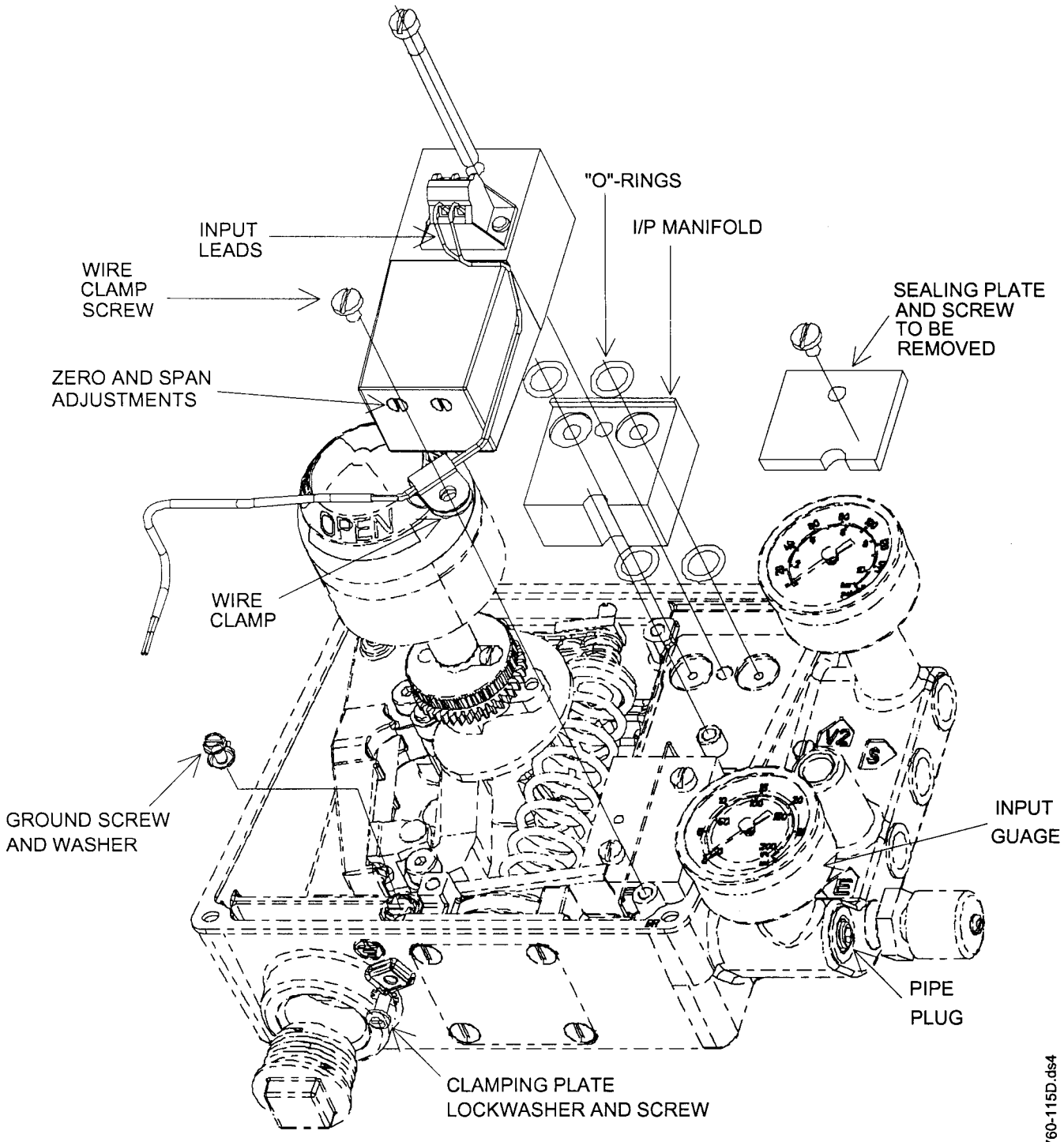

FIGURE 1 I/P Converter kit Installation

Siemens
Energy & Automation

SERIES 760 VALVE CONTROLLER I/P CONVERTER INSTALLATION KIT

I/P Converter Installation Kit
Part Number 15900-378

15900-378
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Series 760 Valve Controller I/P Converter Installation Kit

INSTALLATION

The temperature in the intended operating location must not exceed the specified operating temperature limits of -40°C to +85°C. It is recommended to have a copy of the Service Instructions (SD760) available for easy reference.

See section 2.5 of SD760 for general and hazardous location wiring requirements. Control Drawing 15032-7602 is recommended for hazardous installations and is available upon request.

1. Remove sealing plate screw and sealing plate. Retain the two "O"-rings.

2. Install the two existing "O"-rings in their seats. Install I/P manifold, new "O"-rings, and I/P provided with the kit. Secure in place with new screw.

3. Attach the input leads (recommend 22 AWG shielded, twisted pair wire minimum) to the + and - connections of the I/P converter terminal strip. The wire should enter the controller through the conduit connection and be routed through the wire clamp (refer to Figure 1).

4. Attach the wire clamp with its screw.

5. Install pipe plug in input port. Install ground screw and washer. Install clamping plate with toothed lockwasher and screw

Calibration

It is not necessary to calibrate the I/P transducer; however, calibration adjustments are available. The I/P transducer can be adjusted by following the procedure outlined below. The I/P accepts a 4-20 mA signal.

Verify the output of the I/P converter as follows:

1. Connect a 0-30 psi test gauge to the 1/8 in. NPT input gauge port.

2. Apply supply pressure to the supply connection.

3. Apply a 4 mA input signal. Any deviation in the output signal from 3 psi can be corrected with the zero adjustment screw (>0<).

4. Increase the input signal to 20 mA. Any deviation in the output signal from 15 psi can be corrected with the range potentiometer (|<->|).

Perform the valve controller zero and span functions as described in Section 4.0 (Calibration) of SD760.