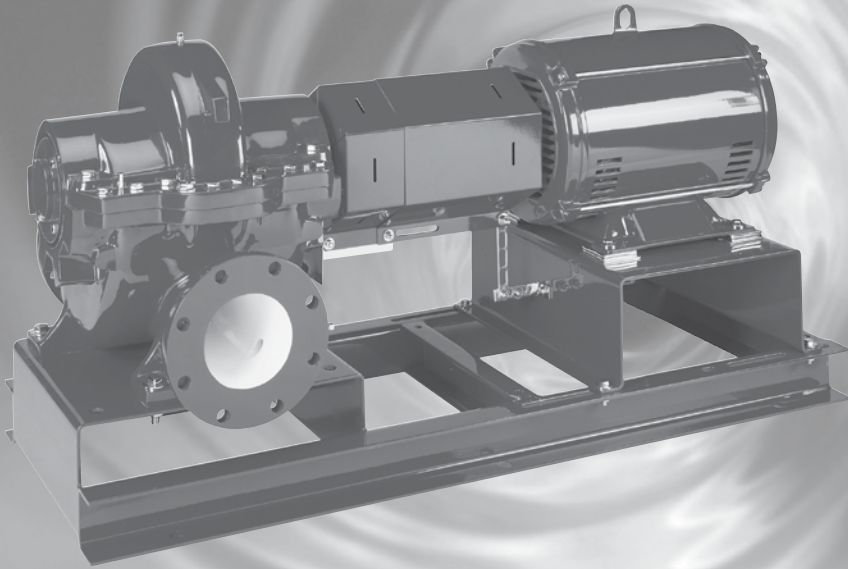


G&L Pumps

CURVES

GL-562 R1



Series A-C 8300 50 Hz

HORIZONTAL SPLIT CASE BASE MOUNTED - DOUBLE SUCTION
PUMP PERFORMANCE CURVES

xylem
Let's Solve Water

TABLE OF CONTENTS

Useful Pump Formulas	2
Full Hydraulic Range Curves	3
1450 RPM Pump Curves.....	4-18

USEFUL PUMP FORMULAS

$$\text{Pressure (PSI)} = \frac{\text{Head (feet)} \times \text{Specific Gravity}}{2.31}$$

$$\text{Head (feet)} = \frac{\text{Pressure (PSI)} \times 2.31}{\text{Specific Gravity}}$$

$$\text{Vacuum (in. of mercury)} = \frac{\text{Dynamic Suction Lift (feet)} \times .883}{\text{Specific Gravity}}$$

$$\text{Horsepower (brake)} = \frac{\text{GPM} \times \text{Head (feet)} \times \text{Specific Gravity}}{3960 \times \text{Pump Efficiency}}$$

$$\text{Horsepower (water)} = \frac{\text{GPM} \times \text{Head (feet)} \times \text{Specific Gravity}}{3960}$$

$$\text{Efficiency (pump)} = \frac{\text{Horsepower (water)}}{\text{Horsepower (brake)}} \times 100 \text{ per cent}$$

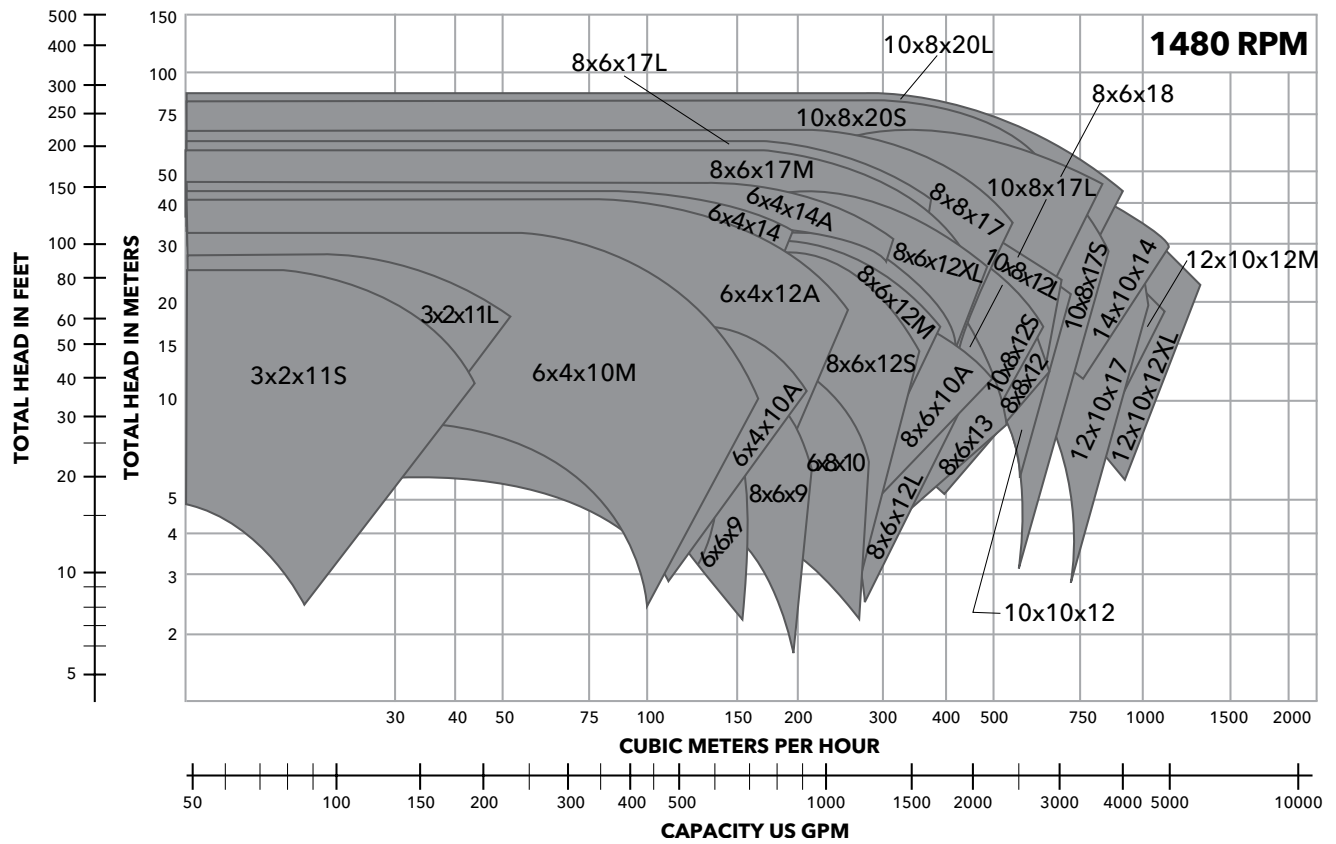
$$\text{NPSH (available)} = \text{Positive Factors} - \text{Negative Factors}$$

AFFINITY LAWS: Effect of change of speed or impeller diameter on centrifugal pumps

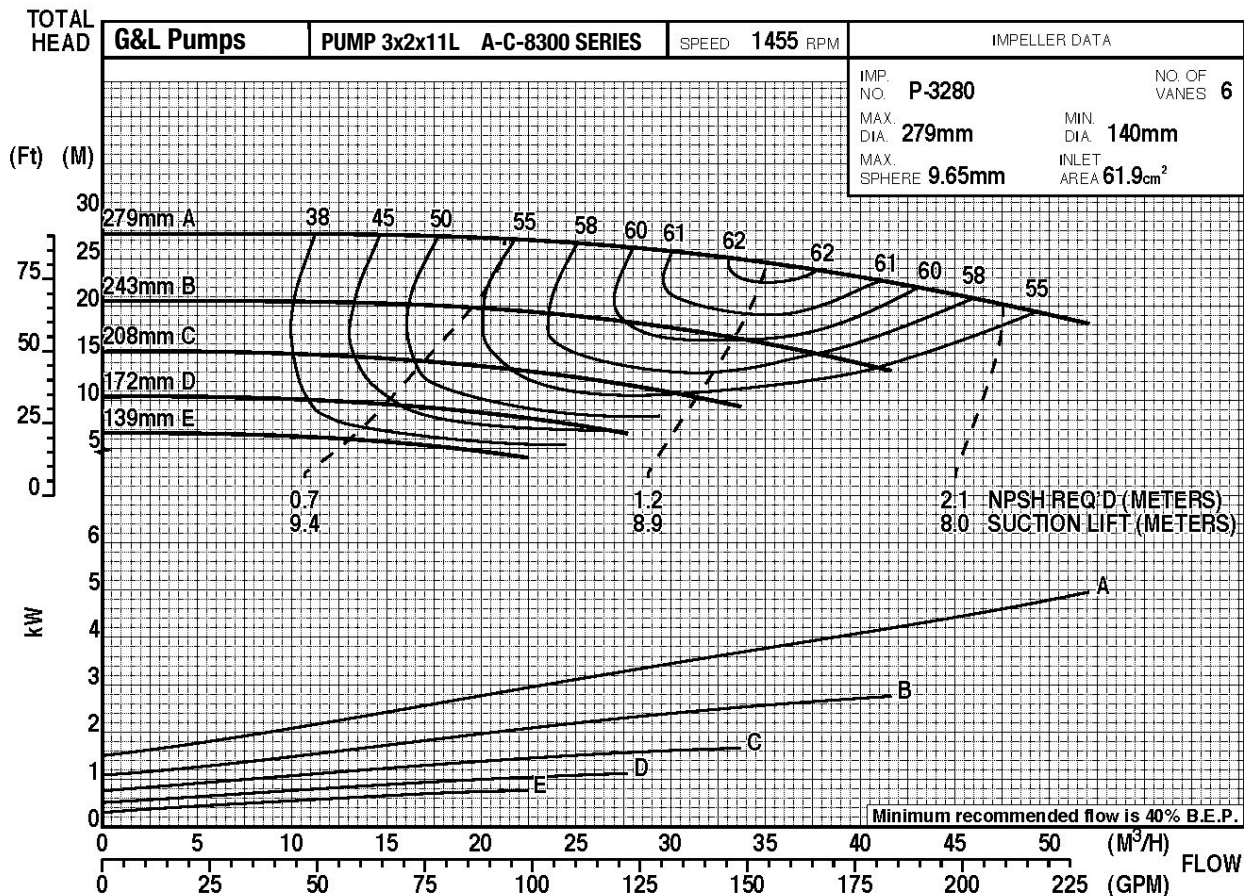
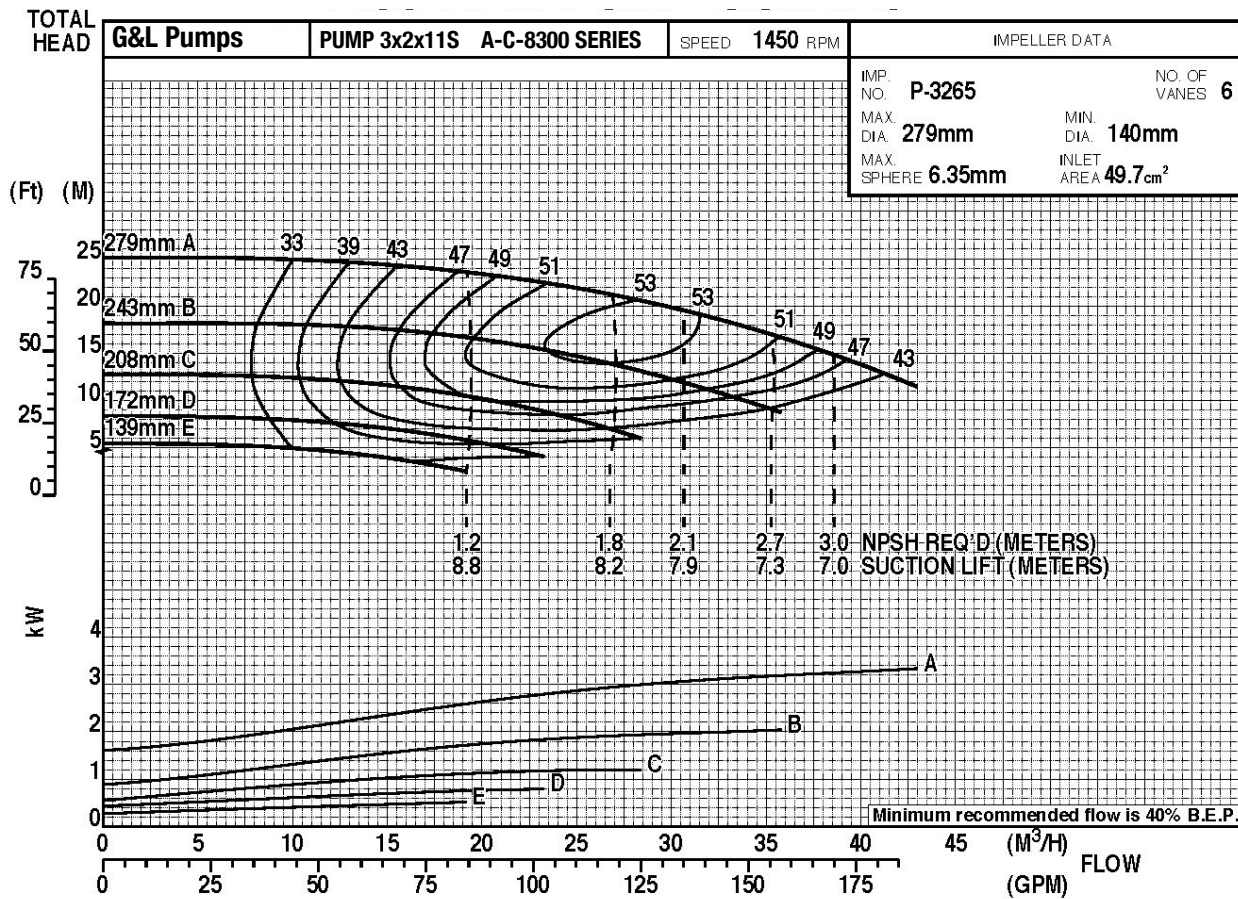
	GPM Capacity	Feet Head	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{\text{RPM}_2}{\text{RPM}_1} Q_1$	$H_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^2 H_1$	$P_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^3 P_1$

