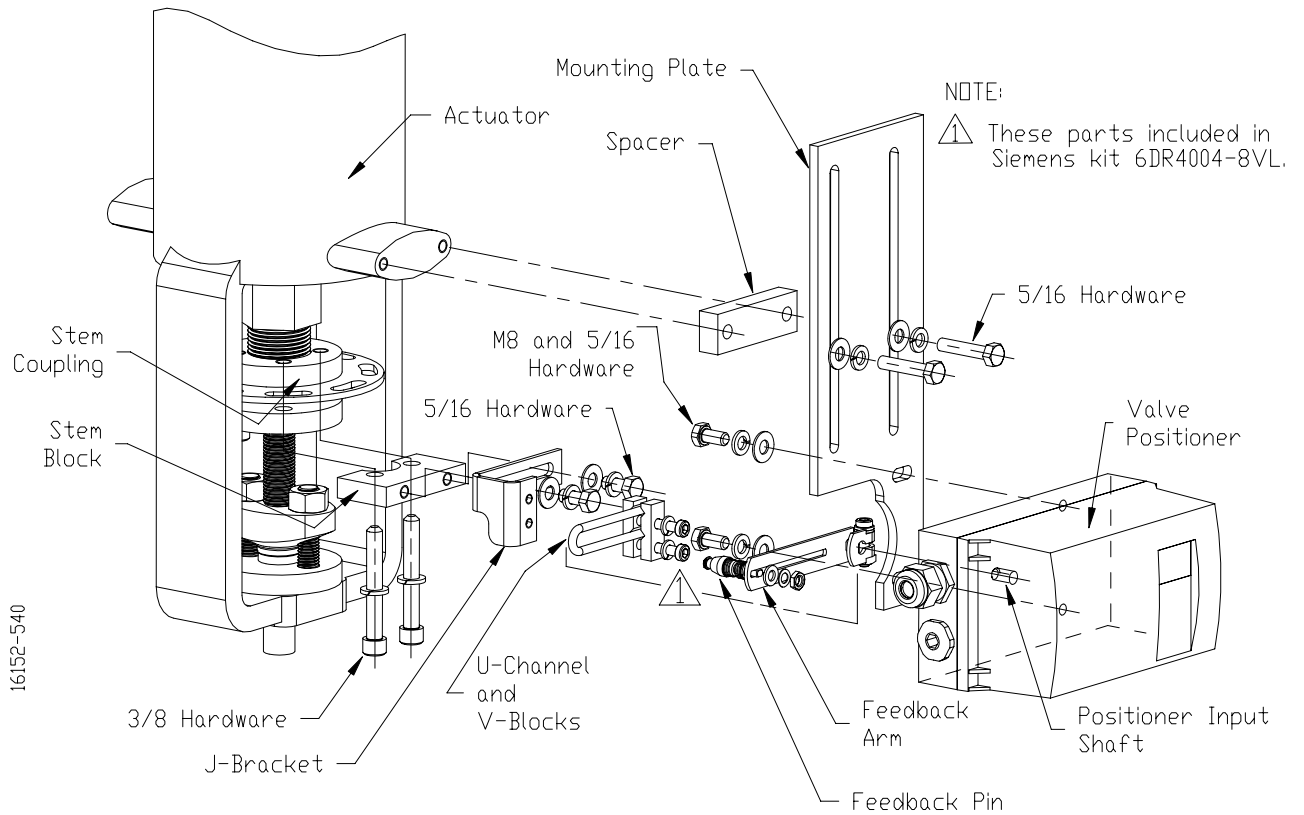
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Rev 1

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MOUNTING THE SIPART PS2 VALVE POSITIONER ON A COPES 60-160, 0.75 STEM, VALVE ACTUATOR

This publication provides installation instructions to mount a Siemens SIPART® PS2 valve positioner to an above Copes valve actuator and to install the mechanical feedback linkage. A typical installation is shown below.



