

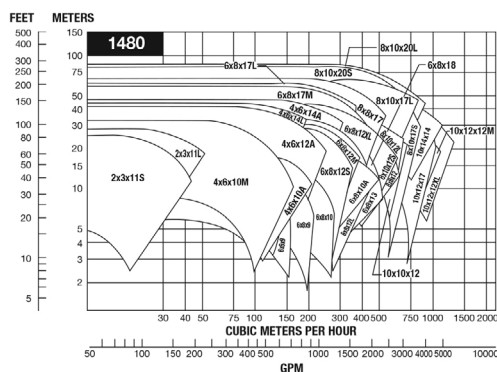
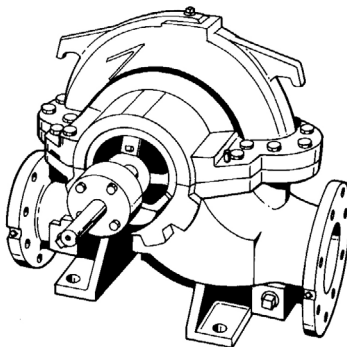


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USEFUL PUMP FORMULAS

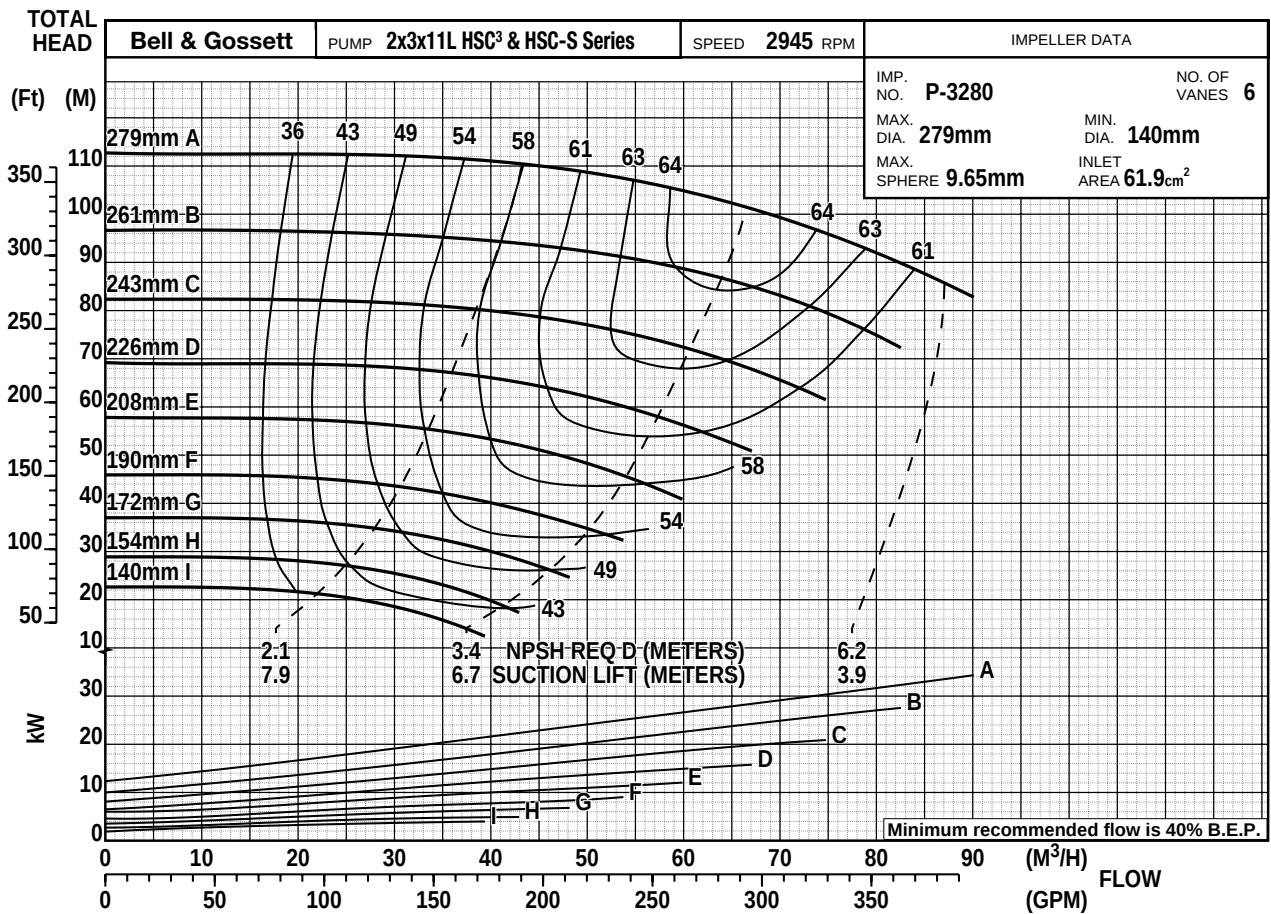
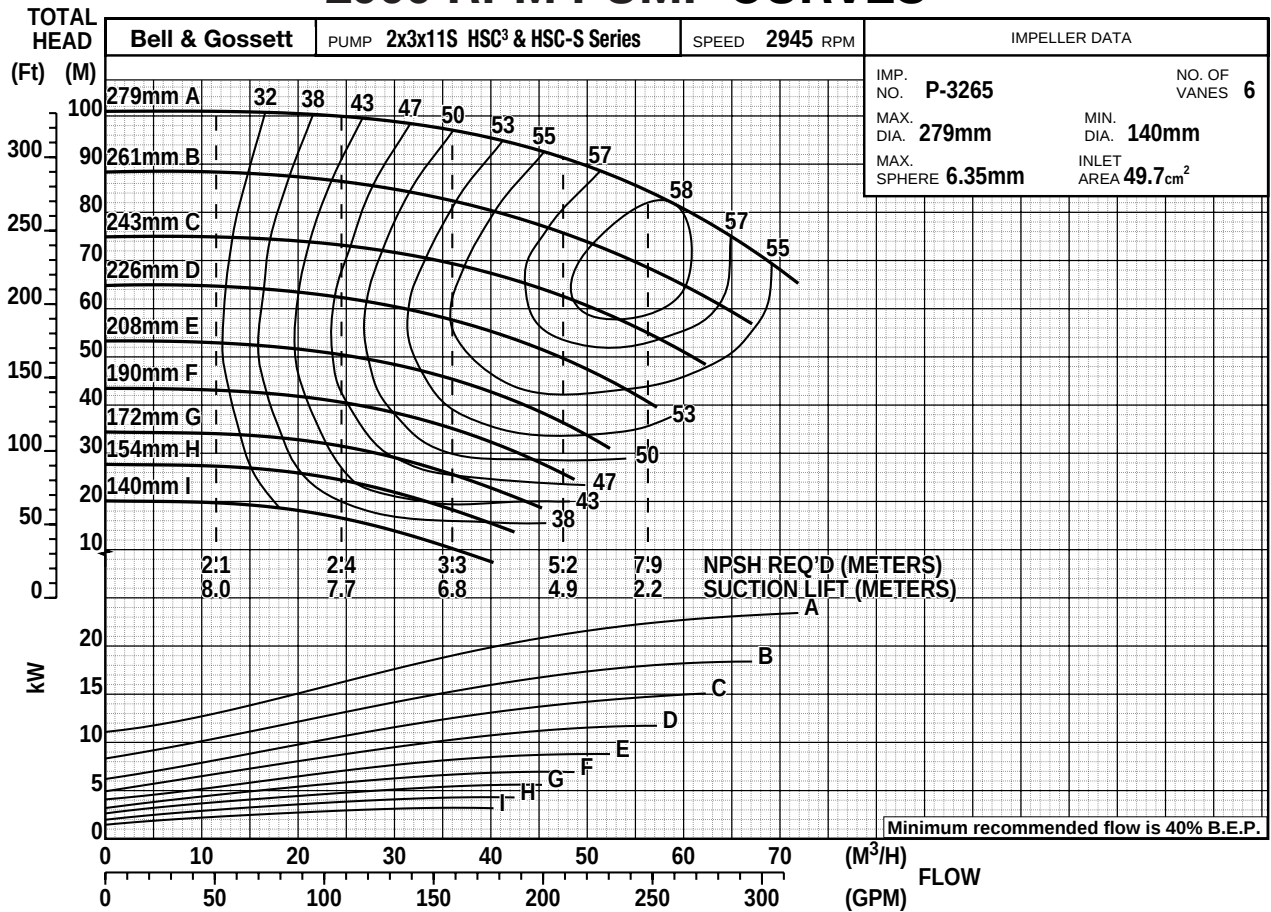
$$\begin{aligned}
 \text{Pressure (PSI)} &= \frac{\text{Head (Feet)} \times \text{Specific Gravity}}{2.31} \\
 \text{Head (Feet)} &= \frac{\text{Pressure (PSI)} \times 2.31}{\text{Specific Gravity}} \\
 \text{Vacuum (Inches of Mercury)} &= \frac{\text{Dynamic Suction Lift (Feet)} \times .883}{\text{Specific Gravity}} \\
 \text{Horsepower (Brake)} &= \frac{\text{GPM} \times \text{Head (Feet)} \times \text{Specific Gravity}}{3960 \times \text{Pump Efficiency}} \\
 \text{Horsepower (Water)} &= \frac{\text{GPM} \times \text{Head (Feet)} \times \text{Specific Gravity}}{3960} \\
 \text{Efficiency (Pump)} &= \frac{\text{Horsepower (Water)}}{\text{Horsepower (Brake)}} \times 100 \text{ Per Cent} \\
 \text{NPSH (Available)} &= \text{Atmospheric Pressure} - \text{Vapor Pressure} + \text{Total Suction Head}
 \end{aligned}$$

Affinity Laws: Effect of change of speed or impeller diameter on centrifugal pumps.

