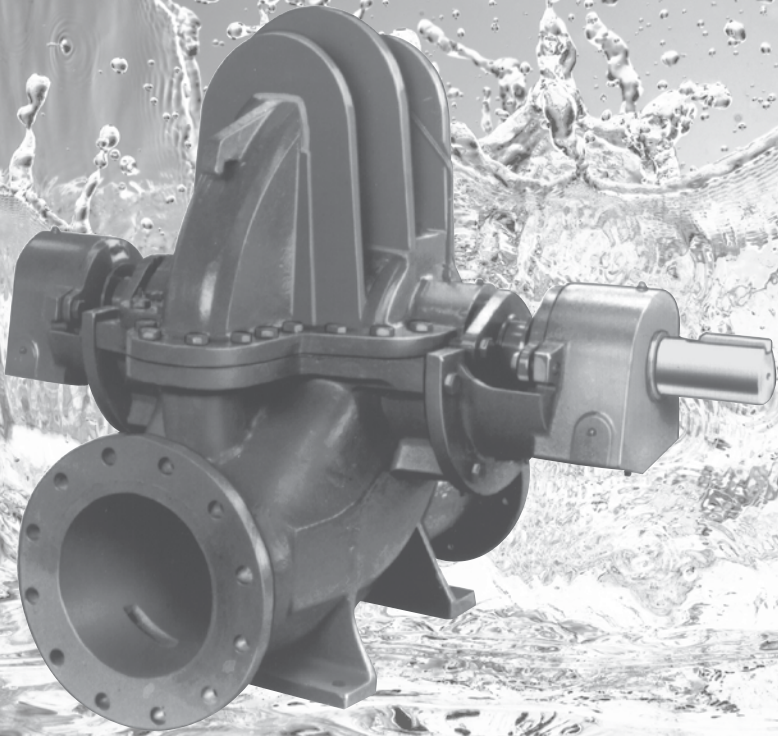


G&L Pumps

CURVES
GL-570 R1



Series A-C 9100 60 Hz

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

xylem
Let's Solve Water

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USEFUL PUMP FORMULAS

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

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

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

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

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

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

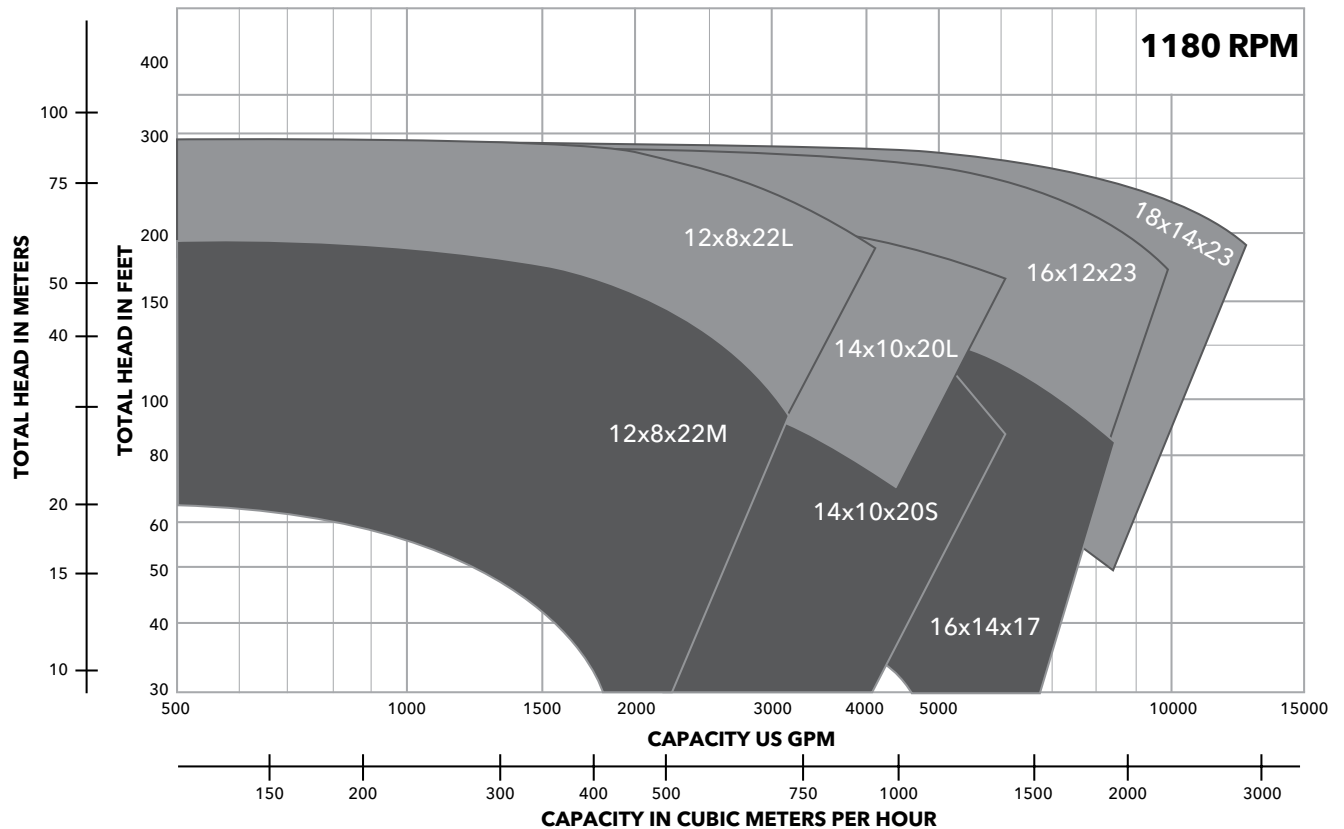
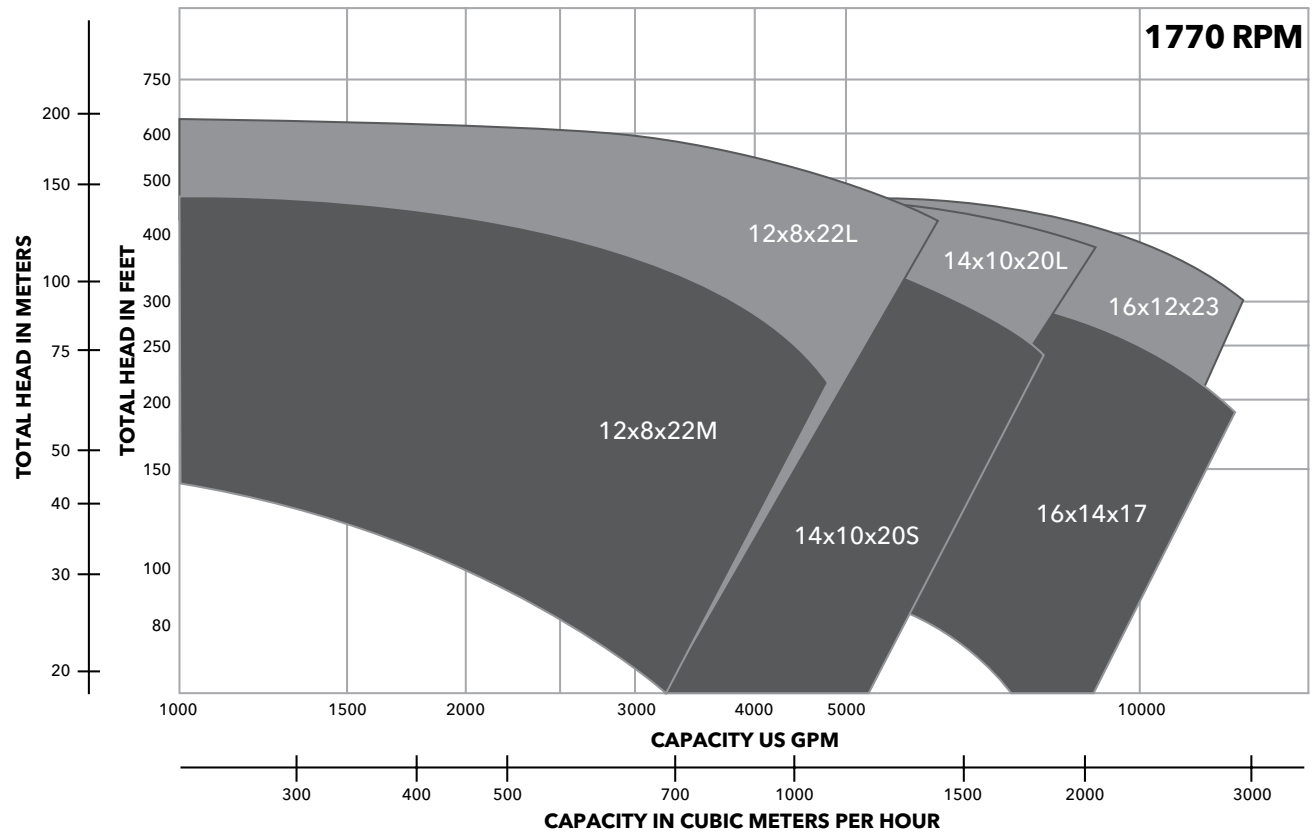
$$\text{NPSH (available)} = \text{Positive Factors} - \text{Negative Factors}$$

