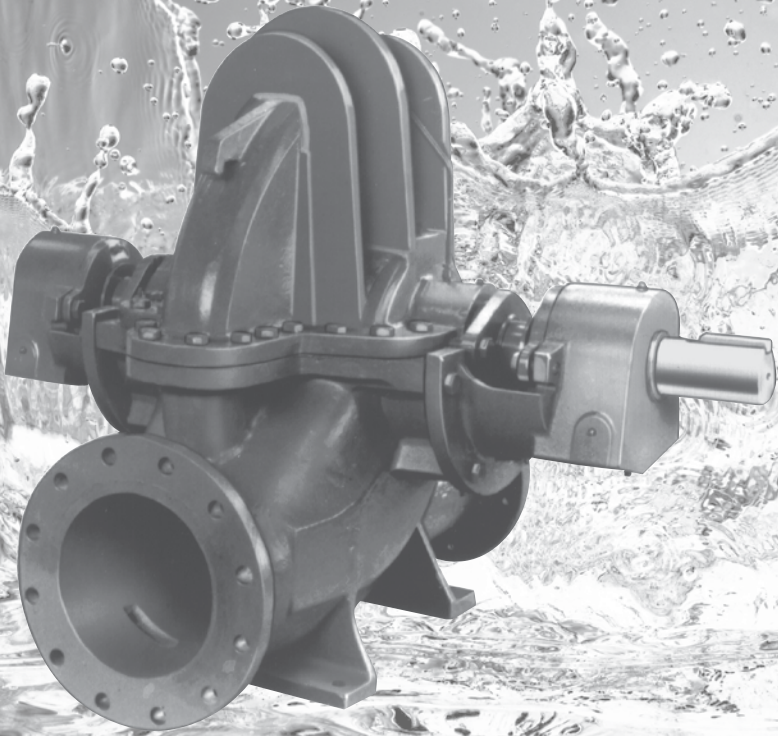


G&L Pumps

CURVES
GL-571 R1



Series A-C 9100 50 Hz

LARGE HORIZONTAL SPLIT CASE BASE MOUNTED - DOUBLE SUCTION
PUMP PERFORMANCE CURVES

xylem
Let's Solve Water

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USEFUL PUMP FORMULAS

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

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

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

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

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

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

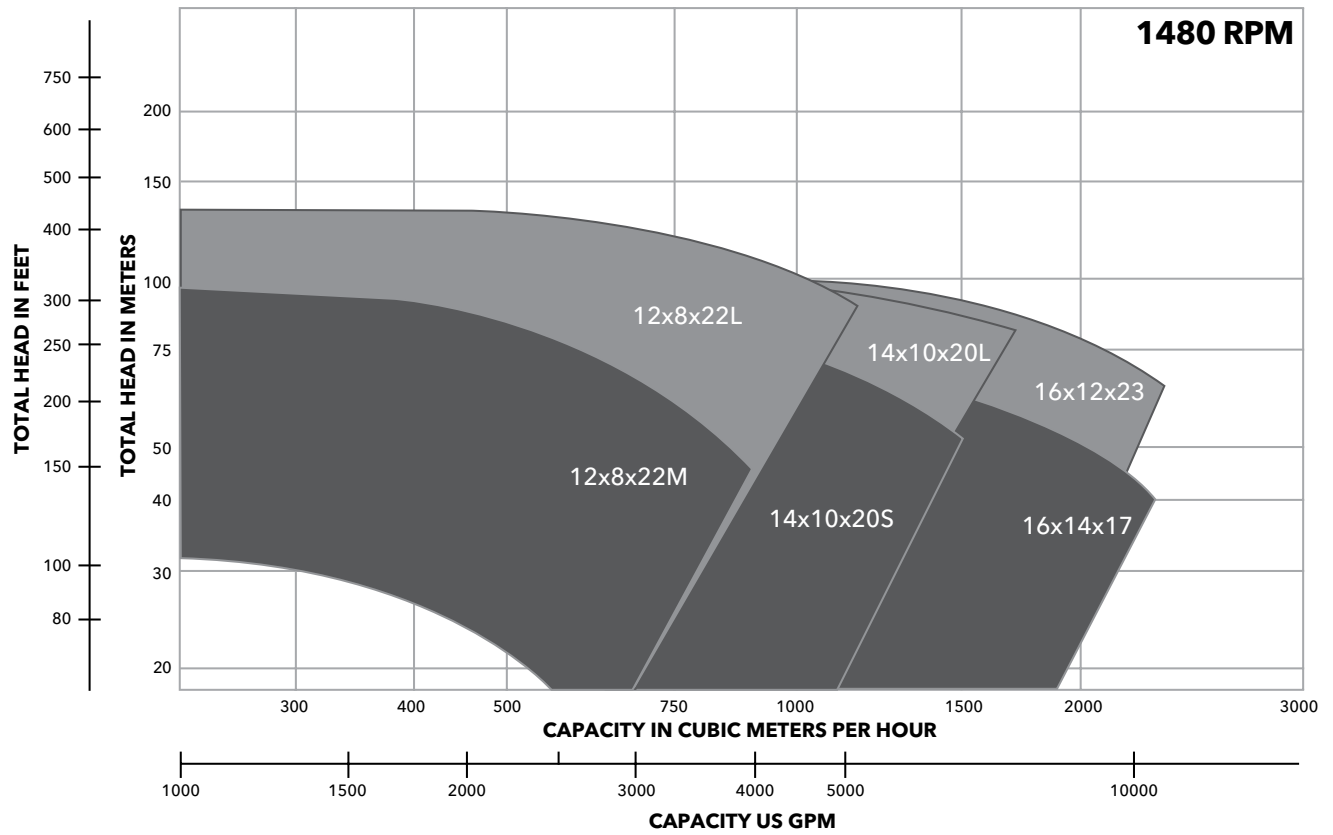
$$\text{NPSH (available)} = \text{Positive Factors} - \text{Negative Factors}$$

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	$Q_2 = \frac{\text{RPM}_2}{\text{RPM}_1} Q_1$	$H_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^2 H_1$	$P_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^3 P_1$