Where Q = GPM, H = Head, P = BHP, D = Impeller Diameter, RPM = Pump Speed

50 HZ FULL HYDRAULIC RANGE CURVES

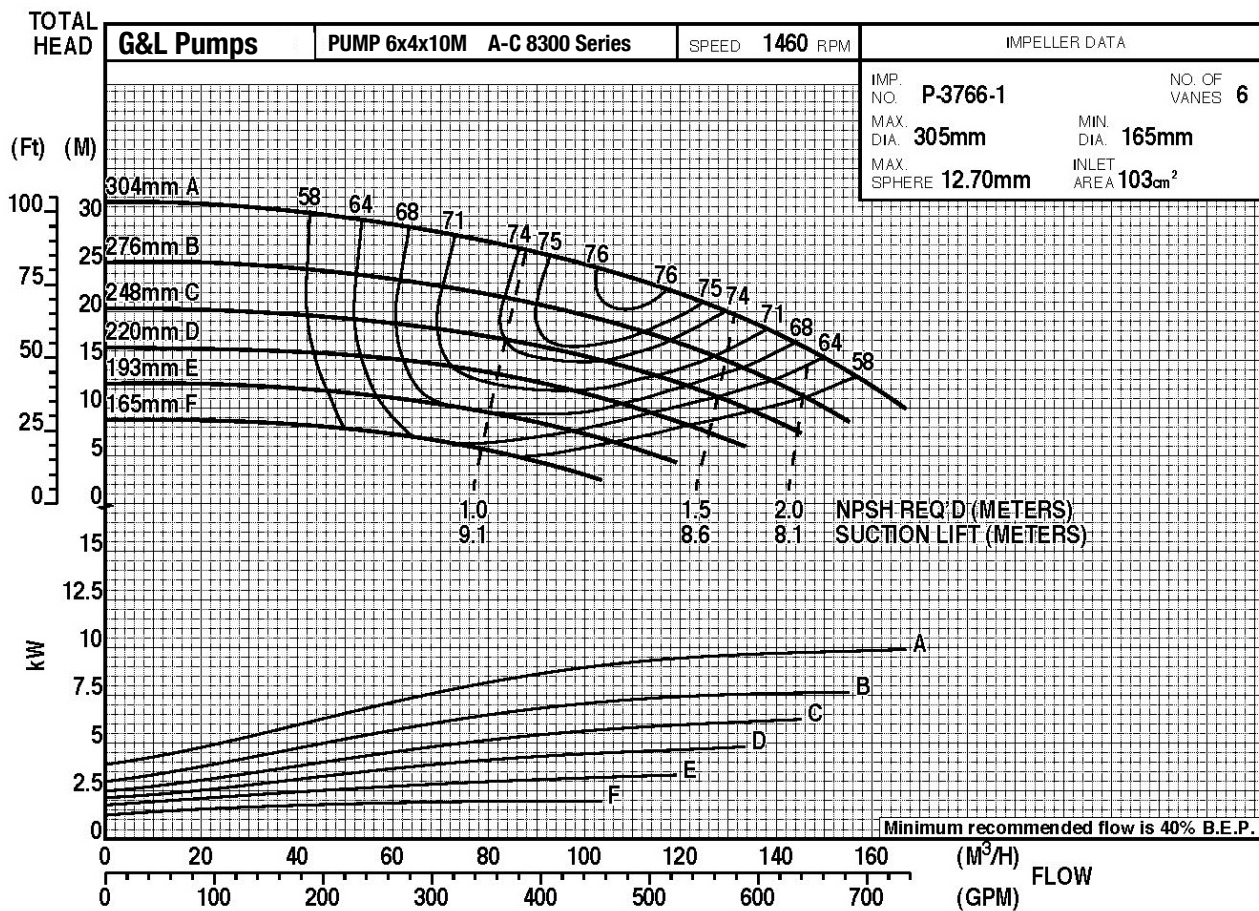
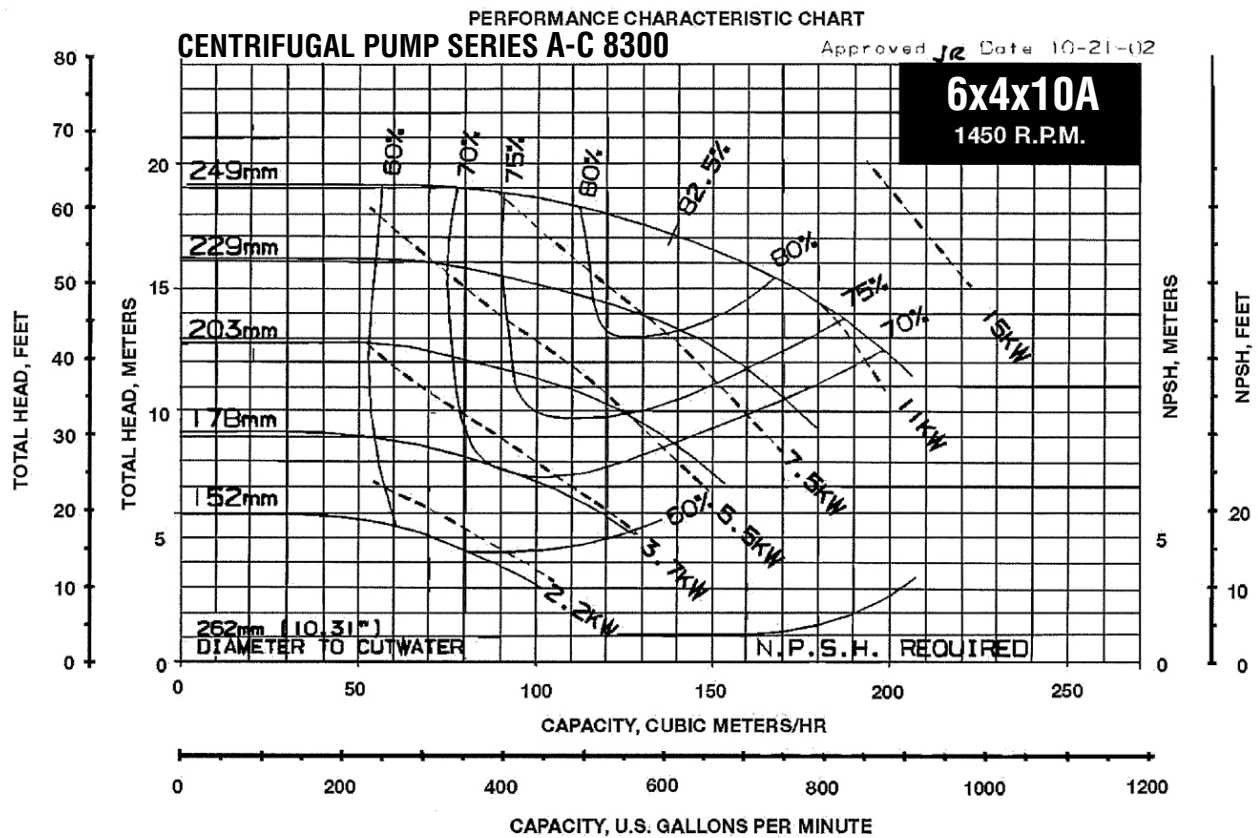


1450 RPM PUMP CURVES

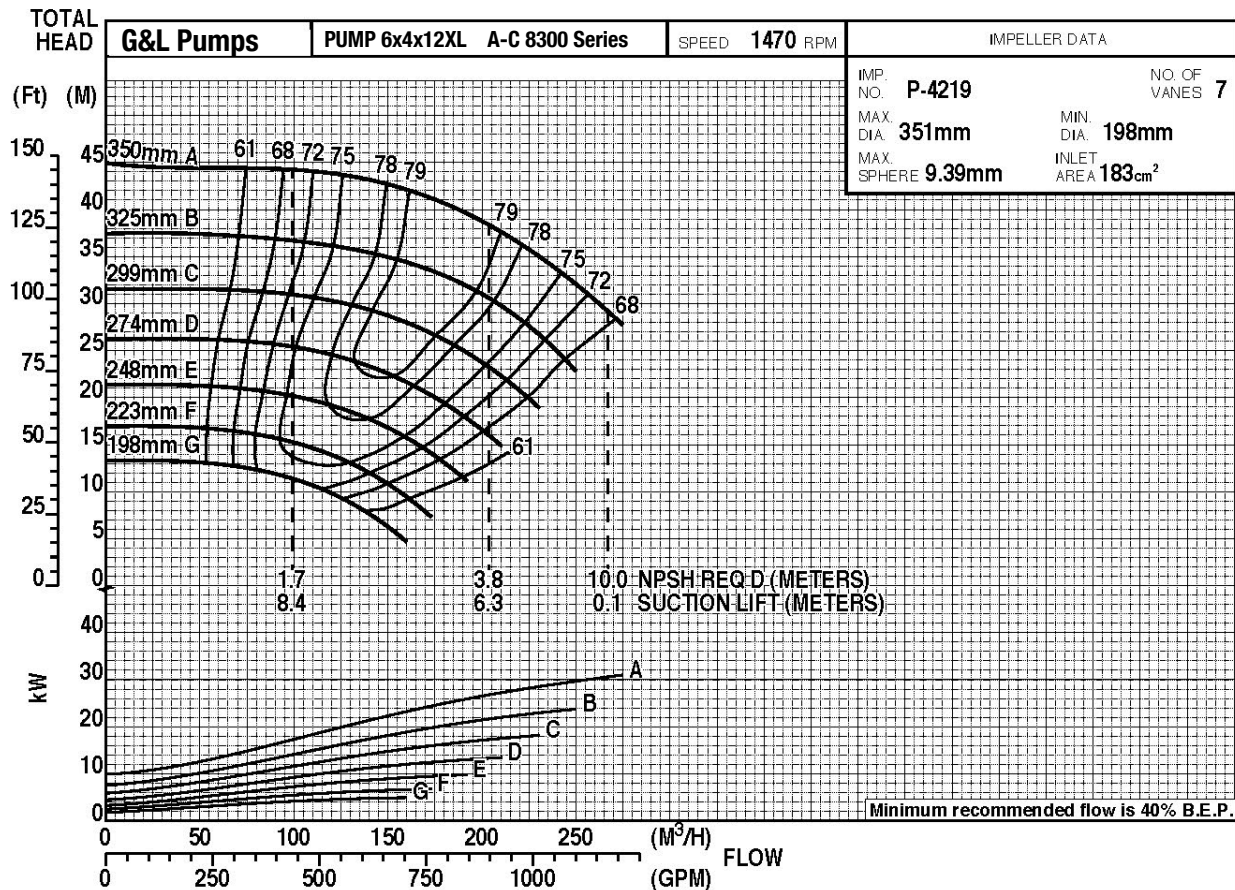
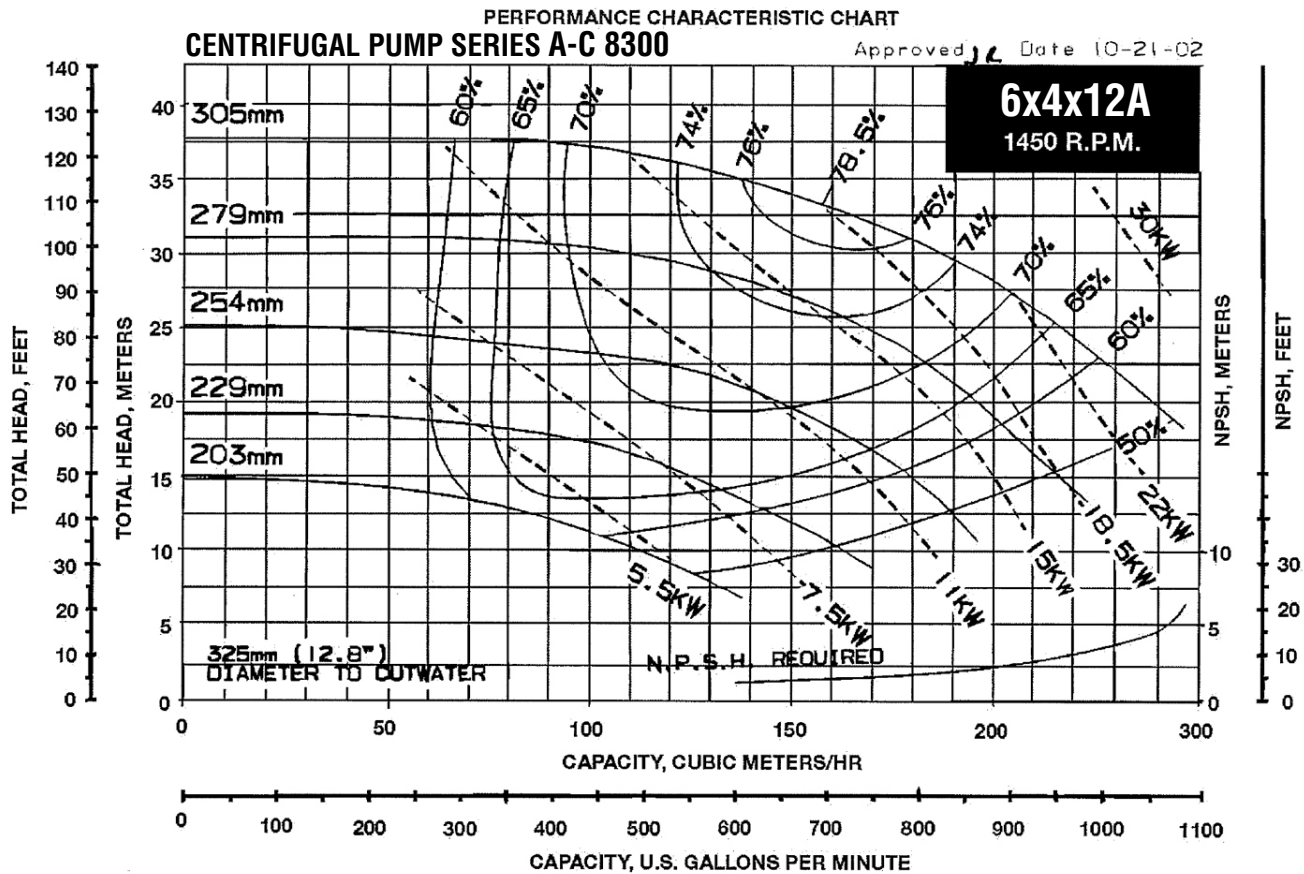


