

MET230 Hydraulics and Dynamics

Unit 1 Study Guide 2

Question 1

Which of the following statements is true about positive displacement pumps?

- a. Gear and vane pumps are the only two categories of positive displacement pumps
- b. A positive displacement pump cannot be used with a pressure relief valve
- c. The motion of a positive displacement pump cannot be reciprocating
- d. The output flow rate varies with the system pressure
- e. None of the above

Answer: e. "None of the above"

Question 2

Which of the following statements is true about dynamic pumps?

- a. Dynamic pumps are self-priming
- b. Centrifugal and axial pumps are not classified as dynamic pumps
- c. Dynamic pumps are used for low-volume, high pressure applications
- d. The flow rate output of dynamic pumps decreases as the circuit resistance increases
- e. None of the above

Answer: d. "The flow rate output of dynamic pumps decreases as the circuit resistance increases"

Problem 1

What is the theoretical flow rate from a fixed displacement axial piston pump with a twelve-bore cylinder operating at 750 rpm? Each bore has a 1-in diameter and the stroke of 0.5 in.

Solution

Known data

Number of cylinder $Y = 12$

Rotational speed $N = 750$ rpm

Bore diameter $D = 1$ in

Stroke $S = 0.5$ in

Using Trigonometry:

Unknown[s]

Theoretical flow rate Q_T ?

Needed

Piston/bore area A ?

Displacement volume V_D ?

Hydraulic Test Study Guide

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Velavancorresponding**



Hydraulic Test Study Guide:

The book delves into Hydraulic Test Study Guide. Hydraulic Test Study Guide is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hydraulic Test Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Hydraulic Test Study Guide
- Chapter 2: Essential Elements of Hydraulic Test Study Guide
- Chapter 3: Hydraulic Test Study Guide in Everyday Life
- Chapter 4: Hydraulic Test Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Hydraulic Test Study Guide. The first chapter will explore what Hydraulic Test Study Guide is, why Hydraulic Test Study Guide is vital, and how to effectively learn about Hydraulic Test Study Guide.
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6. In chapter 5, this book will draw a conclusion about Hydraulic Test Study Guide. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Hydraulic Test Study Guide.

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