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Product Name :

Pascal's Sphere

Product Code :

SCL1225/011



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Description :

Pascal's Sphere (Product Code: SCL1225/011) is a complete demonstration of Pascal's law: a hollow sphere with 10 equidistant nozzles, connected to a hand pump whose plunger applies pressure to the fluid inside. Push the plunger and fluid leaves every nozzle with equal force in all directions, showing that a change in pressure in a fluid is transmitted equally to all its parts. Supplied with instructions, it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its educational laboratory equipment in India for fluid-pressure lessons.

Specifications

Parameter	Detail
Type	Pascal's law demonstration apparatus
Main parts	Hollow sphere connected to a hand pump with plunger
Nozzles	10, equidistant over the sphere
Principle shown	A change in pressure in a fluid is transmitted equally in alldirections to all parts of the fluid
Documentation	With instructions

Typical Use

The sphere is filled with water, the teacher pushes the plunger steadily, and thin jets spring from all the nozzles at once – upwards, downwards and sideways alike. Because the jets leave with equal force whichever way the nozzles point, students can see that the pressure applied at the pump is passed on undiminished throughout the liquid. The lesson leads naturally to hydraulic jacks, presses and vehicle brakes, where a small force on a small piston produces a large force on a larger one.

Carry out the demonstration over a sink or a large tray, and push the plunger smoothly rather than in jerks for even jets. After class, empty out the water, let the sphere and pump dry, and check that no nozzle is blocked, since a blocked opening spoils the symmetry of the display. Follow the supplied instructions for filling and use.

Manufacturer

Jain Scientific Equipments Private Limited, trading as ScienceLab, builds this sphere in Ambala, Haryana, as one of several apparatus it makes for teaching pressure and fluids to secondary students. You can find out more from the company profile.

Related Lab Equipment

Other items for a fluids and pressure unit:

- Glass Beaker — a container of water for filling the sphere through its nozzles.
- Pascal's Principle Demonstrator — an alternative apparatus for the same law.

More

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