HYDRAULIC CIRCUIT DESIGN AND ANALYSIS

Learning Objectives

Upon completion of this chapter, the student should be able to:

- Identify the graphic symbols for various types of hydraulic components.
- Explain various hydraulic circuits to control single-acting and double-acting cylinders.
- Explain a regenerative circuit and determine the load-carrying capacities.
- Describe the working of a double-pump circuit along with its advantages.
- Explain the working of a sequencing circuit and a counterbalancing circuit.
- Differentiate between series and parallel synchronization circuits.
- Calculate the speed, pressure and load-carrying capacity of hydraulic circuits.
- Evaluate the performance of hydraulic circuits using various hydraulic elements.

1.1 Introduction

A hydraulic circuit is a group of components such as pumps, actuators, control valves, conductors and fittings arranged to perform useful work. There are three important considerations in designing a hydraulic circuit:

1. Safety of machine and personnel in the event of power failures.
2. Performance of given operation with minimum losses.
3. Cost of the component used in the circuit.

1.2 Control of a Single-Acting Hydraulic Cylinder

Lecture 24 Hydraulic Circuit Design And Analysis

Xiaolong Qi

Lecture 24 Hydraulic Circuit Design And Analysis:

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