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### ASHCROFT<sup>®</sup> Current Type 1009 Duralife<sup>®</sup> Calibration Procedure – Pressure and Vacuum Range

# **NASHCROF**

#### Calibration – 1009 Duralife<sup>®</sup> Gauge –

Inspect gauge for accuracy. At times gauges are simply "off zero" and opening the ventable plug at the top of the gauge will relieve internal gauge pressure and correct the offset. If this is not adequate and inspection shows that the gauge warrants recalibration to correct zero, span and/or linearity errors, proceed as follows:

Remove ring, window, and gasket using Ashcroft Ring Removal Tools P/N 101B220-02 and 101B221-02 for 21/2" gauges and 101B220-01 and 101B221-01 for 31/2" gauges.



#### Positive Pressure Rar

- 1. Adjust conter with a slotted screwdi or (1) tes in the center of the zero box. This is often all that is required it correct calibration issues.
- 2. Apply full scale pressure. If error exceeds 1% rotate the black span adjustment device with a #0 square drive bit. Clockwise increases span, counterclockwise decrease span.
- 3. Fully exhaust pressure and check that pointer still is still in the zero box. If not, repeat step 1 and 2
- 4. Once 0 and full scale are within tolerance, pressurize gauge to mid-scale.
- 5. If gauge is within 1%, calibration is complete. If not loosen the dial screw and rotate dial left or right to adjust midpoint. Retighten dial screw.
- 6. If an adjustment was made in step 5, recheck the gauge at zero and full scale, adjust accordingly until zero, mid and full scale points are in tolerance.

#### Vacuum Range -

- 1. Adjust pointer with a slotted screwdriver until it is in the center of the zero box. This is often all that is required it correct calibration issues.
- 2. Apply 25 inches Hg vacuum. If the error exceeds 1% adjust pointer with a slotted screwdriver until gauge is within tolerance.



- Vent to 0 pressure and check pointer position in the zero box. If error exceeds 1% rotate the black span adjustment device with a #0 square care bit. Clockwise rotation moves contend clockwise, counter-clockwise rotation moves the pointer counterclockwise. Repeatsive that 2 until 0 and 25 inches of Hg are
- 4 w than or use tolerance. 5
  - Apply 15 inches Hg vacuum. If gauge is within 1%, calibration is to nplete. If not loosen the dial screw and otate dial neft or right to adjust midpoint. onten dial screw.
- If an adjustment was made in step 4, recheck the gauge at zero and 25 inches of Hg vacuum, adjust accordingly until zero, 15 and 25 inches Hg are in tolerance.
- 7. Continue below.

Re-assemble window and ring to gauge:

- a. If plastic window is used, push window back into front of gauge, ensure the o-ring does not roll out of window groove (lubricate if necessary). Align the tabs of the window with the tabs of the case front. Once window is in place, install ring and tighten with tools referenced above and shown on page 10.
- **b** If safety glass is used, reinstall window, gasket, and ring. Ensure that the gasket is seated properly under all four tabs of the ring and does not wrinkle when ring is tightened.

Note: Tighten ring: Apply 120-200inlb of torque. Rotate ring clockwise to tighten. Warning: over tightening of safety glass may induce cracking.

Notes: See page 10 for any tools required to calibrate.

For models produced after September 2008 for 21/2" version and December 2008 for 3½" version. Back of gauge will have a date code sticker.

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### TYPE 1279 & 1379 SOLID FRONT DURAGAUGE® PRESSURE GAUGE CONVERSION INSTRUCTIONS TO:

- Convert A Standard Dry Gauge To A Liquid Filled Gauge
- Convert A Standard Dry Gauge To A Dry, Weatherproof IP66 Gauge

## **NASHCROFT**®



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