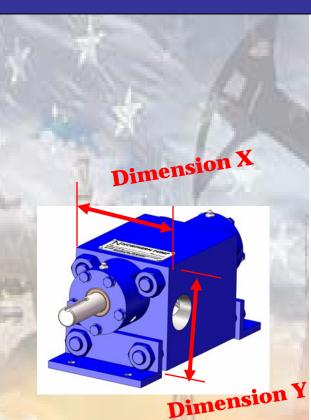


# Gear Pump 101 Lesson 4: Model Numbers

When your reputation depends on it!



**Frame Size** 

### Introduction

- Accommodates virtually any specific flow rate.
- Sizing a combination of overall frame size and gear length.
- Displacement is increased or decreased by overlapping series sizes and gear lengths. <u>(See Pump 101 Lesson 2 for an explanation of displacement)</u>
- Delivers a precise and predictable rate of flow to meet demands.
- Lesson 4 is "geared" towards understands how pump model numbers are arranged.





#### **Name Plates**

The example below explains the meaning of the information on a typical nameplate.

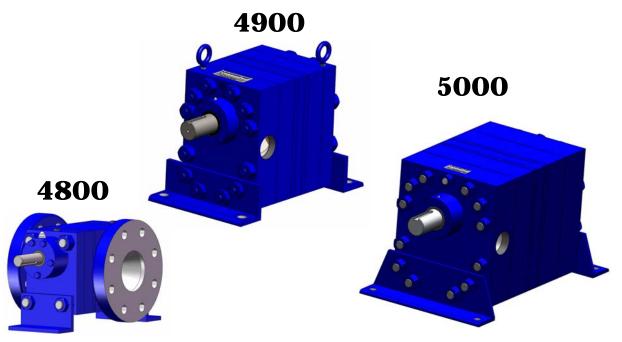


NORTHERN<sup>®</sup> PUMP



### **Pump Series**

- Motors:
  - ✓ Electric Motor Driven at Standard Motor Speeds (1150,
    - 1750, or 3600 RPM)
  - ✓ Variable Frequency Drives (VFD)
- 4000 Series Pumps are available in 6 different "Frame Sizes".
  - ✓ 4300, 4400, 4500, 4600, 4800, and 4900.
- NPC Series and vertical pumps.



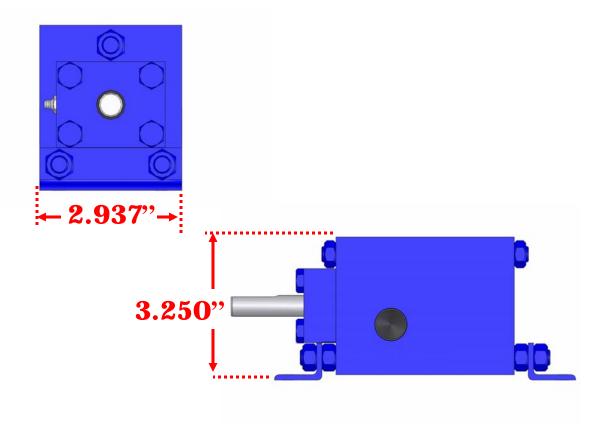


### **4300 Series Frame Size**

Available in a variety of configurations, material, and special features. For flow rate information visit:

http://www.northern-pump.com/product\_information\_packets.htm

#### 4300-01 4300-02 4300-03 4300-04 4300-06 4300-08 4300-10 4300-12





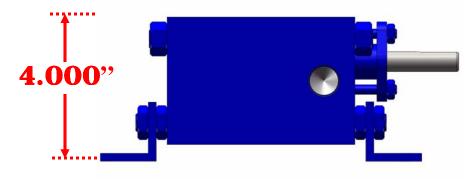
#### **4400 Series Frame Size**

Available in a variety of configurations, material, and special features. For flow rate information visit:

http://www.northern-pump.com/product\_information\_packets.htm

#### 4400-05 4400-07 4400-10 4400-15 4400-20 4400-25 4400-30





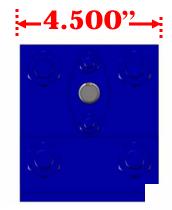


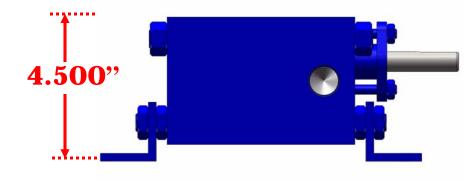
### **4500 Series Frame Size**

Available in a variety of configurations, material, and special features. For flow rate information visit:

