

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.

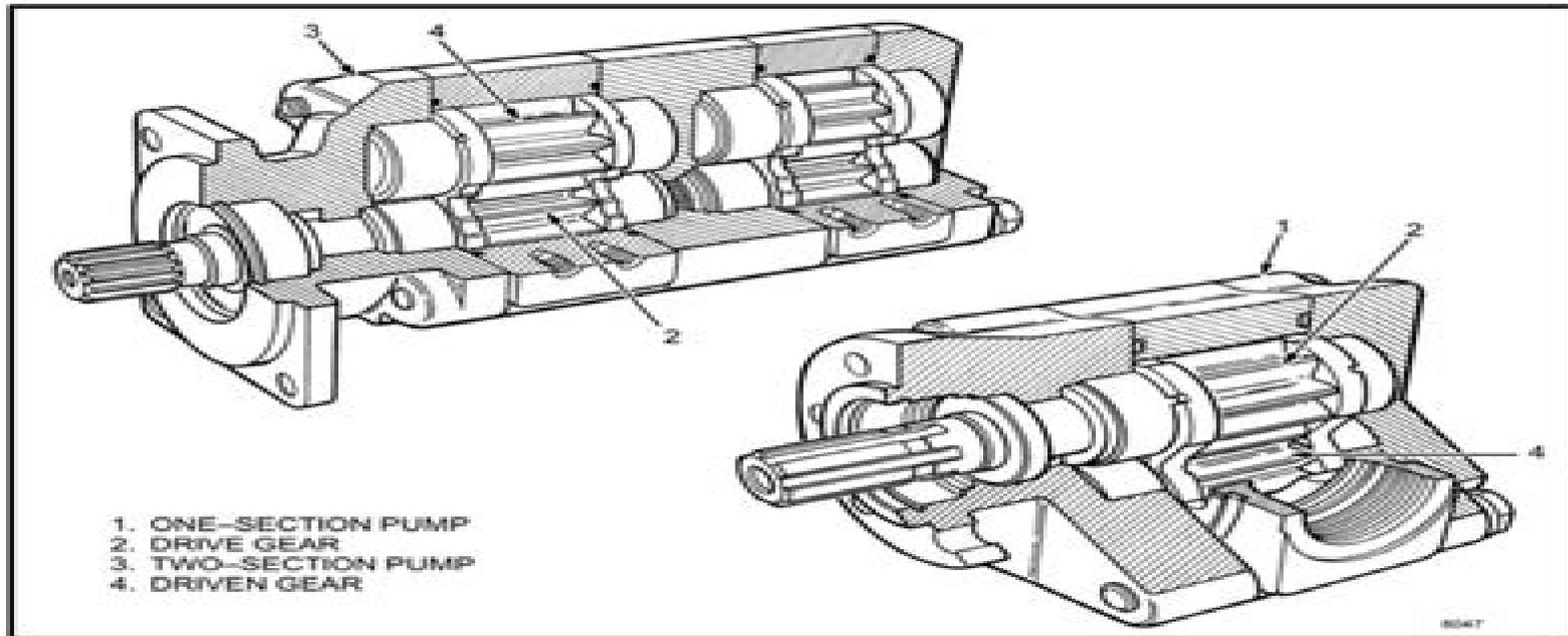


FIGURE 1. TYPES OF GEAR PUMPS

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web the fifteen elements shown in table pageindex 1 from lanthanum la 4f 0 to lutetium lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium sc and yttrium y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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web nov 1 1998 production of lanthanides has shown a continuous increase in recent years 50 taking all these facts into account it is reasonable to consider the development of corrosion protection methods using this family of compounds at first the lanthanide elements principally cerium were used in protection against corrosion at high

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web lanthanides metals peptides and proteins selectivity abstract the essential biological role of rare earth elements lay hidden until the discovery in 2011 that lanthanides are specifically incorporated into a bacterial methanol dehydrogenase

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web jan 1 2000 powell describes displacement chromatography and elution chromatography as the two principal methods for separating lanthanide cations by ion exchange chromatography in displacement chromatography the ions to be separated are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium