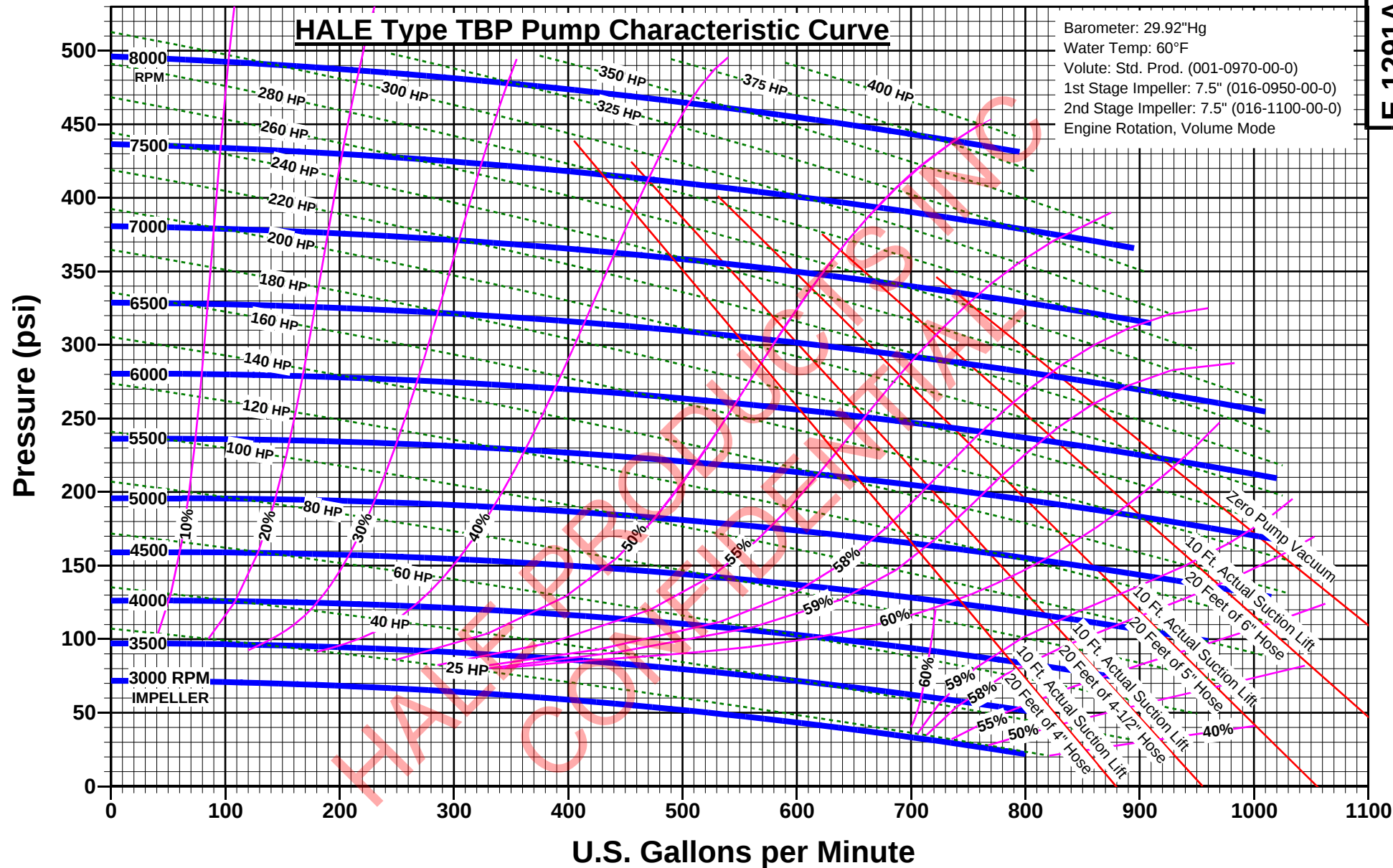




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ECO NO	REV	CHANGED FROM	BY	DATE	APVD
0915	A	RELEASED FOR PRODUCTION	DLM	10-13-09	MAL