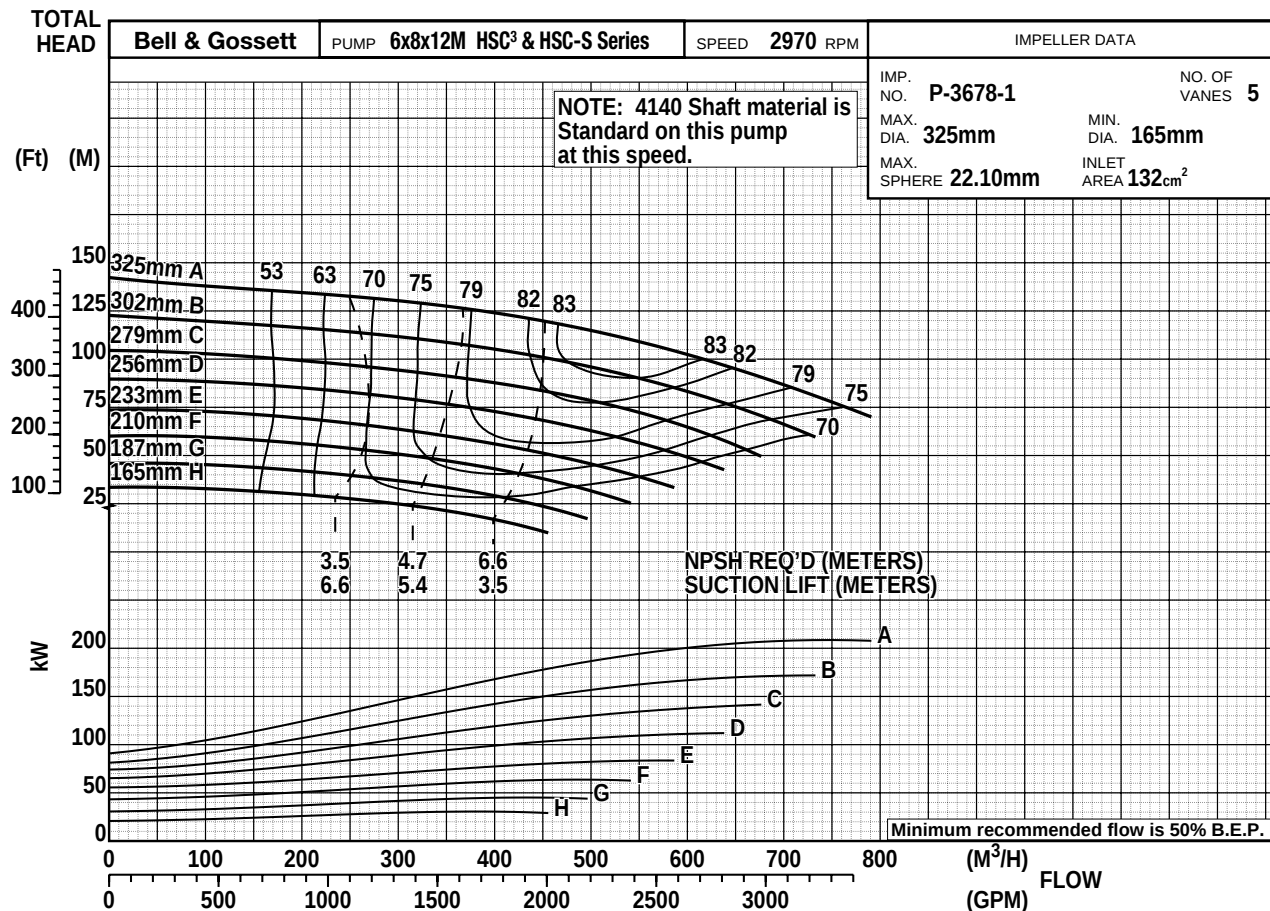
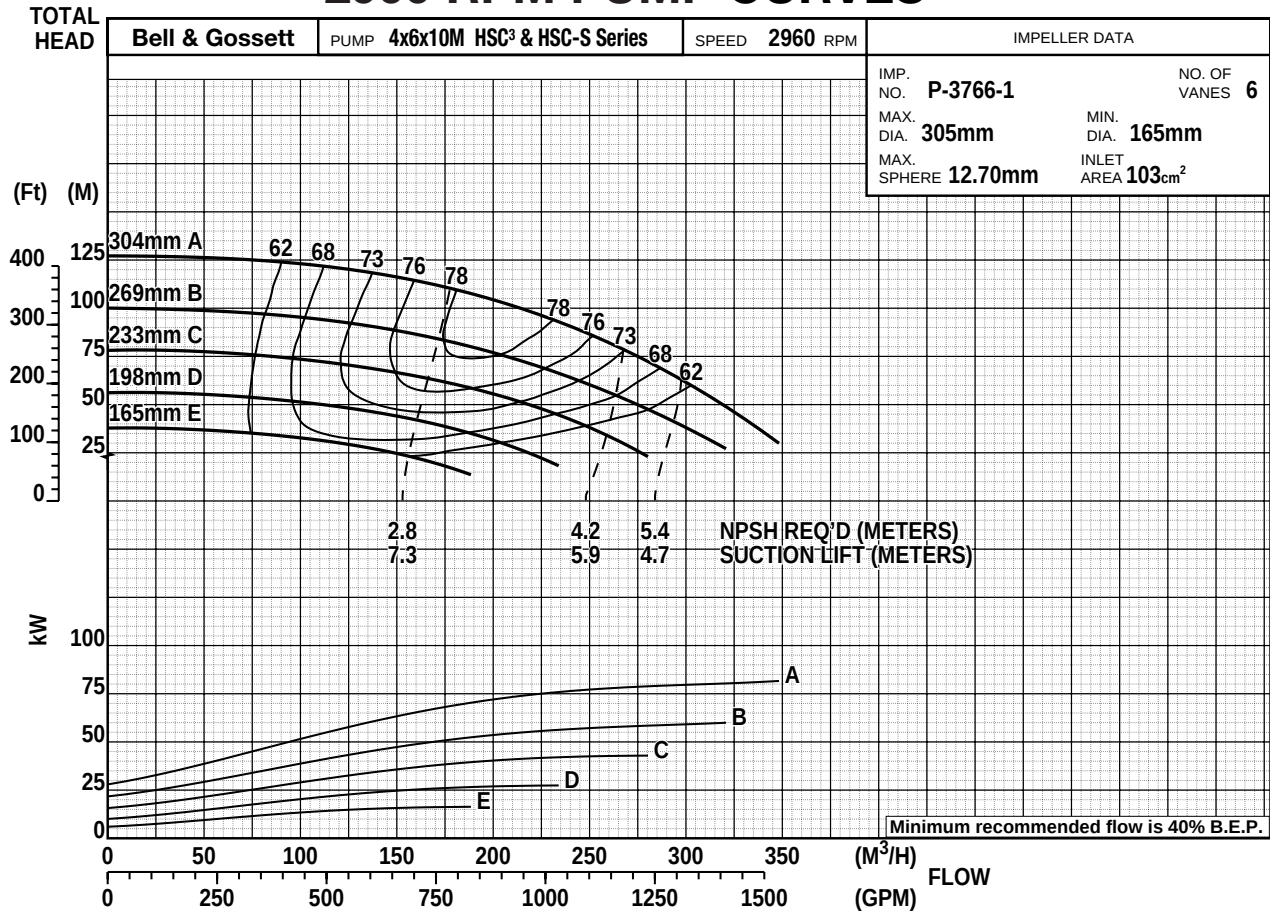
	GPM Capacity	Ft. Head	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{RPM_2}{RPM_1} Q_1$	$H_2 = \left(\frac{RPM_2}{RPM_1}\right)^2 H_1$	$P_2 = \left(\frac{RPM_2}{RPM_1}\right)^3 P_1$

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

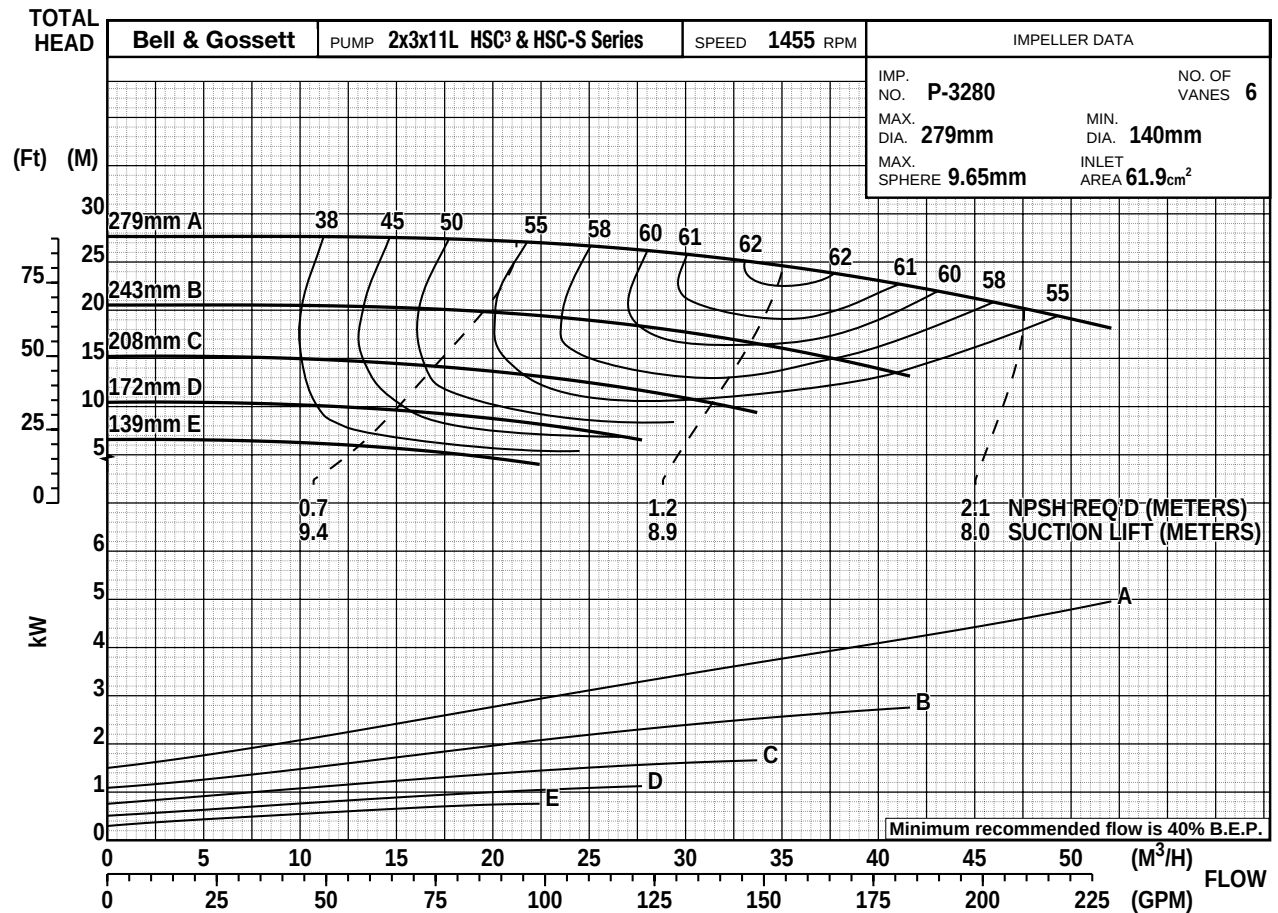
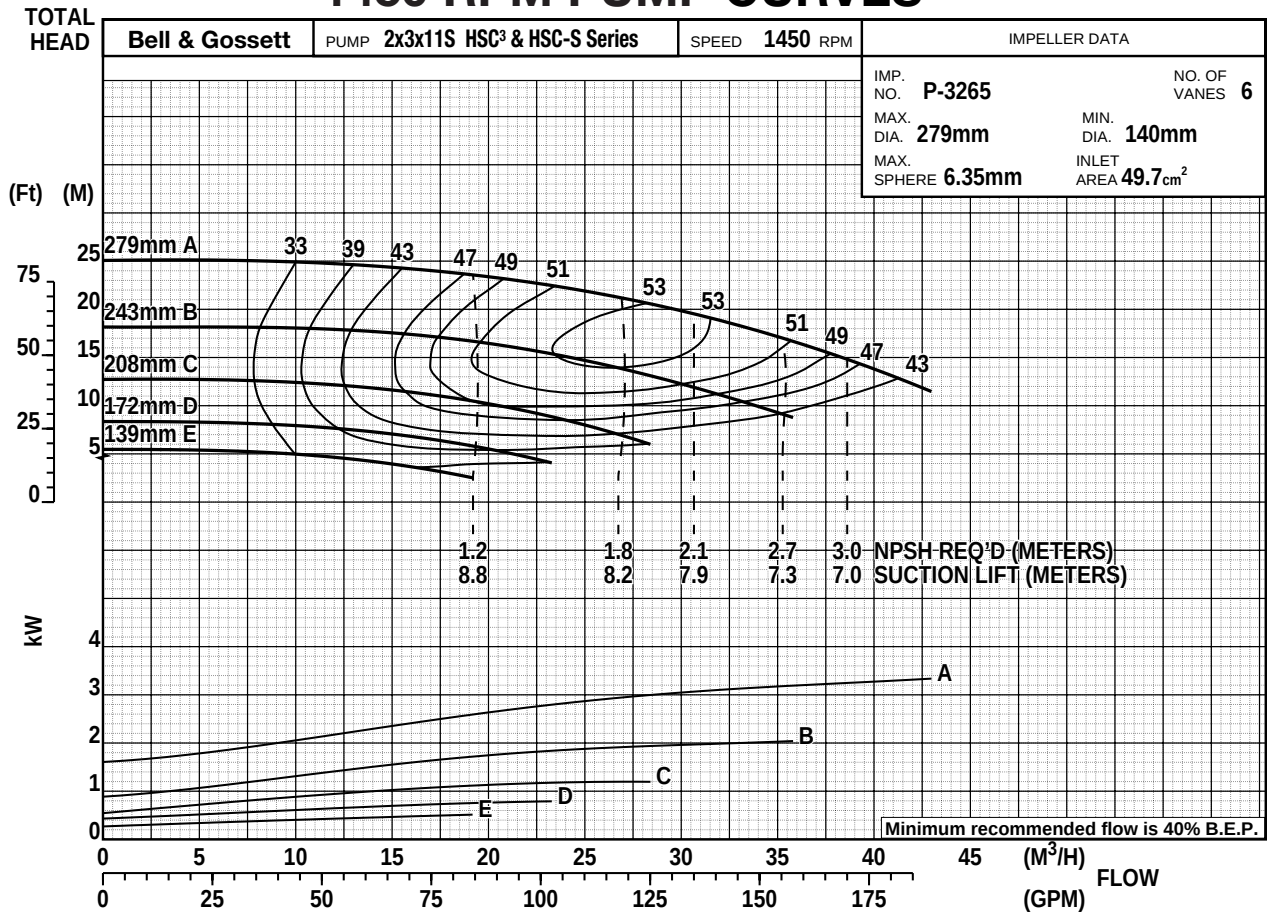
2900 RPM PUMP CURVES