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

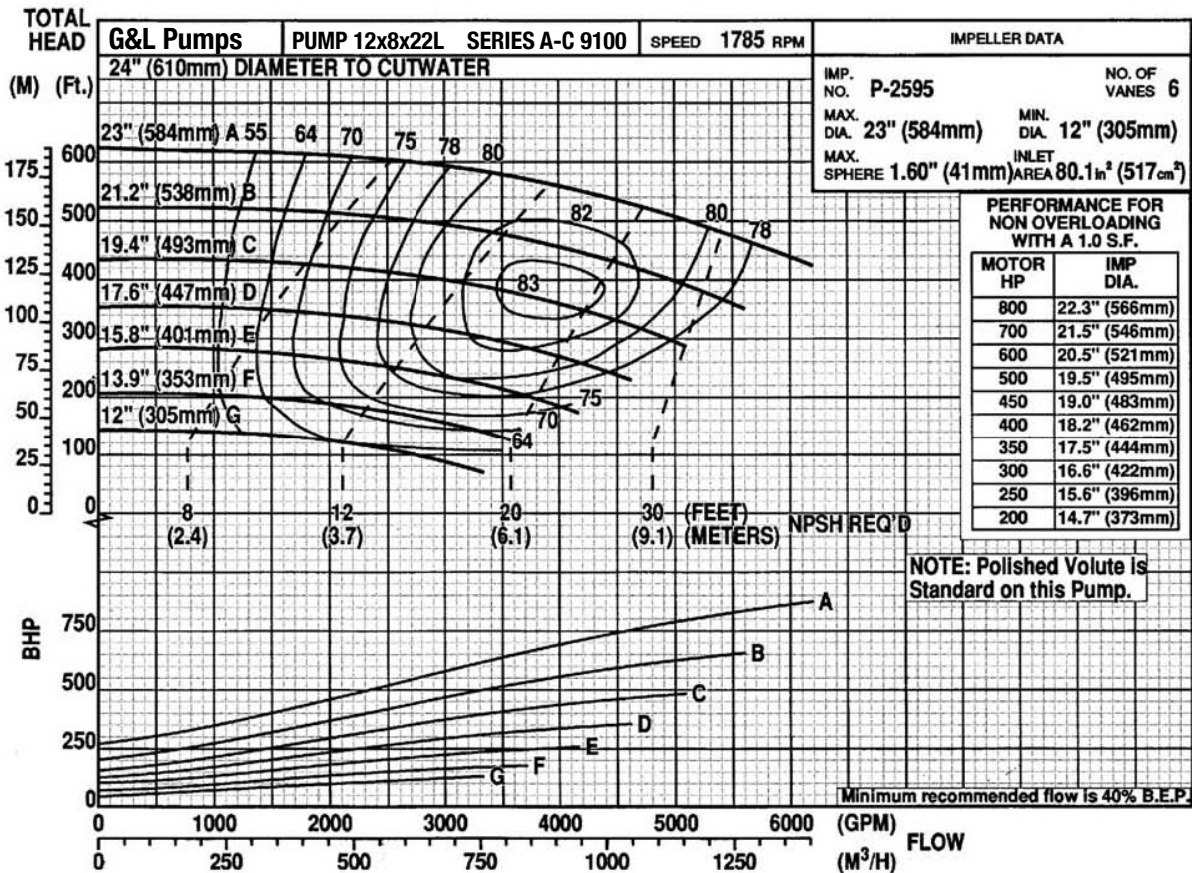
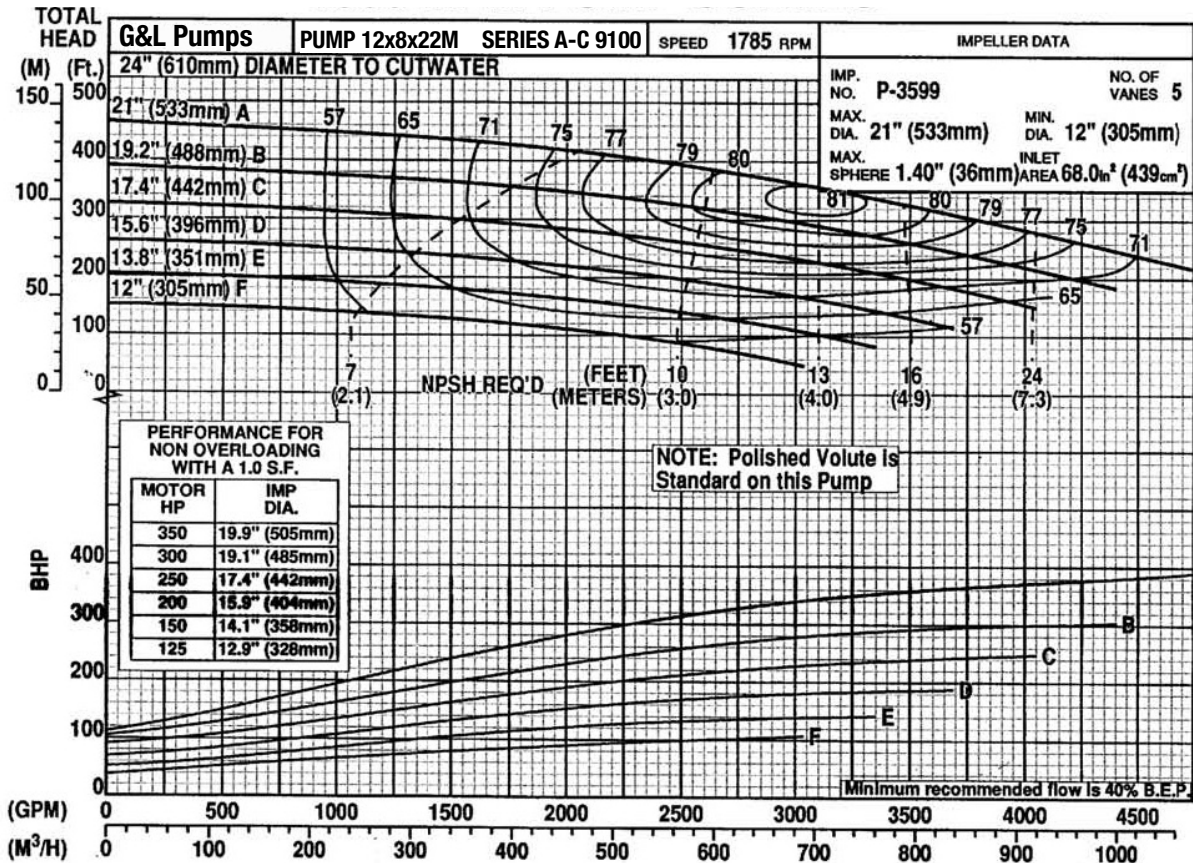
	GPM Capacity	Feet Head	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{\text{RPM}_2}{\text{RPM}_1} Q_1$	$H_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^2 H_1$	$P_2 = \left(\frac{\text{RPM}_2}{\text{RPM}_1}\right)^3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

