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Product Name :
Impulse Turbine Apparatus

Product Code :
LBNY-0005-103000118



Description :

Investigation of a compressed air driven axial impulse turbine
Applying a load to the turbine by using the band brake
Setting the primary pressure with the pressure reducing valve
Manometer for displaying pressures on the inlet and outlet side
Digital display of speed, torque and temperature
Valve and flow meter for setting the flow rate
Solenoid valve as a safety device to prevent over speed
Transparent front panel for observing the operating area
Distributor with 4 nozzles
Selectable number of nozzles
Determination of the torque on the turbine shaft using a force sensor
Measurement of the turbine speed with an optical speed sensor.

Technical Specification :

Technical Data:

Axial impulse turbine
Max. power: 50W at 15000min⁻¹
Stator
4 nozzles, number can be selected
Entry and exit angle: 20
Rotor
Diameter: 55mm

Number of blades: 28
Measuring ranges
Temperature: -20...1100C
Torque: 0...10Ncm
Flow rate: 25...315L/min
Speed: 0...40000min-1
Primary pressure: 0...10bar
Inlet pressure: 0...2,5bar
Outlet pressure: 0...0,1bar.



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