



# Drill Motor

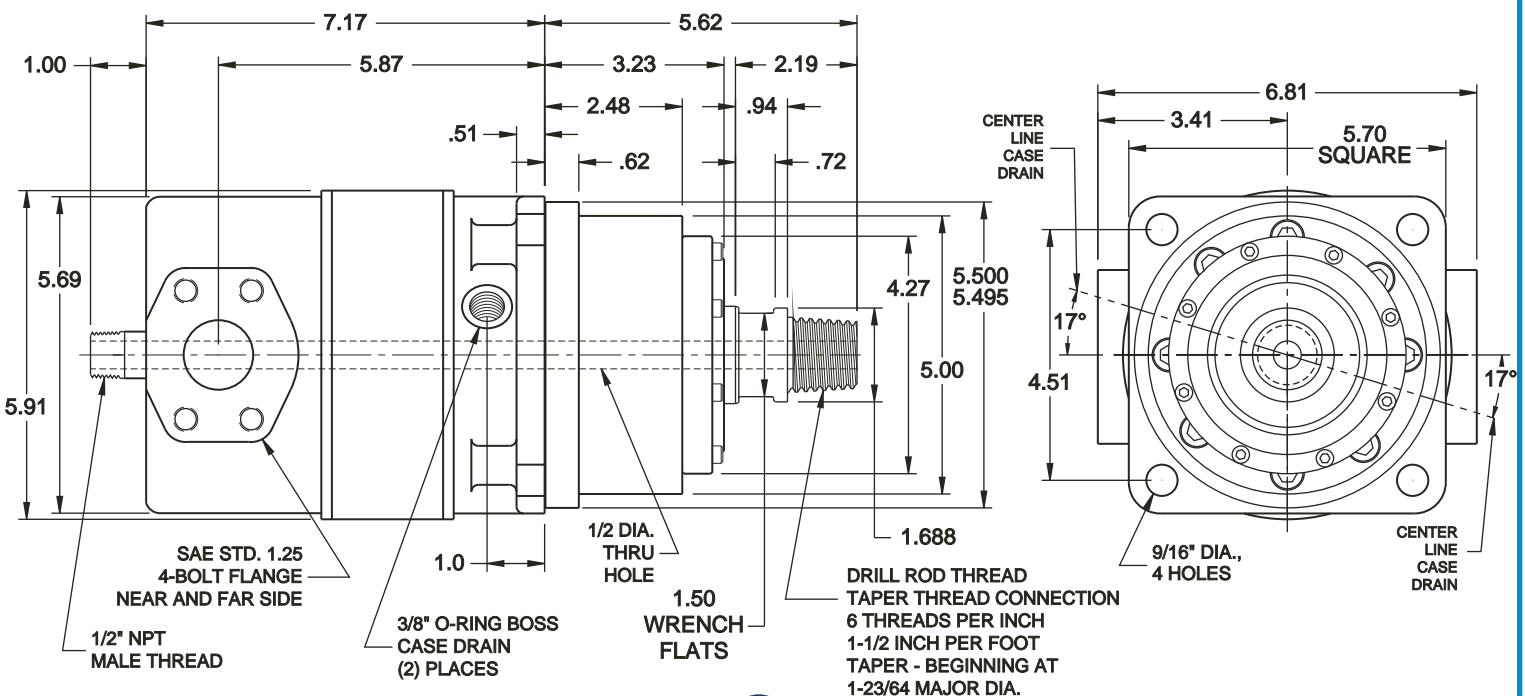
STANDARD CODE 61 PORTS

15  
DISPLACEMENTS

- ⊗ Drill Motor for directional drills, de-gas drills, etc.
- ⊗ Speed range of 0 to 2000 RPM dependent on displacement.
- ⊗ Unrestricted mounting conforming to SAE "C" specifications.
- ⊗ Weight 60 lbs.
- ⊗ Eight fixed displacements ranging from 6 in<sup>3</sup> to 15 in<sup>3</sup>.
- ⊗ Envelope dimensions remain the same regardless of displacement.
- ⊗ Constant torque output throughout speed range.
- ⊗ Common drill rod thread at output end assures easy connection.
- ⊗ Thru hole shaft with 1/2" diameter water course.



## ENVELOPE

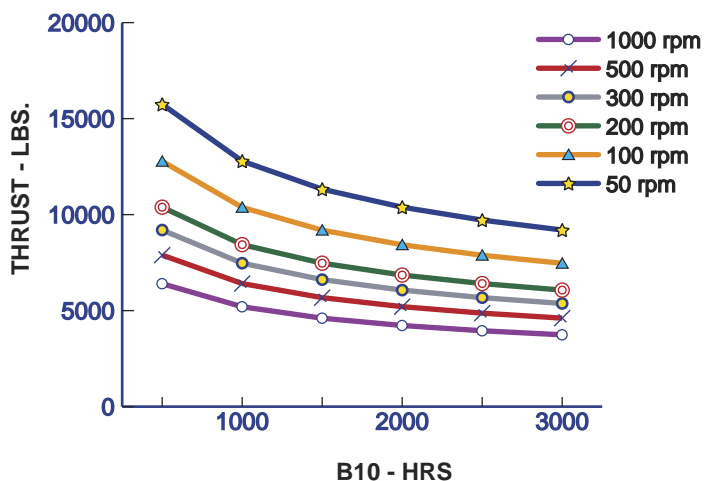


Made in U.S.A.