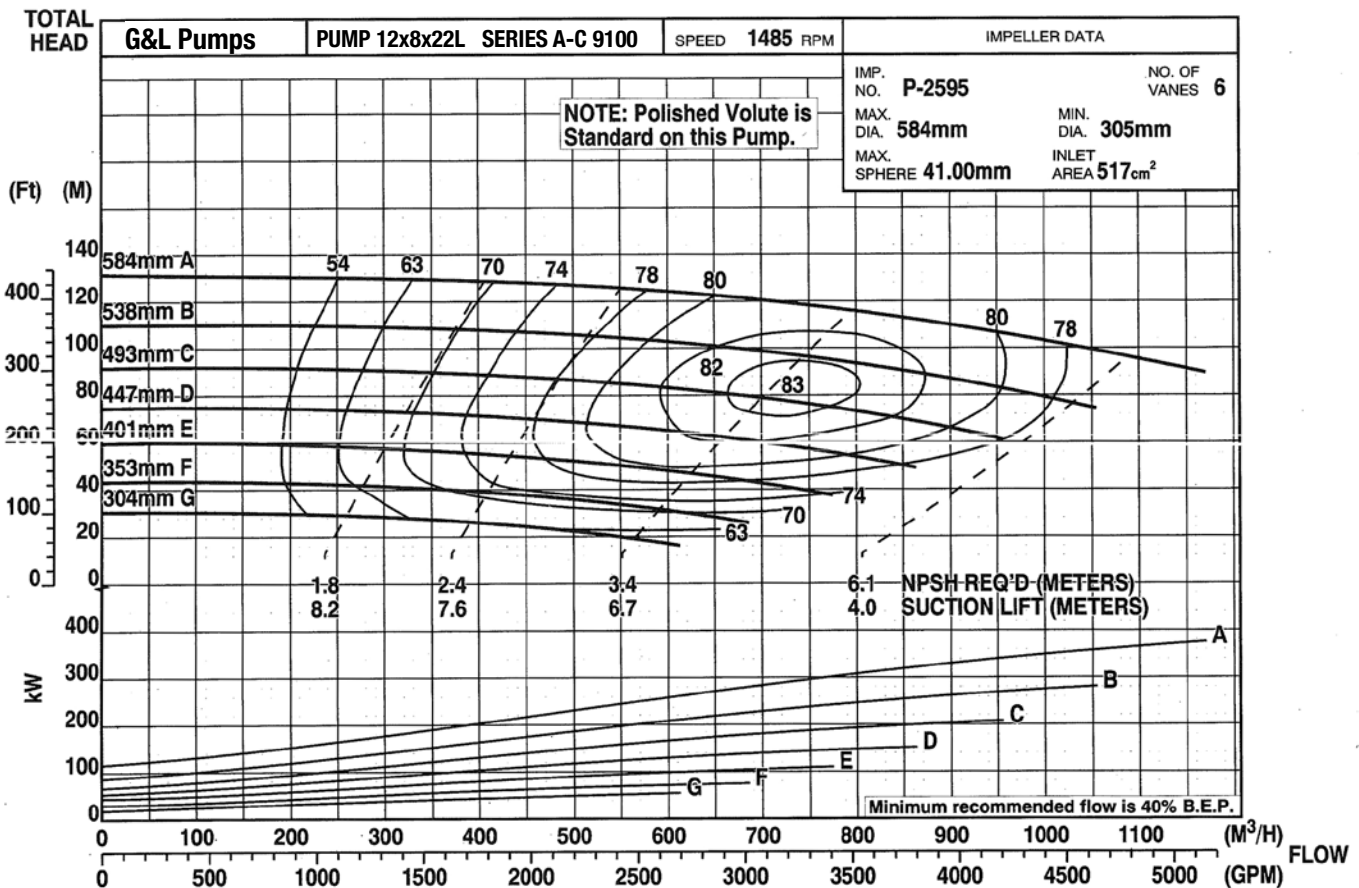
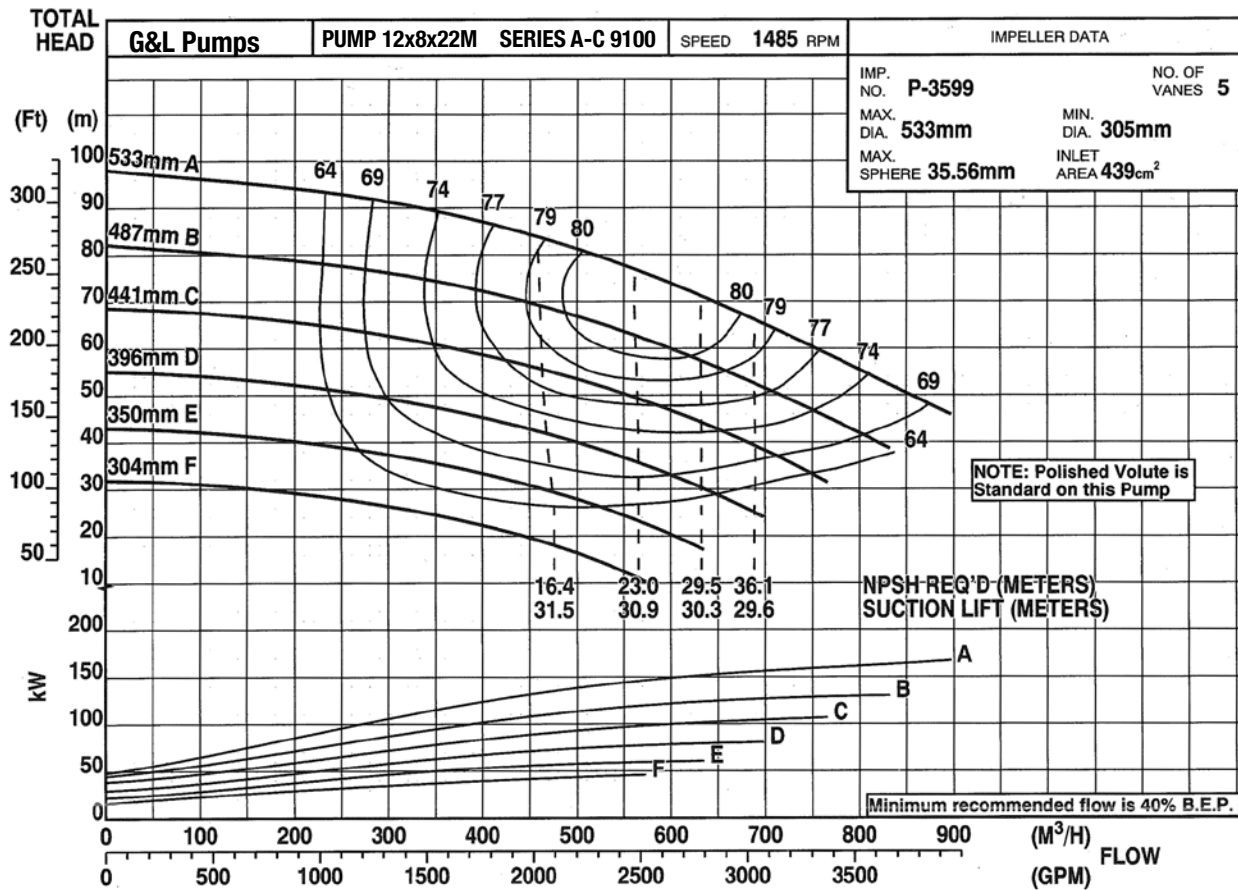
Where Q = GPM, H = Head, P = BHP, D = Impeller Diameter, RPM = Pump Speed

