

Product Name :
Pump and Valves and Fittings Test Stand

Product Code :
AR541



Description :

Pump and Valves and Fittings Test Stand

Technical Specification :

Pump and Valves and Fittings Test Stand

The typical kinds of valves and fittings are represented by a ball valve, a butterfly valve, a gate valves, a shut-off valve and a control valve. A safety valve and a dirt trap are also investigated. All valves and fittings are flanged, and can be installed in a pipe section with variable length. The pipe section is part of a closed water circuit.

Pressure measurement points upstream and downstream of the valve and fitting under test are linked by a differential pressure manometer. This manometer is fitted with a pressure switch which activates a warning lamp if the pressure difference becomes excessive, such as when the filter is clogged. An electromagnetic flow rate sensor permits precise recording of the flow rates.

The closed water circuit contains three butterfly valves, to isolate the pump, and to adjust the pressure upstream and downstream of the test fitting. Differential pressures across the pump and test fitting, the power consumption and speed of the pump, and the flow rate and opening angle of the control valve are recorded and displayed.

The measured data can also be used to plot pump characteristics.

A vice is included, on a separate workbench, for maintenance and assembly work. The workbench also incorporates the necessary tools and connecting hoses.

Trainer for testing various valves and fittings

Installation of the test fitting in a pipe section of variable length

Centrifugal pump with variable speed via frequency converter

Fine pressure regulator adjusts compressed air pressure

Tank cover as collecting tray under test device

Manometers at inlet and outlet of centrifugal pump

Pressure measuring points upstream and downstream of test device for differential pressure manometer with pressure switch

Digital displays for flow rate, power output, speed, position of control valve

Technical Data:

Centrifugal pump

Power consumption: 4kw

Flow rate: 72m³/h

Head: 26,5m

Speed: 1450...2900rpm

Supply tank with cover: capacity: 400L

Test valves and fittings:

Safety valve 1", 1,5bar

Shut-off valve dn50 / pn16

Ball valve with pneumatic drive dn50

Butterfly valve dn50 / pn16

Wedge gate valve dn50 / pn16

Electric control valve dn50 / pn16

Dirt trap dn50 / pn16 with 2 filter elements

Measuring ranges

Differential pressure manometer: 0...2,5bar / 0...4bar

Manometer: 0...4bar / -1...0,6bar

Flow rate: 35...1100l/min

Opening range of control valve: 0...100%

Power output: 0...4000w

Speed: 0...2900rpm

400V, 50Hz, 3 phases.

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