FPL-005 HYDRAULIC ACCUMULATOR TEST RIG

RANGE OF EXPERIMENTS TO BE CARRIED OUT:

a. To study the performance of hydraulic accumulator at various loads

TECHNICAL DESCRIPTION :

A hydro-Pneumatic accumulator is a device used specifically for storage of liquid under pressure. As liquids, for all practical purposes, are incompressible, this objective is achieved by utilizing the compressibility of gases.

A flexible rubber separator i.e., diaphragm is fitted into the accumulator shell. An inert gas – nitrogen – is filled into the diaphragm through a pressure valve to a pressure po. the diaphragm expands, filling the entire volume Vo of the accumulator shell. When the system (Circuit) pressure P1 is higher than the gas precharge pressure PO, the liquid enters the shell and diaphragm is compressed reducing the gas volume to V1. Should the liquid pressure rise to P2, the volume of gas reduces to V2 with an attendant rise in pressure, thus balancing the liquid pressure.

A potential energy is now created in the accumulator to be utilized whenever needed. The system is provided with hydraulic power pack for applying pressure.

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DIMENSIONS AND WEIGHT :

Size :1.2 m.(L)x 0.6 m(W) X 1.0m (H)

Weight :Approx. 75 Kg

SERVICE REQUIRED :

440 v Ac Supply 50 Hz , Three Phase

Hydraulic Oil : 60 ltrs

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

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