2900 RPM PUMP CURVES



1450 RPM PUMP CURVES

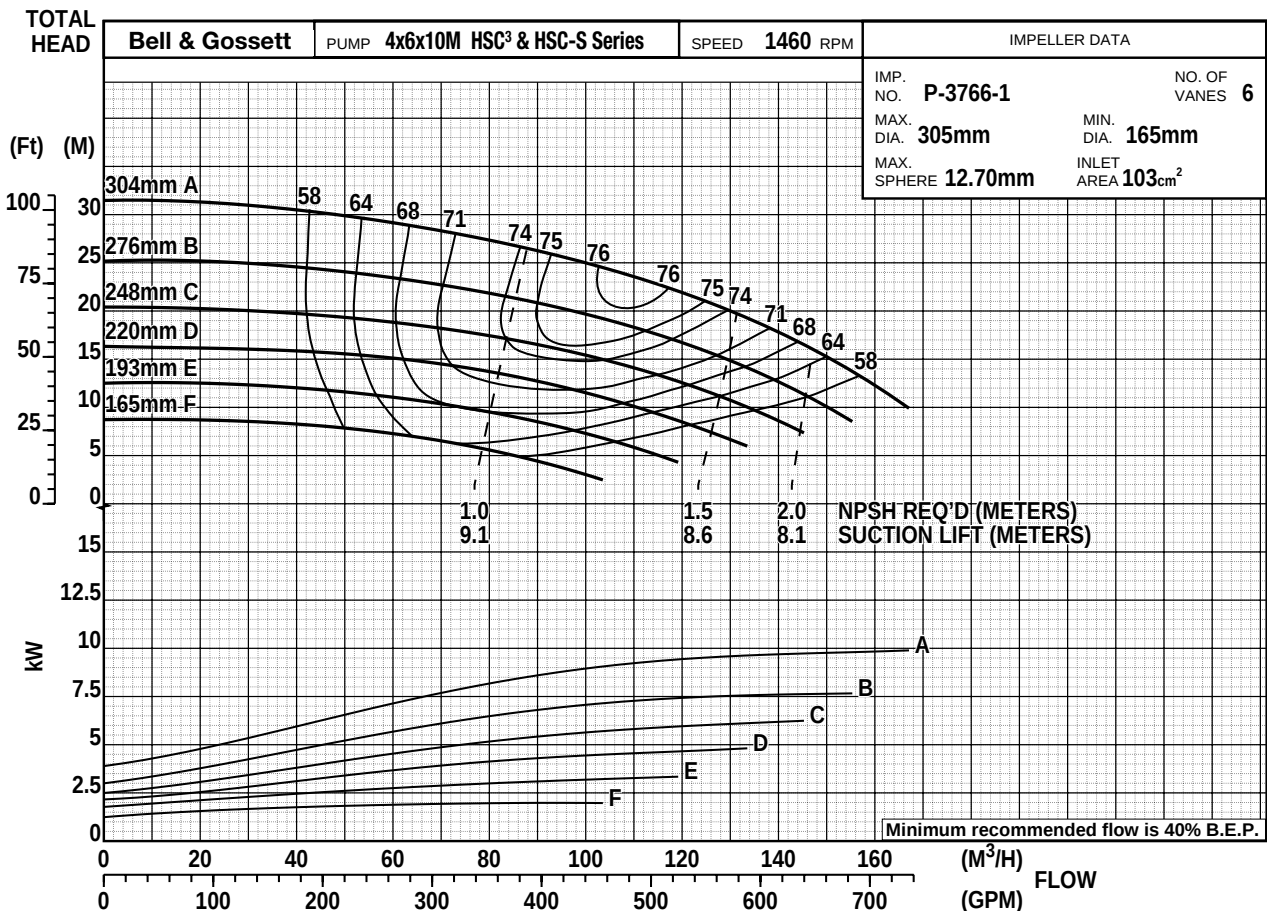
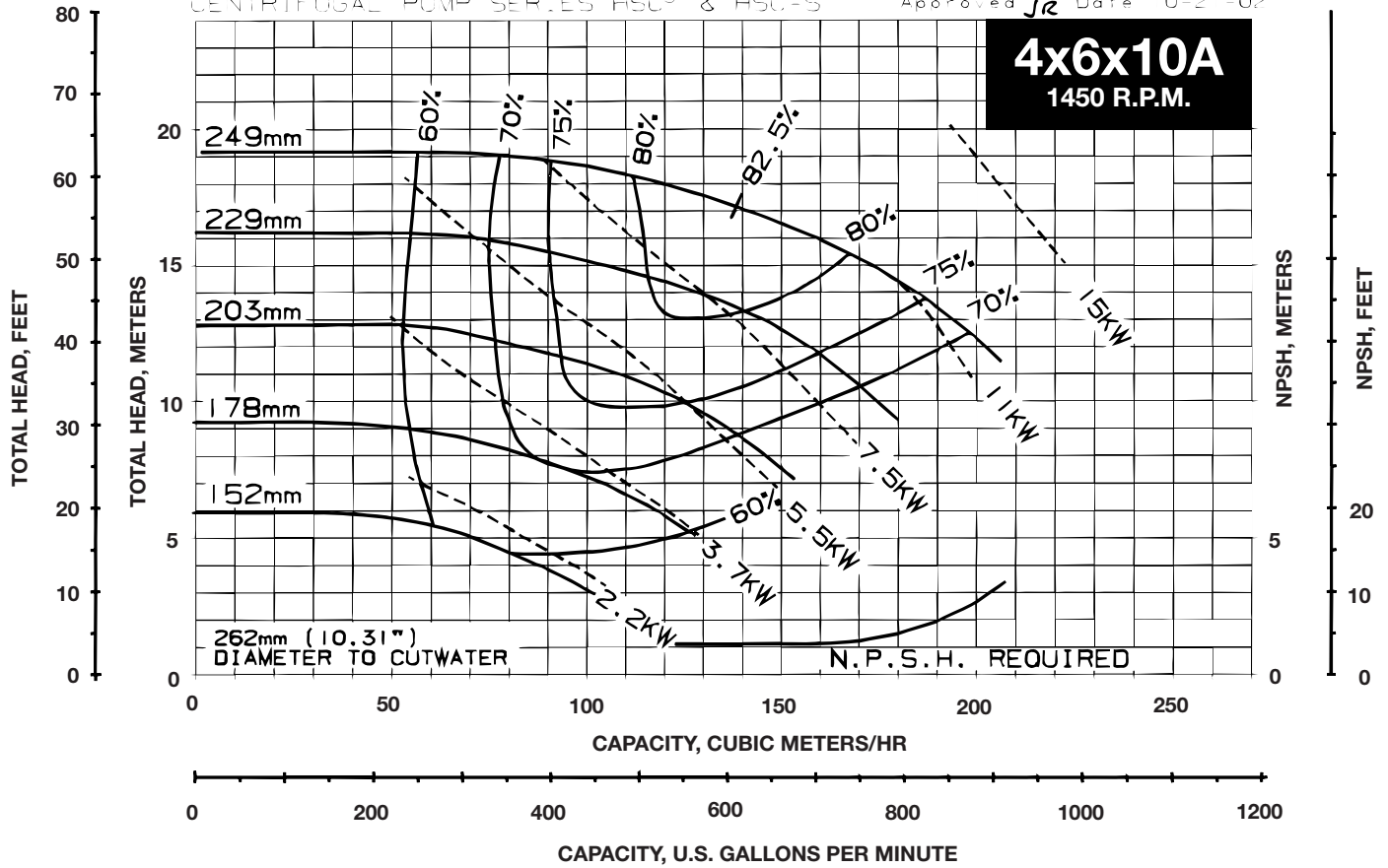


1450 RPM PUMP CURVES

PERFORMANCE CHARACTERISTIC CHART

CENTRIFUGAL PUMP SERIES HSC³ & HSC-S

Approved *JR* Date 0-2-02



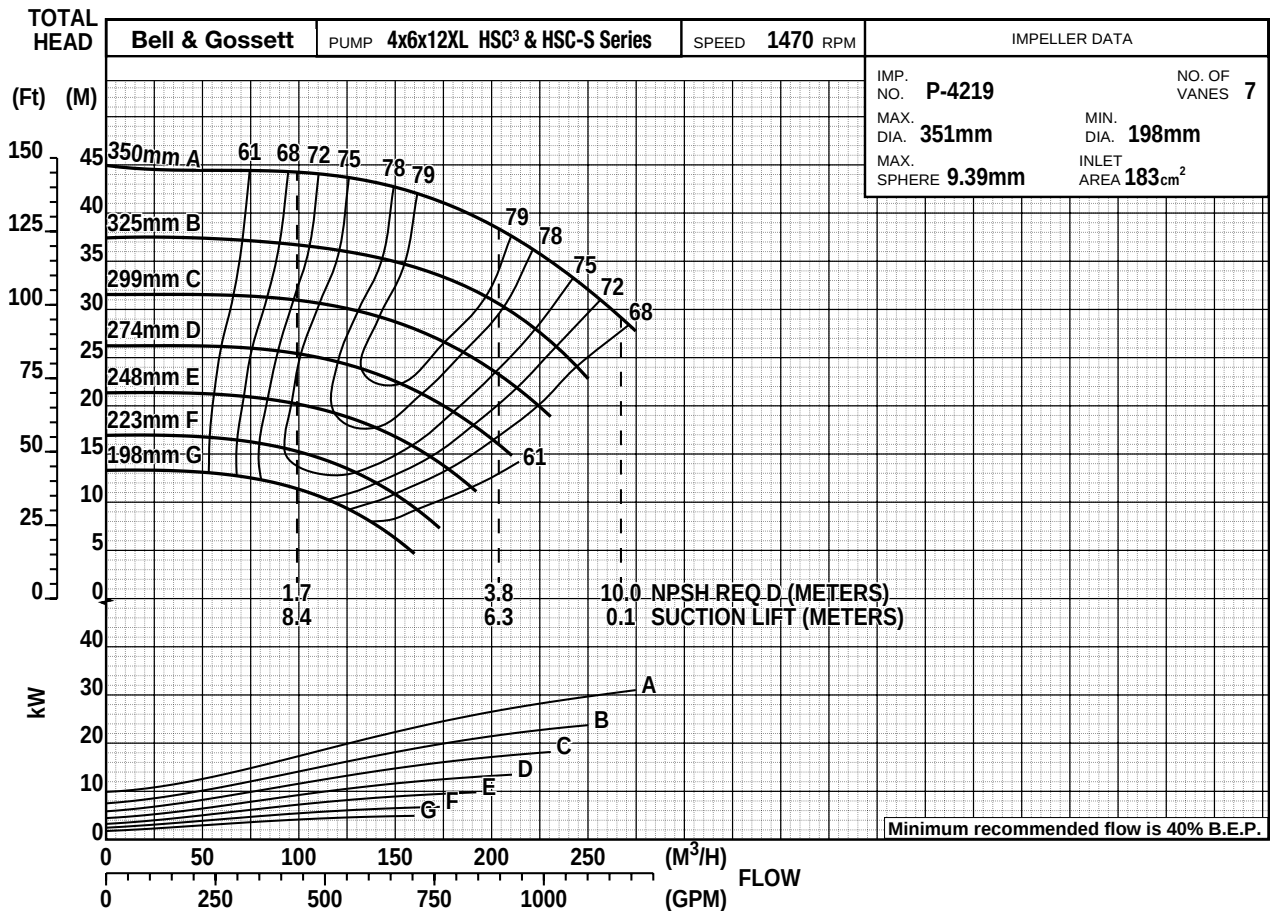
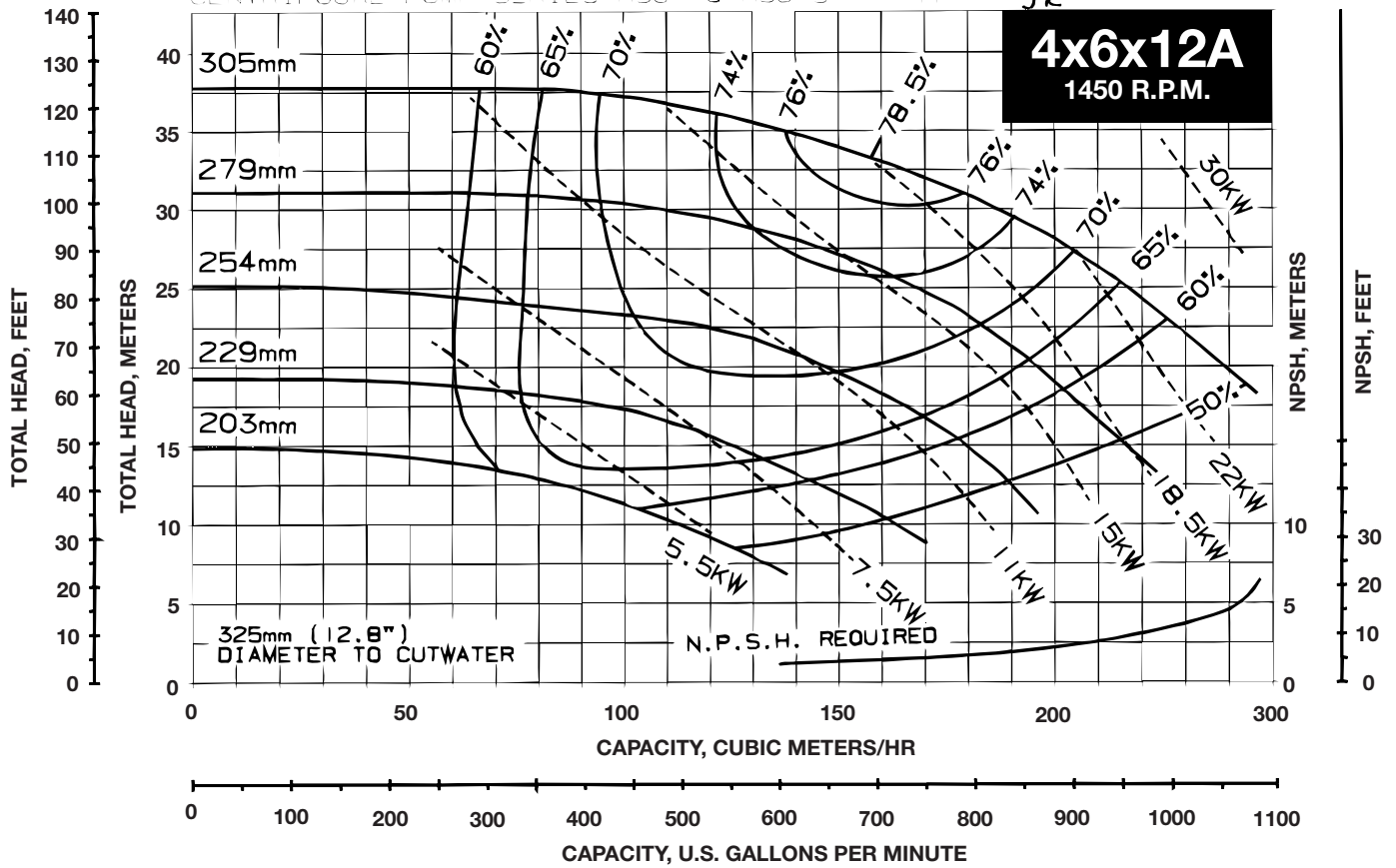
1450 RPM PUMP CURVES