PARTS, KIT TGX:16152-540

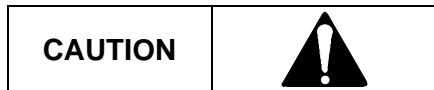
Description	Quantity
Mounting Bracket	1
Stem Block	1
Spacer	1
J-Bracket	1
5/16-18 x 3/4" Hex Head Screw	2
5/16-18 x 2.00" Hex Head Screw	2
5/16" Split Lockwasher	6
5/16" Flat Washer	6
3/8-16 X 2.75" Socket Head Screw	2
M8 x 16 Hex Head DIN933-A2	2
3/8" Split Lockwasher	2

Other Kits: Linear Feedback Kit, part number 6DR4004-8VL

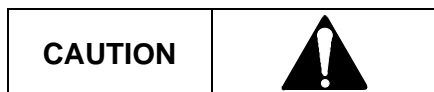
INSTALLATION

Refer to the following procedure and to the positioner and actuator installation instructions while performing the installation. The current revision of the positioner instruction is available at the Siemens Internet site. See Contact Information later in this Instruction for the URL.

Before beginning the installation, note the following cautions.



Do not apply supply pressure to the actuator or the valve positioner during the installation process. Applying supply pressure before the equipment is properly mounted could cause unexpected movement that could lead to personal injury or equipment damage.



Do not exceed the maximum actuator and valve positioner air pressures stated in the manufacturer's literature. Exceeding these ratings could cause personal injury or equipment damage.

1. From the TGX:16152-540 kit, get the stem block and two 3/8-16 x 2.75" socket head screws and two 3/8 lockwashers. Refer to the figure on page 1 and remove from the stem coupling two 3/8" screws in the locations shown for installation of the stem block. Fasten the stem block to the actuator stem coupling using the 2.75" socket head screws from the kit.
2. From the same kit, get the J-bracket and two 5/16-18 x 3/4" hex head screws and 5/16 flat washers and lockwashers. Fasten the J-bracket to the stem block.
3. From the 6DR4004-8VL kit, get two M6 hex head screws and lockwashers, two V-blocks, and the U-channel. Assemble to the J-bracket as shown on page 1.
4. From the same kit, get the feedback arm, feedback pin, and a nut and lockwasher to mount the pin. Fasten the feedback pin to the feedback arm. Tighten the hardware just enough to hold the pin in place.
5. Fasten the feedback arm to the PS2 input shaft as shown. Position the pin such that its distance from the PS2 shaft is approximately 70%-100% of the stroke (60-90 degrees rotation). Set the PS2's gear switch to the "90" position.

6. From the TGX:16152-540 kit, get the mounting plate, spacer, two 5/16-18 x 2.00" hex head screws and 5/16 washers and lockwashers. Fasten the mounting bracket and spacer to the actuator frame using the 5/16 hardware.
7. From the same kit, get two M8 screws and 5/16 flat washers and split lockwashers.
8. Read the "Important" note below and then fasten the PS2 to the mounting bracket using the above M8 and 5/16 hardware, while engaging the feedback pin in the U-channel. Slide the mounting bracket along its slotted holes until the feedback arm is approximately perpendicular to the valve stem at the 50% stroke position. The feedback pin must move freely inside the U-channel throughout the actuator stroke.

IMPORTANT

While attaching the positioner to the mounting bracket, be sure the feedback pin is inserted into the U-channel. The spring in the feedback pin should be compressed approximately 3/16" to 1/4" (4.5mm to 6.5mm).

9. Tighten all hardware.
10. Read the "Cautions" on page 2 and then apply the appropriate air pressures to fully stroke the valve. Exercise the positioner/actuator assembly to ensure that:
 - The feedback linkage does not prevent the valve from fully stroking.
 - The locator pin moves freely within the U-channel for the entire valve stroke. Adjust the pin and U-channel positions as necessary.
 - All linkage hardware is secure.
11. Once the feedback arm moves freely for the entire stroke, make electrical and pneumatic connections and proceed to the PS2 setup instruction found within the PS2 manual.

CONTACT INFORMATION

For Product Support in the U.S.A.

Technical Support	
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Technical Publications in PDF	http://www.sea.siemens.com/ia ; under Customer Support Process Instrumentation, click on Documentation & Support Links
Public Internet Site	http://www.sea.siemens.com/ia
Repair Service	+1 215 646 7400 extension 3187

For Product Support Outside of the U.S.A.

Visit the Siemens public Internet site (see the above table for the URL), locate "Customer Support Process Instrumentation," and click on the Contact Tech Support link to access the Global Support link.

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