



## TYPE 1082 TEST GAUGE FEATURES (FOR 4½", 6" & 8½" TEST GAUGES)

**This Ashcroft® test gauge includes many new features, as follows:**

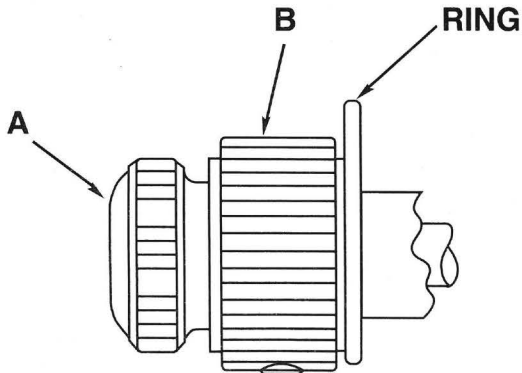
- Standard 1082 test gauge with hinged ring is equipped with an external zero adjust feature.
- Temperature compensation, which reduces temperature error by a factor of 3.
- Mylar\*/aluminum composite dial and knife edge pointer with red tip, for greatly improved readability. Larger dials have more subdivisions.
- Micrometer span adjustment for ease of calibration.
- Hydraulically staked movement for improved stability.
- Improved packaging to ensure that accuracy is not affected by shipping shocks.

\*Mylar – DuPont Trademark

**The Product also retains the many superior attributes long associated with Ashcroft® test gauges, including:**

- Long life bourdon tube and movement capable of sustained ¼% accuracy, yet suitable for process applications.
  - Solid front case with pressure relief back for maximum safety.
  - Available with bronze, stainless steel or monel pressure elements.
  - 4½", 6" or 8½" case sizes, lower or back connected, ¼" or ½" NPT.
  - Broadest selection of ranges: vacuum through 10,000 psi.
- \* SI and metric ranges (kPa, bar, kilogram/centimeter<sup>2</sup>).
- Underload and overload movement stops.

## INSTRUCTIONS FOR USE OF EXTERNAL ZERO ADJUST FEATURE\*



1. LOOSEN RING LOCKING SCREW **A**.
2. OBTAIN REQUIRED ADJUSTMENT BY ROTATING KNOB **B** CLOCKWISE OR COUNTER-CLOCKWISE.
3. TIGHTEN SCREW **A** DOWN ON KNOB **B**.

\*APPLICABLE ONLY FOR TEST GAUGE WITH HINGED RING DESIGN.

### ADDITIONAL CALIBRATION INSTRUCTIONS

- 1) "The working standard, at the pressure being tested, shall be at least 4x as accurate as the gauge being tested."  
(Ref: ASME B40.1 Para. 6.1.2.1)
- 2) The instrument used as the calibration standard should have a maximum range no greater than 2x that of the gauge being tested. (i.e. Do not use a 400psi standard to test a 15psi gauge).
- 3) "Known pressure shall be applied at each test point on increasing pressure (or vacuum) from one end to the other end of the scale. At each test point the gauge shall be *"...lightly tapped, and then read..."*"  
(Ref: ASME B40.1 Para. 6.2.3.1 (b))
- 4) To read gauge indication, move eye over red pointer tip at OD of printed dial until red reflection in mirror band is no longer visible, and then read the pointer position in reference to the dial.

THIS TEST GAUGE IS PROVIDED WITH A MICROMETER SPAN ADJUSTMENT, TO SIMPLIFY CALIBRATION. THE FLOW CHART BELOW OUTLINES THE RECOMMENDED CALIBRATION PROCEDURE.