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

SERIES A-C 9100 - 60 Hz

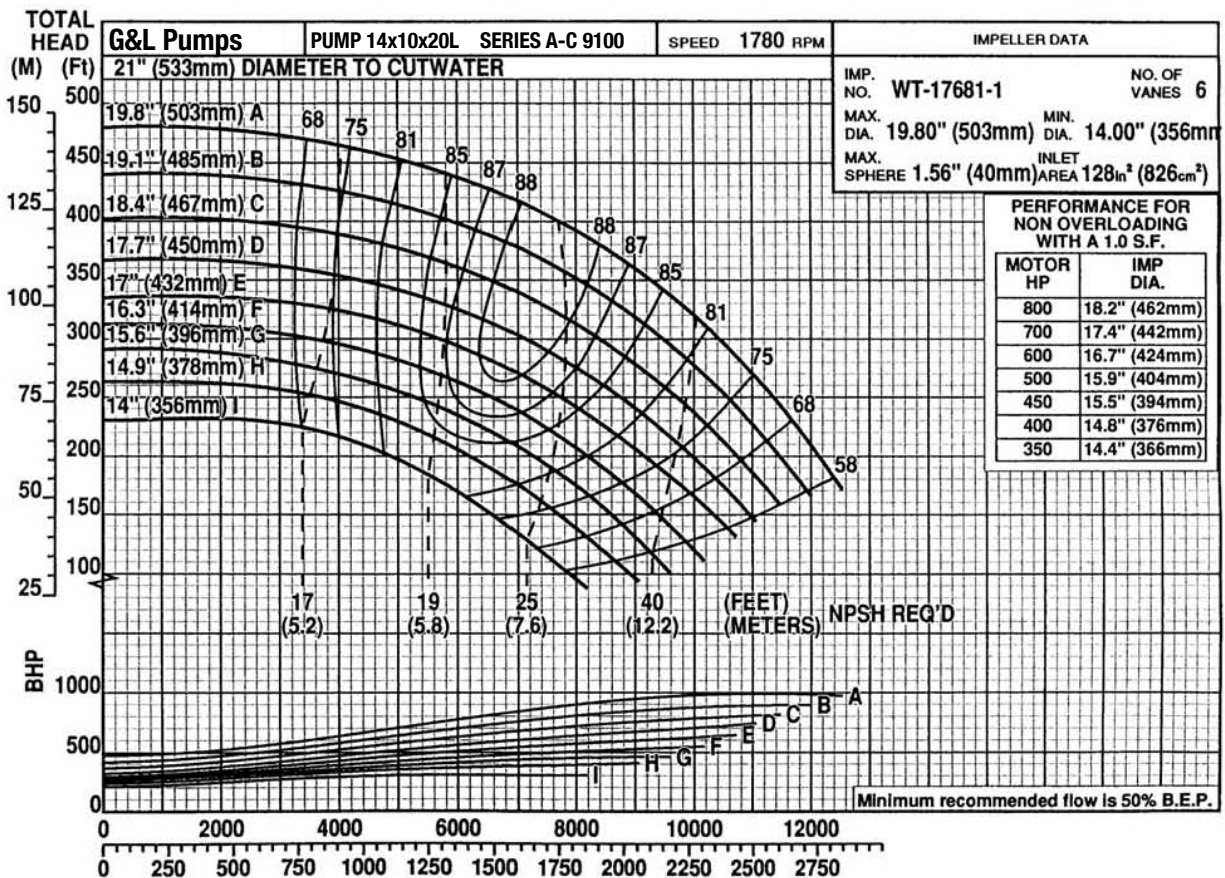
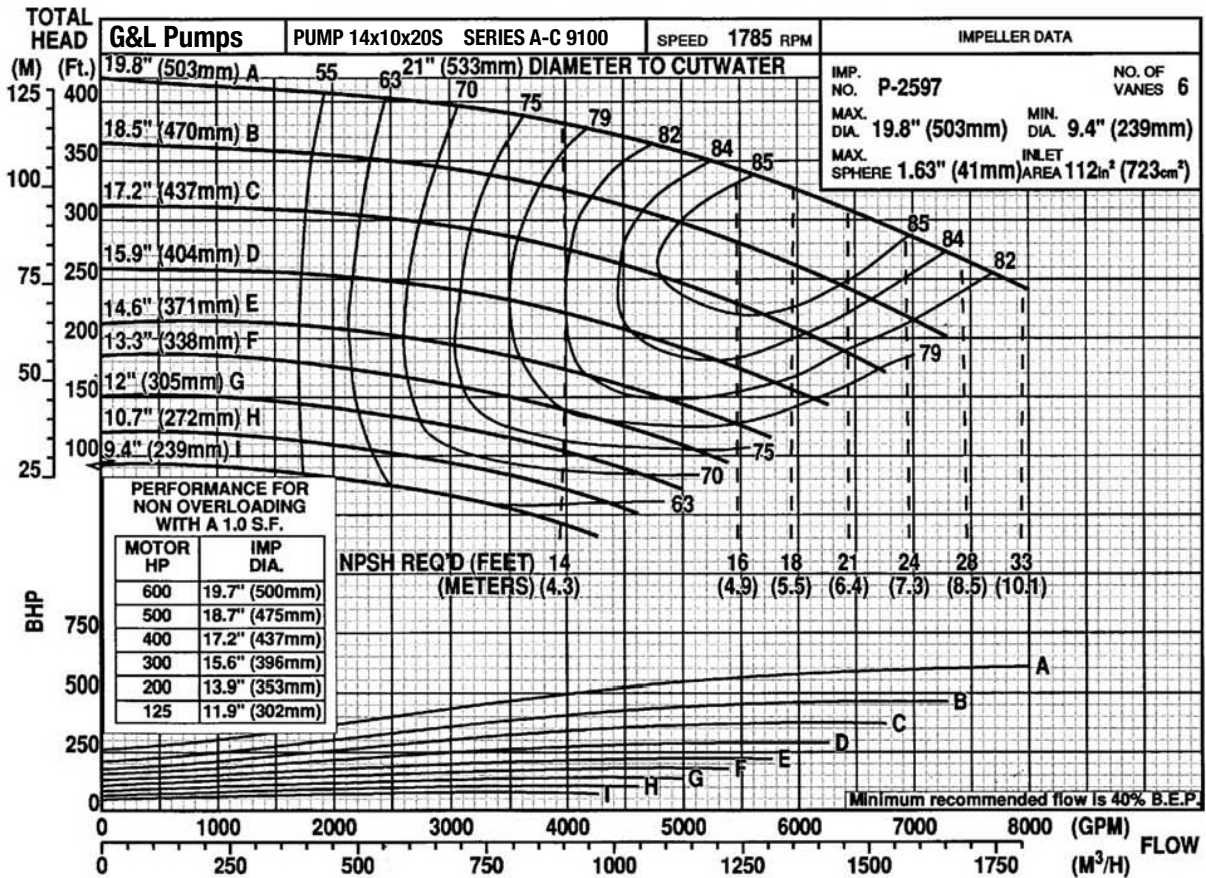