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES

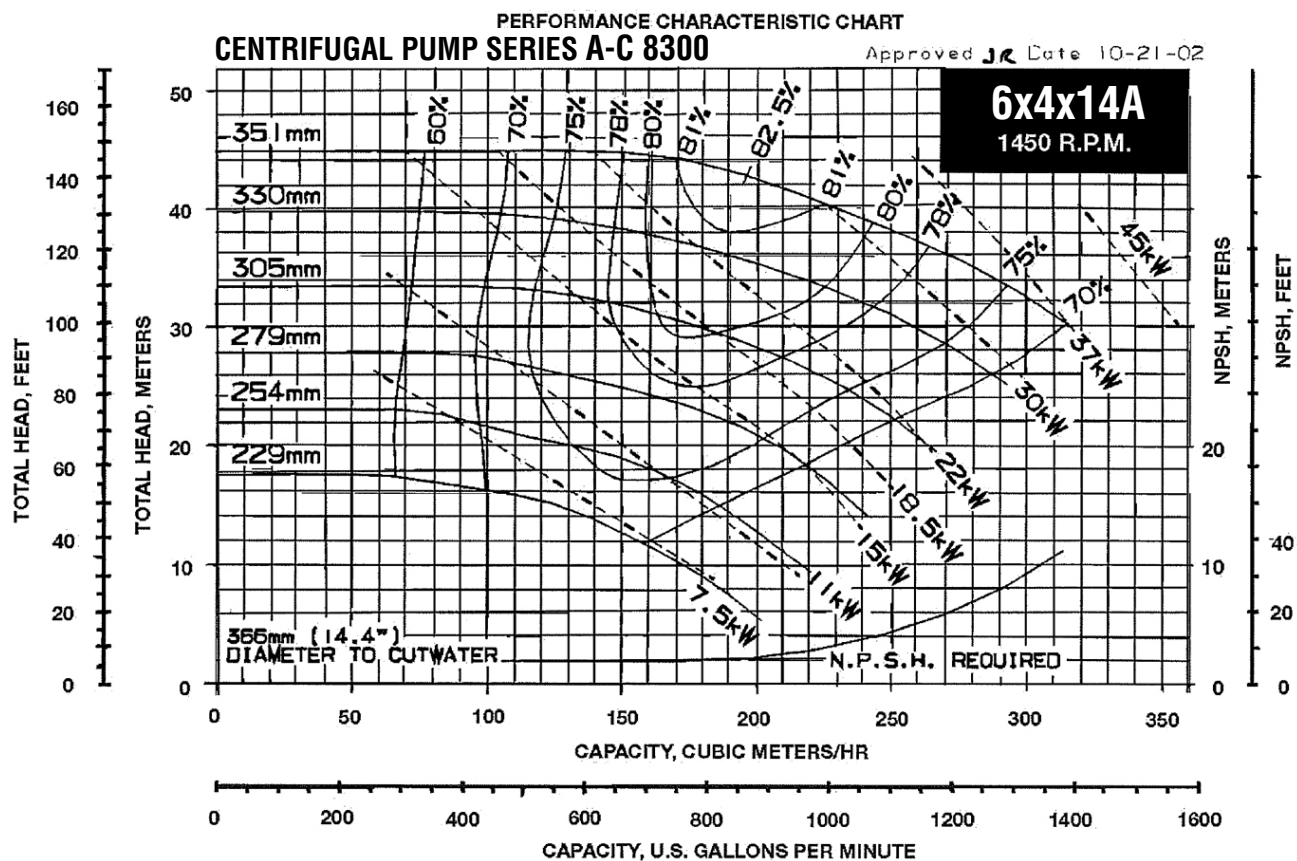
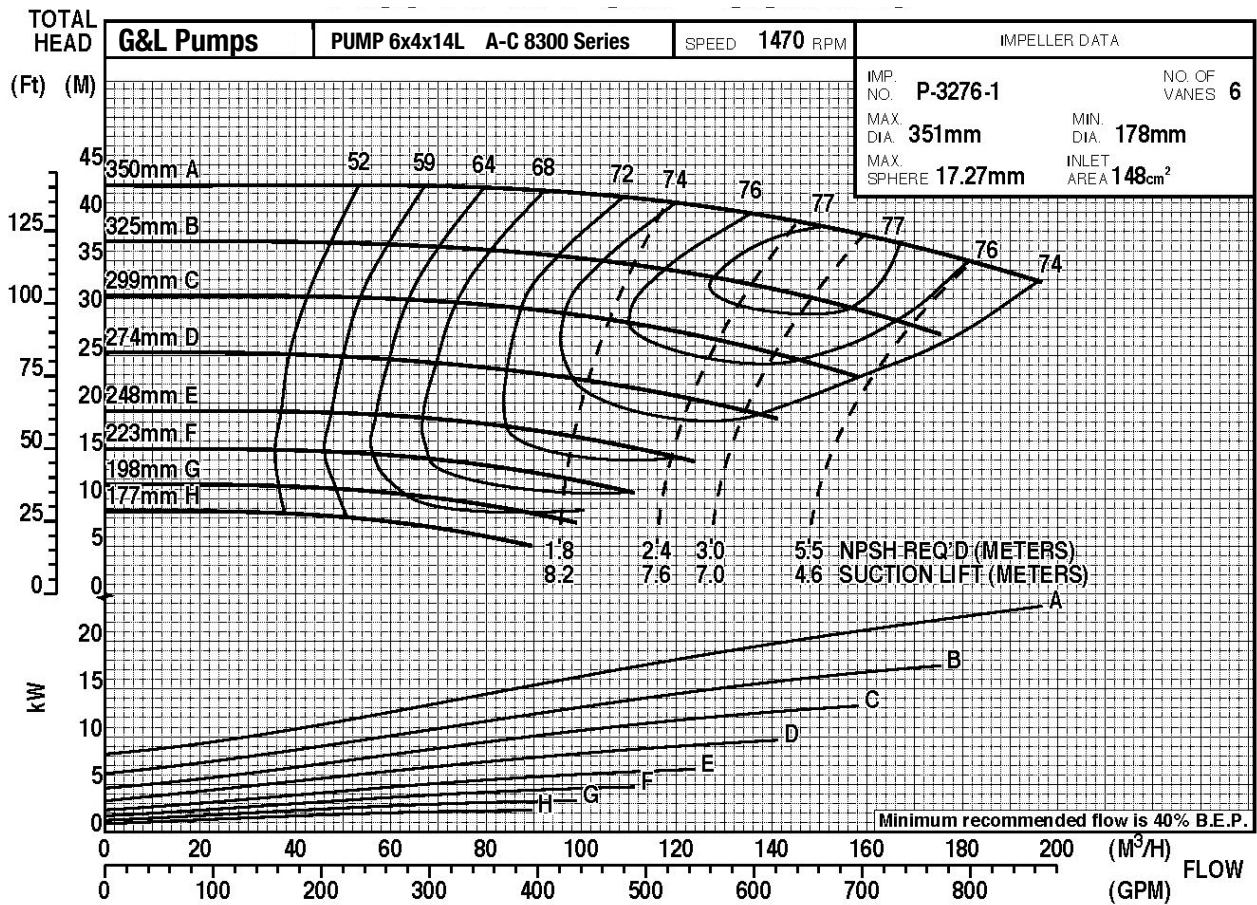


