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Product Name :

Bourdon Gauge

Product Code :

SLE/PHY/24



Description :

Bourdon Gauge (Product Code: SLE/PHY/24) is a dial pressure gauge used to measure and demonstrate positive gas and liquid pressures in general and laboratory work, including school and college physics classes. A substantial black needle reads against a 100 mm diameter white face scaled in kg/cm² and psi, and a clear Perspex back lets students watch the Bourdon mechanism move. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, a physics instruments supplier in India for schools, colleges and dealers.

Specifications

Parameter	Detail
Use	General and laboratory use
Mounting	Rugged gauge on a heavy metal base for stability
Back cover	Clear Perspex, so the mechanism can be viewed
Inlet	Rifled metal input tube designed to fit rubber tubing of 8 mm internal diameter
Dial	100 mm diameter white face with a substantial black needle
Scales	kg/cm² (black) and psi (red)
SI conversion	Multiply the kg/cm² reading by 10^5 for an approximate value in pascals
Pressure type	Positive pressures only (above atmospheric)
Product code	SLE/PHY/24
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Bourdon Gauge Used For?

Inside the gauge is a Bourdon tube, a curved, flattened metal tube that tends to straighten as the pressure inside it rises; a linkage turns that small movement into the sweep of the needle. With the Perspex back, students can see this happen while a teacher pumps air into the gauge through rubber tubing pushed onto the rifled inlet. It is used for gas-law work such as pressure against volume, for checking the pressure in a sealed container, and as a readable demonstration dial at the front of the class.

The dual scale lets students compare engineering units, and multiplying the kg/cm² reading by 10^5 converts it to pascals with enough accuracy for class calculations. Use rubber tubing of 8 mm internal diameter so the connection seals well. The gauge is for positive pressures only: never connect it to a vacuum pump or any other source of negative pressure, as that could damage the apparatus.

Supplier

ScienceLab is the trading name of Jain Scientific Equipments Private Limited, which supplies the Bourdon Gauge from Ambala, Haryana, India. The company sources this gauge and looks after quota dia and i N 06AA

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