PERFORMANCE CHARACTERISTIC CHART

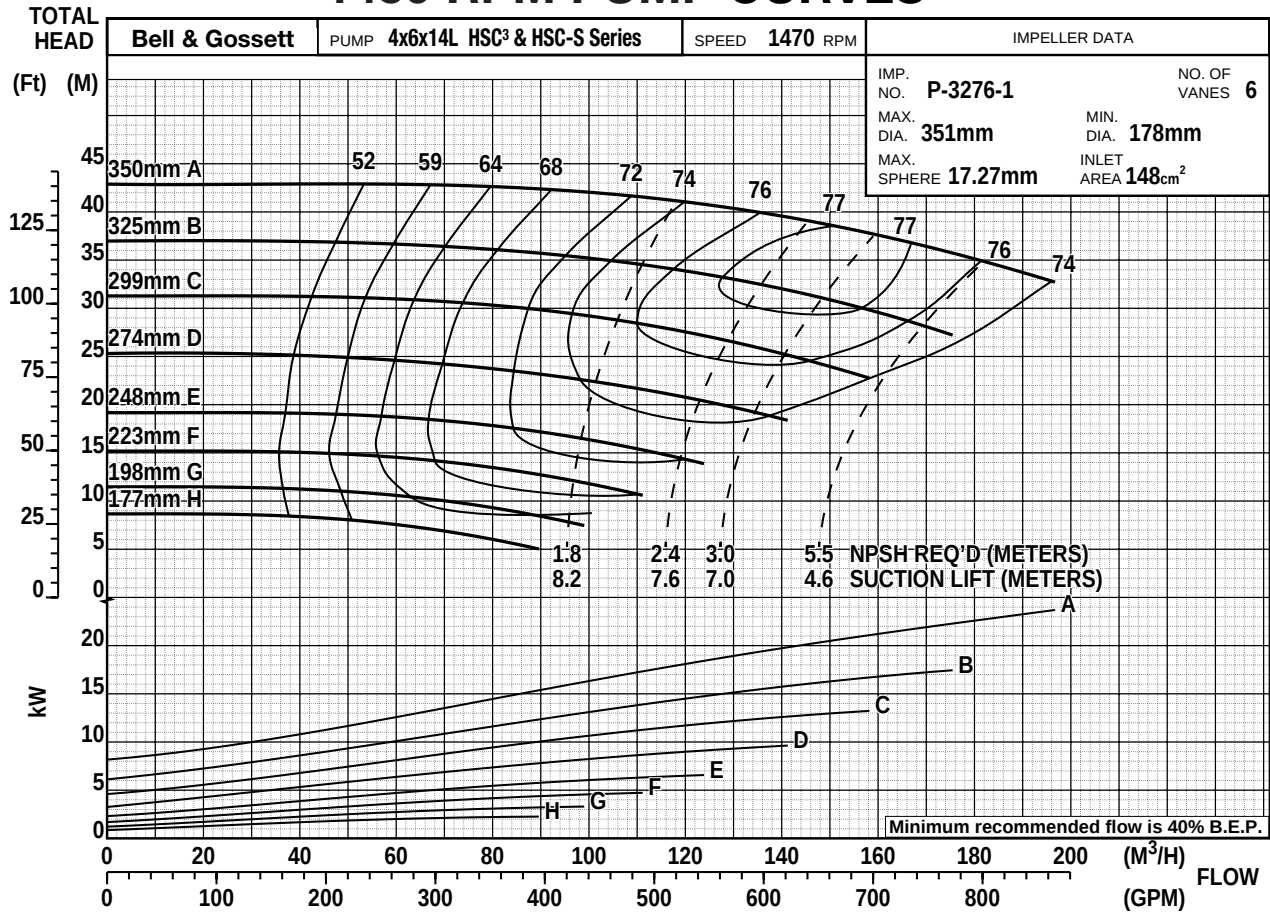
CENTRIFUGAL PUMP SERIES HSC³ & HSC-S

Approved *JL* Date 0-2-02

4x6x12A
1450 R.P.M.



1450 RPM PUMP CURVES

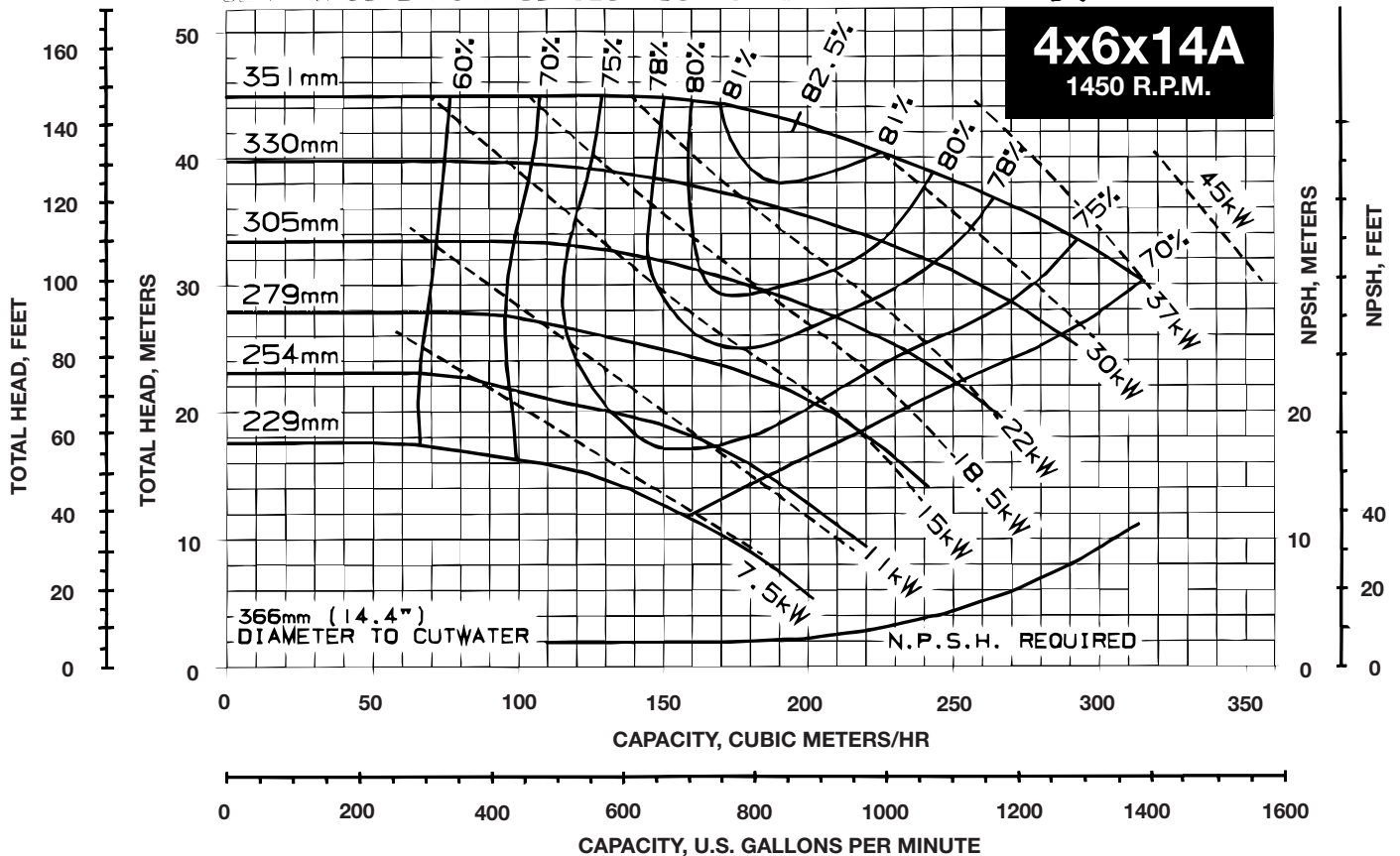


PERFORMANCE CHARACTERISTIC CHART

CENTRIFUGAL PUMP SERIES HSC³ & HSC-S

Approved **JR** Date 0-2-02

4x6x14A
 1450 R.P.M.

