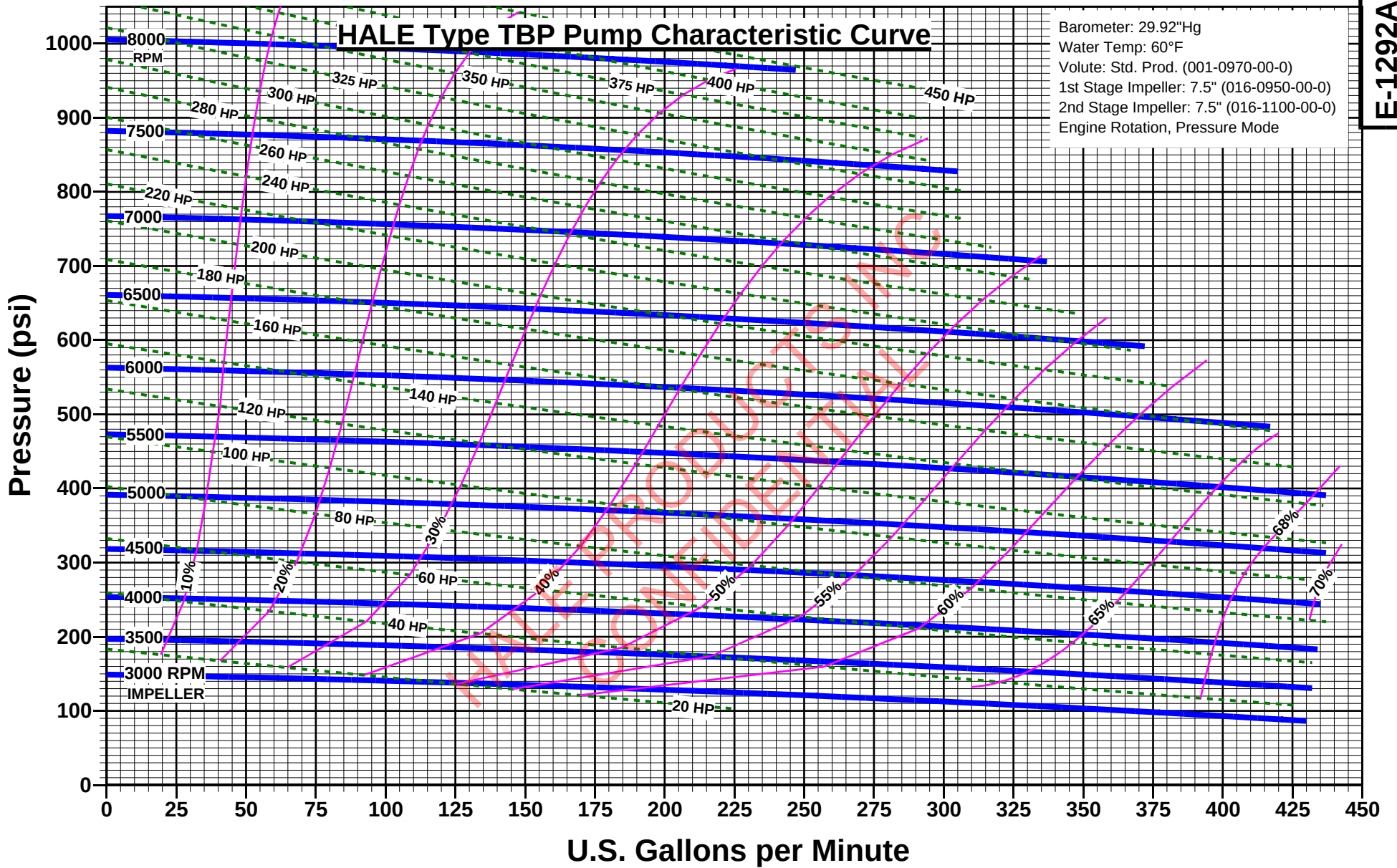




E-1292A

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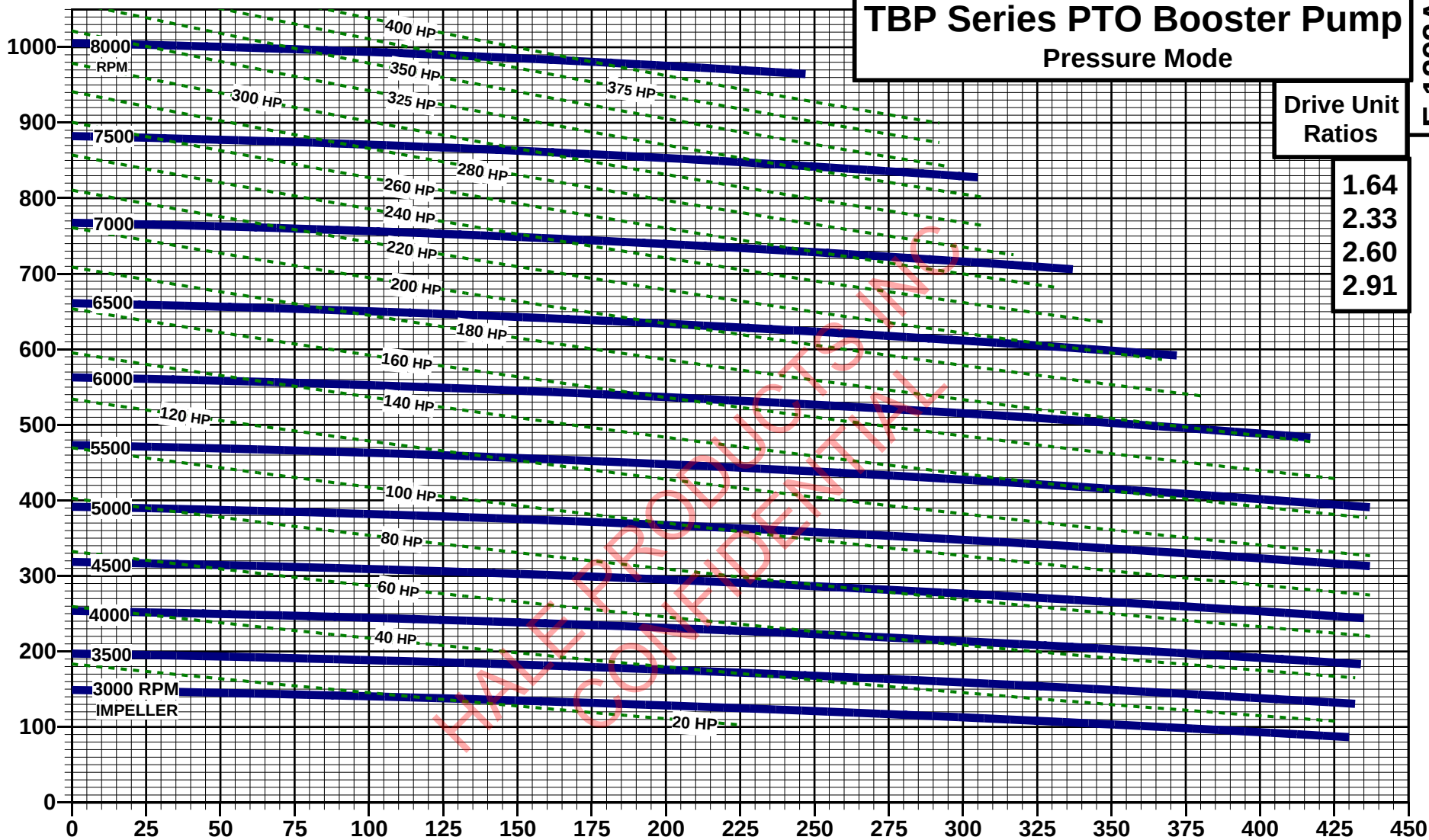
Pressure (psi)

TBP Series PTO Booster Pump Pressure Mode

E-1292A

Drive Unit
Ratios

1.64
2.33
2.60
2.91



Notes :

1. Use the following equation to determine the Drive Unit Input Speed

$$\text{Input Speed (rpm)} = \text{Impeller Speed (rpm)} / \text{Drive Unit Ratio}$$

Example:

$$\text{Input Speed (rpm)} = 5000 \text{ (rpm)} / 2.60 \text{ (ratio)} = 1925 \text{ (rpm)}$$

2. Use the following equation to determine the Drive Unit Input Torque

$$\text{Input Torque (lb-ft)} = \text{Horsepower (hp)} * 5252 / \text{Input Speed (rpm)}$$

Example:

$$\text{Input Torque (lb-ft)} = 100 \text{ (hp)} * 5252 / 1925 \text{ (rpm)} = 273 \text{ (lb-ft)}$$

3. Operating the pump at high pressure or volume imposes substantial torque on the drive shaft. The torque rating of the power take-off must be checked against the pump requirements.

U.S. Gallons per Minute

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