1450 RPM PUMP CURVES

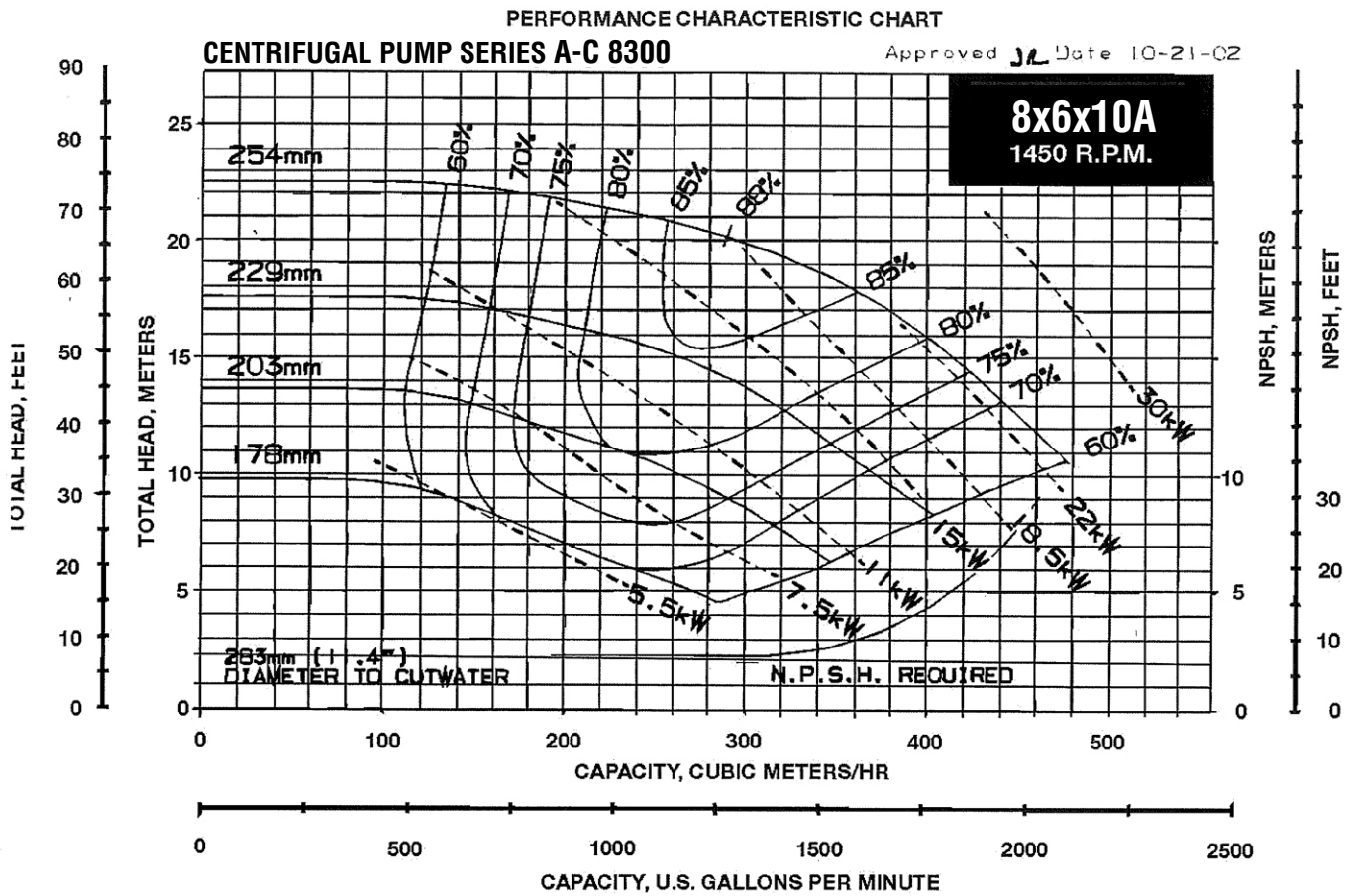


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES

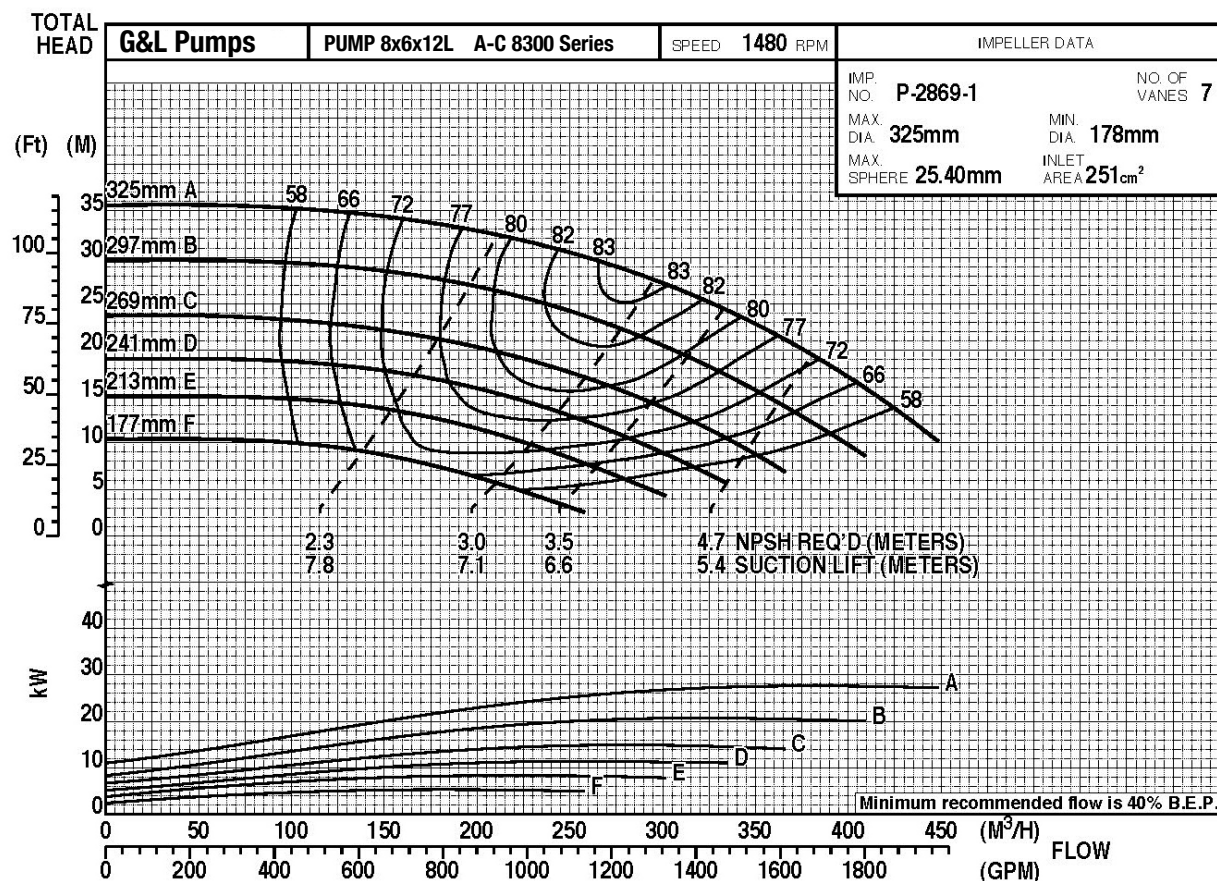
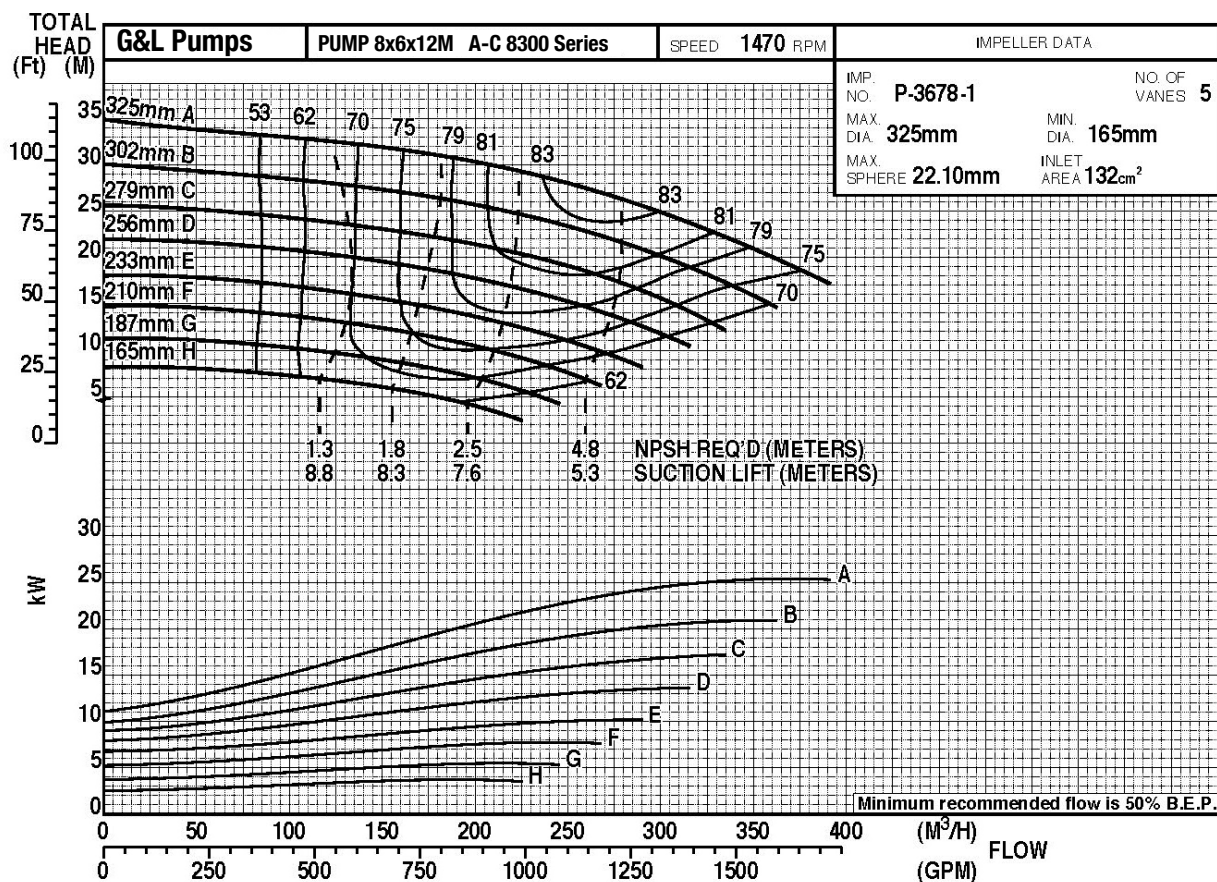


1450 RPM PUMP CURVES

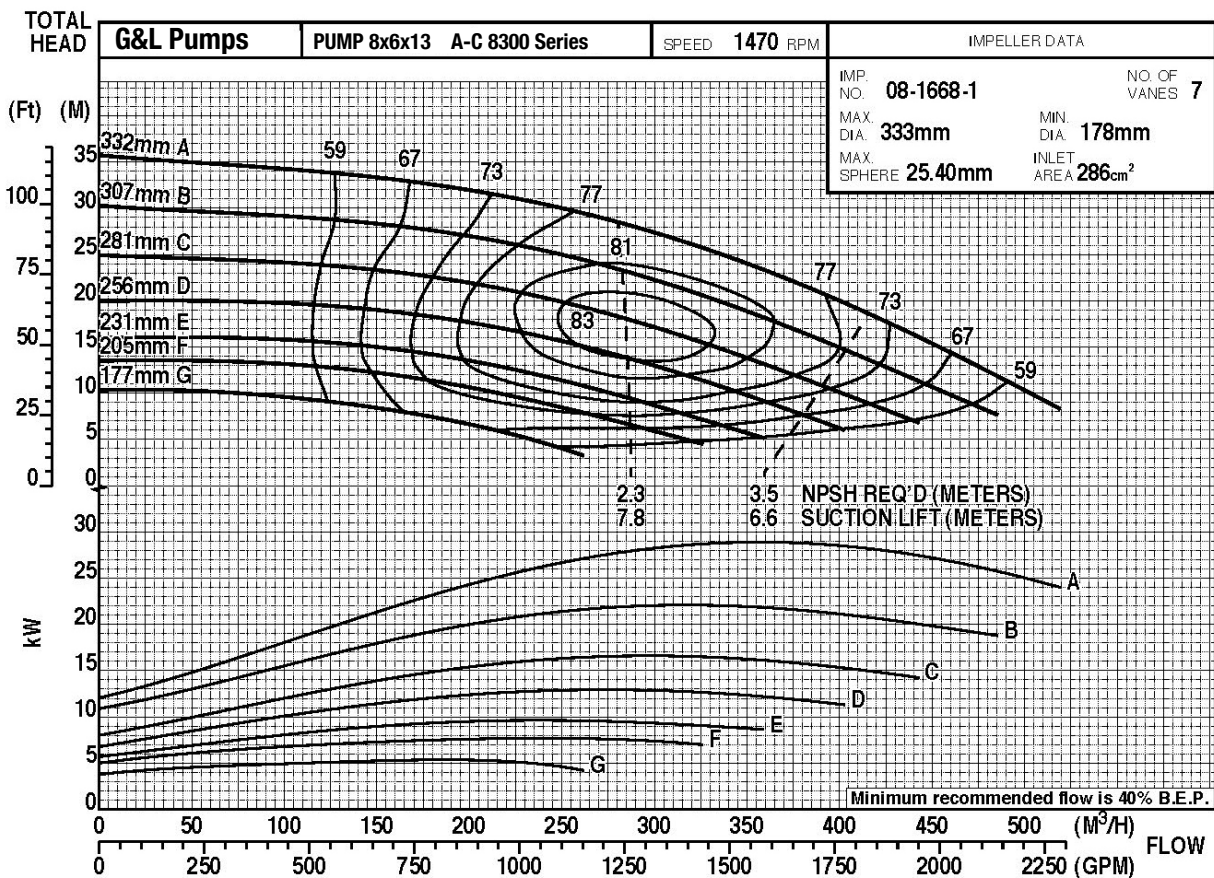
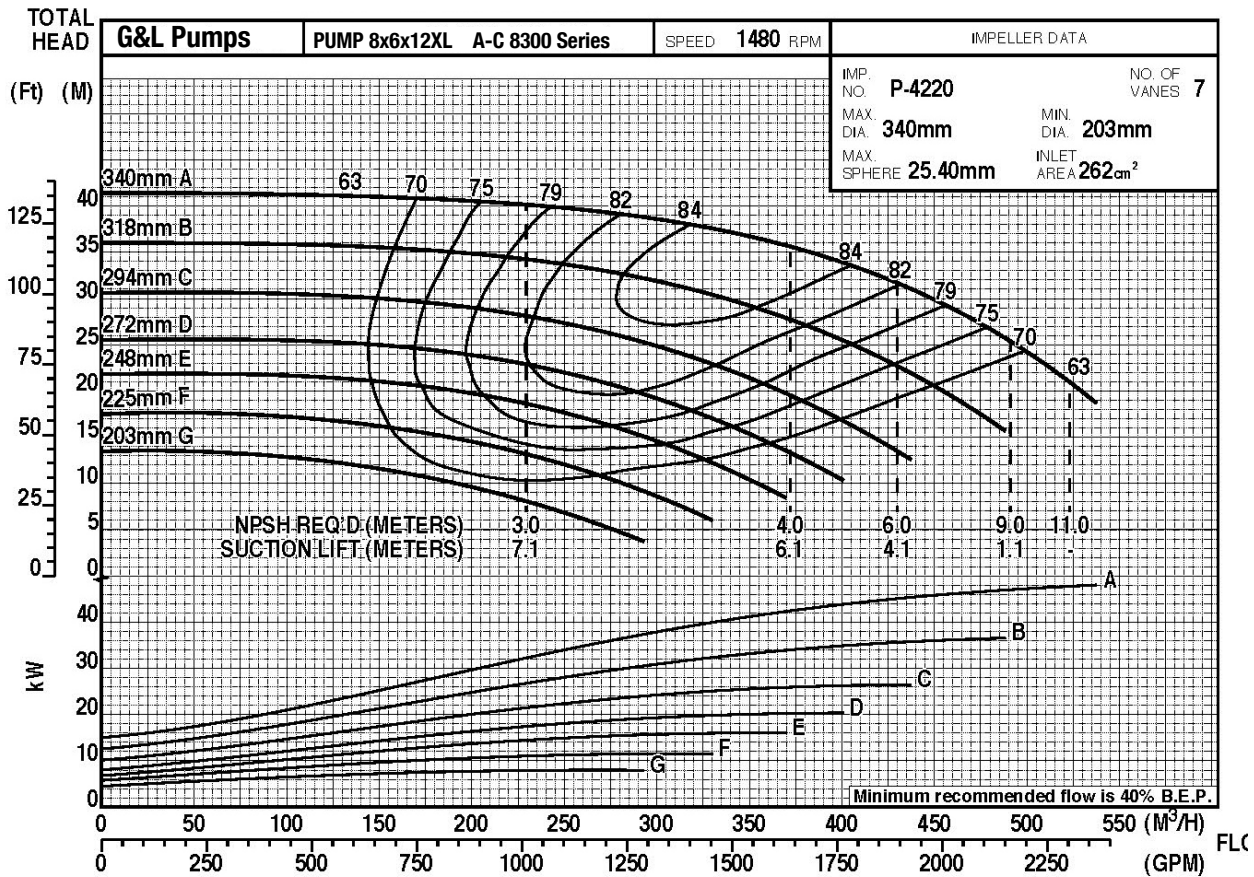