SERIES A-C 9100 - 50 Hz



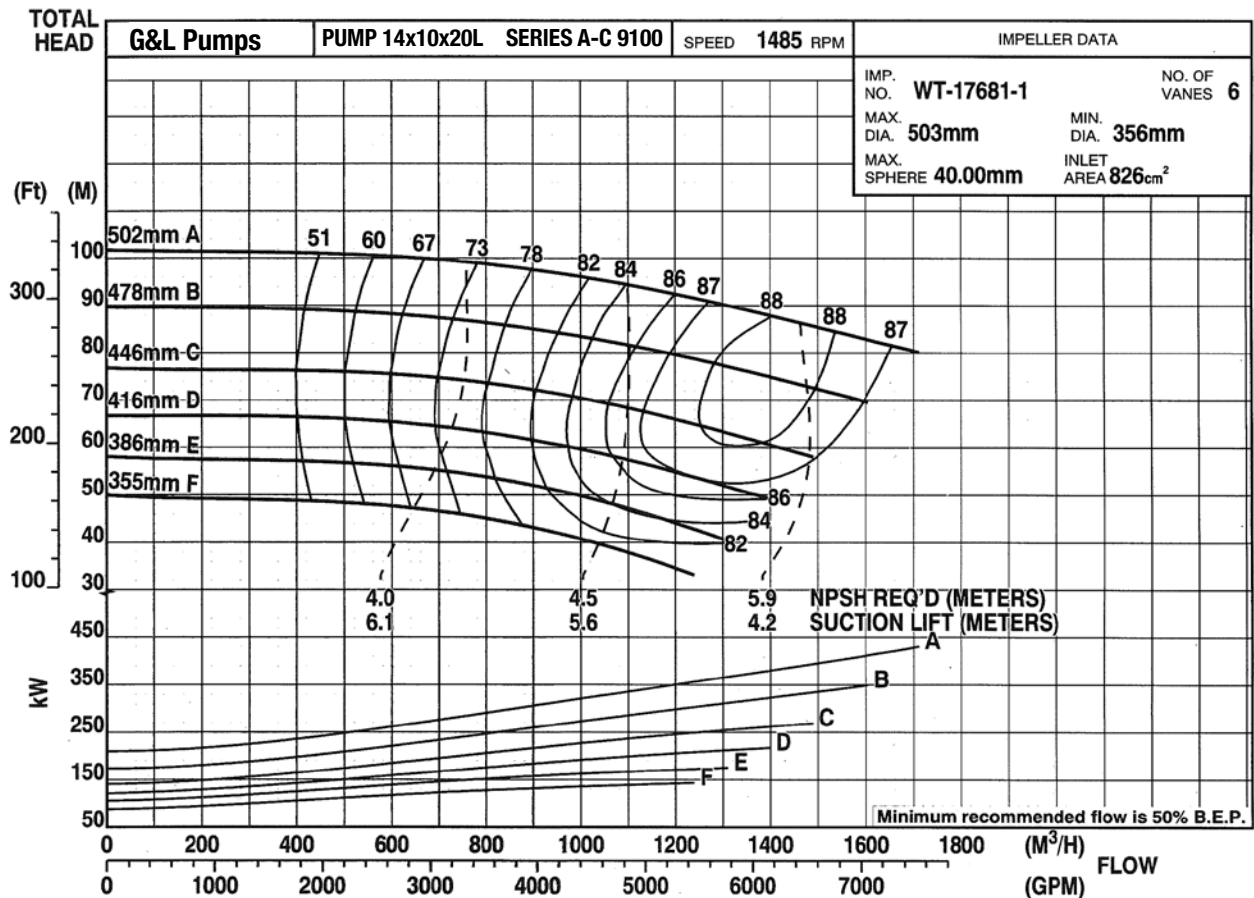