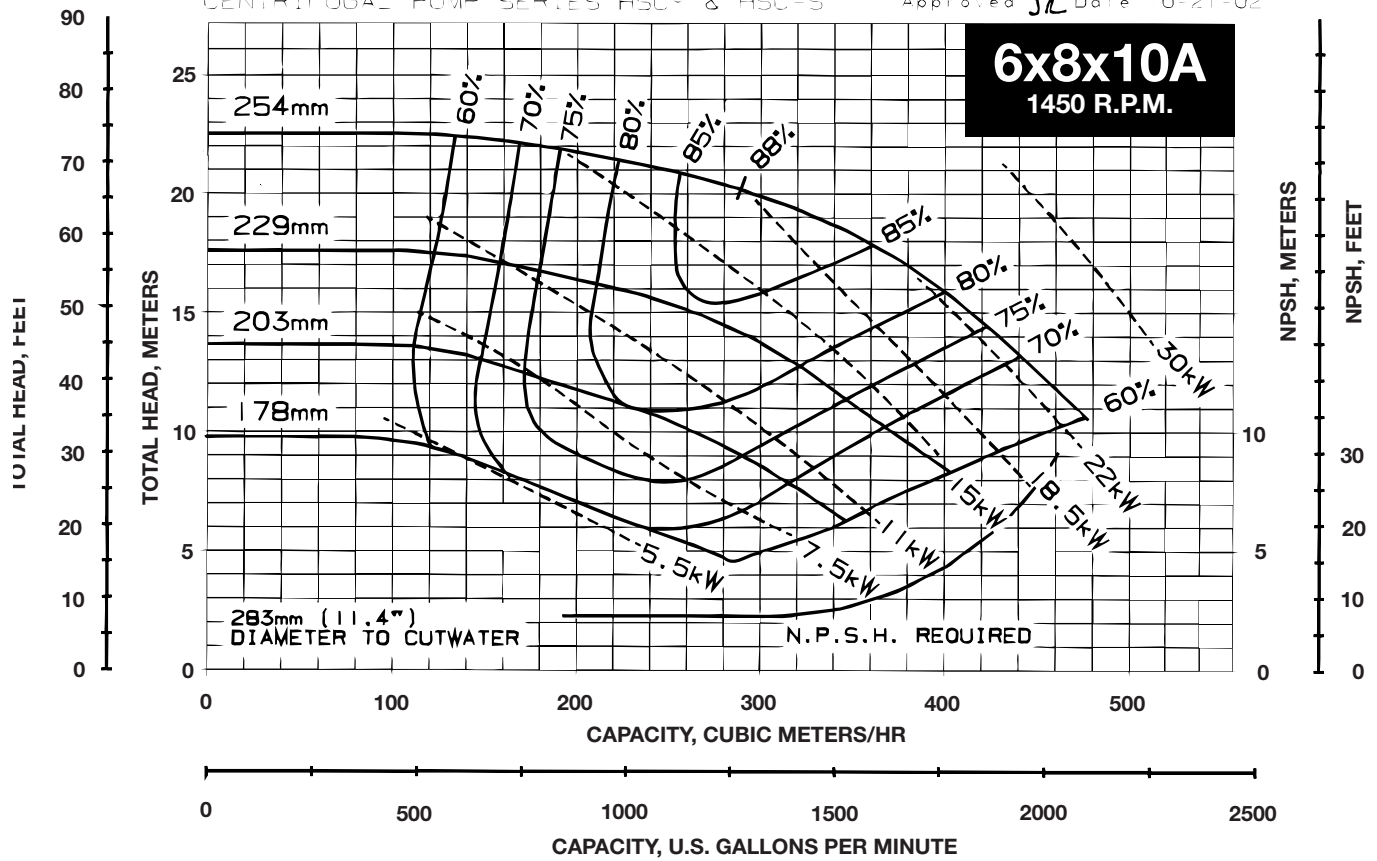


1450 RPM PUMP CURVES

PERFORMANCE CHARACTERISTIC CHART

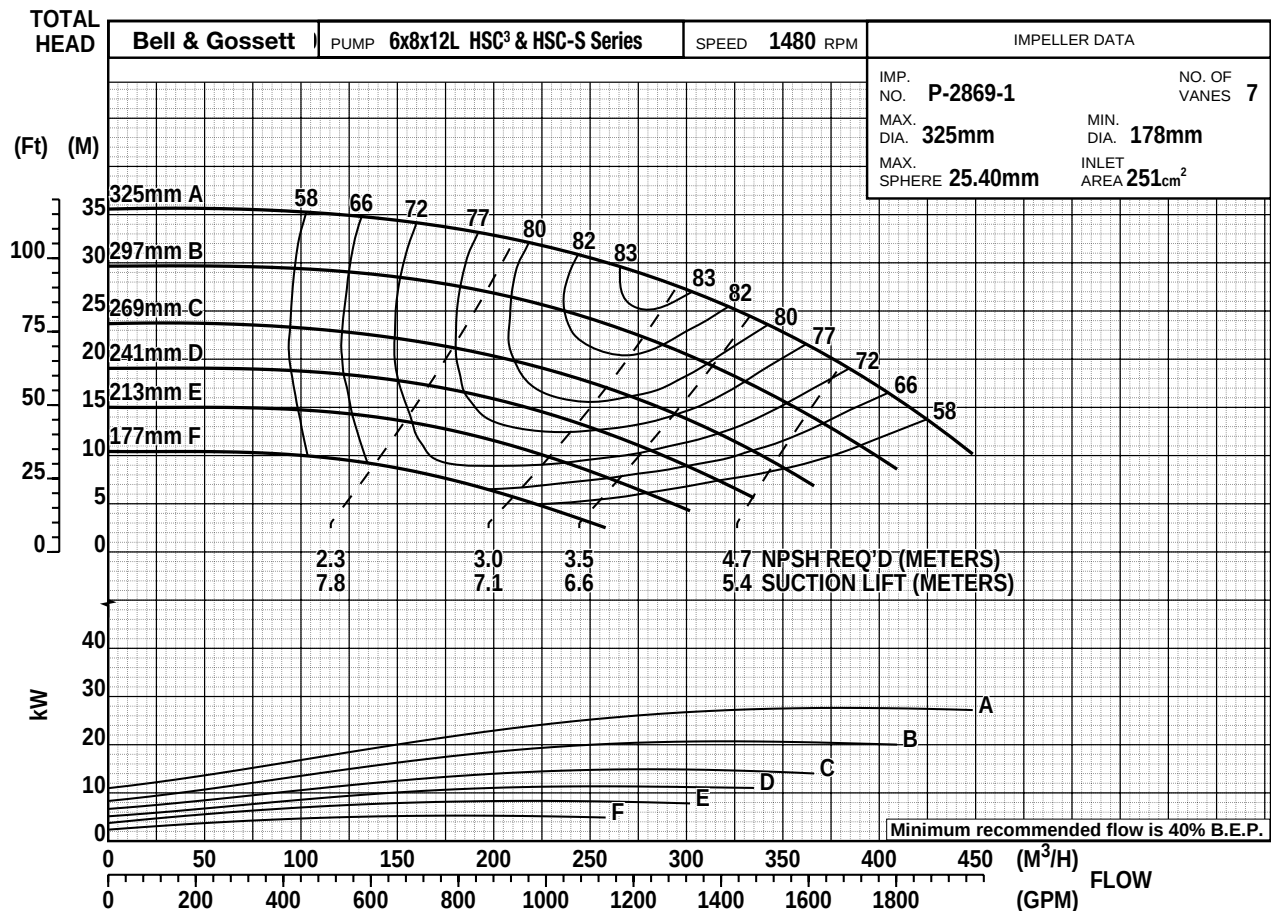
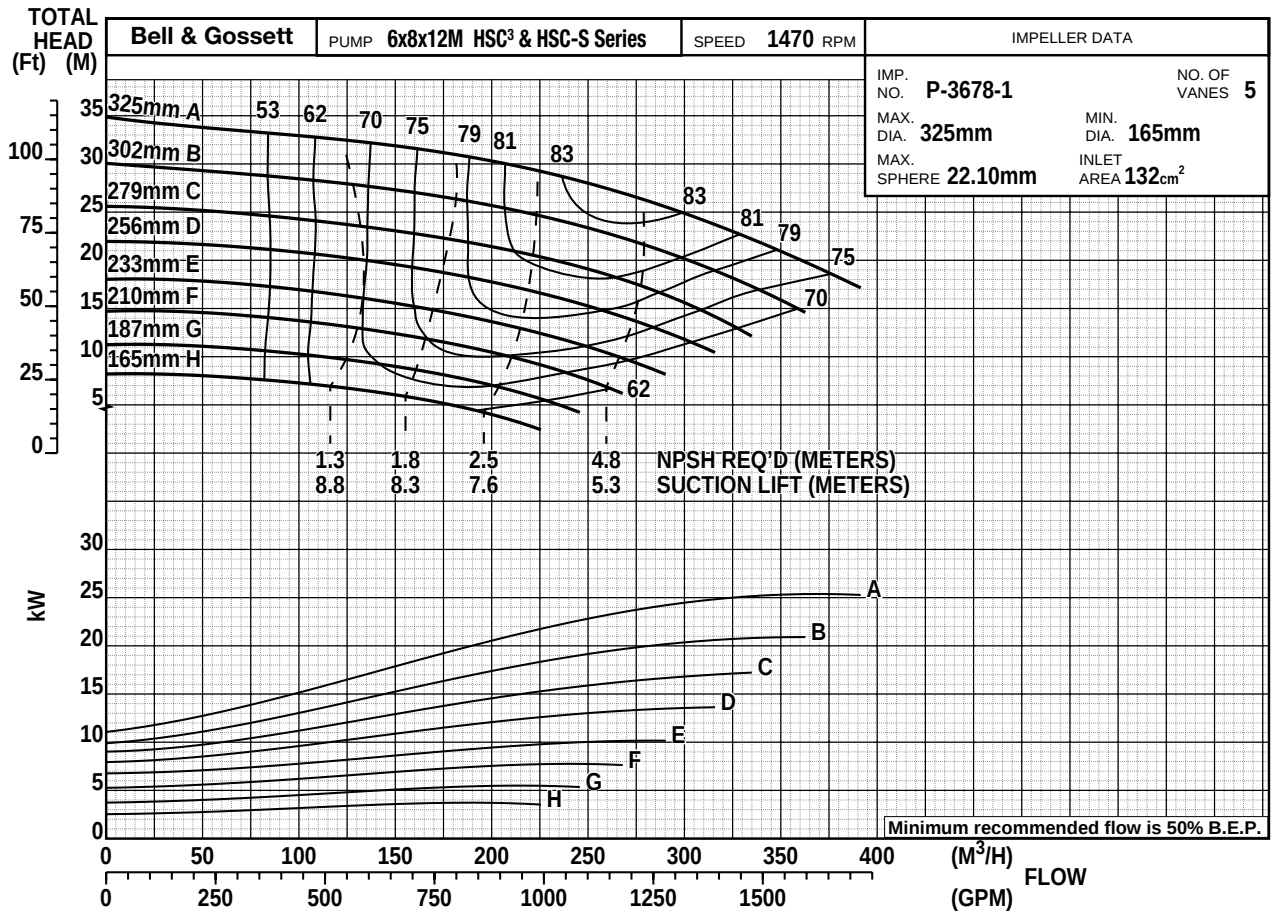
CENTRIFUGAL PUMP SERIES HSC³ & HSC-5

Approved *JL* Date 0-21-02

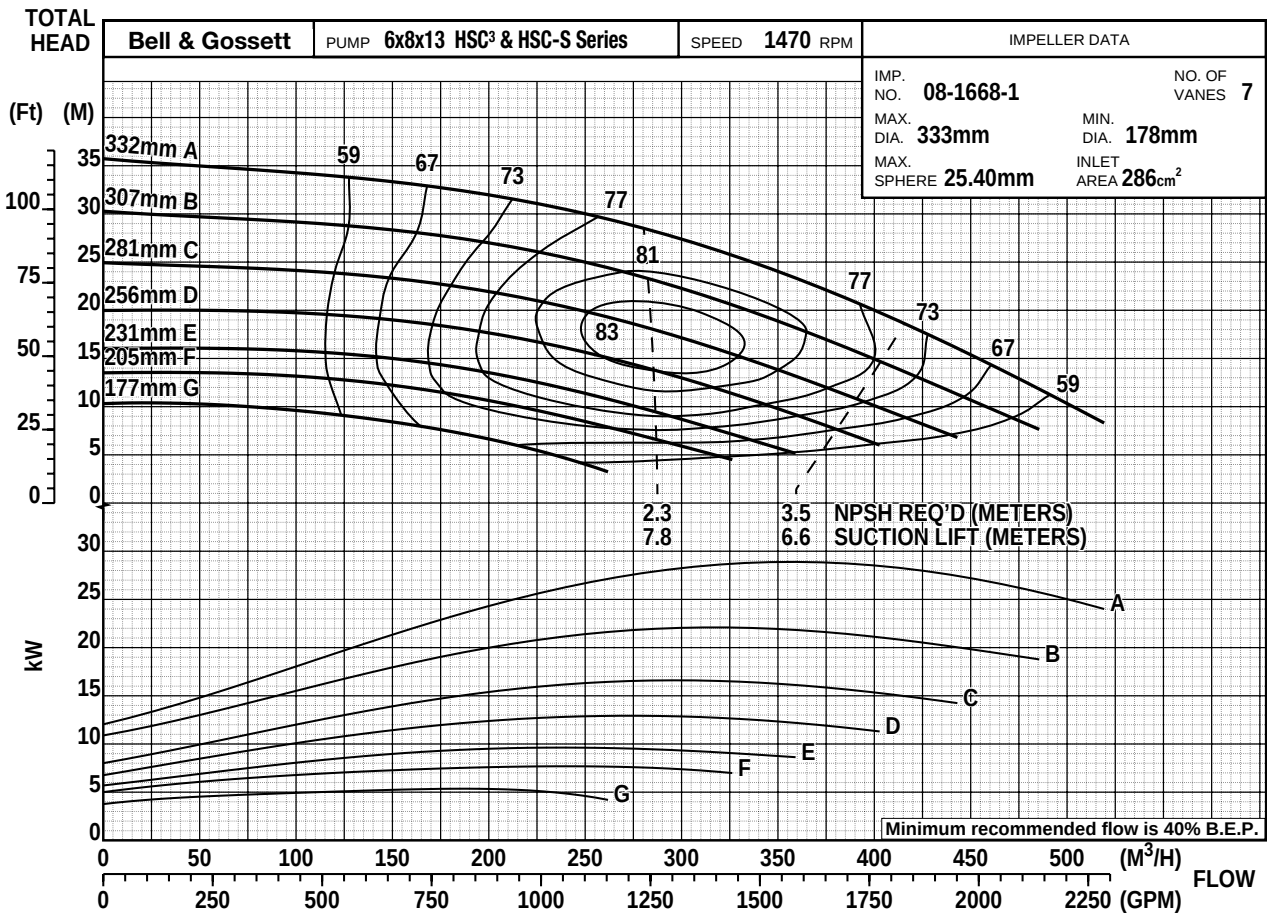
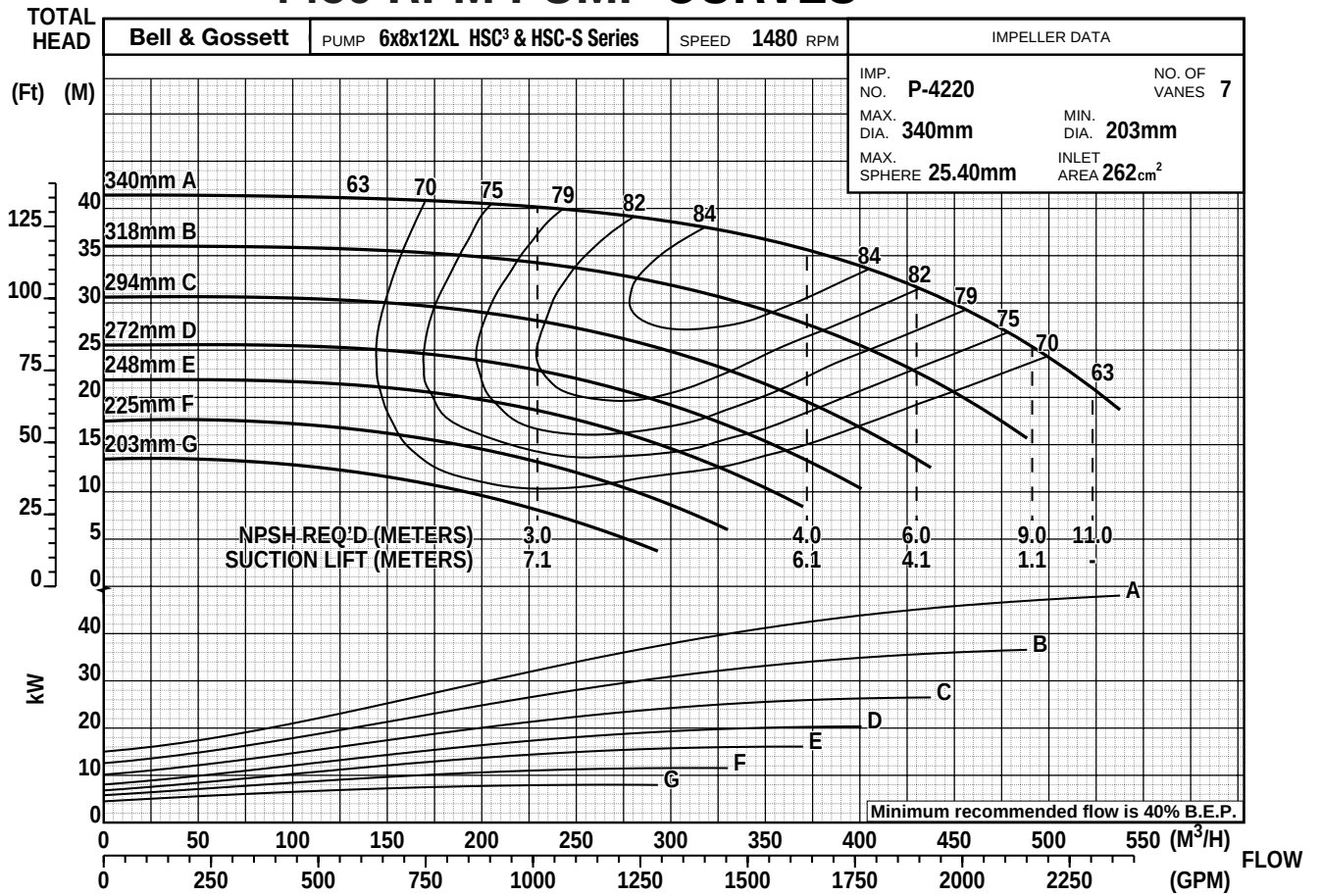


