

# 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

**RM Cervero**



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