



Email : sales@laboratoryinstrumentindia.com

Product Name :
Diaphragm Apparatus

Product Code :
LBNY-0005-1380006



Description :

A sturdy base contains all parts of the Diaphragm apparatus. This forms a compact product, ideal for use on a workbench. Two heavy flanges clamp the edge of the diaphragm to provide built-in edge conditions. The area directly under the diaphragm contains oil. The Diaphragm apparatus allows students to examine the effect of pressure on the surface profile of a diaphragm. The signals from each strain gauge are shown on a digital display. A digital dial gauge is fitted to a digital position indicator. The dial gauge can be traversed across the diaphragm to measure its surface profile. They can also determine the distribution of circumferential and radial strains across its diameter. Eight strain gauges are cemented to the top surface of the diaphragm in various positions and at different radii. Each strain gauge circuit is a full bridge, with high-stability resistors. Students use a hydraulic pump to increase the oil pressure under the diaphragm. They record the strain readings and diaphragm profile at different pressures. Both instruments can connect to optional Versatile Data Acquisition System.

Technical Specification :

Diaphragm Apparatus



Laboratory Instrument India

