

INTRODUCTION

DESCRIPTION

Gear pumps have several sections and are made with a single set (single stage) of gears or with multiple sets (tandem) of gears. A single stage pump has two covers and the gear housing with the gears. Seals are used to prevent leaks between the sections. Tandem pumps have a gear housing for each set of gears. Most tandem pumps also have a center section for the bearings. The inlet and outlet ports are normally on the gear housing or rear cover. The front cover has the seal for the input shaft. The input shaft is connected to a driven sprocket, coupling, or gear by splines or a key.

All the gear pumps have devices that keep the thrust clearance at a minimum when the pressure increases. When the pressure is low, the clearance increases to pre-

vent wear. To prevent leakage when the pressure is high, the oil from the outlet side of the pump is transferred to a wear plate. The oil pushes the wear plate against the gears. Some pumps have bearing blocks that move closer to the gears when the pressure increases.

OPERATION

Gear pumps have the teeth of the gears engaged in the center of the pump. When the input shaft is turned, the drive gear turns the driven gear. The oil in the inlet chamber is moved out from the center by the teeth of rotating gears. The oil between the teeth is moved around the pumping chamber to the outlet chamber. The oil is pushed from the outlet chamber by the gear teeth that are beginning to engage.

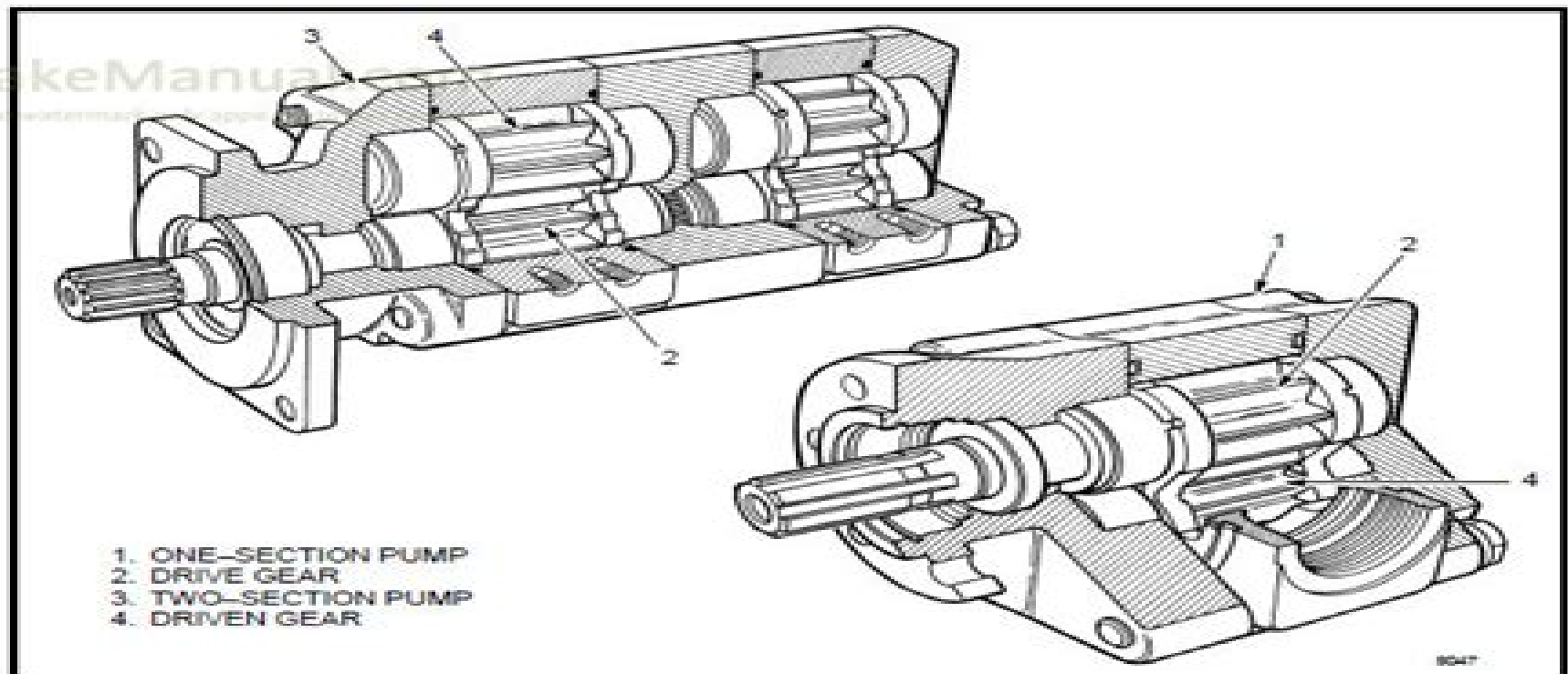


FIGURE 1. TYPES OF GEAR PUMPS

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Table of Contents Hyster B174 R30es Forklift Service Repair Factory Manual Instant

1. Understanding the eBook Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - The Rise of Digital Reading Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Advantages of eBooks Over Traditional Books
2. Identifying Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Personalized Recommendations
 - Hyster B174 R30es Forklift Service Repair Factory Manual Instant User Reviews and Ratings
 - Hyster B174 R30es Forklift Service Repair Factory Manual Instant and Bestseller Lists
5. Accessing Hyster B174 R30es Forklift Service Repair Factory Manual Instant Free and Paid eBooks
 - Hyster B174 R30es Forklift Service Repair Factory Manual Instant Public Domain eBooks
 - Hyster B174 R30es Forklift Service Repair Factory Manual Instant eBook Subscription Services
 - Hyster B174 R30es Forklift Service Repair Factory Manual Instant Budget-Friendly Options
6. Navigating Hyster B174 R30es Forklift Service Repair Factory Manual Instant eBook Formats

- ePub, PDF, MOBI, and More
- Hyster B174 R30es Forklift Service Repair Factory Manual Instant Compatibility with Devices
- Hyster B174 R30es Forklift Service Repair Factory Manual Instant Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Highlighting and Note-Taking Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Interactive Elements Hyster B174 R30es Forklift Service Repair Factory Manual Instant
- 8. Staying Engaged with Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hyster B174 R30es Forklift Service Repair Factory Manual Instant
- 9. Balancing eBooks and Physical Books Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hyster B174 R30es Forklift Service Repair Factory Manual Instant
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Setting Reading Goals Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Fact-Checking eBook Content of Hyster B174 R30es Forklift Service Repair Factory Manual Instant
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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