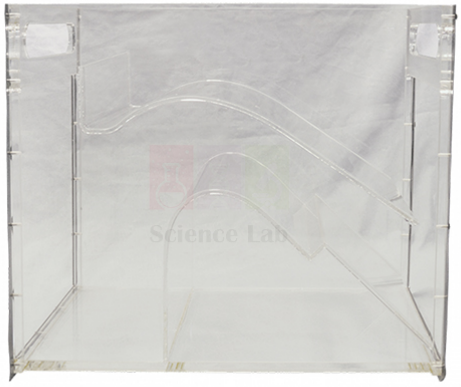
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Product Name :

Self Regulating Siphon

Product Code :

SLE/EFM/16



Description :

Self Regulating Siphon (Product Code: SLE/EFM/16) is a clear acrylic hydraulic model that shows a siphon adjusting its own discharge over a wide range while holding the upstream water level almost constant. Unlike a simple siphon that runs either full or not at all, this one passes a mixture of air and water, which is the key to its self-regulating behaviour. The model helps civil and water-resources engineering students understand siphon spillways used for level control, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its vocational training and engineering lab equipment.

Key Details

Parameter	Detail
Type	Self-regulating siphon model
Material	Clear acrylic
Function	Adjusts its discharge automatically over a wide range
Upstream level	Kept mostly constant as discharge changes
Flow through siphon	Mixture of air and water
Suitable for	Open-channel hydraulics teaching and demonstration

Typical Use

In a demonstration, the inflow to the model is raised in steps while students watch the siphon barrel through the transparent walls. At modest flows the siphon draws in air along with the water; as inflow increases, less air enters and more water passes, so the discharge rises while the upstream level barely moves. Recording the upstream level against discharge produces a remarkably flat curve, which students then compare with the steep level–discharge relationship of an ordinary weir or gate.

The model links neatly to real practice in canal and reservoir design, where siphon spillways protect structures from over-topping without moving parts. Fit it level and watertight in your channel, change flow slowly so each condition can settle, and rinse the acrylic with clean water after use. The mounting arrangement depends on your channel, so confirm fitting details with us before ordering.

Manufacturer

ScienceLab is the product brand of **Jain Scientific Equipments Private Limited**, an Ambala, Haryana company that builds hydraulics models for technical education. For tender and vendor registration, our details are GSTIN 06AAECJ8618A1ZT and LEI 3358004HRD1JIVXKYX49. The company profile page gives a fuller picture of the business.

Related Fluid Mechanics Equipment

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