

Product Code . JE-MELE-10990

Pascals Apparatus



Description

Pascals Apparatus

Description:-

This apparatus is designed to demonstrate Pascal's principle consists of a machined body incorporating a horizontal flexible diaphragm to which one of three alternative glass vessels can be fitted.

A spirit level indicates when the lever arm is horizontal and therefore balancing the force/pressure at the base of the vessel.

A height-adjustable pointer enables each of the vessels to be filled to the same depth so that the force/pressure can be shown to be common for all three vessels, independent of shape.

The diameter at the base of each vessel is common but the shape of each vessel varies; one-parallel sided, one conical and one tapering inward.

The diaphragm located at the base of the vessel, conveys the force from the water inside the vessel to a lever arm with a sliding counter weight.

The force on the diaphragm depends on the depth of water above the diaphragm and the area of the diaphragm that is constant for all three vessels.

Measurement Capabilities:-

Demonstrating that the pressure in a liquid contained in a vessel, varies with depth and is not affected by the shape of the vessel

Technical Specifications:-

Height-adjustable pointer enables all vessels to be filled to a common depth

Lever arm with sliding weight and spirit level measures force at the base of the vessel

Diameter at diaphragm: 56 mm

Three alternative glass vessels supplied: parallel sided, conical and tapering

Parallel vessel: 26 mm inside diameter

Flexible diaphragm retained by 'O' ring for ease of replacement

Conical vessel: 26-101 mm inside diameter at top




Tapered vessel 26 mm to 9 mm inside diameter at top

Maximum depth of water: 228mm (to top of vessels)

Pascals Apparatus Manufacturer, Pascals Apparatus Suppliers, Pascals Apparatus Exporters, Pascals Apparatus in India.

{ "@context": "https://schema.org/", "@type": "Product", "name": "Pascals Apparatus", "image": "https://www.jaincoexport.com/images/catalog/product/1253621593PascalsLawApparatus.jpg", "description": "This apparatus is designed to demonstrate Pascal's principle consists of a machined body incorporating a horizontal flexible diaphragm to which one of three alternative glass vessels can be fitted. A spirit level indicates when the lever arm is horizontal and therefore balancing the force/pressure at the base of the vessel. A height-adjustable pointer enables each of the vessels to be filled to the same depth so that the force/pressure can be shown to be common for all three vessels, independent of shape. The diameter at the base of each vessel is common but the shape of each vessel varies; one-parallel sided, one conical and one tapering inward. The diaphragm located at the base of the vessel, conveys the force from the water inside the vessel to a lever arm with a sliding counter weight. The force on the diaphragm depends on the depth of water above the diaphragm and the area of the diaphragm that is constant for all three vessels. Measurement Capabilities:- Demonstrating that the pressure in a liquid contained in a vessel, varies with depth and is not affected by the shape of the vessel Technical Specifications:- Height-adjustable pointer enables all vessels to be filled to a common depth Lever arm with sliding weight and spirit level measures force at the base of the vessel Diameter at diaphragm: 56 mm Three alternative glass vessels supplied: parallel sided, conical and tapering Parallel vessel: 26 mm inside diameter Flexible diaphragm retained by 'O' ring for ease of replacement Conical vessel: 26-101 mm inside diameter at top Tapered vessel 26 mm to 9 mm inside diameter at top Maximum depth of water: 228mm (to

top of vessels) Pascals Apparatus Manufacturer, Pascals Apparatus Suppliers, Pascals Apparatus Exporters, Pascals Apparatus in India.", "brand": "Jainco", "sku": "5", "gtin8": "5", "gtin13": "5", "gtin14": "5", "mpn": "5", "aggregateRating": { "@type": "AggregateRating", "ratingValue": "5", "bestRating": "5", "worstRating": "0", "ratingCount": "5" } }

Jain Laboratory Instruments Pvt. Ltd,
Hargolal Road, Ambala Cantt, Haryana India
Direct Contact Details  +91-8569909696  sales@jlabexport.com
 www.jlabexport.com