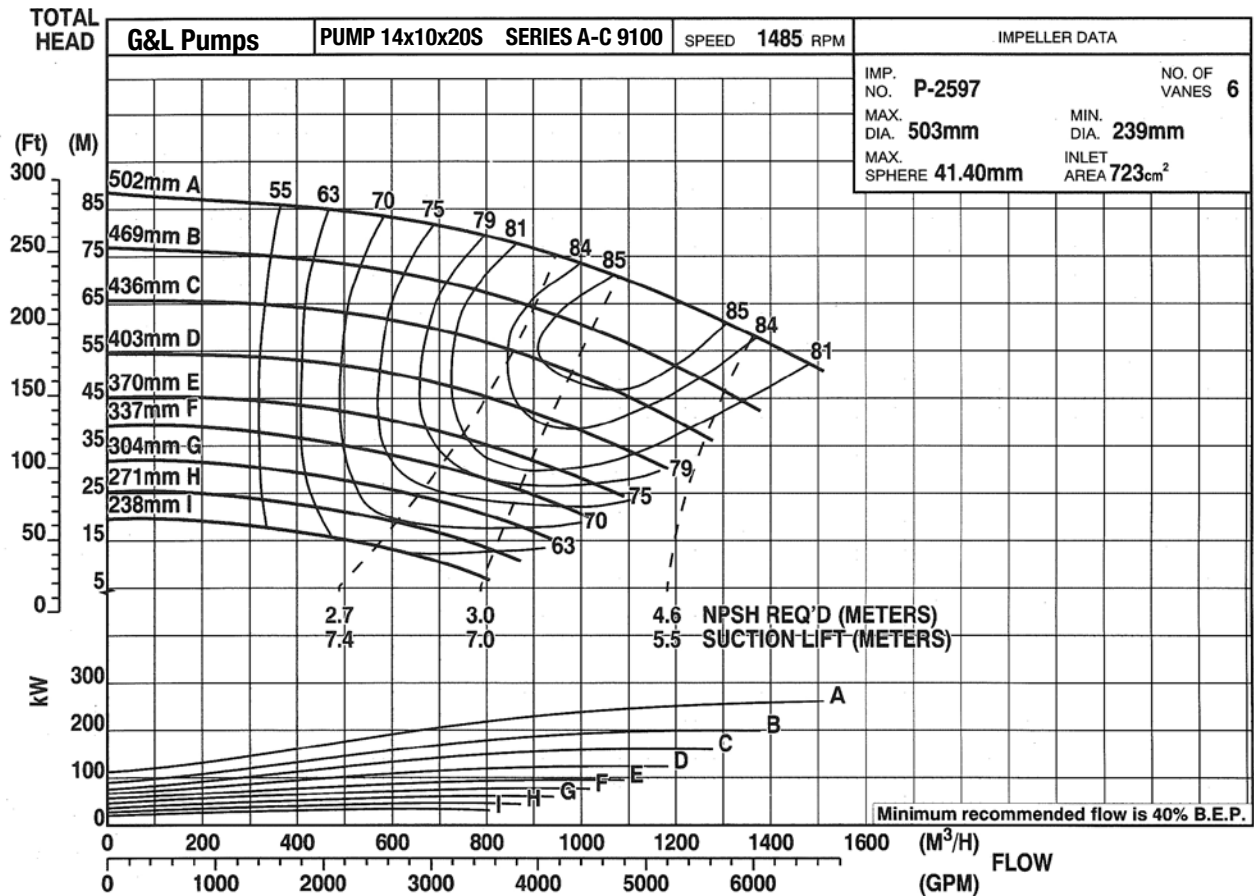
SERIES A-C 9100 - 50 Hz