1800 RPM PUMP CURVES



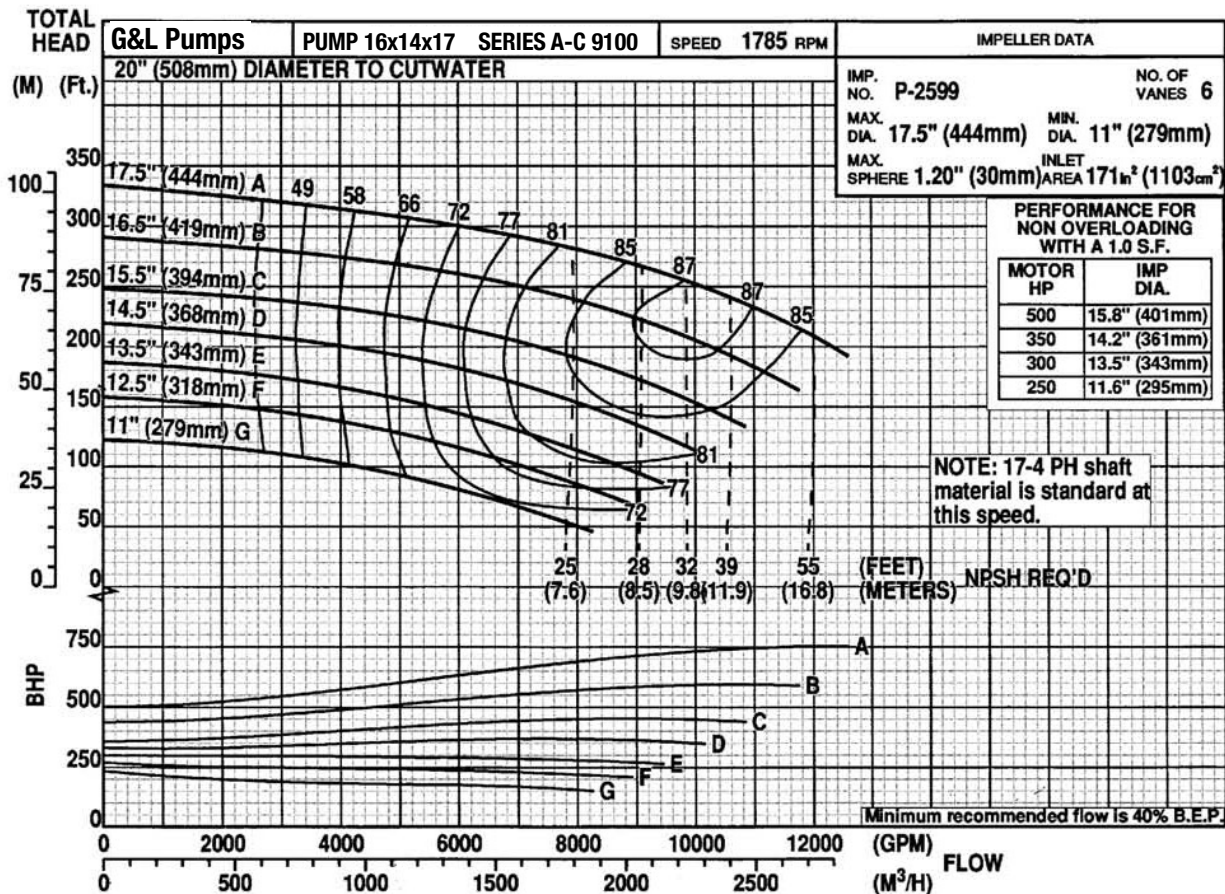
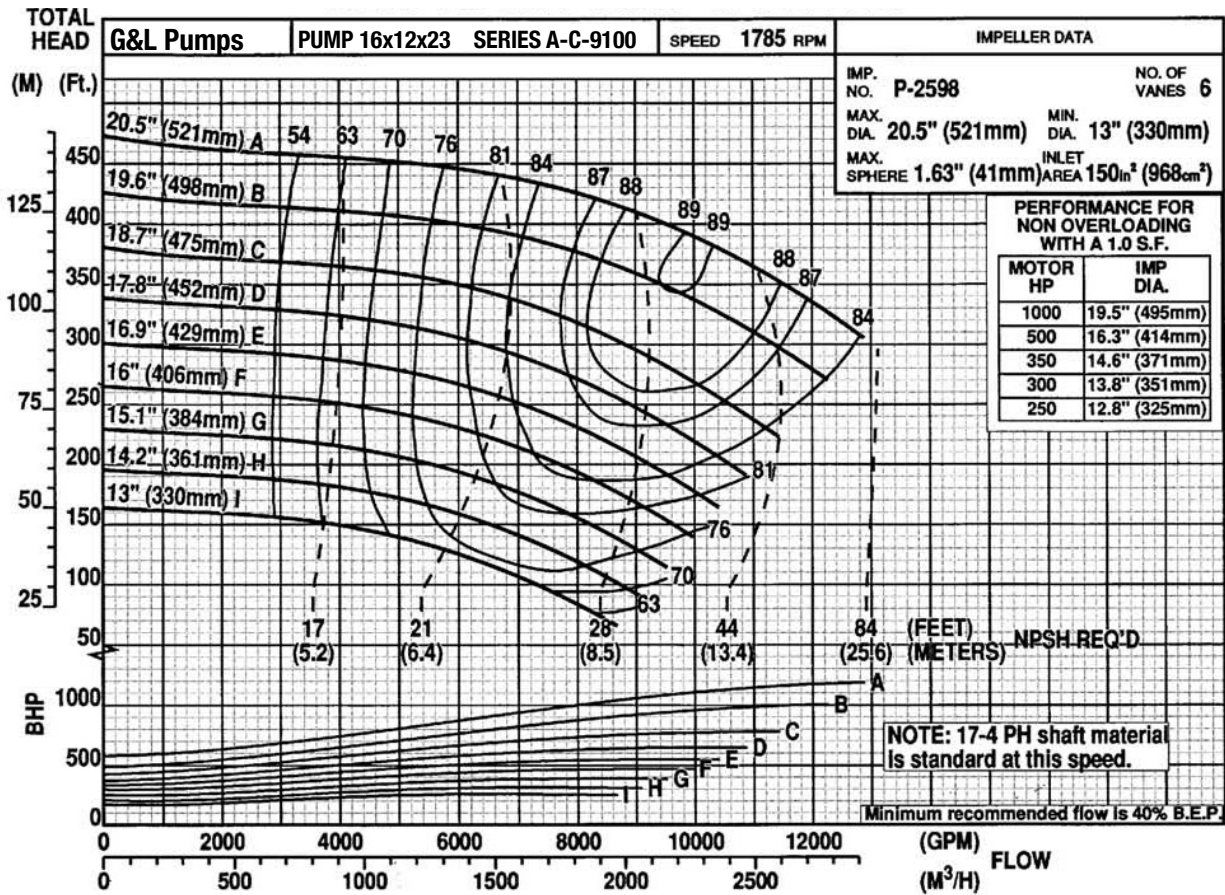
SERIES A-C 9100 - 60 Hz

1800 RPM PUMP CURVES



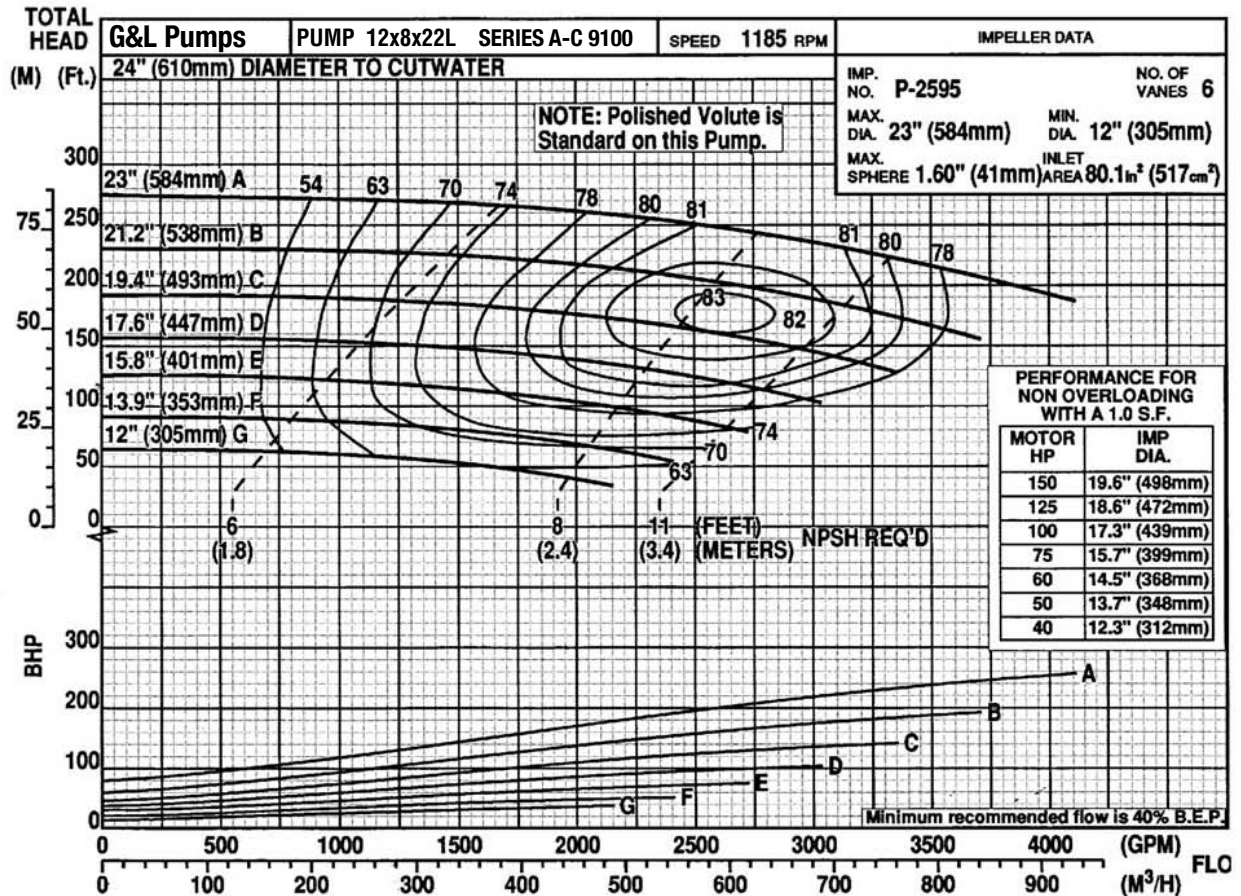
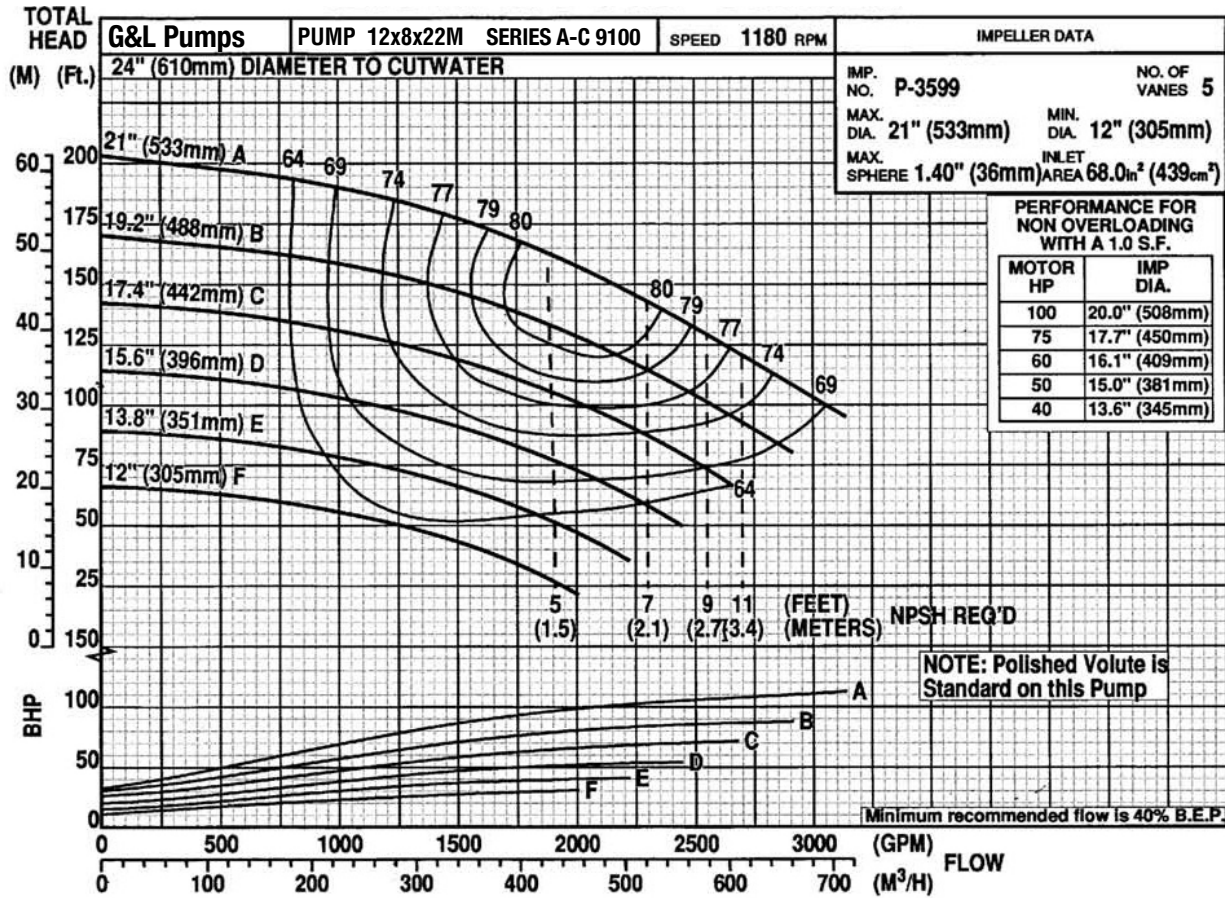
SERIES A-C 9100 - 60 Hz

