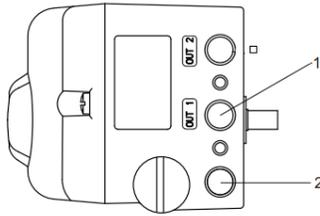


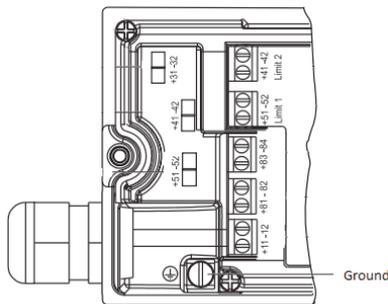
# Mounting Instructions | 1177E-EP2 Control Valve

## Step 4: Air Connections



1. Connect Out 1 Port on Gauge Block to Actuator Inlet
2. Connect Air Source to In Port on Gauge Block (Recommended Air Pressure 70-90 PSI, 90 PSI max. Coalescing filter must be used on supply air)
3. Gauges are pre-mounted on Gauge Block

## Step 5: Electrical Connections



- Terminals +11 and -12 used for 4-20mA Analog Input
- Terminals +31 and -32 used for 4-20mA Feedback Loop 24VDC Powered Analog Output

## COMMISSIONING:

### Option 1: Using the Pushbuttons and LCD Display on the Positioner

1. Feed in Air Pressure
2. Feed in electrical supply power
  - Feed in setpoint current 4-20mA (terminals +11/-12)
3. Check mount:
  - Press and hold **Mode**, plus  $\uparrow$  or  $\downarrow$  until operating mode 1.3 (manual adjustment within the sensor range) is displayed. Release **Mode**.
  - Press  $\uparrow$  or  $\downarrow$  to move the actuator/valve into the mechanical end position; check the end positions; rotation angle is displayed in degrees; for high-speed mode or if the actuator/valve does not move, press  $\uparrow$  and then  $\downarrow$  simultaneously to move in one direction and then  $\downarrow$  and then  $\uparrow$  simultaneously to move in the other direction.

Recommended range:

- Between -57 to 57° for rotary actuators

### 4. Run Autoadjust

- Press **Enter** and hold down until **ADJ\_ROT** is displayed; release the **Enter** button
- Press **Enter** again and hold down until the countdown ends
- Release **Enter**; this starts Autoadjust

The Autoadjust process may take up to 5 minutes to finish, so please be patient. When Autoadjust is complete, the parameters will be stored automatically and the positioner will revert to operating mode 1.1 (Control Fix mode).

If an error occurs during Autoadjust, the process will be terminated with an error message. If this happens, press and hold down  $\uparrow$  or  $\downarrow$  for approximately three seconds. The unit will switch to the operating mode 1.3 (manual adjustment within the sensor range). The mount is checked and corrected if necessary. Autoadjust then runs again.

### Option 2: Using a HART Communicator

1. Feed in Air Pressure
2. Feed in electrical supply power
  - Feed in setpoint current 4-20mA (terminals +11 / -12)
3. Connect HART communicator to terminals 11 and 12 coming from the positioner
4. Go online with the communicator.

Then go to Settings→ Valve Parameters→ Auto Configuration→ Start Auto Configuration

### Performing a hard reset

In the event a hard reset needs to be made to the positioner, the following must be performed using the pushbuttons:

1. Press and hold down  $\uparrow$  and  $\downarrow$  keys and at the same time press and release the **Enter** button, continue to hold  $\uparrow$  and  $\downarrow$  keys until countdown ends. This will take you into the configuration level.
2. Next, we will need to get into configuration level P11.0. Press and hold down the **Enter** and **Mode** buttons. Press the  $\uparrow$  button until you get to P11.0 Release all buttons.
3. Press **Enter** and hold down until the countdown ends to activate the save position. Release the **Enter** button.
4. Press and hold down the **Mode** button. Now press the  $\uparrow$  button until you get to P11.1 FACT\_SET, FS\_Load. Release all buttons.
5. Press **Enter** and hold down until the countdown ends.
6. Press and hold down the **Mode** button. Now press the  $\uparrow$  button until you get to P11.3 EXIT, NV\_Save. Release all buttons.
7. Press **Enter** and hold down until the countdown ends.
8. The positioner is now reset to the way it would have come from the factory.

\*If the pushbuttons are not working, power to the positioner should be cycled.