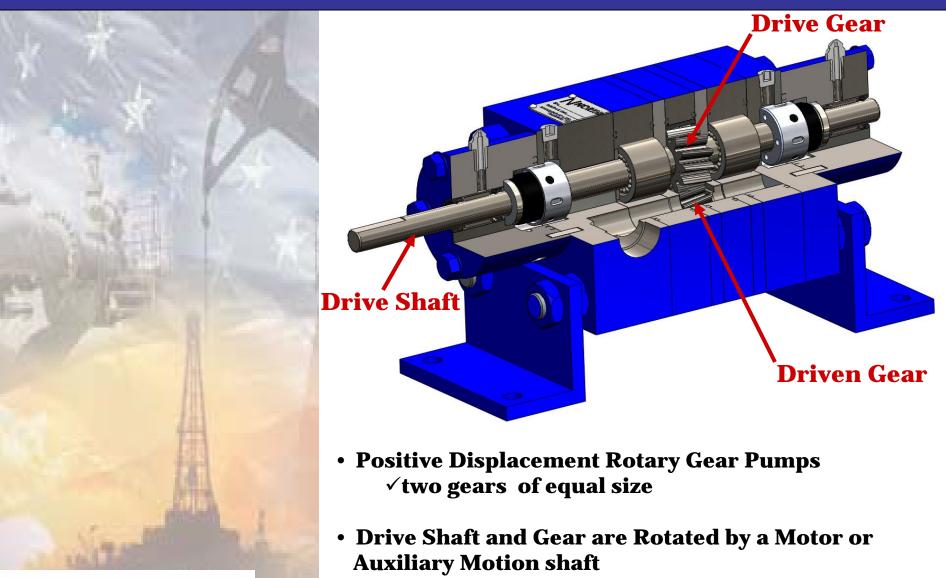


Gear Pump 101 Lesson 1: Gear Pump Basics

When your reputation depends on it!



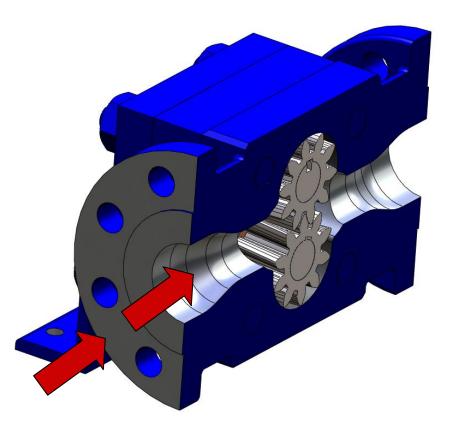


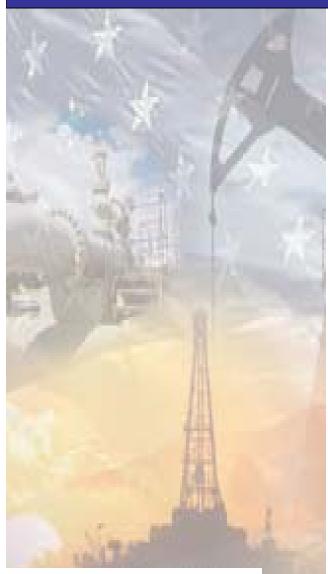
• Drive Gear Turns the Driven Shaft and Gear.





- Hydraulic Vacuum Pulls Fluid Into Pump
- Charge Pump Only Needed for Extremely High Viscosities or High Flow Rates







- Fluid is Pushed Through the Gears in the Area Between the Teeth.
- As Gears Mesh Mechanical Force Generates High Hydraulic Pressure



Northern 4000 Series pumps are typically rated to generate up to 2000 pounds per inch2 (PSI)



Suction or Discharge Connection

Mounting

Bracket



Suction or Discharge Connection





• Determine Pump Rotation as Clockwise, or Counter Clockwise.

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Suction CW Rotation Discharge CCW Rotation

> Discharge CW Rotation Suction CCW Rotation

Northern[®] Fast Fact.....

Northern pumps can be designed To operate in either direction, However they can only operate In the manner they are designed.