1800 RPM PUMP CURVES

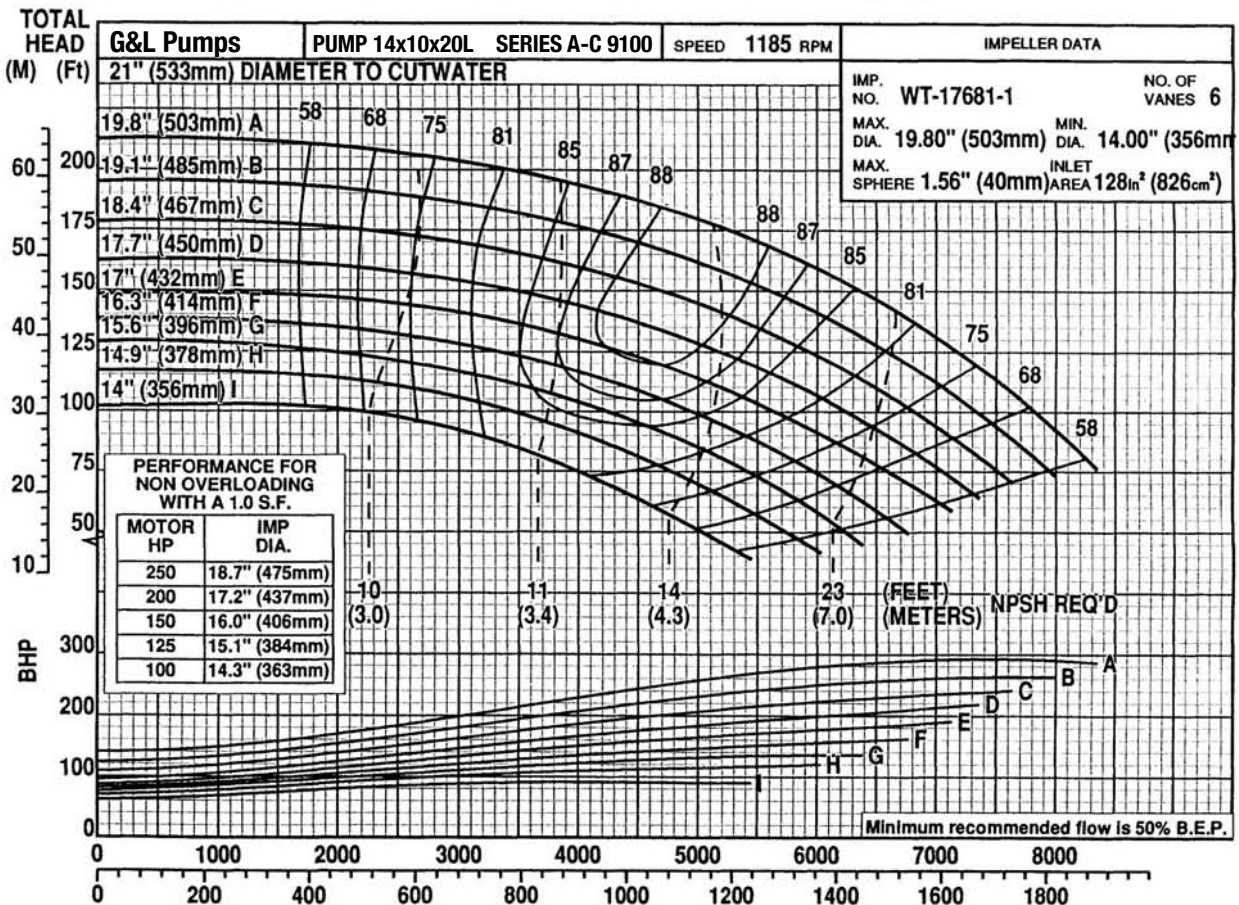
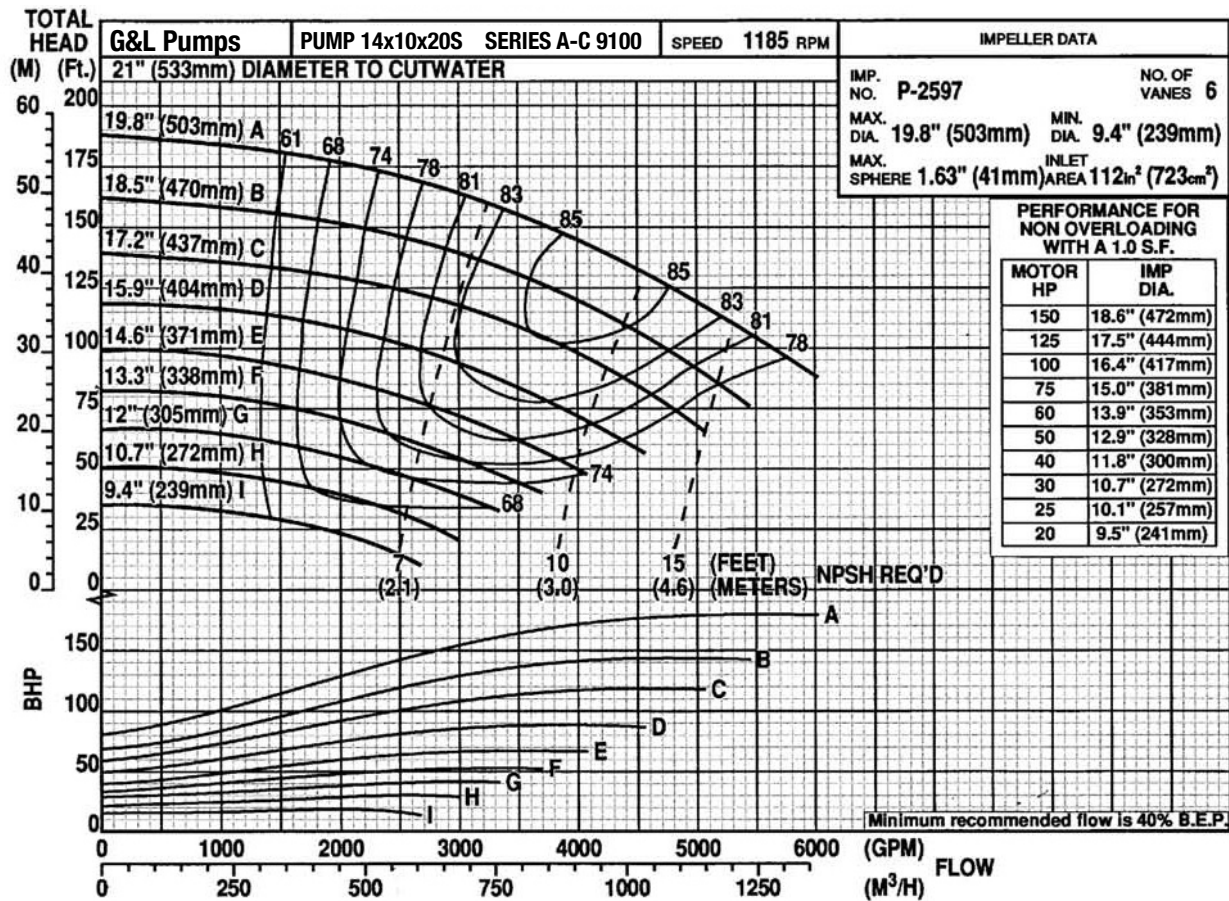