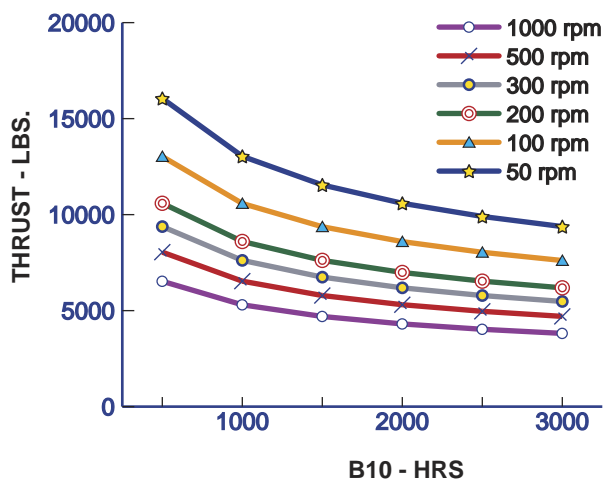
PUBLICATION DS371012 7-03

**BEARING CAPACITY**

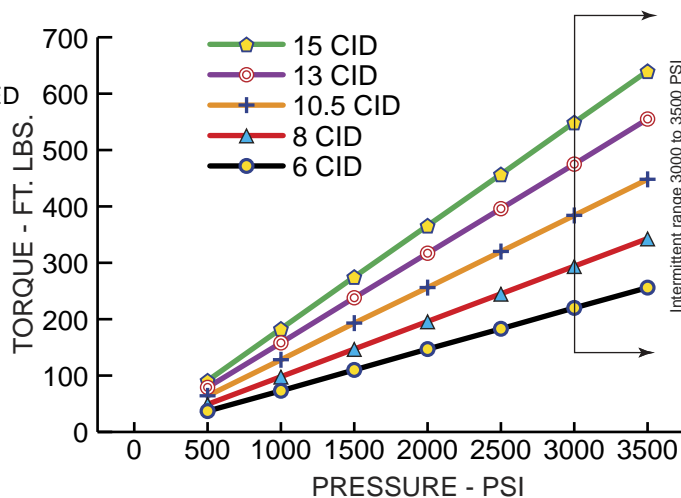
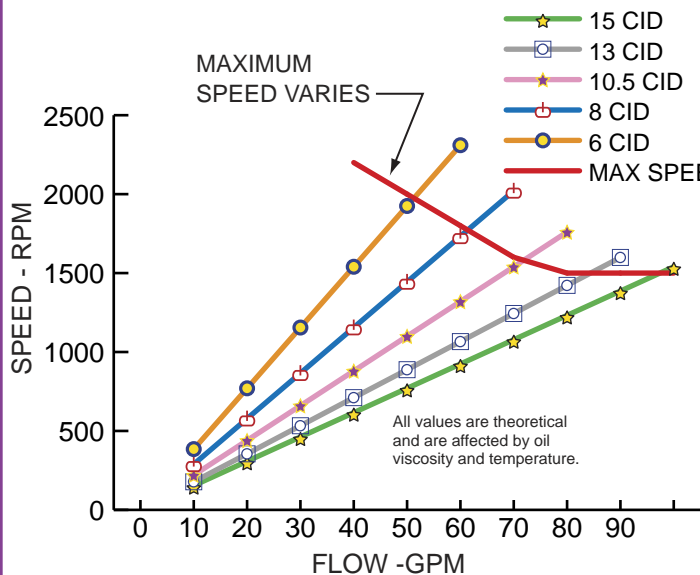
**TIMKEN 3800 PUSH or PULL DOWN THRUST vs. B10**



**TIMKEN HM89400 PULL or PULL BACK THRUST vs. B10**



**SPEED AND TORQUE**



**VANE CROSSING VANE:**

The Rineer patented vane crossing vane design produces much higher volumetric and mechanical efficiencies than is possible with a standard vane type design. This design provides a sealing vane between cavities to improve mechanical and volumetric efficiencies.

**STALL AND STARTING TORQUE:**

The Rineer motor produces torque curves which are virtually flat with starting and stall torque equal to 90-94 percent of theoretical torque.

**HORSEPOWER LIMITATION:**

Maximum horsepower limitations may vary with different applications. When using the 15 Series above 50 HP, consult a Rineer Application Engineer.

**FILTRATION:**

25 micron maximum.

**WEIGHT:**

The 15 Series Drill Motor weighs 60 lbs.

**FLUID:**

Most hydraulic oils with viscosities from

100 to 250 SSU are acceptable. Oil with antiwear additives is recommended. Oil temperature should not exceed 180° F, and oil viscosity must not fall below 100 SSU. High oil viscosity and anti-wear additives are of great importance when operating at either high speed, extremely low speed or at sustained high pressure. Hydraulic oil loses approximately 1/2 of its life for every 20° increment that it is operated at above 150° F.

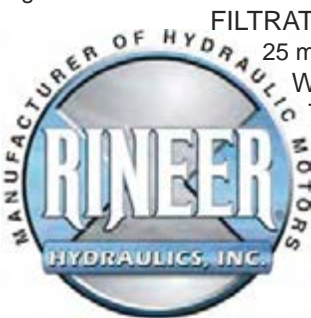
**CASE DRAIN:**

The 15 Series Motor is designed for either internal or external case drain. Two case drain ports are supplied. When using internal case drain, simply plug the two ports. When using external case drain, use the port at the highest elevation. We recommend case drain pressure of less than 75 PSI.

**Model Code:**

015-61-1S-000-53-T1-DB-084

where 000 is the displacement choice.



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