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES

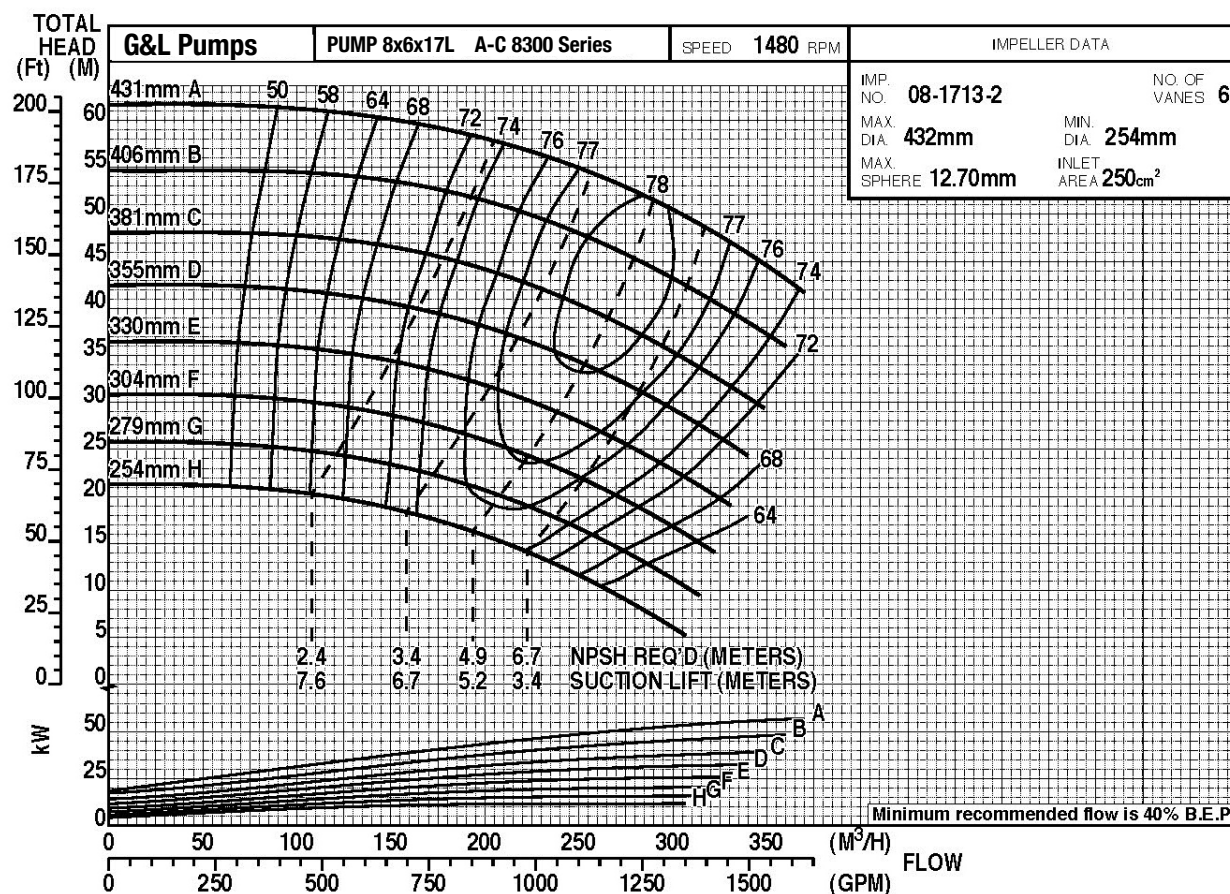
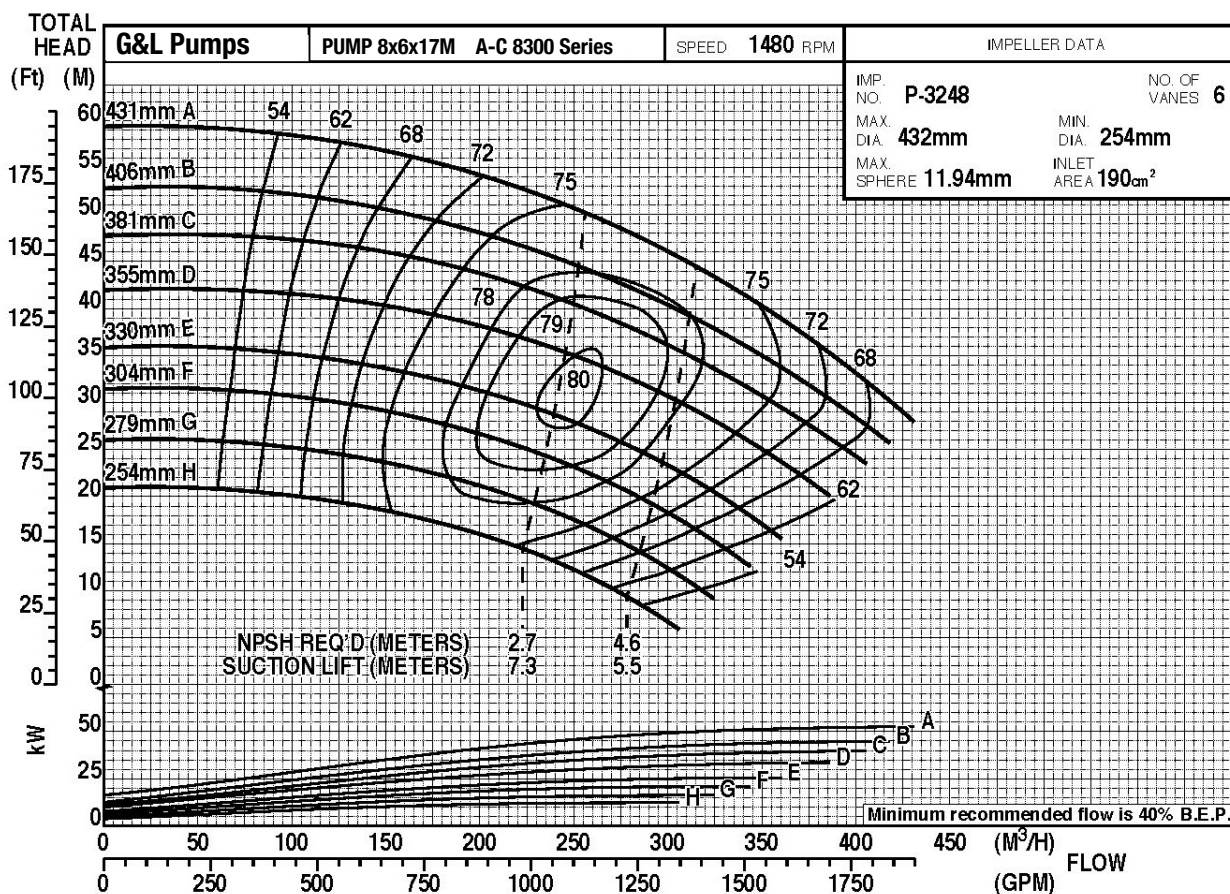


