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PANEL MOUNT KIT INSTALLATION INSTRUCTIONS

MKIT-0204-SA

FOR

3020, 3030, 3040, 3120, 3200, 3420, 3430,

3450, 3510, 3530, 3610, 3810, 3900 & 6342A

SERIES REGULATORS

PROCEDURE FOR SETTING OR LIMITING DELIVERY PRESSURE

Note: This procedure applies to standard model 3020, 3030, 3040, 3120, 3200, 3420, 3430, 3450, 3510, 3530, 3610, 3810, 3900, and 6342A series regulators with an adjustment screw and lock nut under the snap cap.

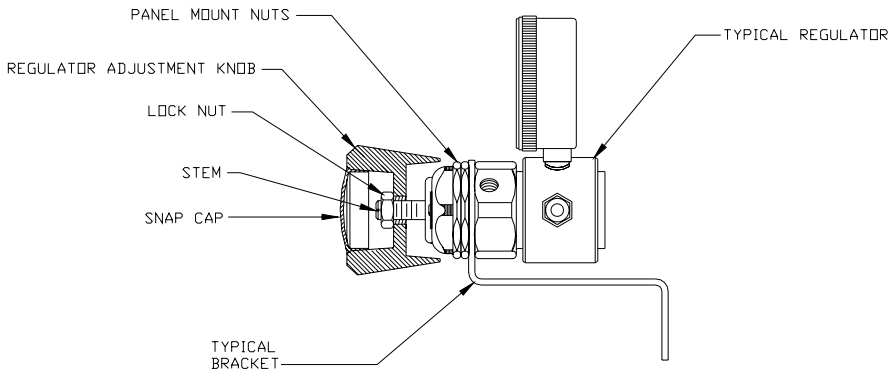
Note: This procedure may require resetting the delivery pressure. Instructions for setting the delivery pressure follow the panel mount kit installation instructions.

Warning: Turn off the gas supply to the regulator and drain the pressure completely to prevent injury or damage during this procedure.

1. Panel Mount Kit Installation (Figure 1):

1.1 Use a fine point instrument to pry out the snap cap on the front of the regulator adjustment knob. .

Figure 1



1.2 Turn the regulator adjustment knob fully clockwise until it stops.

1.3 While holding the regulator adjustment knob securely, use a 1/2" hex socket to loosen the lock nut by turning counter-clockwise.

1.4 Remove the lock nut completely.

1.5 While holding the stem securely, with a flat head screw driver or ¼" hex wrench, remove the regulator adjustment knob completely by turning counter-clockwise.

1.6 Insert the threaded bonnet through the panel or bracket and install the two panel mount nuts.

1.7 Tighten the panel lock nuts while keeping the regulator from turning.

1.8 While holding the stem securely, turn the regulator adjustment knob fully clockwise until it bottoms out on the bonnet. Back it off a small amount (~1/8 turn) to prevent it from becoming lodged when the lock nut is tightened.

1.9 While holding the stem securely, screw the lock nut on the stem, completely down and tighten securely.

1.10 Replace the snap cap by pressing it onto the regulator adjustment knob. Turn the regulator adjustment knob completely counter-clockwise to prevent over pressure during startup.

2. Checking the Pressure Setting

2.1 Ensure that the regulator adjustment knob has been turned completely counter-clockwise.

2.2 Close the outlet valve if equipped.

2.3 Connect the regulator to the appropriate gas source. If the gas is hazardous, proper venting must be employed to prevent damage or serious injury.

2.4 Slowly open the source gas valve to pressurize the regulator. The inlet gauge should read the source gas pressure. The outlet (delivery) gauge should read 0 psig. If the pressure rises on the outlet gauge without turning the regulator adjustment knob, there is a problem with the regulator. Correct the problem before attempting to set or limit the outlet pressure.

2.5 Turn the regulator adjustment knob slowly clockwise, and note the delivery pressure. The regulator should not deliver more than 1-2 psig above the rated delivery pressure for the model you are using.

2.6 If the delivery pressure is within the range, the installation is complete.

3. Adjusting the Maximum Pressure Setting

3.1 Set the regulator below the desired maximum pressure setting.

3.2 Remove the snap cap.

3.3 While holding the regulator adjustment knob securely, loosen the lock nut by turning counter-clockwise.

3.4 While holding the stem securely, turn the regulator adjustment knob fully clockwise until it bottoms out on the bonnet. Back it off a small amount (~1/8 turn) to prevent it from becoming lodged when the lock nut is tightened.

3.5 Back the lock nut to the end of the stem.

There are two methods of setting the outlet pressure – ***no flow*** condition and ***flow*** condition.

With a ***no flow condition*** setting (3.6), the outlet pressure will be at the maximum with no flow, and will decrease when flow is initiated. This setting is used when a not-to-exceed pressure is required.

With a ***flow condition*** setting (3.7), the outlet pressure will be at the desired setting with flow, and will increase when flow is stopped. This setting is used to ensure adequate pressure under operating (flow) conditions.

3.6 For maximum outlet pressure setting – no flow condition.

3.6.1 Slowly turn the stem clockwise and observe the delivery pressure. Stop when the outlet pressure is at the required point.

3.6.2 While holding the stem securely, turn the lock nut all the way down and tighten.

3.6.3 Open the outlet valve slowly to initiate flow while turn the adjusting knob counter-clockwise to reduce the pressure to 0 psig.

3.6.4 Close the outlet valve, and turn the regulator adjustment knob fully clockwise and note the outlet pressure.

3.6.5 If the pressure is not at the desired maximum pressure then repeat the procedure.

3.6.6 If the outlet pressure is correct then ensure that the lock nut is tight and replace the snap cap.

3.7 For maximum outlet pressure setting –flow condition.

Continued from step 3.5

3.7.1 Open the outlet valve to achieve the desired flow (based on system requirements).

3.7.2 Slowly turn the stem clockwise and observe the delivery pressure. Stop when the outlet pressure is at the required point.

3.7.3 While holding the stem securely, turn the lock nut all the way down and tighten.

3.7.4 Turn the adjusting knob counter-clockwise to reduce the pressure to 0 psig.

3.7.5 Turn the adjusting knob fully clockwise and note the outlet pressure.

3.7.6 If the pressure is not at the desired maximum pressure then repeat the procedure.

3.7.7 If the outlet pressure is correct then ensure that the lock nut is tight and replace the snap cap

DIMENSIONS