Bell & Gossett

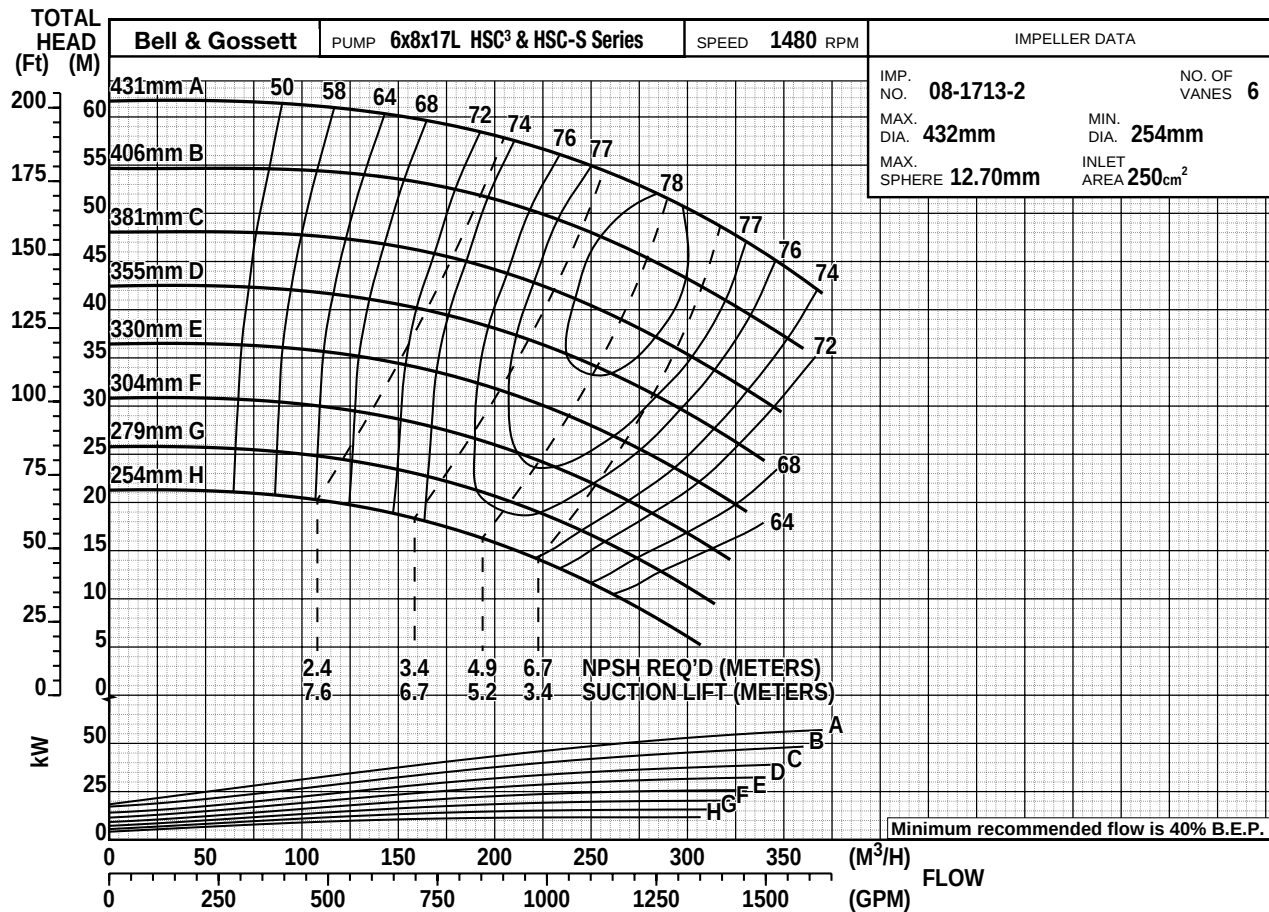
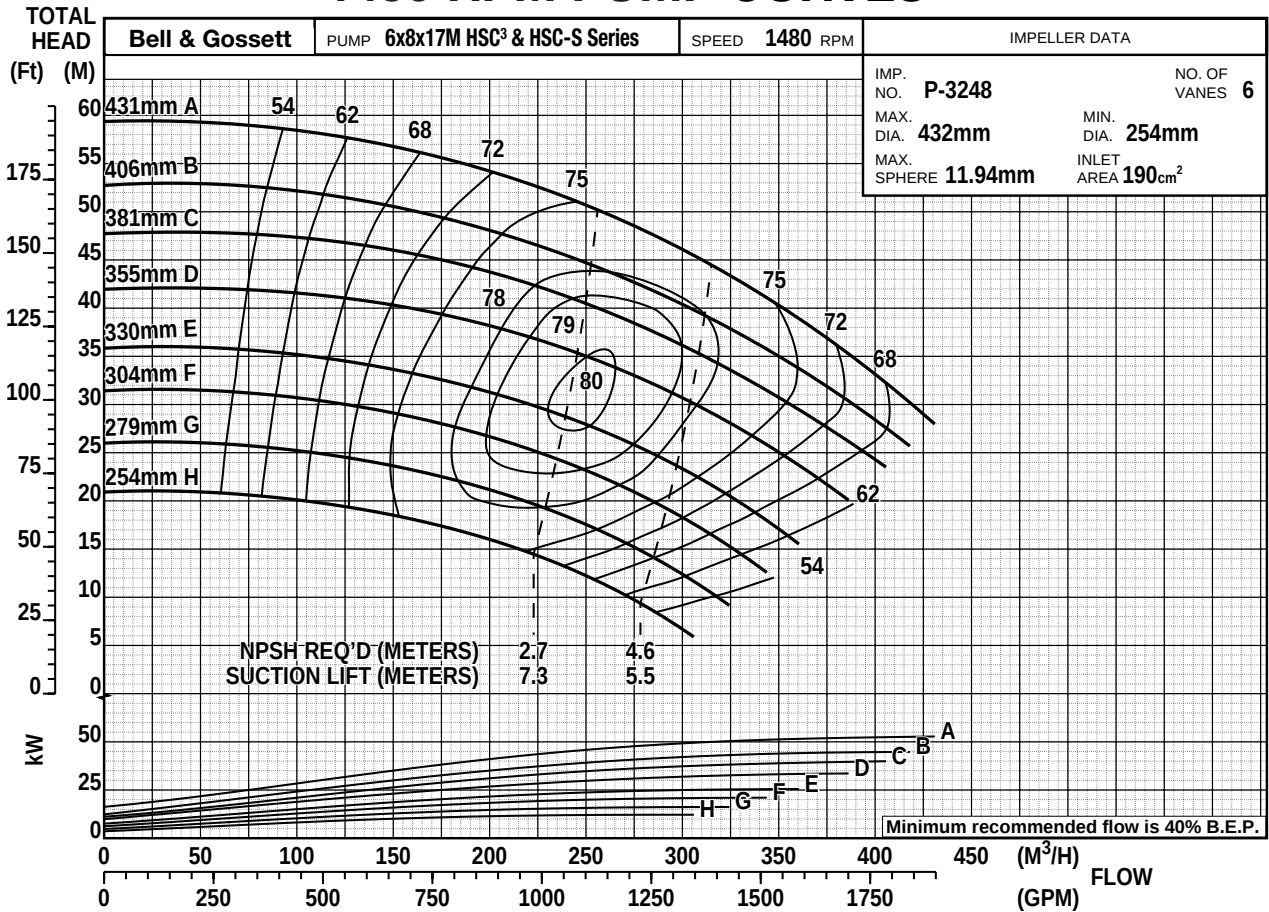
1450 RPM PUMP CURVES



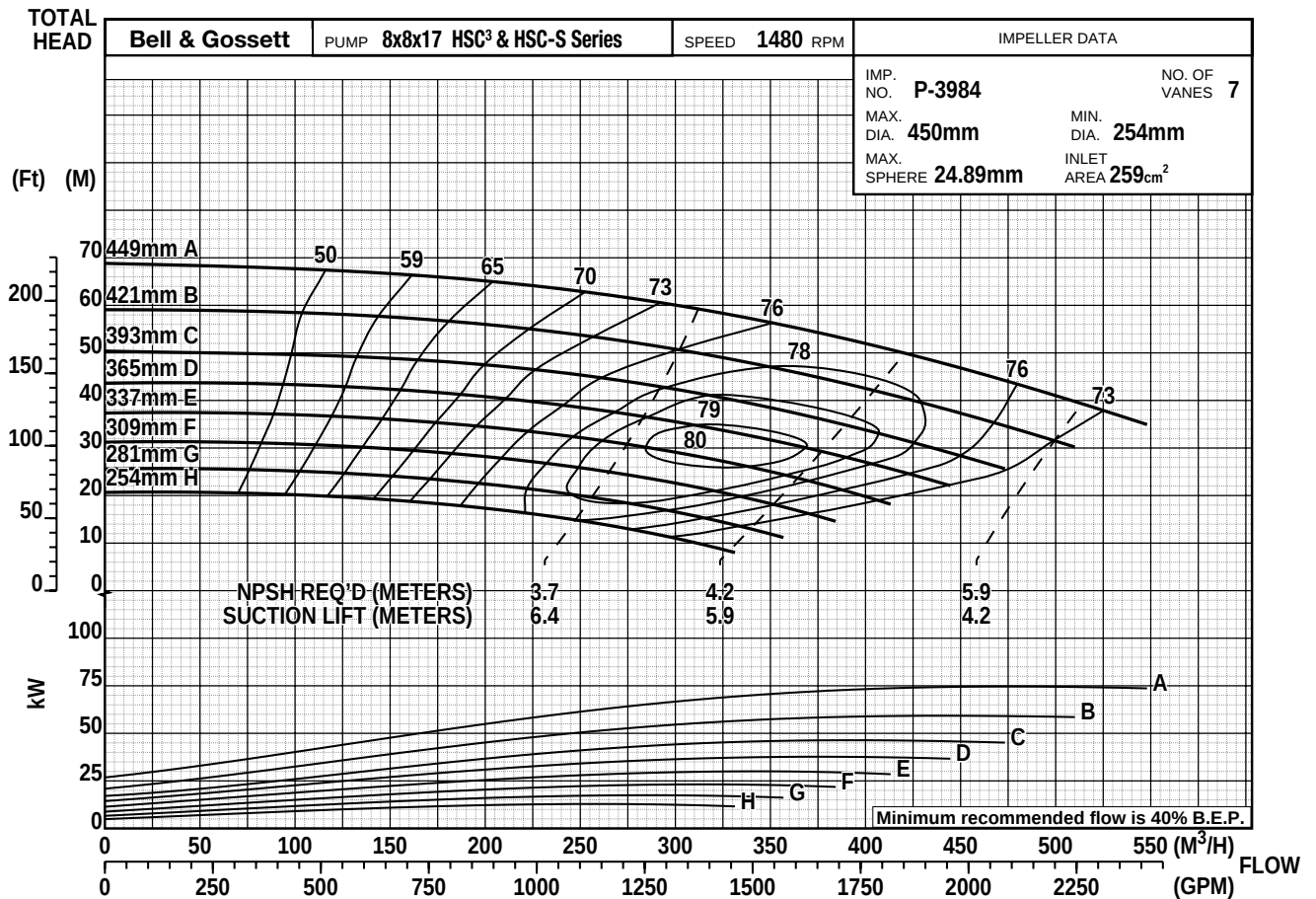
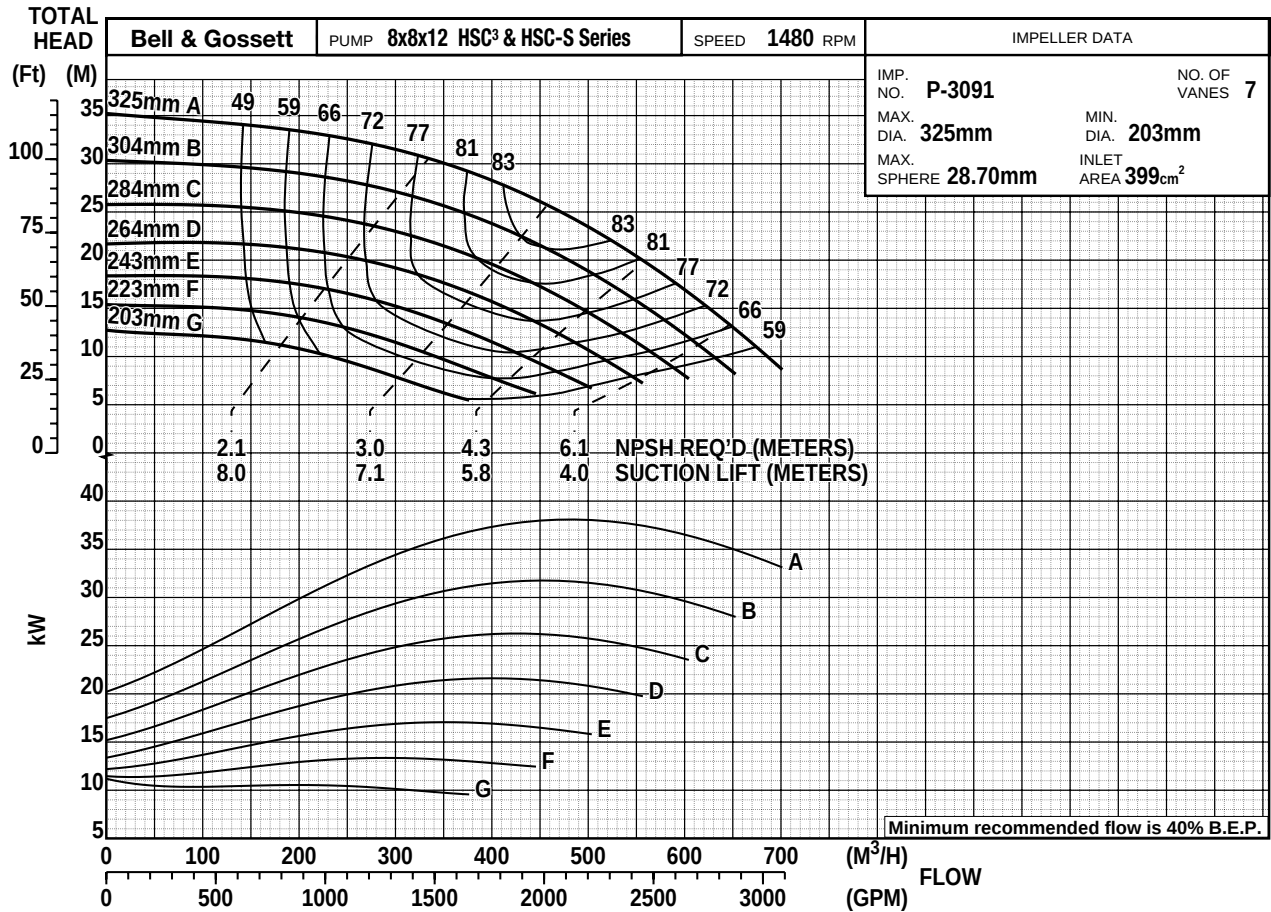
1450 RPM PUMP CURVES