1500 RPM PUMP CURVES



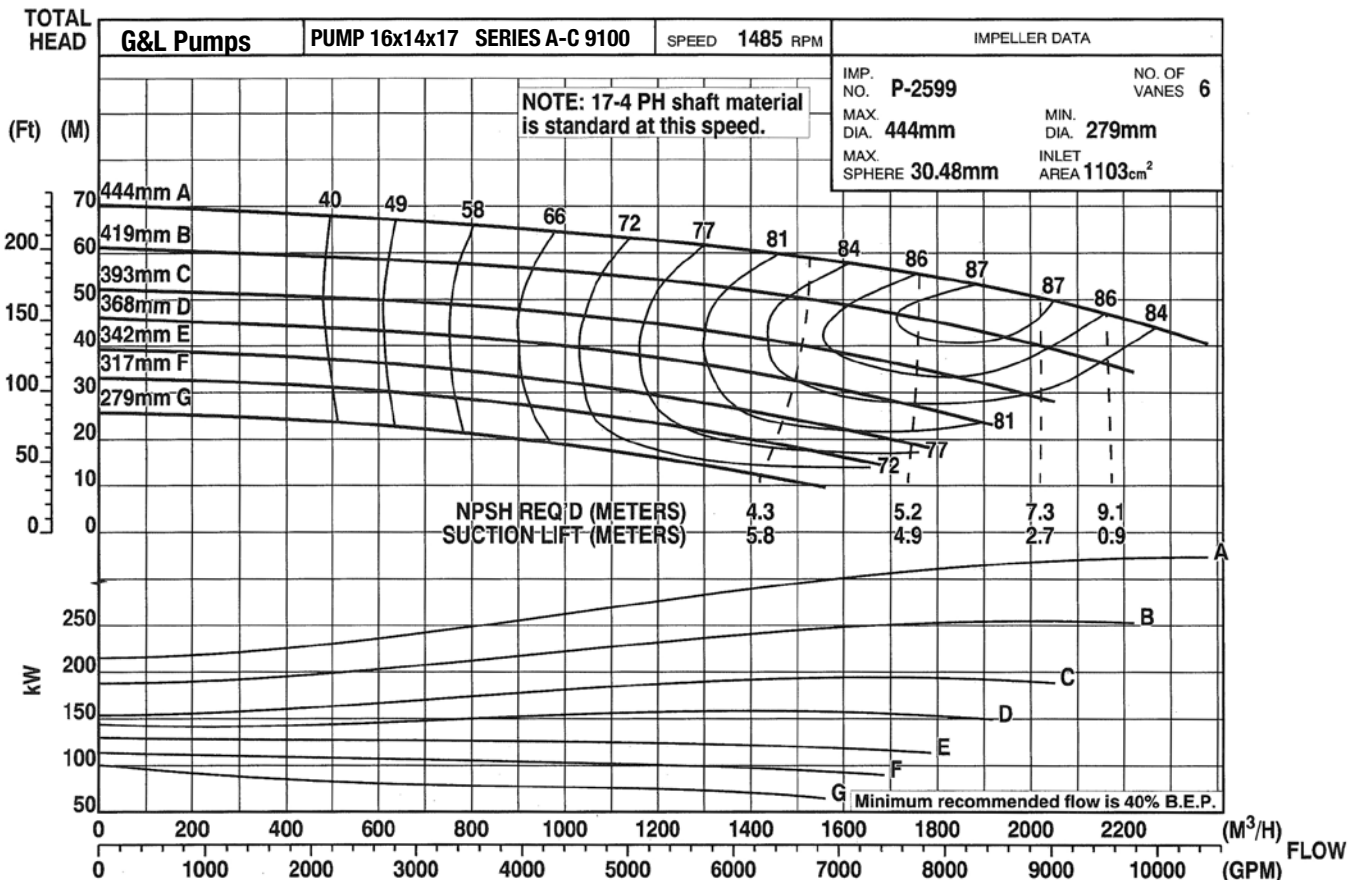
