

## PIE FIELD INDICATOR



### GENERAL DESCRIPTION

**Magnetic Pie Field Indicator**, also known as a pie gauge, is a device used as an aid in determining the direction of magnetic field for detection of discontinuities in ferrous materials. It is an octagon shaped piece made with a low retentive steel surface having eight bonded slices, similar to pieces of pie. The octagon shaped piece is mounted on a handle so the inspector can place it on the part in the area being magnetized.

With an adequate amount of magnetizing current and proper particle application, the pie gauge will show indications in the same direction natural indications would appear.

### INSTRUCTIONS

1. Place the pie gauge as flat as possible on the part with the pie section side down. Make sure it is in the area to be magnetized.
2. Apply the magnetic current while applying the magnetic particles using the continuous method.
3. If using dry particles, lightly blow off the excess while the magnetic current is still on.
4. Artificial indications will appear on the pie gauge in the same direction as the natural defects.

### SPECIFICATIONS COMPLIANCE

ASTM E 709-08 (Section 20.8.5.1)

ASTM E 1444/E1444M-12 (Section 6.2.5, X5.1)

BPVC (Section V, Article 7: T-764.2 (a))

Compliances to



**E1444/709-08/Section V  
/E1417**

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