ENGINEERING DRAWINGS FOR HYDRAULICS

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Engineering Drawings for Hydraulics starts with basic engineering drawing concepts that are included in a hydraulic drawing. The course then focuses on those items that are specific to hydraulic drawings from symbols to accessories to notes. Major components like the reservoir, manifold, pump motor group, hoses, gauges, meters, accumulators and sensors are all covered.

Credit Hours 3,50

Learning Objectives

- Ð Recognize aspects of engineering drawings that are unique to hydraulic systems.
- Ð Recognize and understand the importance of symbols that appear on, and are often exclusive to, hydraulic systems.
- Ð Identify the various main components in a hydraulic system on an engineering drawing for hydraulics.
- ֯ Understand the basic concepts of how a hydraulic system works.

Table of Contents

I. Distinct Characteristics

- Title Block
 - Do Not Scale Drawing
 - Drawing Tolerances
- Cylinder Description Box
 - Cylinders
 - Cylinder Elements
 - Cylinder Function
 - Ejectors

- **II. System Component Symbols**
 - Hydraulic Symbol Basics
 - Basic Symbols
 - Mechanical Operations

- Reservoir Components
- Breathers

Reservoir

- Hydraulic Filter
 - Heat Exchangers
 - Sight Gauges
 - Cleanout Covers
 - Tank Magnets

III. Accessory Symbols and Notes

- Hydraulic Hoses
- Pressure Gauges
 - Pressure Gauge Elements
 - Quick Connects - Test Points
- Flow Meters Accumulators
- Sensors
- Vibrational Isolators
- Notes
- dd

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- Valve Control Operations - Hydraulic Lines

Manifold

- Manifold Components - Ports

- Valves

 Pump Motor Group - Pump

- Motor

- Piston Pump Vane Pump
 - Gear Pump