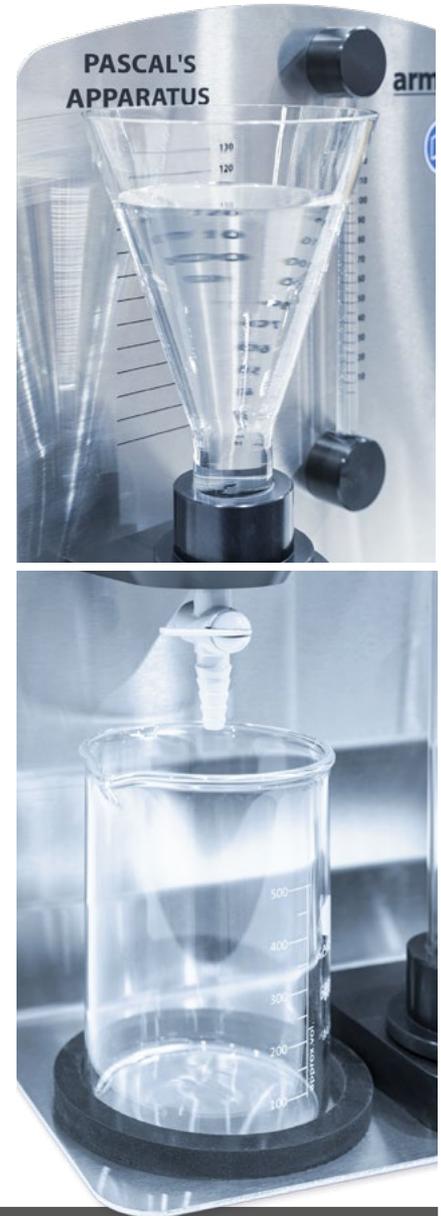


F
SERIES

The Pascal's Apparatus demonstrates in a simple way that the pressure in an incompressible fluid varies with depth and does not depend on the shape of the container.



F1-31 PASCAL'S APPARATUS



Experimental content

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

Description

This apparatus, designed to demonstrate Pascal's principle, consists of a machined body into which one of four alternative glass vessels can be fitted. The fitting at the base of each vessel is common but the shape of each vessel varies; one parallel sided, one conical, one tapering inwards, and one parallel sided, but with an offset.

The pressure at the base of the vessel is measured by the manometer on the right, via a tube at the rear of the equipment. The reading on the manometer depends on the pressure generated within the main body. An adjacent scale is marked in millimetres (mm).

A scale on the back of the apparatus allows each of the vessels to be filled to the same depth so that the pressure / force can be shown to be common for all four vessels, independent of shape.

The seal at the base of the vessels is in the form of a flat washer, allowing for ease of cleaning and replacement when necessary.

A lever operated drain valve on the underside of the machined body allows liquid to be drained from the apparatus before removing the vessel.

A "Vessel Store" is provided on the base of the equipment to provide safe storage for the vessels not in use in each experiment.

A beaker is provided to allow easy filling and draining between experiments.

Technical specifications

Parallel vessel	26mm inside diameter
Conical vessel	26-101mm inside diameter at top
Tapered vessel	26mm to 9mm inside diameter at top
Diameter at diaphragm	56mm
Maximum depth of water	228mm (to top of vessels)

Overall dimensions

Length	0.35m
Width	0.135m
Height	0.45m

Ordering codes

- ▶ F1-31

Armfield standard warranty applies with this product

Knowledge base

- > 28 years' expertise in research & development technology
- > 50 years' providing engaging engineering teaching equipment

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