1450 RPM PUMP CURVES

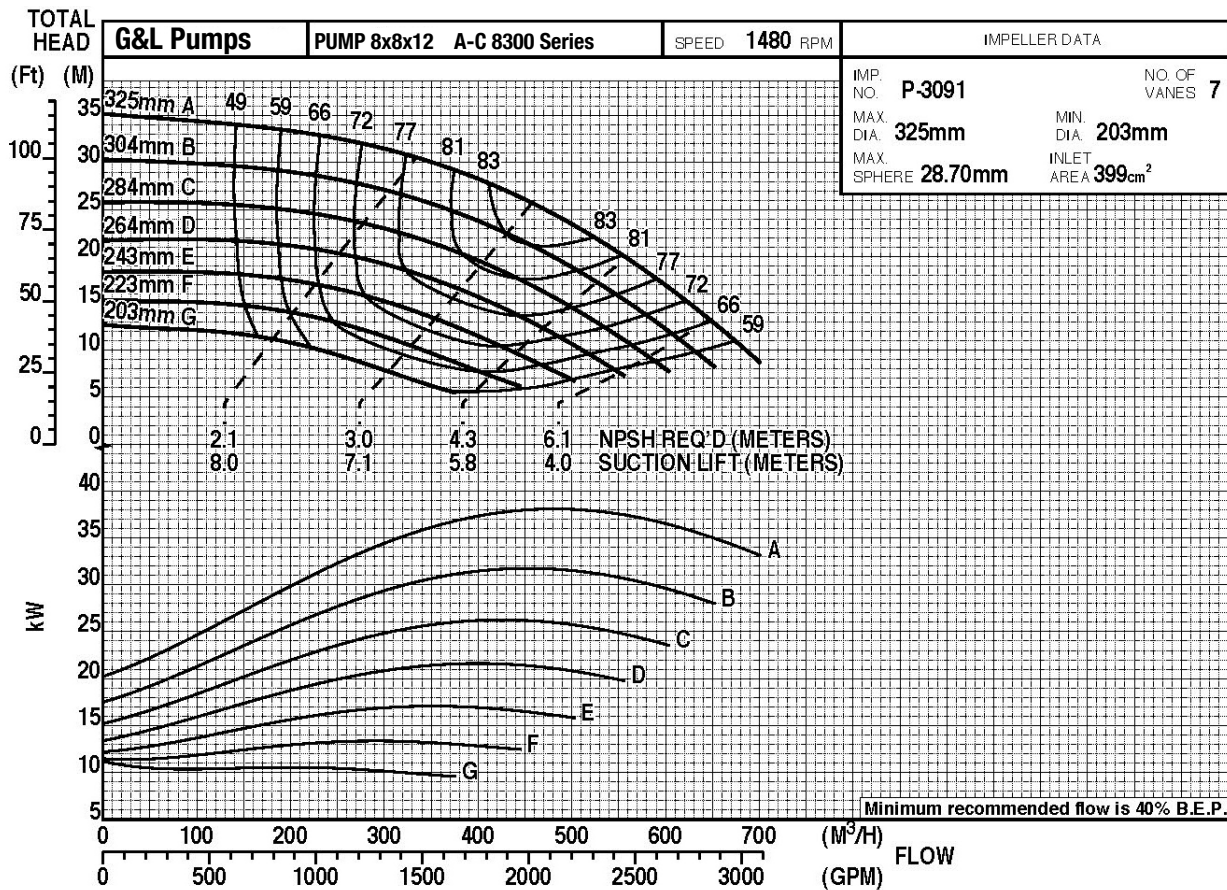


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES

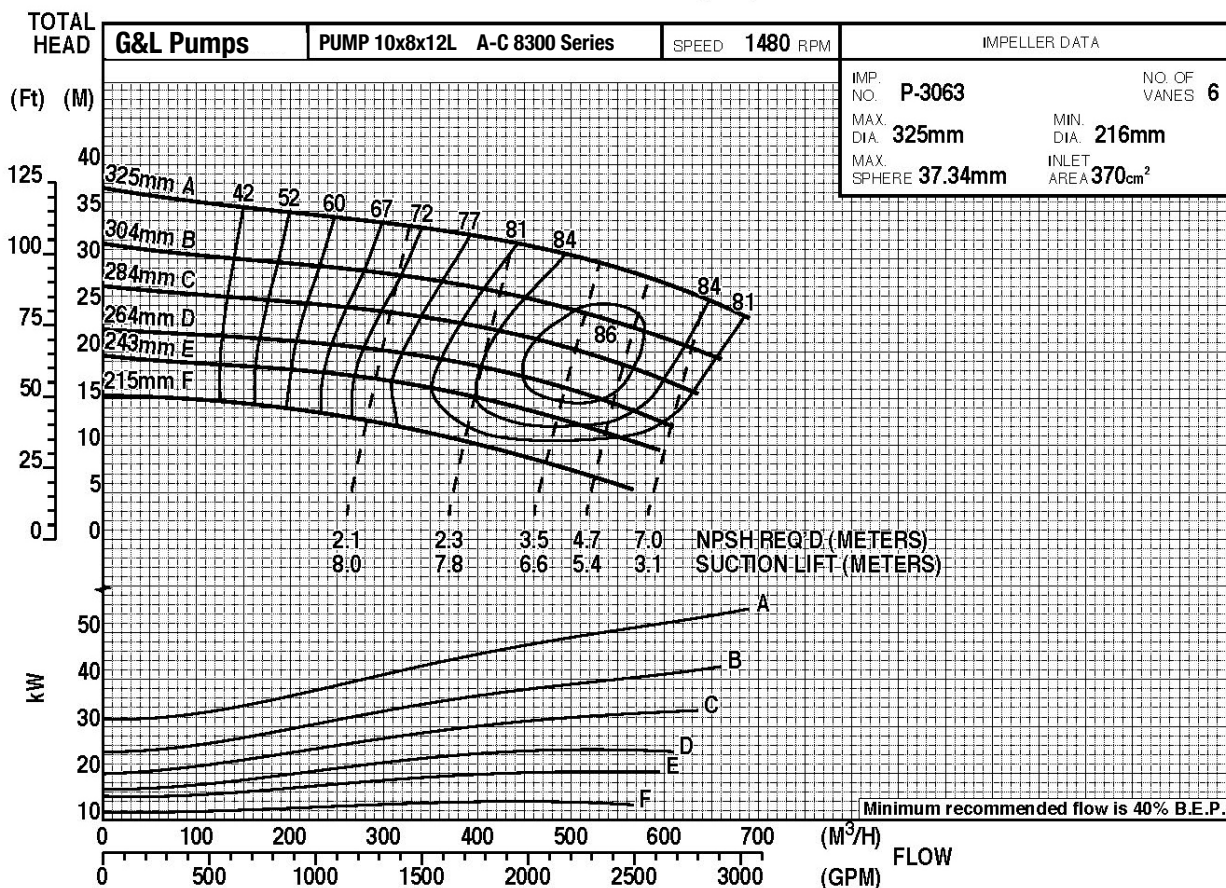
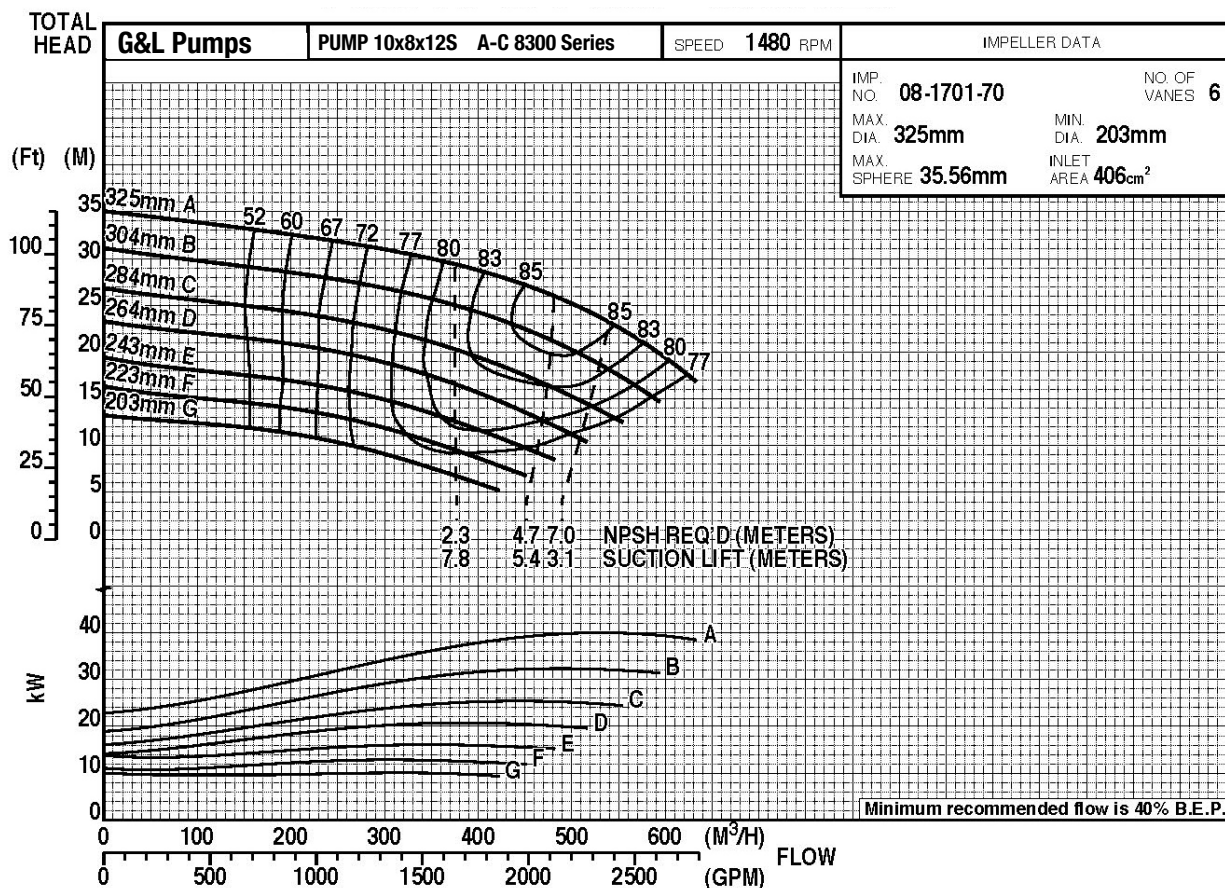


1450 RPM PUMP CURVES

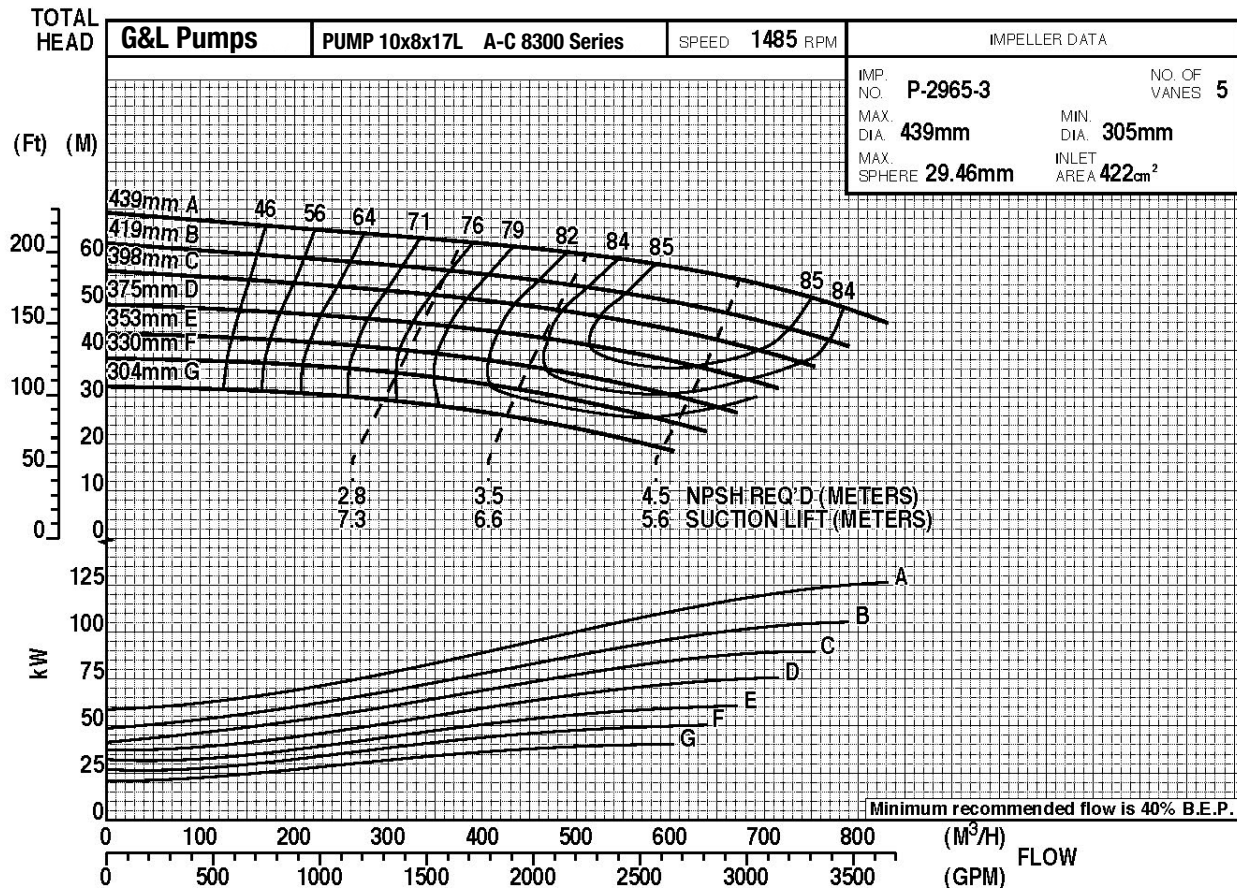
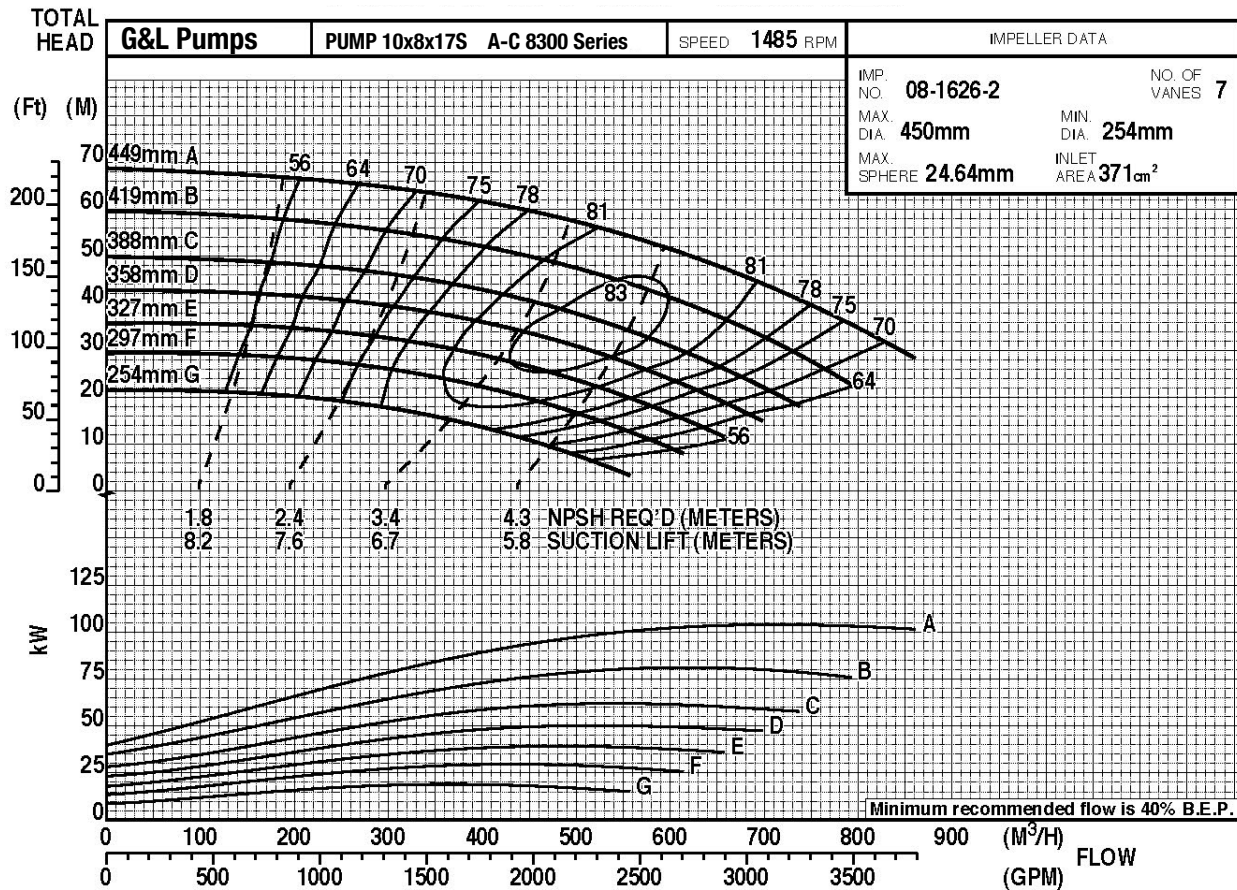