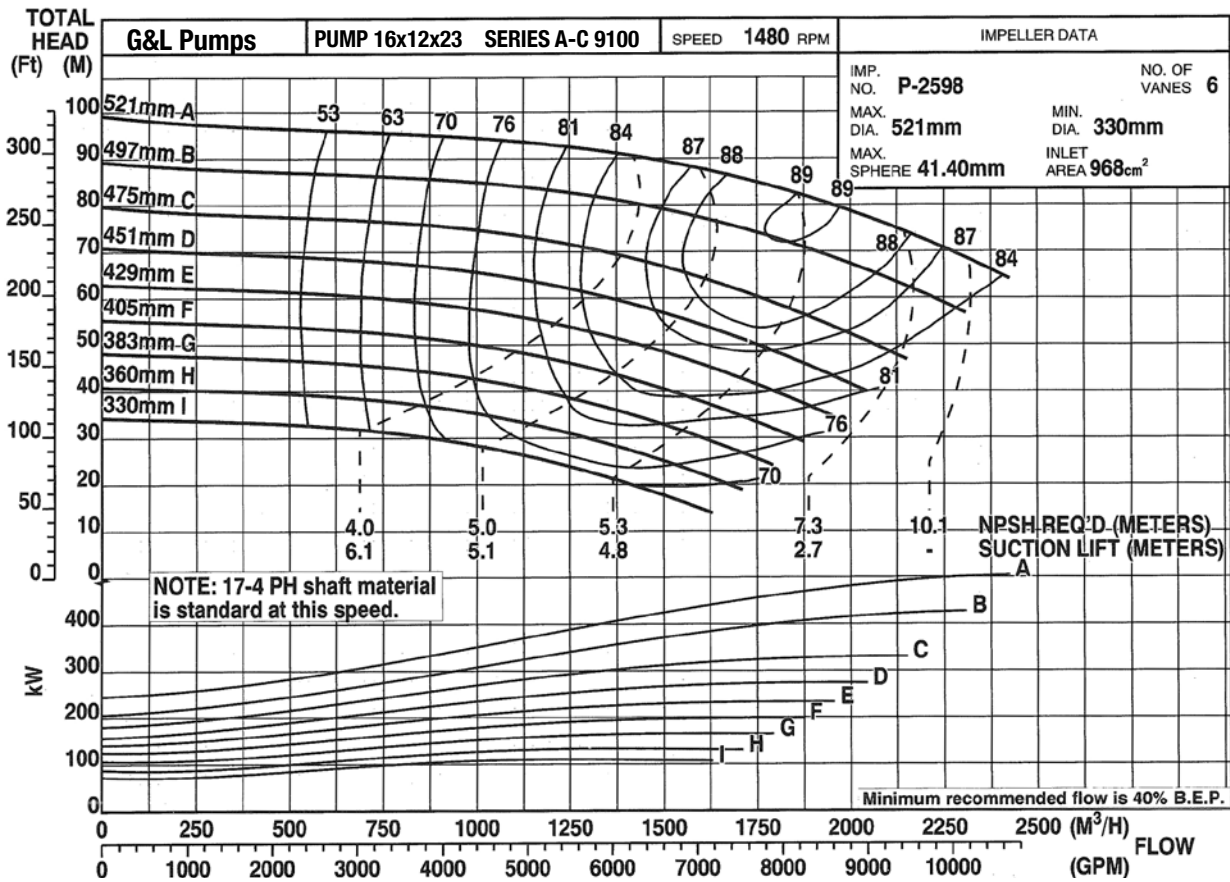
SERIES A-C 9100 - 50 Hz