http://www.northern-pump.com/product\_information\_packets.htm

#### 4500-05 4500-07 4500-10 4500-15 4500-20 4500-25 4500-30







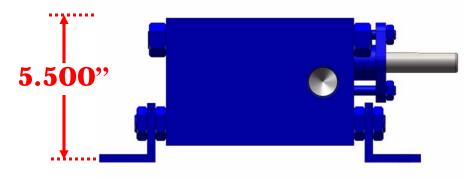
#### **4600 Series Frame Size**

Available in a variety of configurations, material, and special features. This is one of the most popular Northern® Pump frame sizes. For flow rate information visit:

http://www.northern-pump.com/product\_information\_packets.htm

#### 4600-05<mark>4600-07</mark>4600-10<mark>4600-15</mark>4600-20</mark>4600-25<mark>4600-30</mark>4600-40



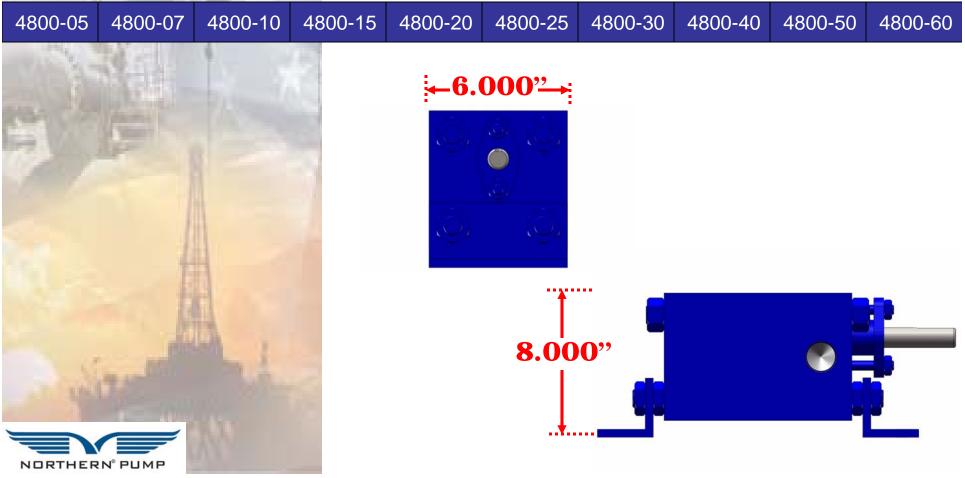




### **4800 Series Frame Size**

Available in a variety of configurations, material, and special features. For flow rate information visit:

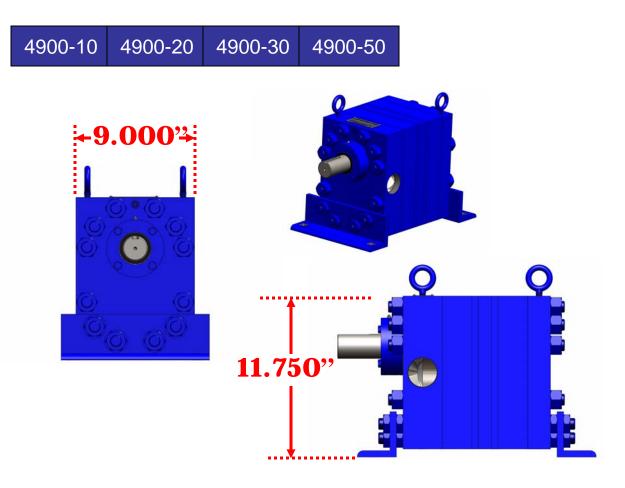
http://www.northern-pump.com/product\_information\_packets.htm





#### **4900 Series Frame Size**

Available in a variety of configurations, material, and special features. Utilized extensively in the pipeline industry, a more regular return of the 4900 series seems very likely.



#### **Gear Length**

Combination of different frame sizes and gear lengths to accomplish specific flows.