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES

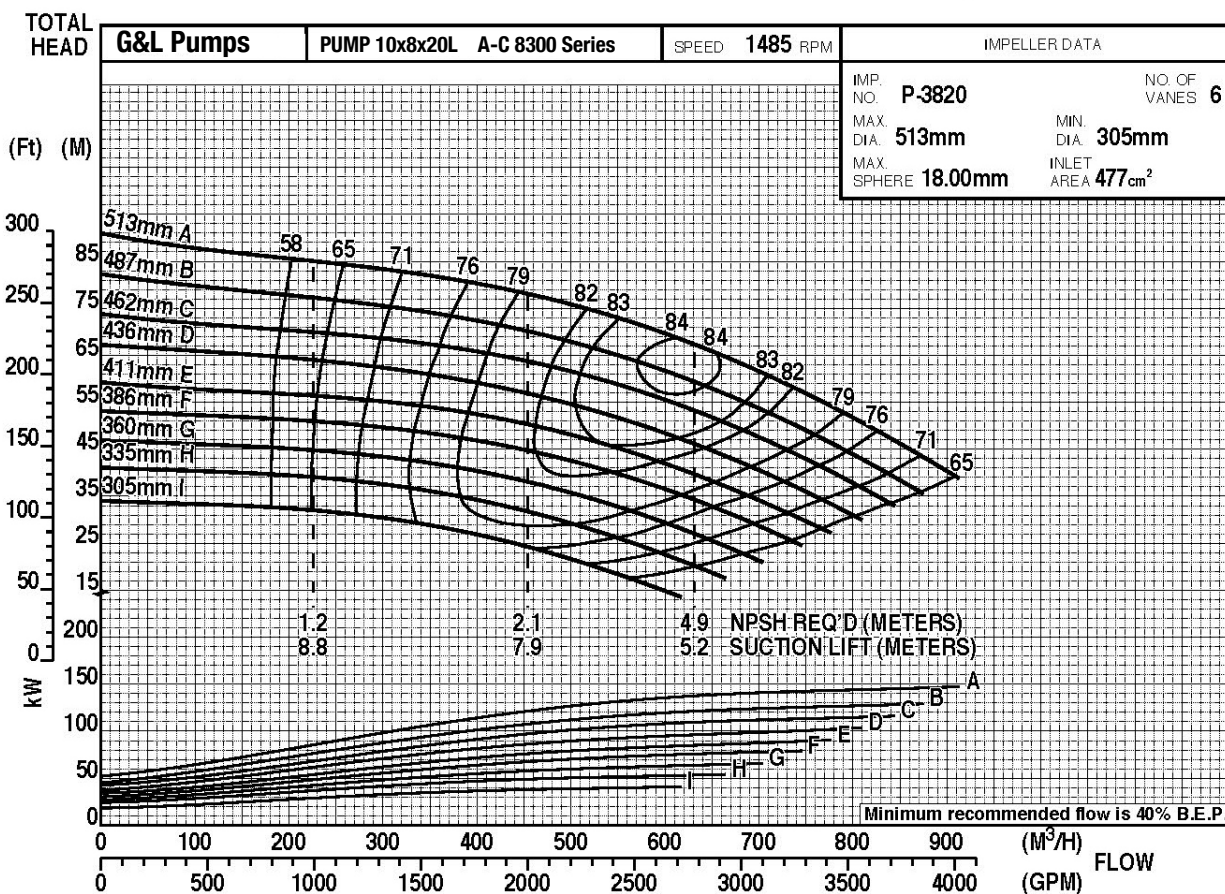
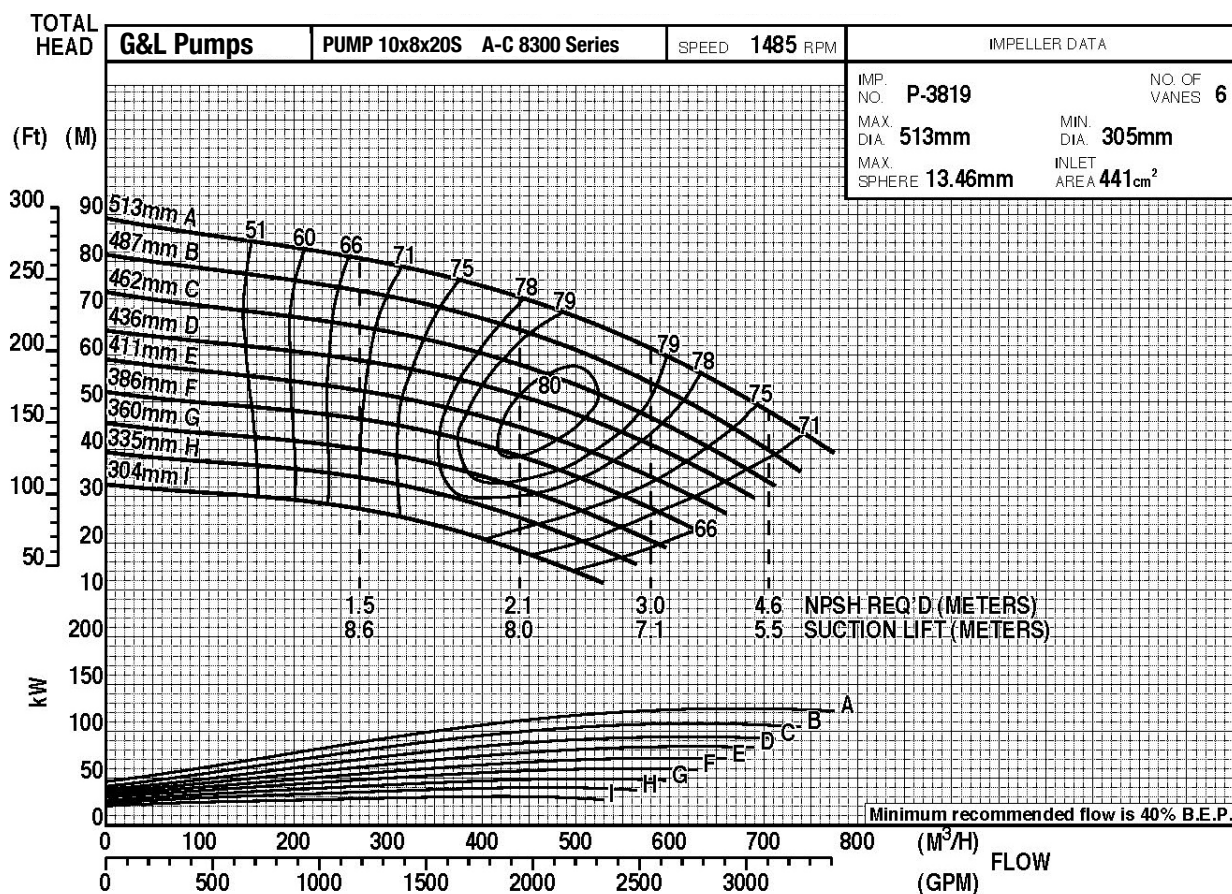


1450 RPM PUMP CURVES

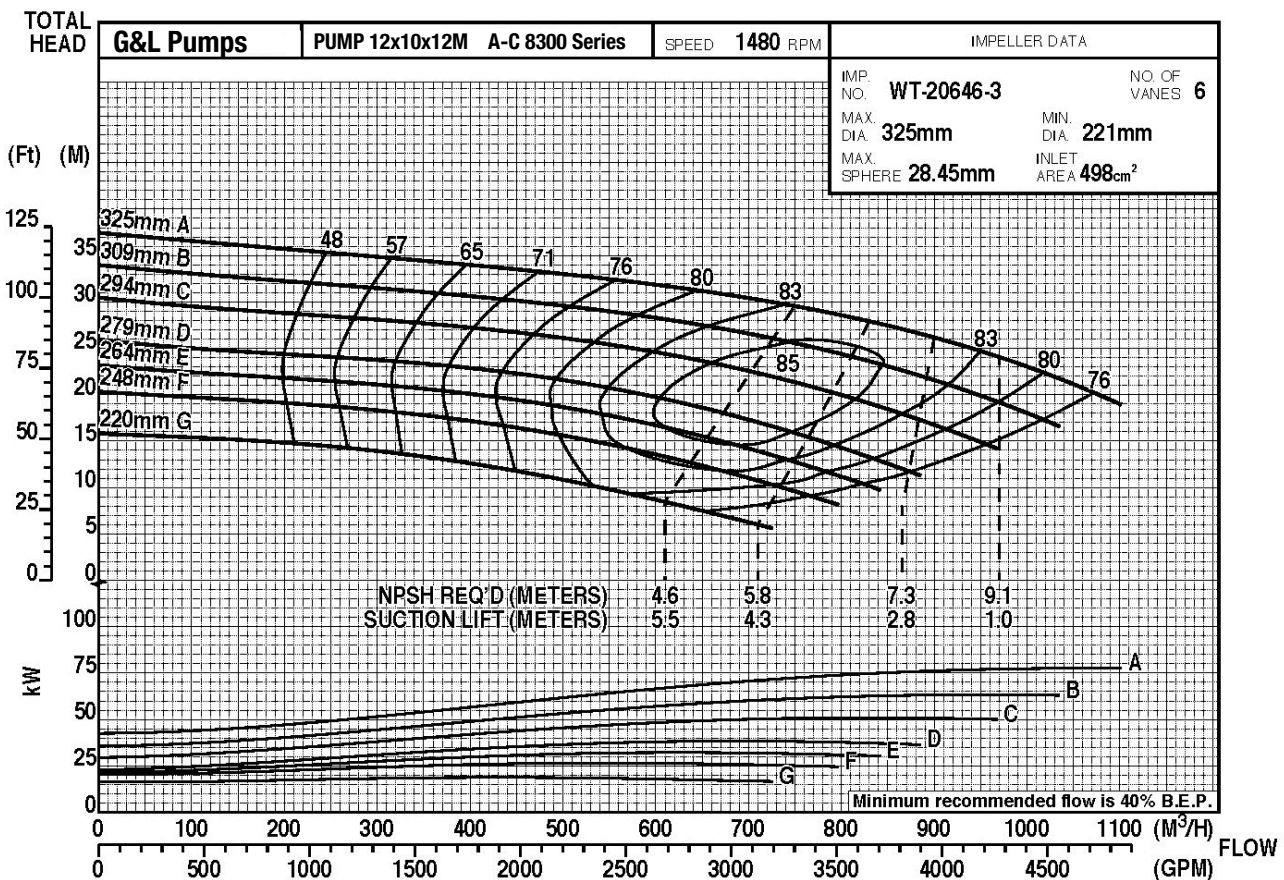
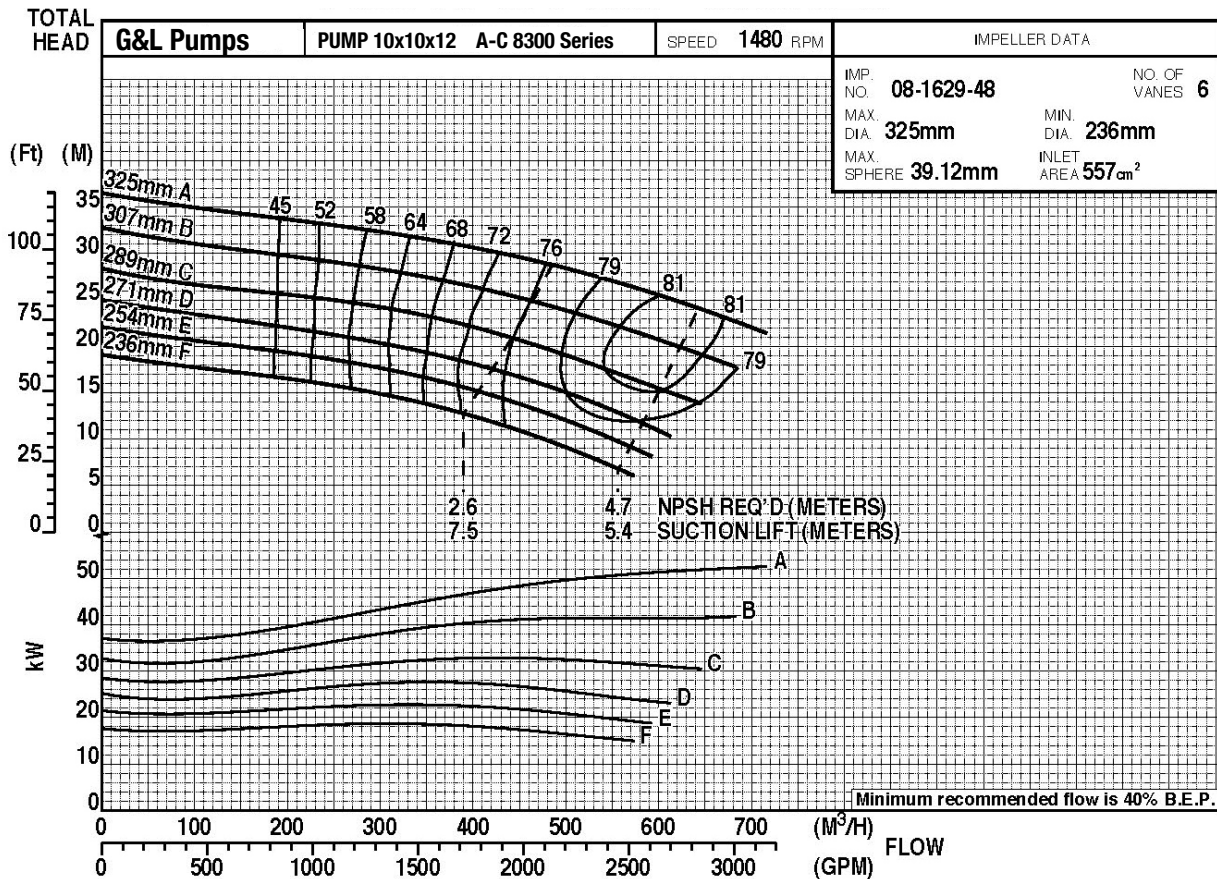