1500 RPM PUMP CURVES



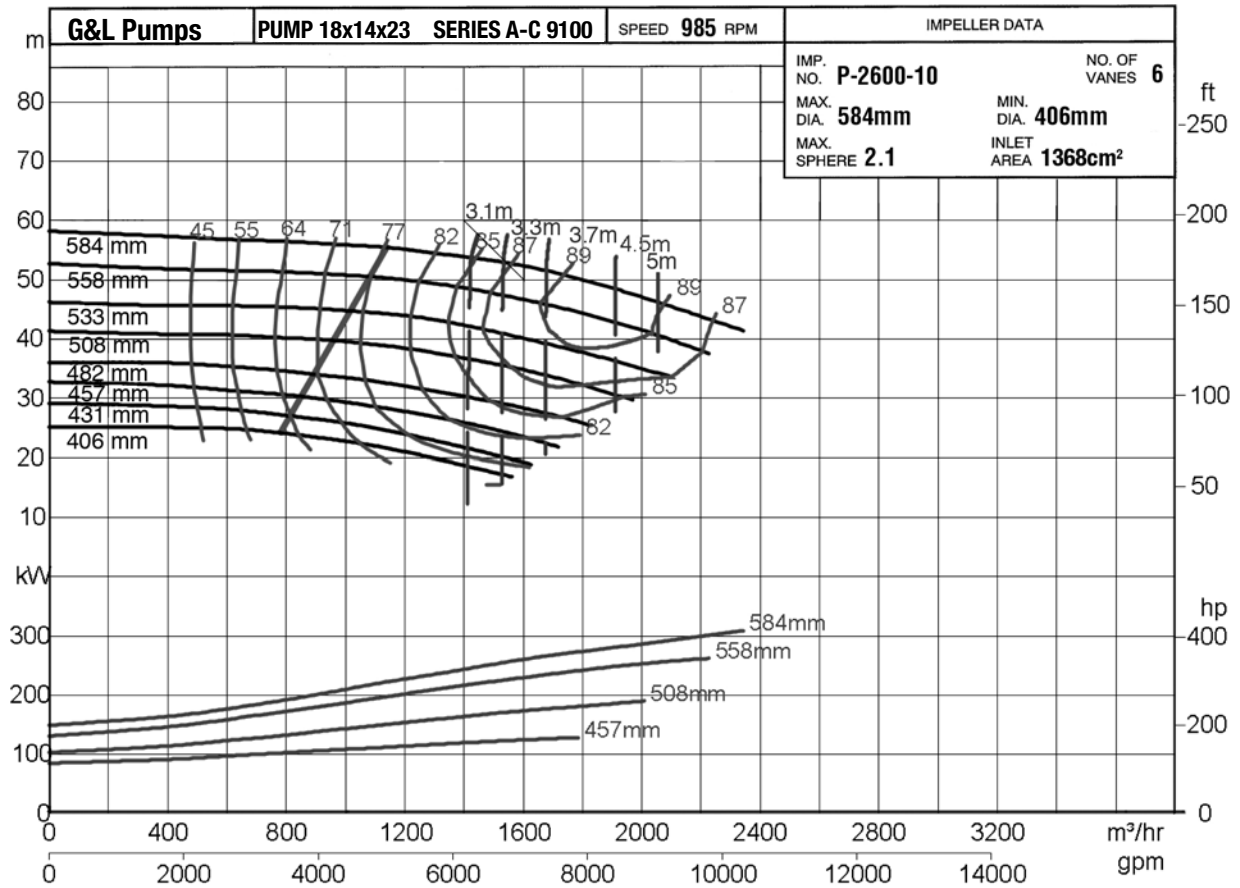
SERIES A-C 9100 - 50 Hz

1500 RPM PUMP CURVES



SERIES A-C 9100 - 50 Hz

1000 RPM PUMP CURVES



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.

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