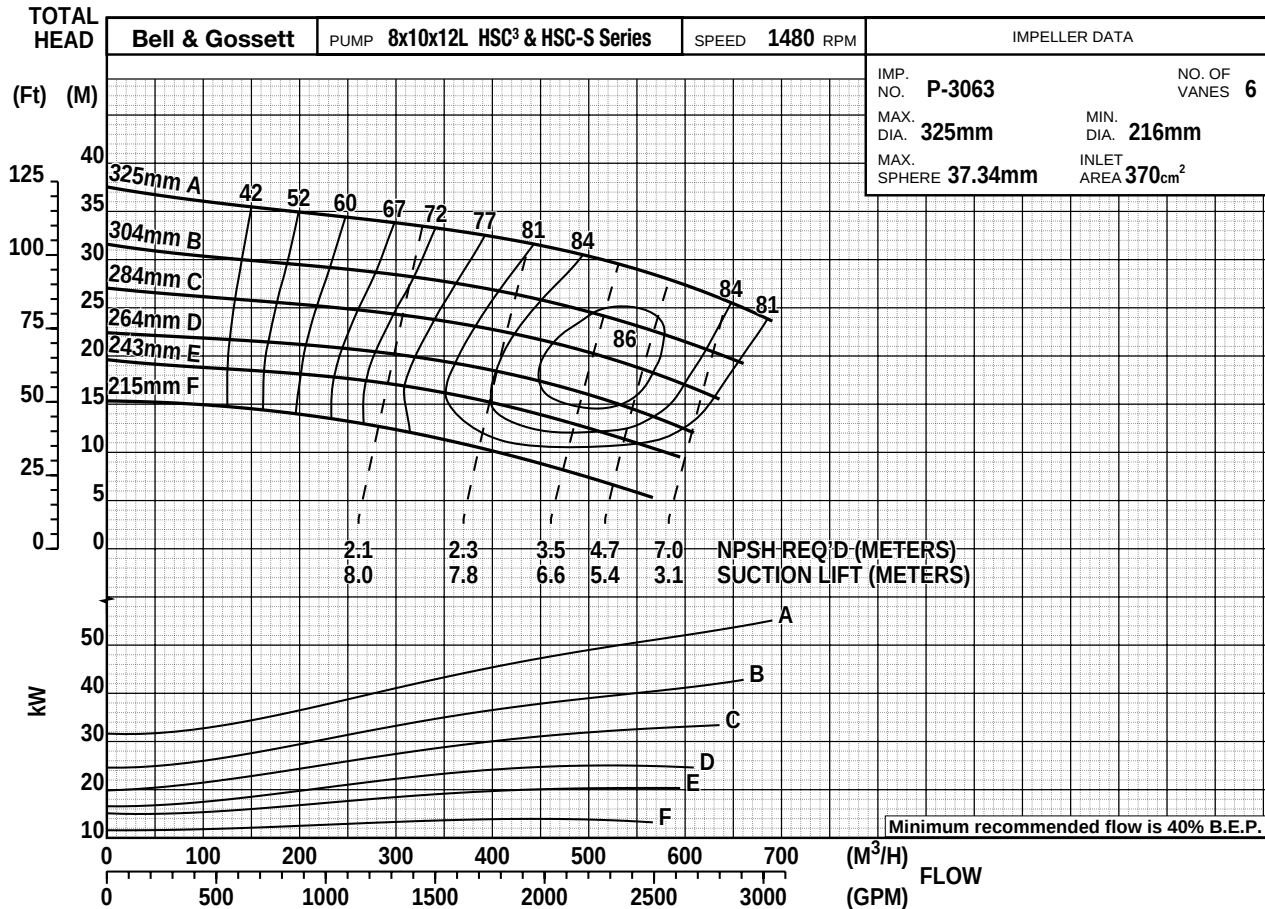
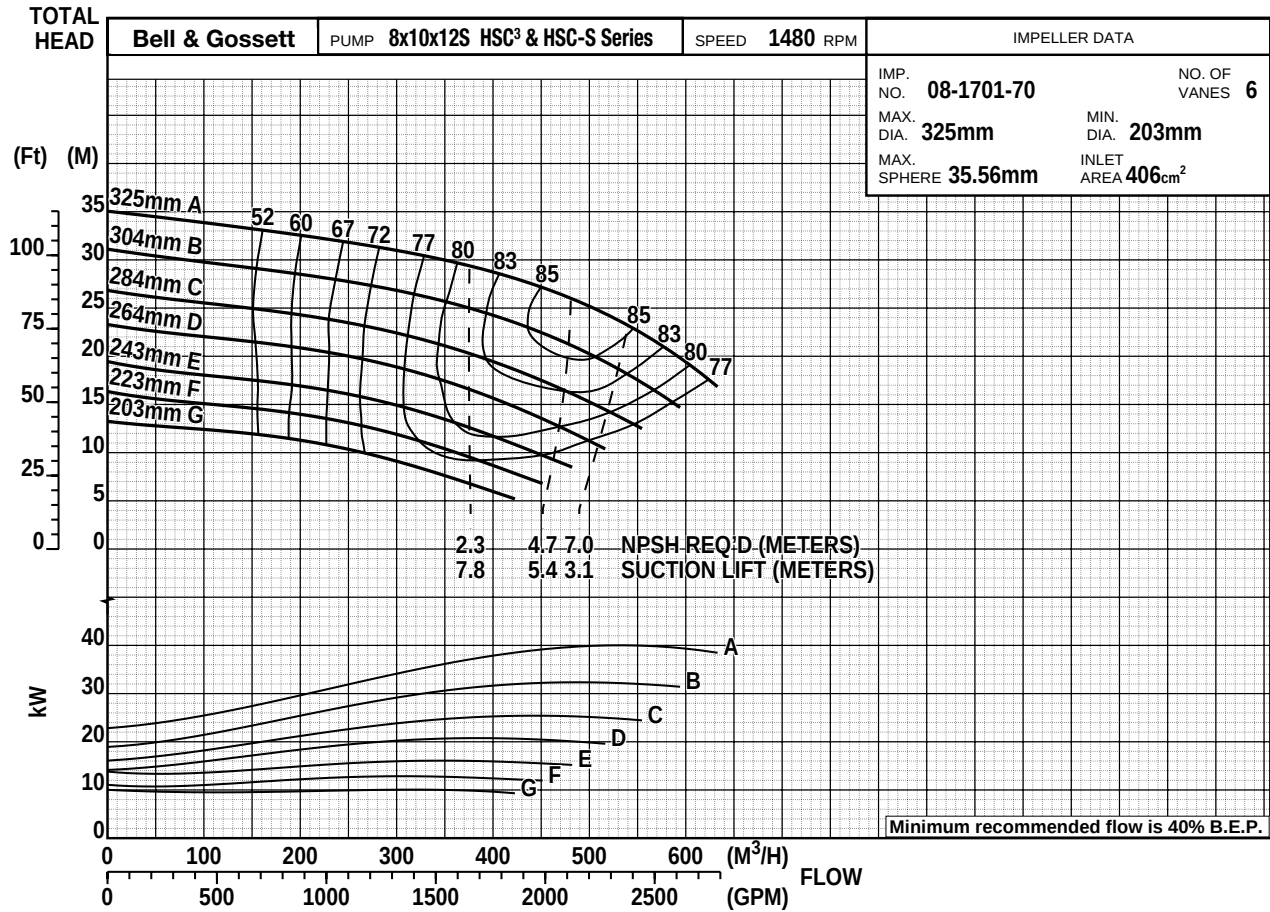
1450 RPM PUMP CURVES



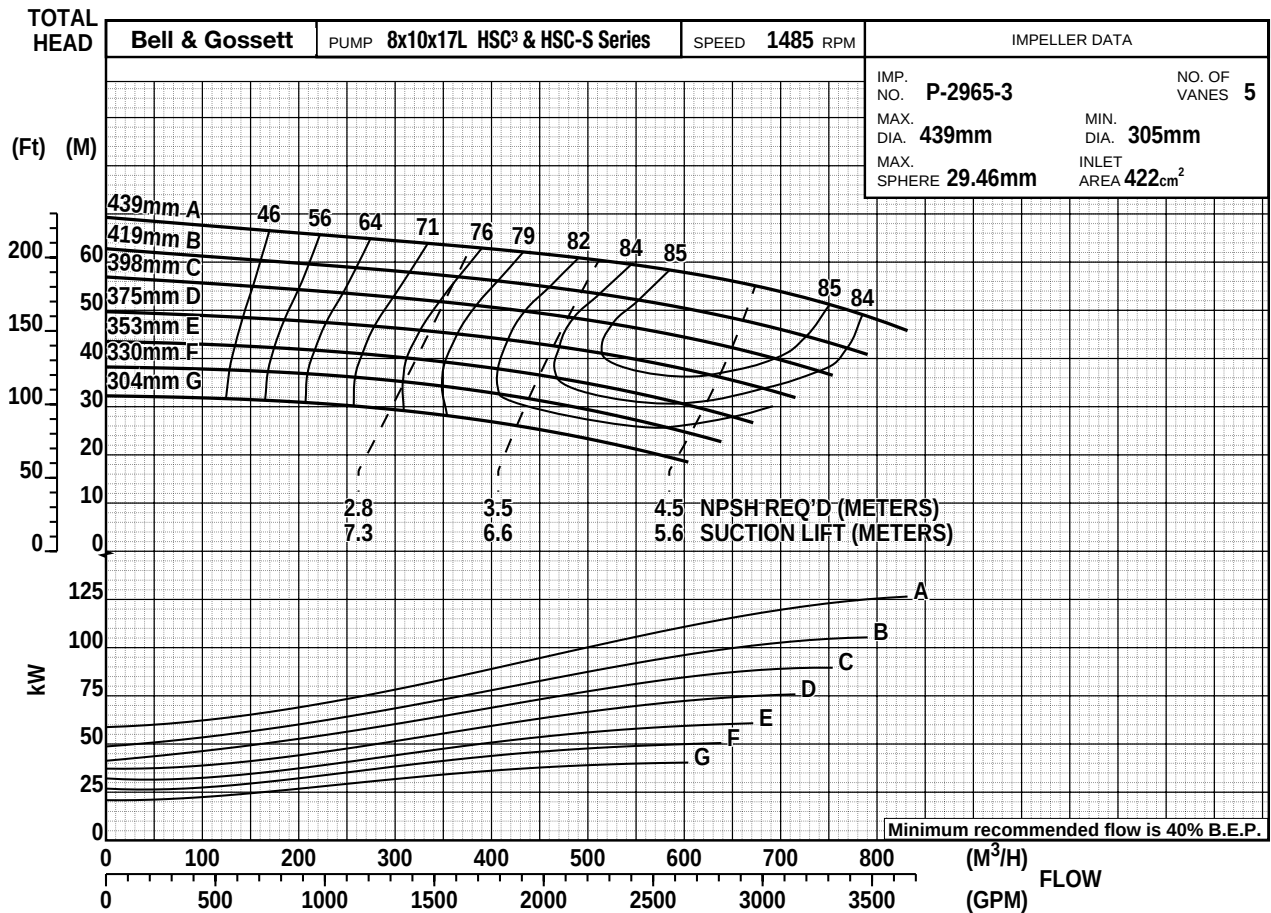
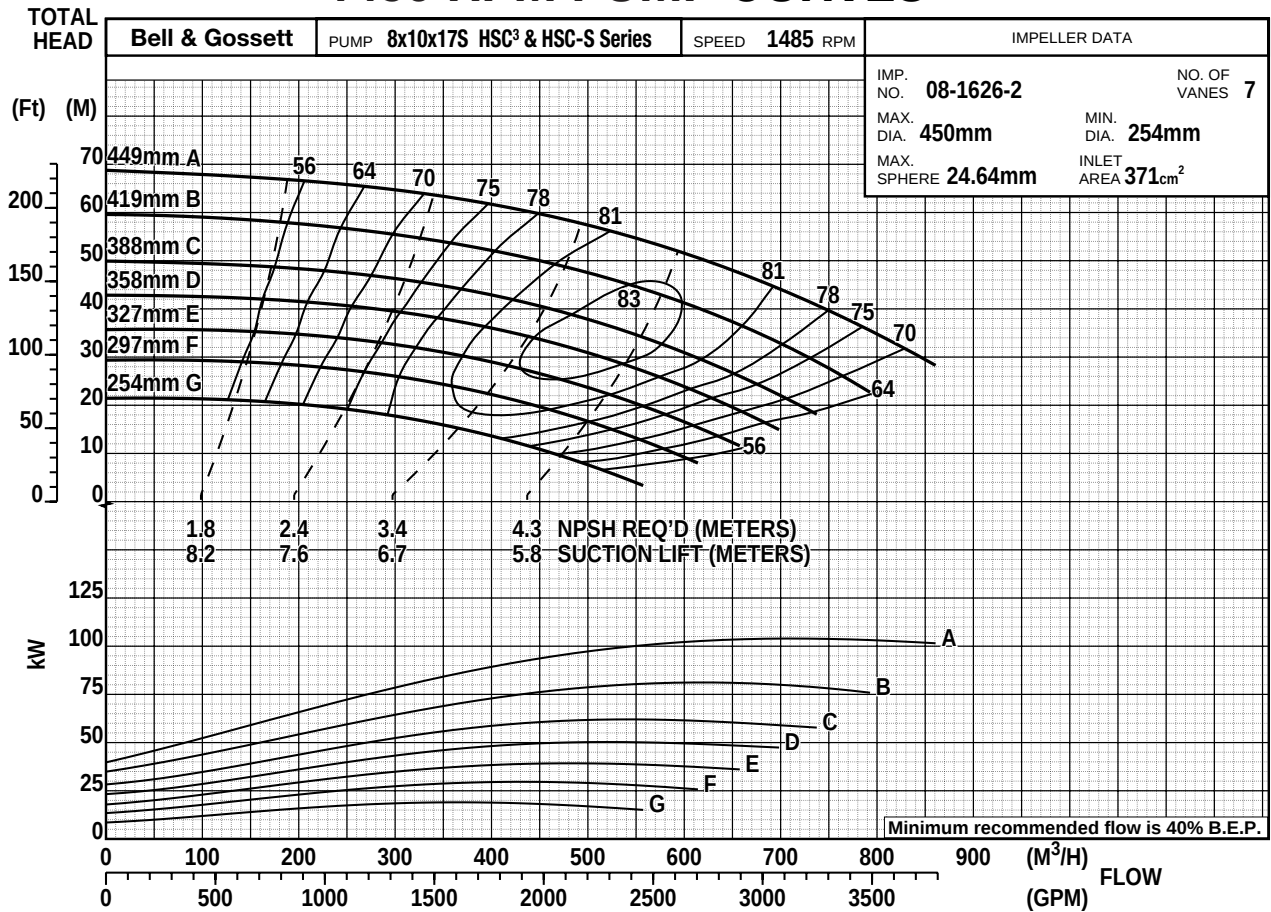
1450 RPM PUMP CURVES



