APTech Miscellaneous Instructions **#12360000**
AP3260/3600, Panel Mount
Revision 3
January 31, 2013

△3 **Note:** This procedure is intended for panel mount of AP/AZ/AK/3260/3600/4600 Series valves.
Note: Recommended panel hole diameter: 0.78 inch (19.8 mm).

A. Required Tools and Equipment

- 1/2 inch socket and wrench
- 1/2 inch socket and torque wrench, 75 in-lb (8.5 Nm)
- 1 inch wrench (open end or adjustable)
- Strap wrench to hold wheel (optional)

B. Wheel Removal (Refer to Figure 1)

1. Remove the valve from the double plastic bag.
2. Close the valve by turning the wheel (#3) fully clockwise.
3. Using a small flat screwdriver or similar tool, pry the closure (#1) off the top of the wheel.
4. Firmly holding the wheel in place (by hand or with a strap wrench), use a 1/2 inch socket and wrench to loosen the lock nut (#2). Remove the lock nut and wheel.
   Note: The wheel must not rotate counterclockwise during loosening of the lock nut. If the wheel rotates, re-tighten the lock nut against the wheel and repeat step B.2.

C. Panel Mount (Refer to Figure 1)

1. Remove the panel mount nut (#5) from the unit.
2. Place the valve through the panel hole, position the valve as desired, connect the valve into piping system and replace the panel mount nut onto the unit.
3. Using a 1 inch wrench, tighten the panel mount nut firmly against the panel.

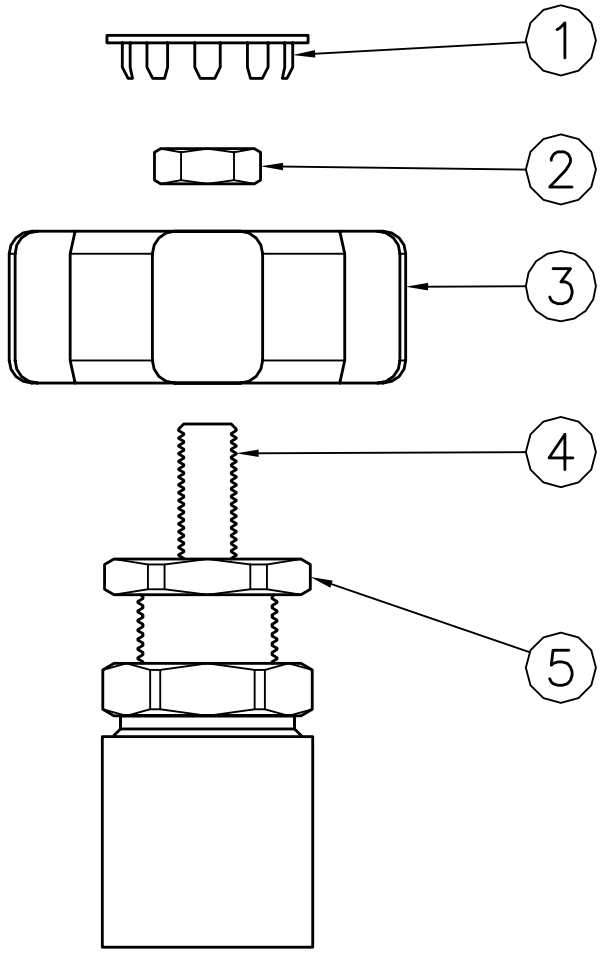
D. Wheel Replacement (Refer to Figure 1)

1. Place the wheel back on the stem (#4), and turn the wheel clockwise until it stops.
2. Rotate the wheel counter-clockwise one full turn.
3. Holding the wheel in place, screw the lock nut onto the stem until it stops against the wheel.
4. While holding the wheel from turning (by hand or with a strap wrench), use a 1/2 inch socket and torque wrench to tighten the lock nut against the wheel with 75 in-lb (8.5 Nm).
5. Reinstall the closure by pressing it into the top of the wheel.

E. Valve Testing

1. Open and close the valve several times to verify the actuator operates correctly. Leave the valve in closed position.
2. Connect the valve inlet to 60-100 psig (4.1 - 6.9 bar) pressure nitrogen source line. Pressurize the valve inlet. Verify there is no audible leakage across-the-seat. Open the valve and verify that there is no flow restriction in the valve. Close the valve.
3. Perform a helium leak test to verify that the valve does not leak across-the-seat. Leak test procedures depend greatly on equipment and operator preference. Refer to SEMI F1 for typical leak testing protocols. If it is not possible to perform a helium leak test, then a pressure decay test could be performed using inert gas.

1. CLOSURE
2. LOCK NUT
3. WHEEL
4. STEM
5. PANEL MOUNT NUT



19360001
11/17/10

Figure 1. AP3260/3600 Valve Assembly Diagram.

Revised By: Roman Sheykhet Engineering Approval By:	Date: 01.31.13	EAR # 5527