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES

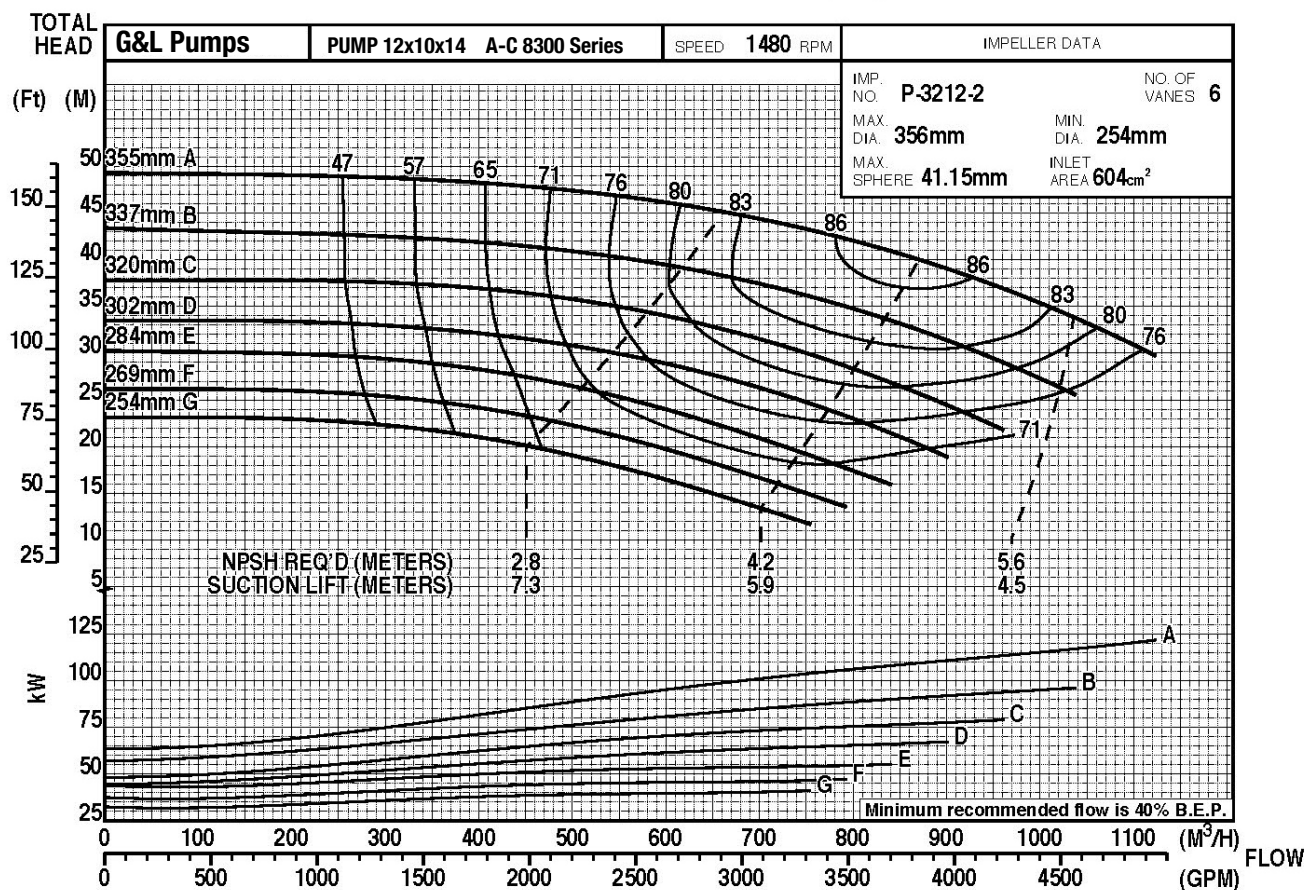
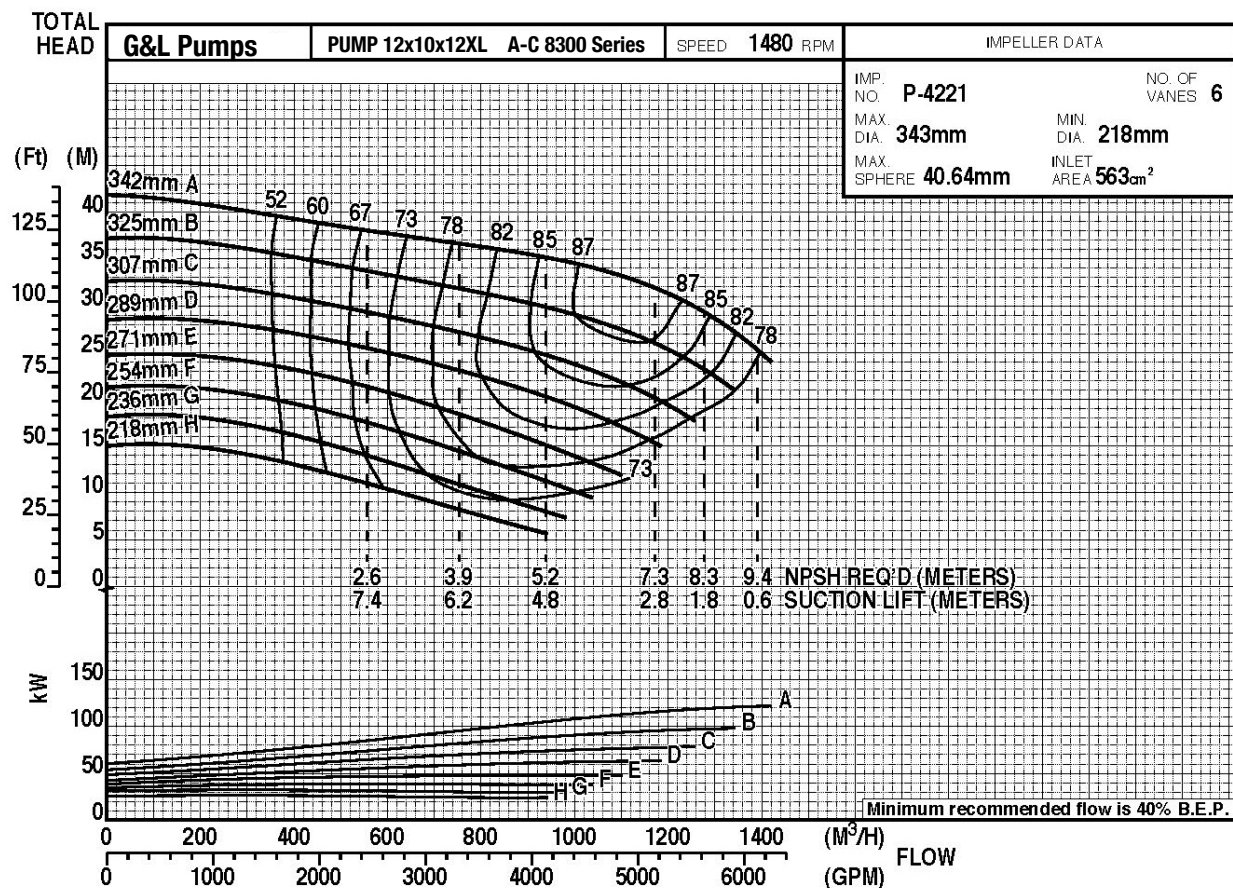


1450 RPM PUMP CURVES

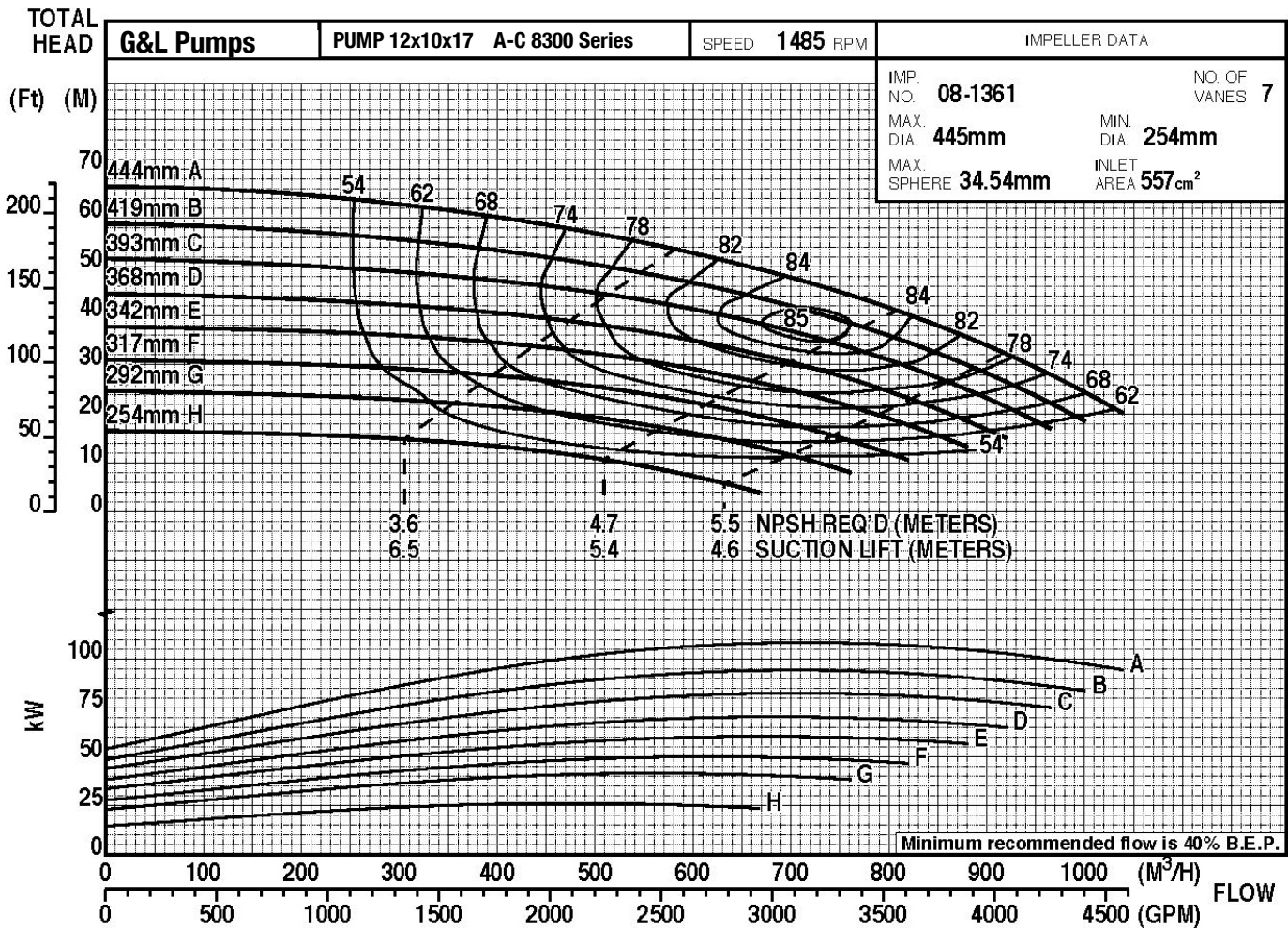


SERIES A-C 8300 - 50 Hz

1450 RPM PUMP CURVES



1450 RPM PUMP CURVES



NOTES

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xyleminc.com



Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (800) 453-6777
Fax: (888) 322-5877
www.gouldswatertechnology.com

G&L Pumps is a trademark of Xylem Inc. or one of its subsidiaries.
© 2013 Xylem Inc. GL-562 R1 June 2014