SERIES A-C 9100 - 60 Hz

1200 RPM PUMP CURVES

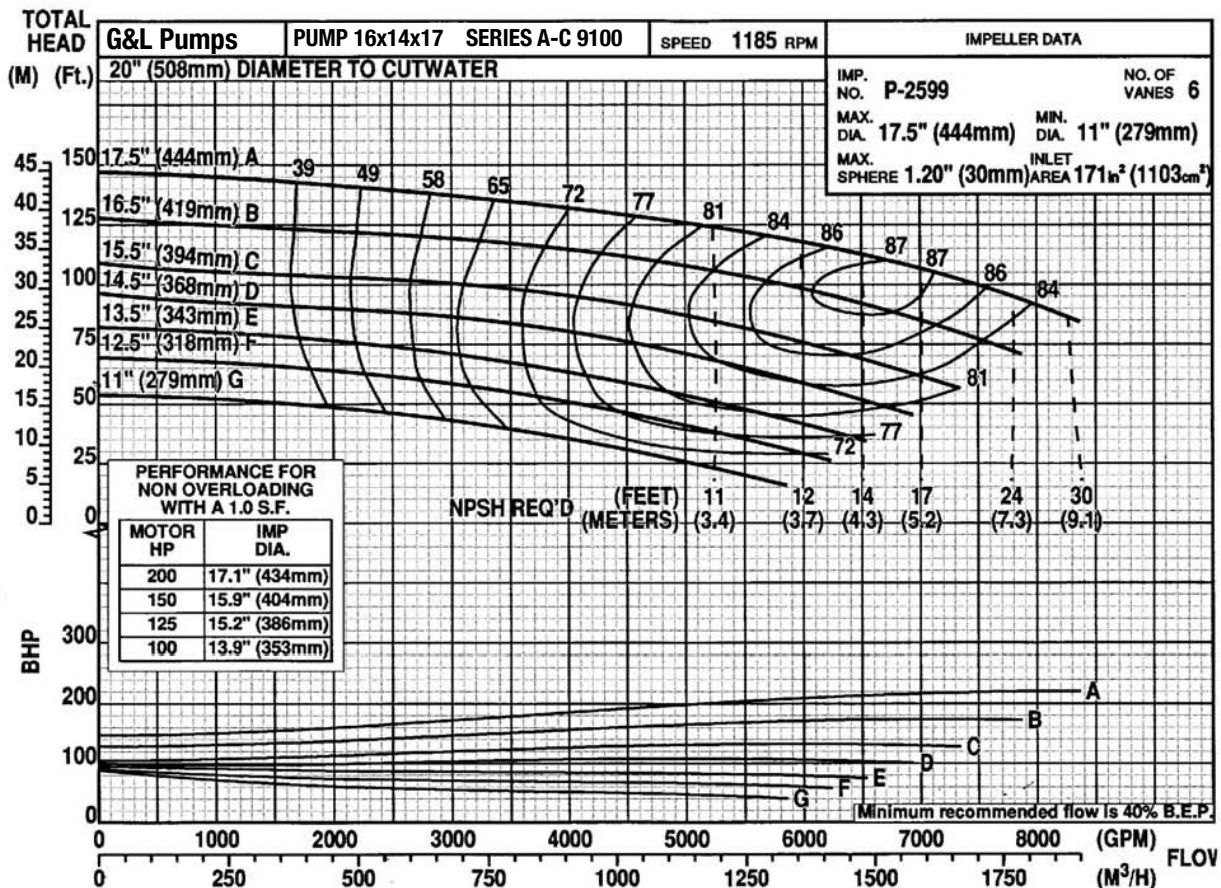
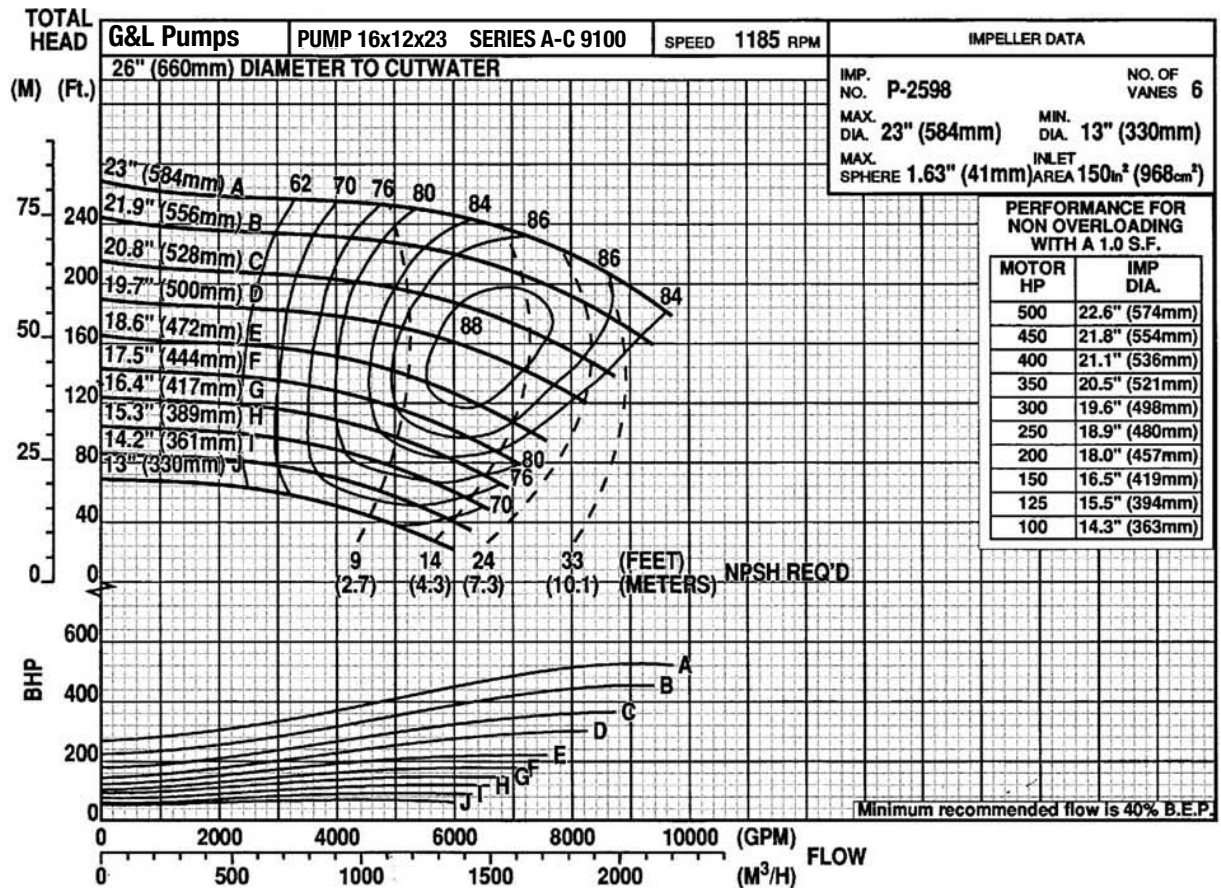