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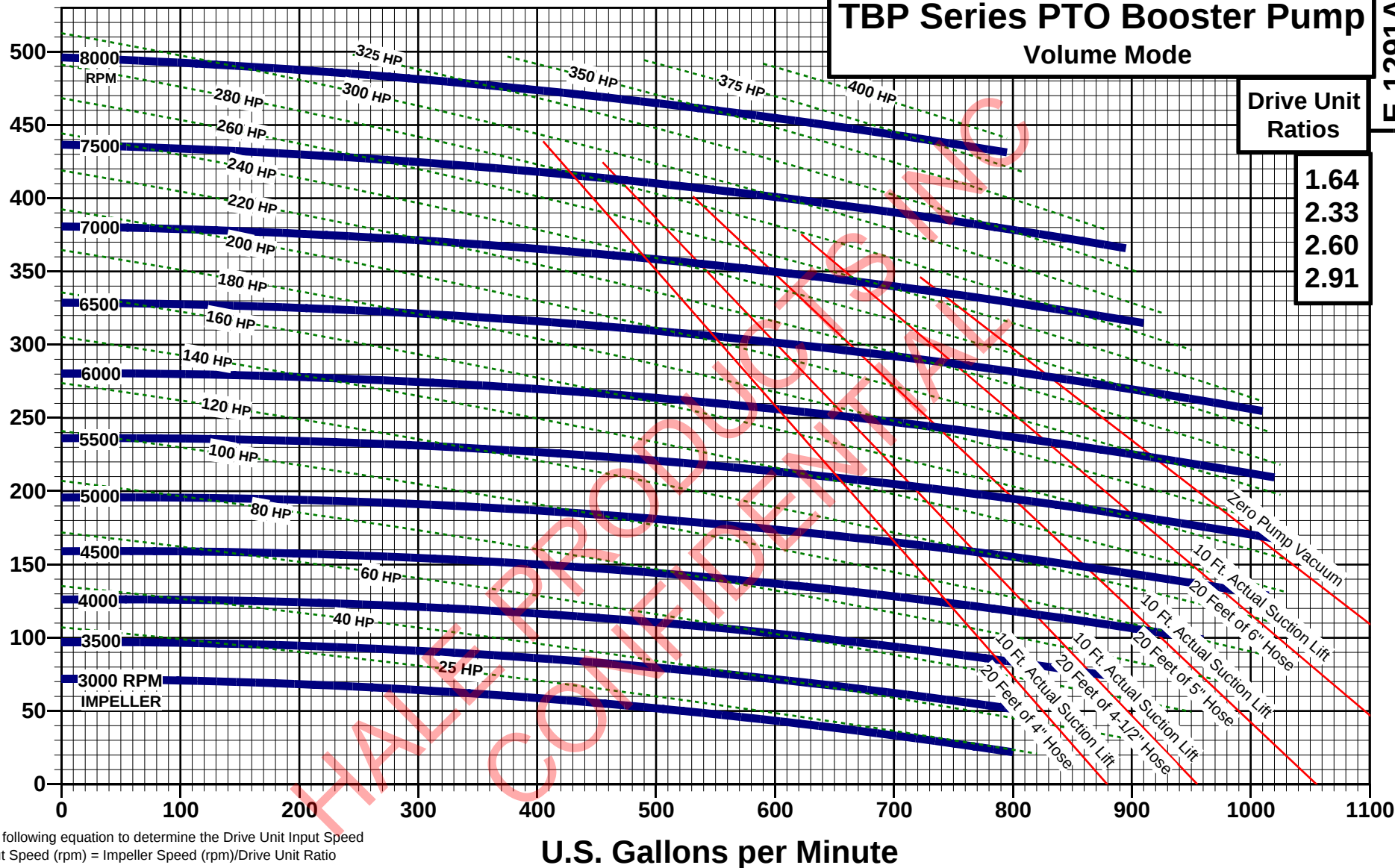
Drawn	DLM	Date: 10-01-09
Checked	MAL	

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TBP Series PTO Booster Pump Volume Mode

E-1291A

Pressure (psi)



Notes :

- Use the following equation to determine the Drive Unit Input Speed

$$\text{Input Speed (rpm)} = \frac{\text{Impeller Speed (rpm)}}{\text{Drive Unit Ratio}}$$
 Example:

$$\text{Input Speed (rpm)} = \frac{5000 \text{ (rpm)}}{2.60 \text{ (ratio)}} = 1925 \text{ (rpm)}$$
- Use the following equation to determine the Drive Unit Input Torque

$$\text{Input Torque (lb-ft)} = \frac{\text{Horsepower (hp)} \times 5252}{\text{Input Speed (rpm)}}$$
 Example:

$$\text{Input Torque (lb-ft)} = \frac{120 \text{ (hp)} \times 5252}{1925 \text{ (rpm)}} = 327 \text{ (lb-ft)}$$
- 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.

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