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## Introduction

Introductory page.

An **image map** is a list of coordinates defining areas over an image. These areas can link to different destinations (URLs).

For a sample image map of a **gear pump**, see the Gear Pump - Exploded View on page 3 topic. Transform the DITA map to an HTML output in order to see how clicking over the image works.

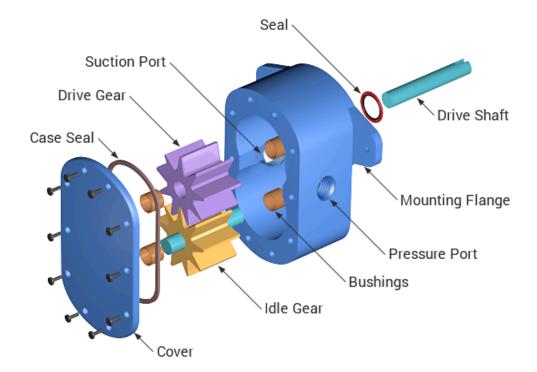
## **Gear Pump - Exploded View**

Detailed description.

A **gear pump** uses the meshing of gears to pump fluid by displacement. They are one of the most common types of *pumps* for hydraulic fluid power applications. *Gear pumps* are also widely used in chemical installations to pump high viscosity fluids.

#### An exploded view diagram of a gear pump

Click on **Edit image map** to edit the map, or use **Image map details** to see the defined areas directly in the document.



- 1. Bushings
- 2. Bushings
- 3. Bushings
- 4. Bushings
- 5. Drive Gear
- 6. Idler Gear

- 7. Suction Port
- 8. Pressure Port
- 9. Mounting Flange
- 10. Shaft Seal
- 11. Case Seal
- 12. Drive Shaft

### **Bushings**

#### **Bushings**

A *bushing*, also known as a *bush*, is an independent plain bearing that is inserted into a housing to provide a bearing surface for rotary applications. The bushings in the **gear pump** provide a bearing surface for the **drive gear** and **idler gear**.

#### **Drive Shaft**

#### **Drive Shaft**

A *drive shaft* is a mechanical component for transmitting torque and rotation, usually used to connect other components of a drive train that cannot be connected directly because of distance or the need to allow for relative movement between them..

### **Gears**

The **gear pump** uses two identical gears rotating against each other. One gear is driven by a motor and it in turn drives the other gear. Each gear is supported by a shaft with *bushings* on both sides of the gear.

#### **Drive Gear (Rotor)**

The *drive gear* in the **gear pump** is the gear that is driven by the motor.

#### **Idler Gear**

The *idler gear* is the gear that is driven by the *drive gear*.

## **Mounting Flange**

#### **Mounting Flange**

The mounting flange is used to fix the pump on a support apparatus.

#### **Ports**

#### **Suction Port**

The liquid enters in the pump through the *suction port*.

#### **Pressure Port**

The liquid leaves the pump through the *pressure port* (or discharge port).

## **Seals**

### **Shaft Seal**

This is a seal that is placed between the *drive shaft* and the main case of the **gear pump**.

#### Case Seal

The case seal is placed between the main case and the case cover.

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