



#### DESCRIPTION

A 1.5" or DN40 inlet and outlet cutaway Vane Pump for studying the internal construction and operation of an industrial Vane Pump.

Vane pumps are a type of positive displacement pump that use sliding vanes mounted in a circular rotor, set eccentrically inside a larger circular chamber. As the rotor turns, the vanes move in and out of the rotor to maintain contact with the chamber, creating vane chambers that force fluid out of the pump as their volume changes. Vane pumps are typically used in high pressure applications such as hydraulic systems and as vacuum pump in a wide range of applications such as air conditioning systems.

The CPU-VA series of cutaway vane pumps uses brand new industrial vane pumps that are cut away to clearly show the inlet, outlet, rotor, vanes and seals, allowing students to easily visualise pump operation and identify the main pump components.

#### LEARNING OBJECTIVES

- Internal construction of an industrial vane pump
- Identify the main parts of an industrial vane pump
- Visualisation of flow path for an industrial vane pump
- Operation of an industrial vane pump
- Maintenance of an industrial vane pump



SUPPLIED WITH  
**COMPREHENSIVE  
LITERATURE  
AND REFERENCE  
MATERIALS**

**TECHNICAL SPECIFICATION**

Brand new industrial vane pump
1.5"/DN40 inlet/outlet
Section to reveal rotor and vanes
Side suction
Top discharge
Cast iron body
Colour coded for easy component identification
Handle for rotation of pump vanes
Mounted on a sturdy base plate or mobile frame for ease of use

**ALTERNATIVE PRODUCTS**

CPU-VA25 2.5"/DN65 Cutaway Vane Pump
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