FPL-004 HYDRAULIC SERVO SYSTEM

RANGE OF EXPERIMENTS TO BE CARRIED OUT:

a. To study the response of system at various input pressure

b. To study the response for step input at no load condition

. c. To study the response for inertia load

d. To study the response for Viscous Damping

TECHNICAL DESCRIPTION :

The setup consist of power-pack, a four way spool valve used as a servo valve, the output cylinder, input and feedback linkages.
A sliding spool type servo-valve supplies fluid to a piston whose motion is feed back through mechanical linkages to actuate the servo-valve and closed the loop.
The translational output is converted into rotational output. The input and output displacements are transferred to recording pens through flexible linkages. A synchronous motor is used to feed paper strip at a constant speed on which input and output curve are obtained simultaneously.
To simulate inertia load on the output side, a load disc is mounted of which weights are clamped and the inertia can be varied.
A damper is attached to the output jack, to study the effect of damping on the output curve.
Damping is varied and its effect on output is observed.

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DIMENSIONS AND WEIGHT :

Size :1.2 m.(L)x 0.6 m(W) X 1.7m (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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