1200 RPM PUMP CURVES

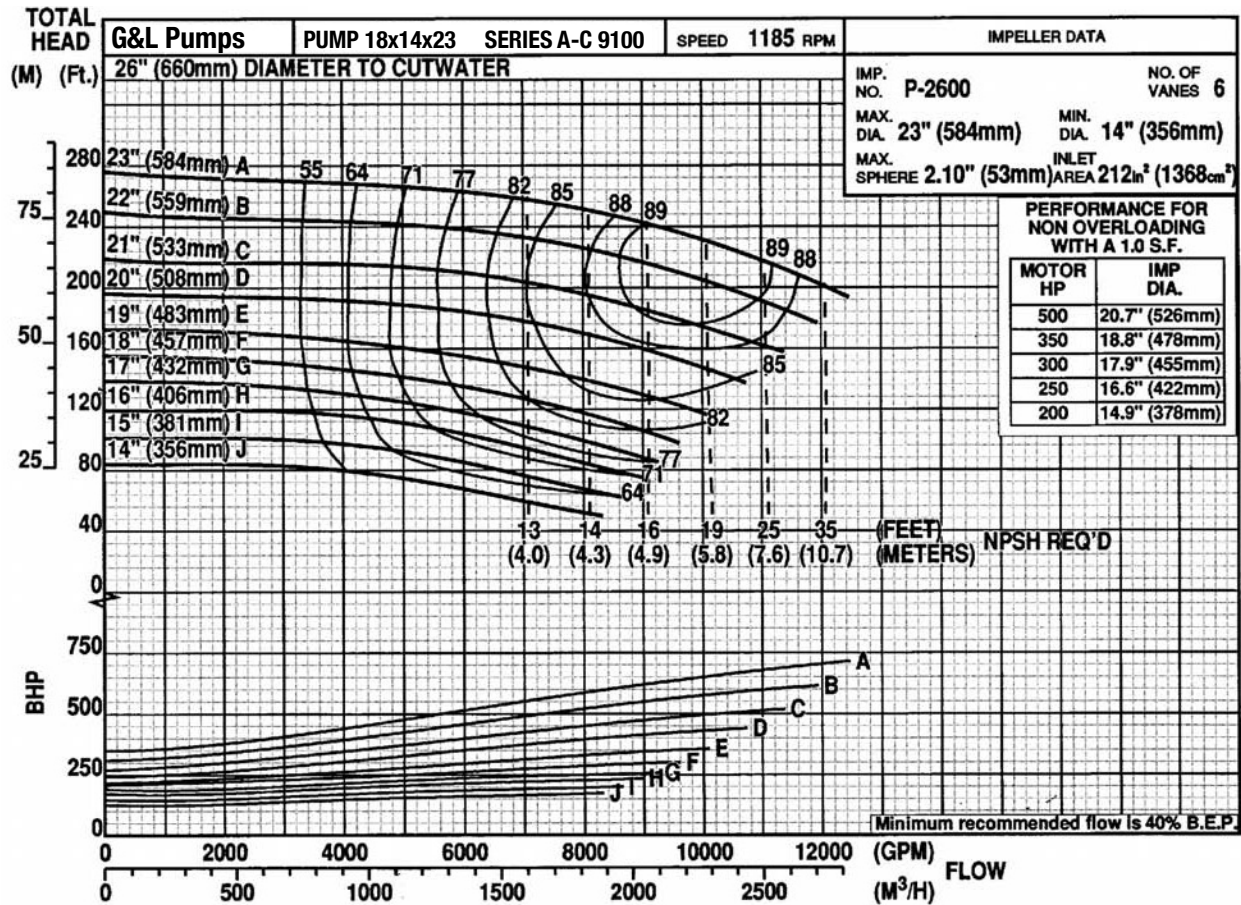


SERIES A-C 9100 - 60 Hz

1200 RPM PUMP CURVES

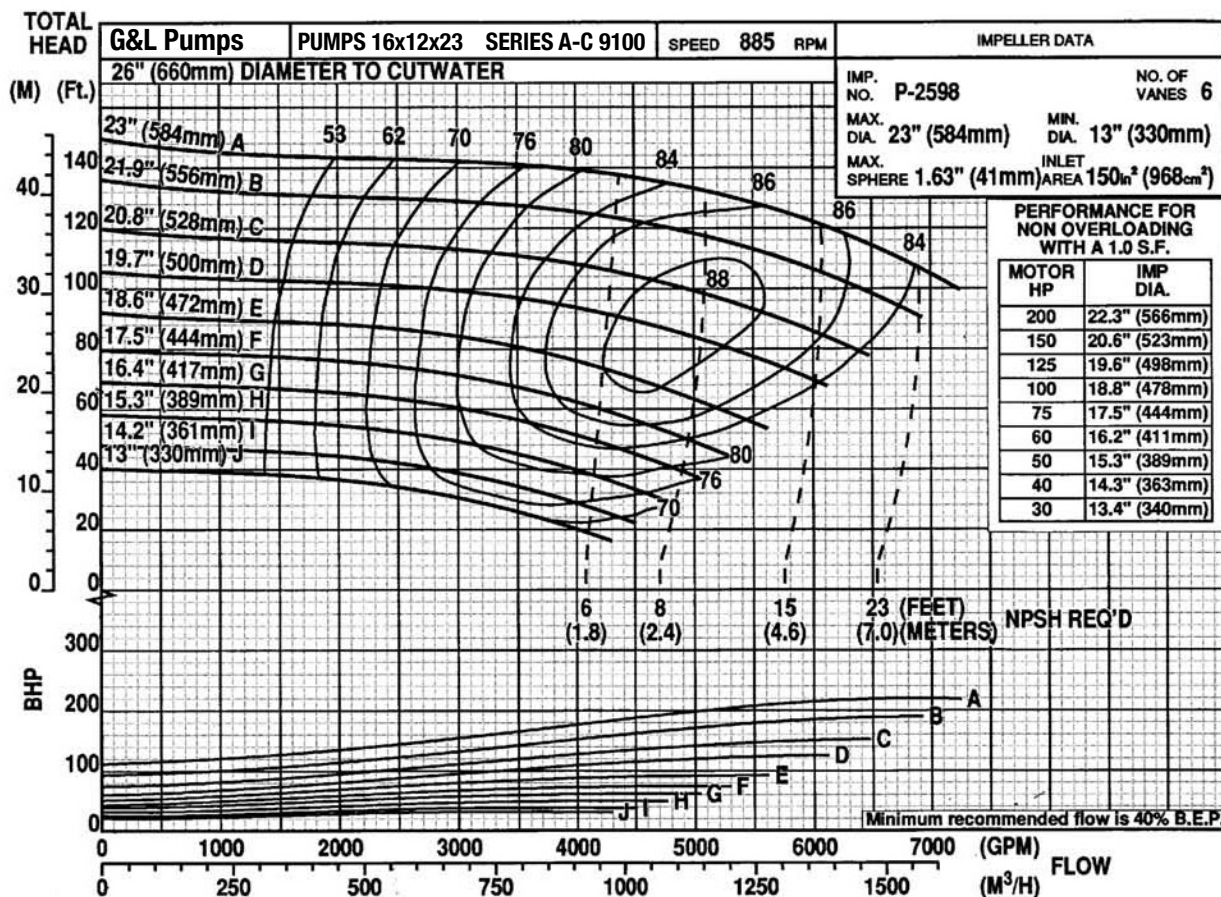
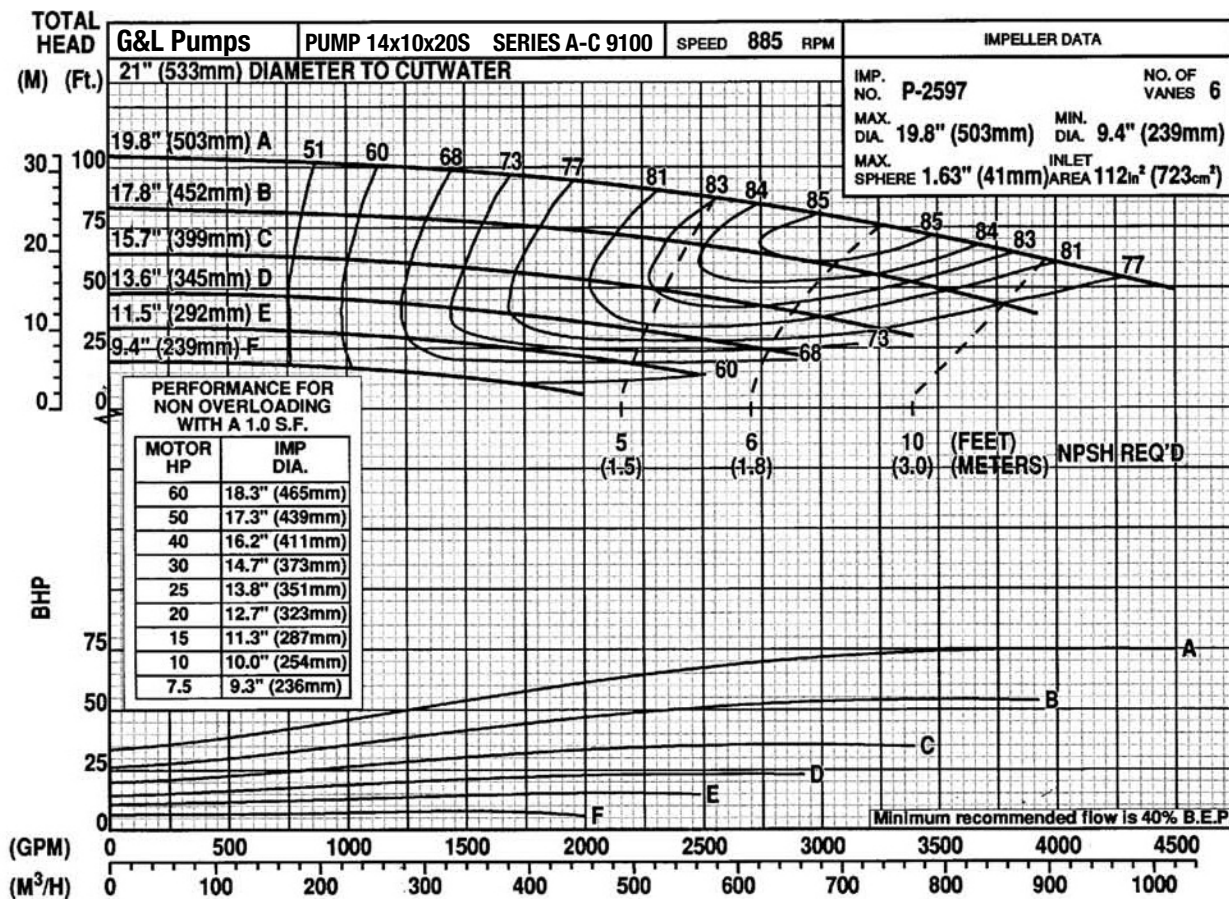


