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Product Name :
Circular Diaphragm

Product Code :
LBNY-0005-1760004



Description :

Internal pressure is applied to the diaphragm by a hydraulic hand pump. Pressure in the diaphragm is indicated on a pressure gauge. A dial gauge is fitted onto a cross bar to measure the diaphragm surface profile. The Circular Diaphragm equipment is used for studying the stress and deflection of a thin diaphragm. The circular aluminum alloy diaphragm is clamped around its edge by two heavy steel flanges. Each strain gauge is wired to form a full bridge with temperature compensation gauge and zero adjustment in a bridge box with strain gauge indicator. Scale on the cross bar indicates the dial gauge position. The strain gauges are fitted onto the diaphragm at different angles and radii.

Experiments:

Strains on the diaphragm surface under pressure.
Deflection of circular diaphragm under pressure.

Technical Specification :

Diaphragm:
Effective diameter : 200 mm.
Pressure gauge : 1 kg/cm².
Maximum internal pressure : 60 kN/m².
Dial gauge : 1 ea 0-20 mm x 0.01 mm graduation.
Number of strain gauges : 8 ea.
Power supply : 220V 1Ph 50Hz.
Bridge box and strain indicator : 8 inputs.



Laboratory Instrument India