

PERFORMANCE INDICATORS pi SERIES

M(pi): Performance indicators for Magnetic Particle Inspection

Pie field indicator (Pie gauge)

Qualitech Pie Field Indicator (Pie gauge) is used to indicate the direction of magnetic field. It is a non quantitative device and not quantitative indicator of field strength. Qualitech pie field indicator (pie gauge) meets the requirements of ASTM-E 1444 for magnetic particle testing.

The pie gauge is fabricated from eight pieces of low carbon steel pie sections brazed together. The brazed lines act as discontinuities between the wedge sections. One face of the gauge is copper plated. Suitable handle is provided so that the pie gauge is placed properly on the job during testing.



Procedure.

Pie gauge is placed flat on the section of the part to be inspected. The part is magnetized by passing the current through it. The magnetic powders dry or wet solution and the indications are observed with current ON. The brazed line showing the strongest indication is the one that is perpendicular to the magnetic flux. The pie gauge is normally demagnetized after use.