1200 RPM PUMP CURVES

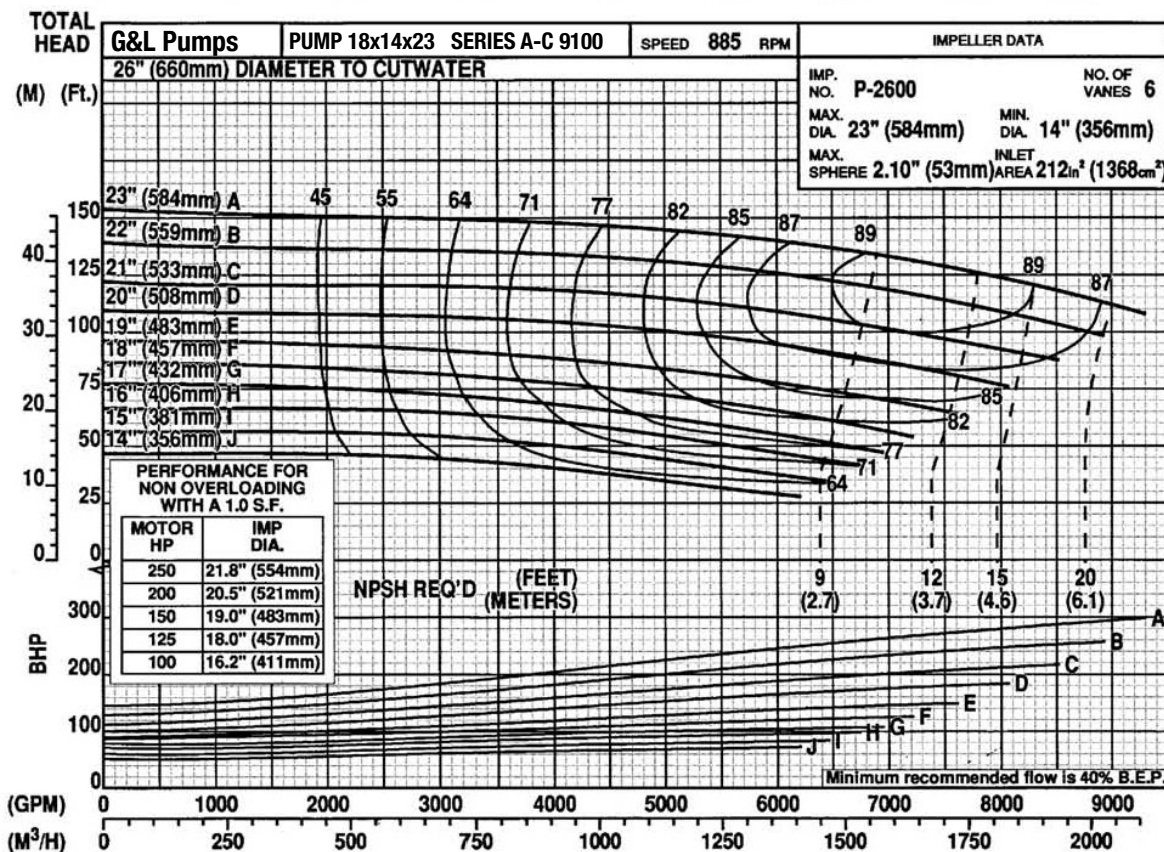
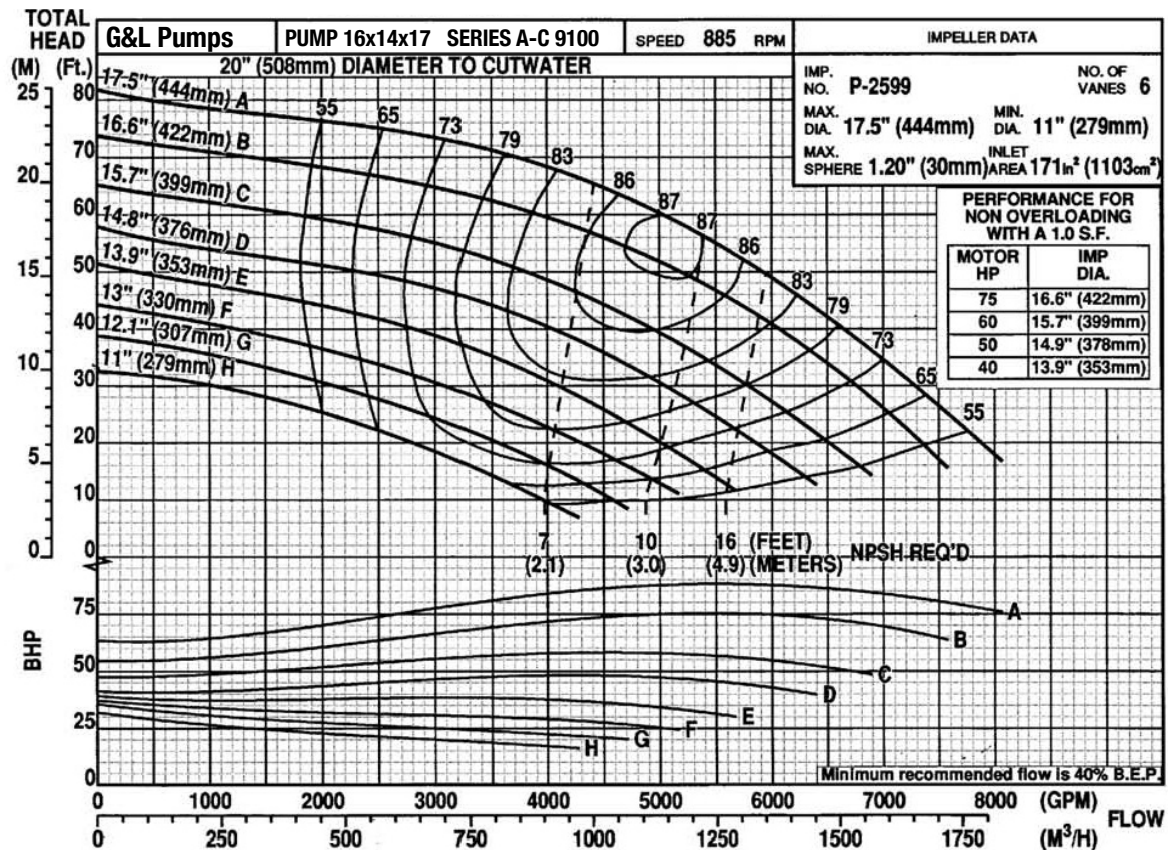


SERIES A-C 9100 - 60 Hz

900 RPM PUMP CURVES



900 RPM PUMP CURVES



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