

Double mechanical shaft seals

Double mechanical shaft seals are used when the life span of single mechanical shaft seals is insufficient due to wear caused by solids or too high/low pressure and temperature. Further, double mechanical shaft seals are used in connection with toxic, aggressive and explosive liquids to protect the surroundings. Two types of double mechanical shaft seals exist: The double seal in a tandem arrangement and the double seal in a back-to-back arrangement.

Double seal in tandem

This type of double seal consists of two mechanical shaft seals mounted in tandem, that is one behind the other, placed in a separate seal chamber, see figure 1.3.14.

The seal type is used when a pressurised double mechanical shaft seal mounted in a back-to-back arrangement is not necessary.

The tandem seal arrangement has to be fitted with a quenching liquid system which

- absorbs leakage
- monitors the leakage rate
- lubricates and cools the outboard seal to prevent icing
- protects against dry-running
- stabilises the lubricating film
- prevents air from entering the pump in case of vacuum

The pressure of the quenching liquid must always be lower than the pumped liquid pressure.

Tandem - circulation

Circulation of quenching liquid via a pressureless tank, see figure 1.3.14. Quenching liquid from the elevated tank is circulated by thermosiphon action and/or by pumping action in the seal.

Tandem - dead end

Quenching liquid from an elevated tank, see figure 1.3.15. No heat is dissipated from the system.

Tandem - drain

The quenching liquid runs directly through the seal chamber to be collected for reuse, or directed to drain, see figure 1.3.16.

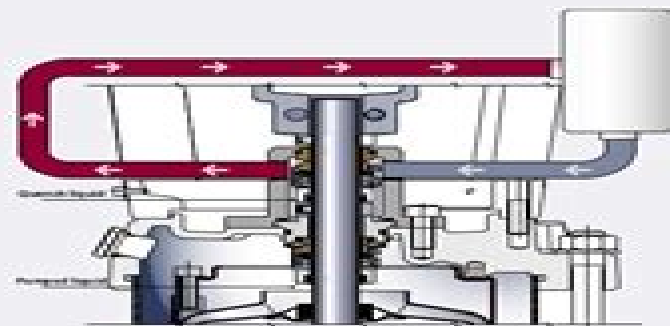


Fig. 1.3.14: Tandem seal arrangement with quench liquid circulation

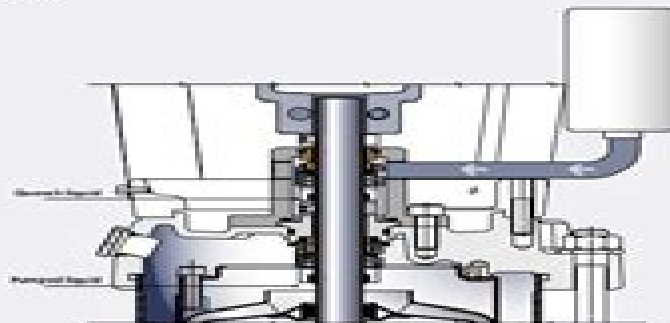


Fig. 1.3.15: Tandem seal arrangement with quench liquid dead end

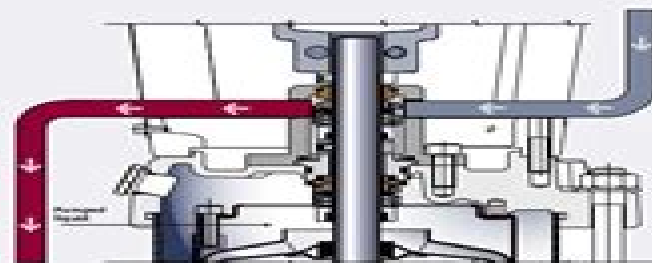


Fig. 1.3.16: Tandem seal arrangement with quench liquid to drain

Grundfos Pump Om Manual

Lauren Gardner



Grundfos Pump Om Manual:

This book delves into Grundfos Pump Om Manual. Grundfos Pump Om Manual is an essential 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 Grundfos Pump Om Manual, encompassing both the fundamentals and more intricate discussions.

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

- Chapter 1: Introduction to Grundfos Pump Om Manual
- Chapter 2: Essential Elements of Grundfos Pump Om Manual
- Chapter 3: Grundfos Pump Om Manual in Everyday Life
- Chapter 4: Grundfos Pump Om Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Grundfos Pump Om Manual. The first chapter will explore what Grundfos Pump Om Manual is, why Grundfos Pump Om Manual is vital, and how to effectively learn about Grundfos Pump Om Manual.
3. In chapter 2, this book will delve into the foundational concepts of Grundfos Pump Om Manual. The second chapter will elucidate the essential principles that must be understood to grasp Grundfos Pump Om Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Grundfos Pump Om Manual in daily life. This chapter will showcase real-world examples of how Grundfos Pump Om Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Grundfos Pump Om Manual in specific contexts. This chapter will explore how Grundfos Pump Om Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Grundfos Pump Om Manual. 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 Grundfos Pump Om Manual.

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