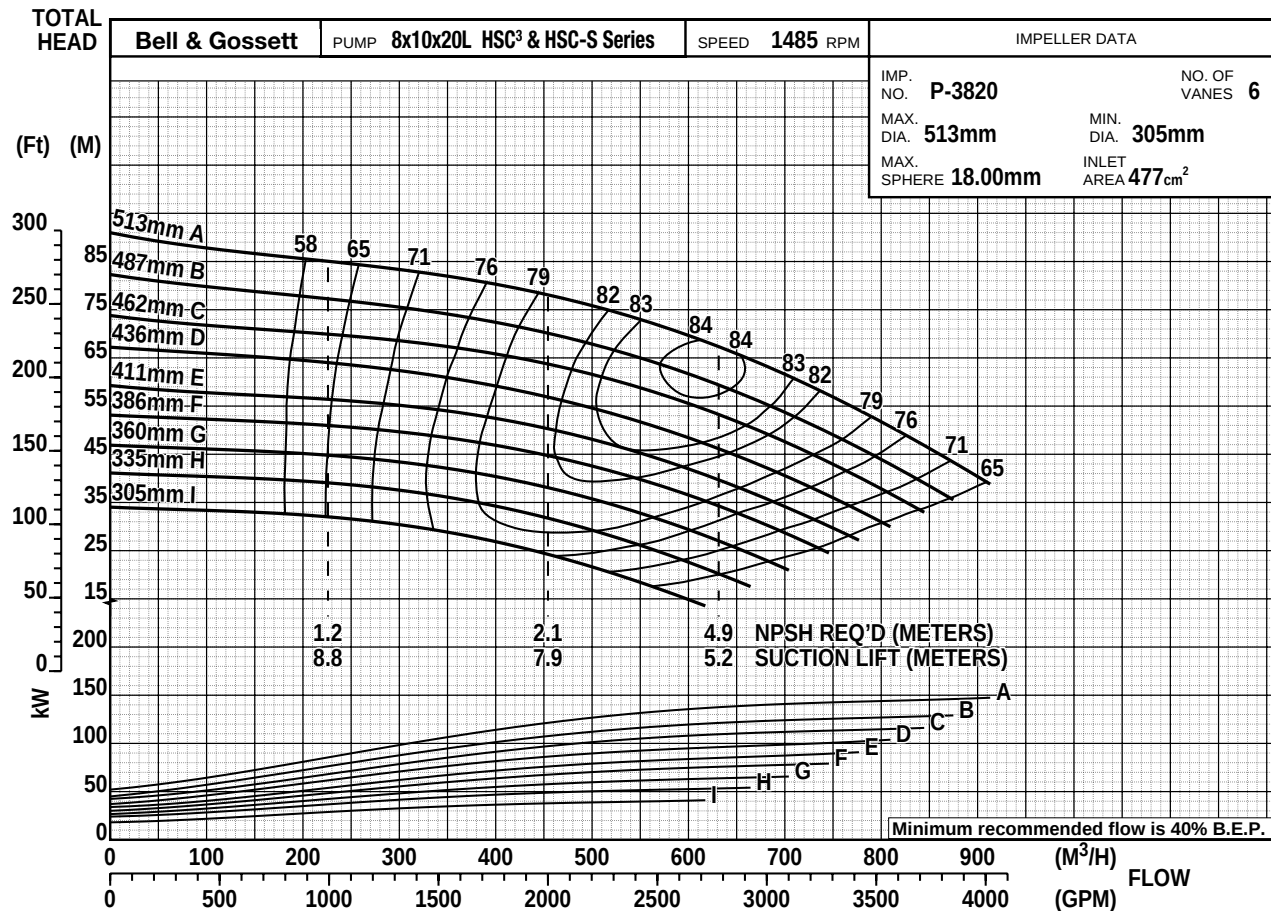
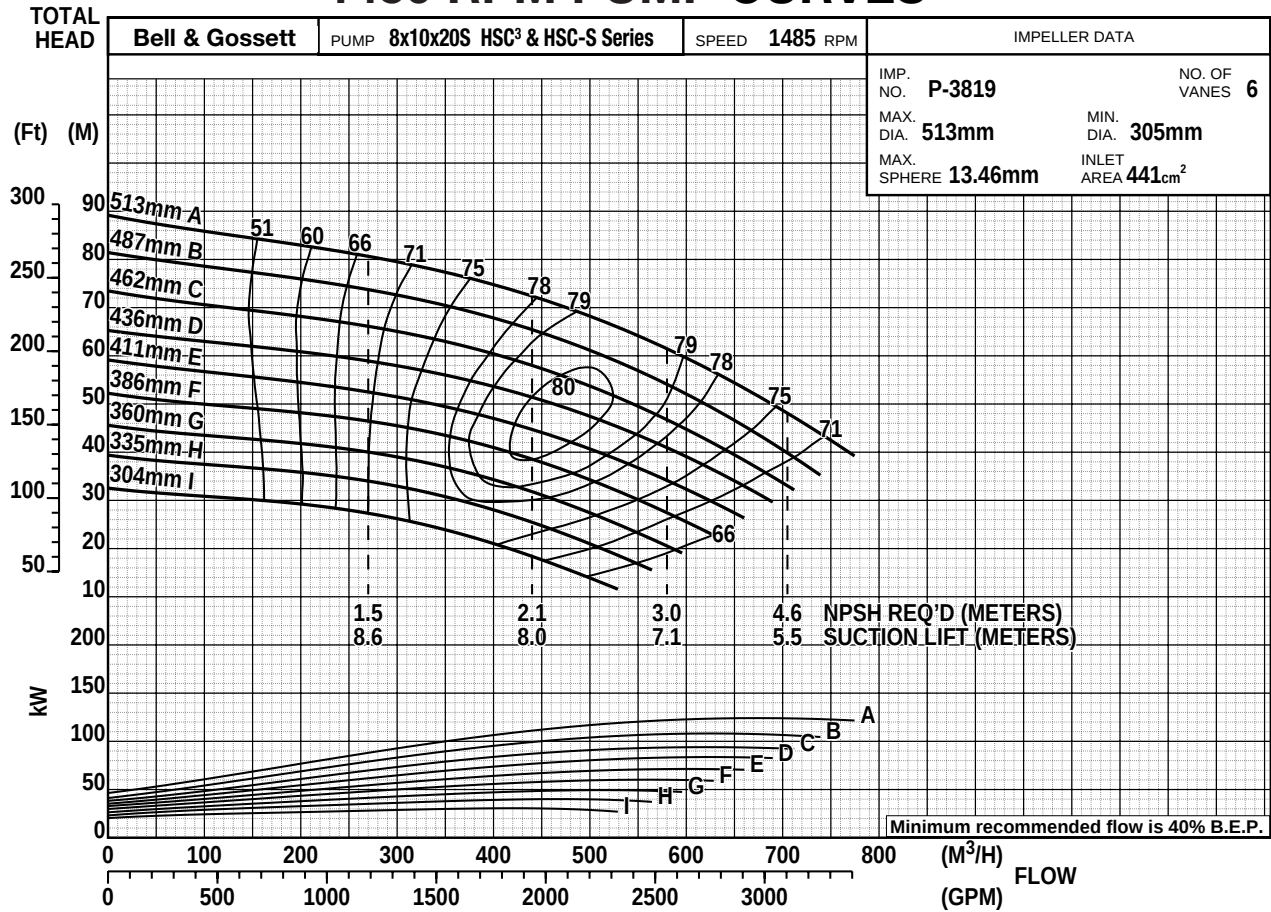
1450 RPM PUMP CURVES



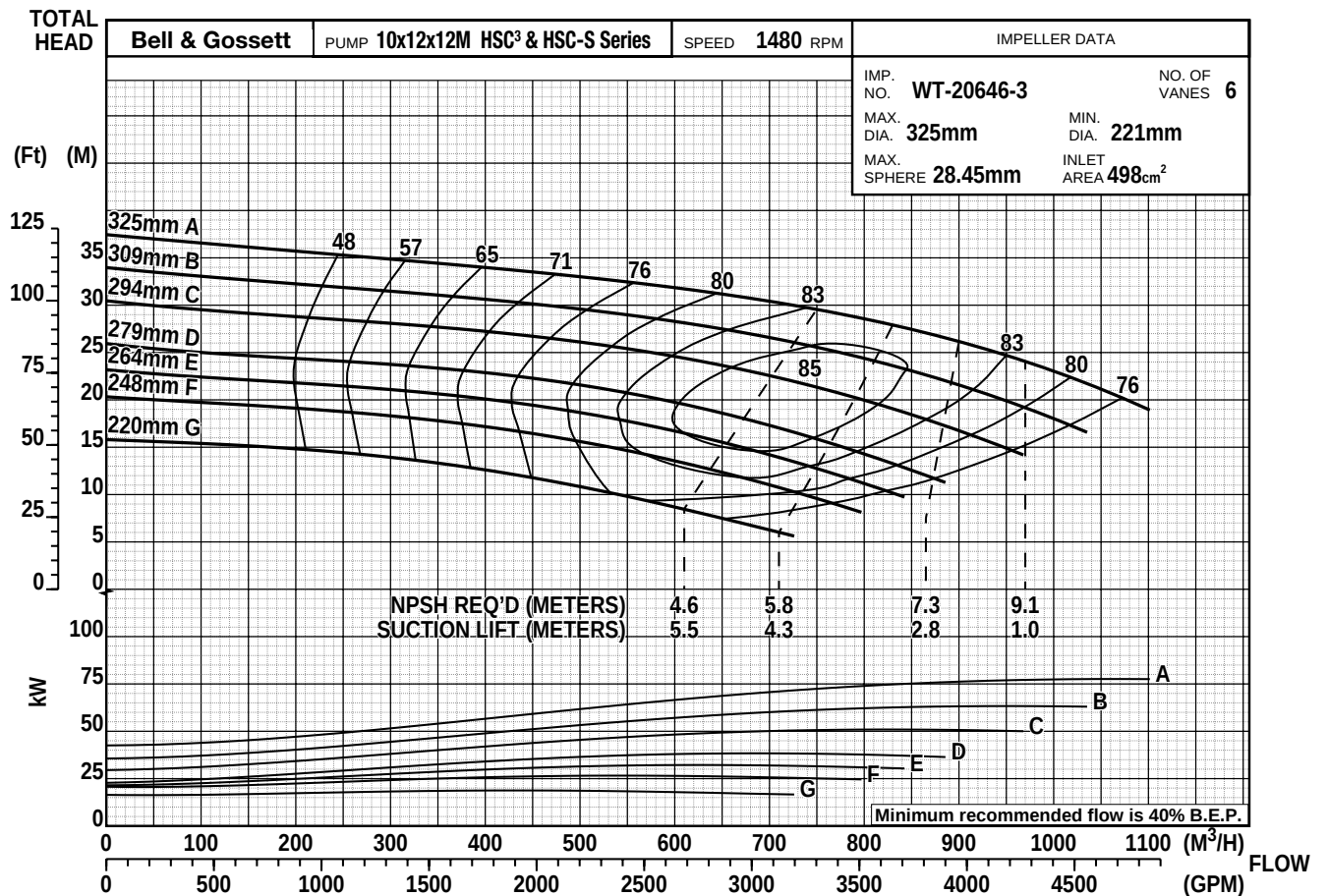
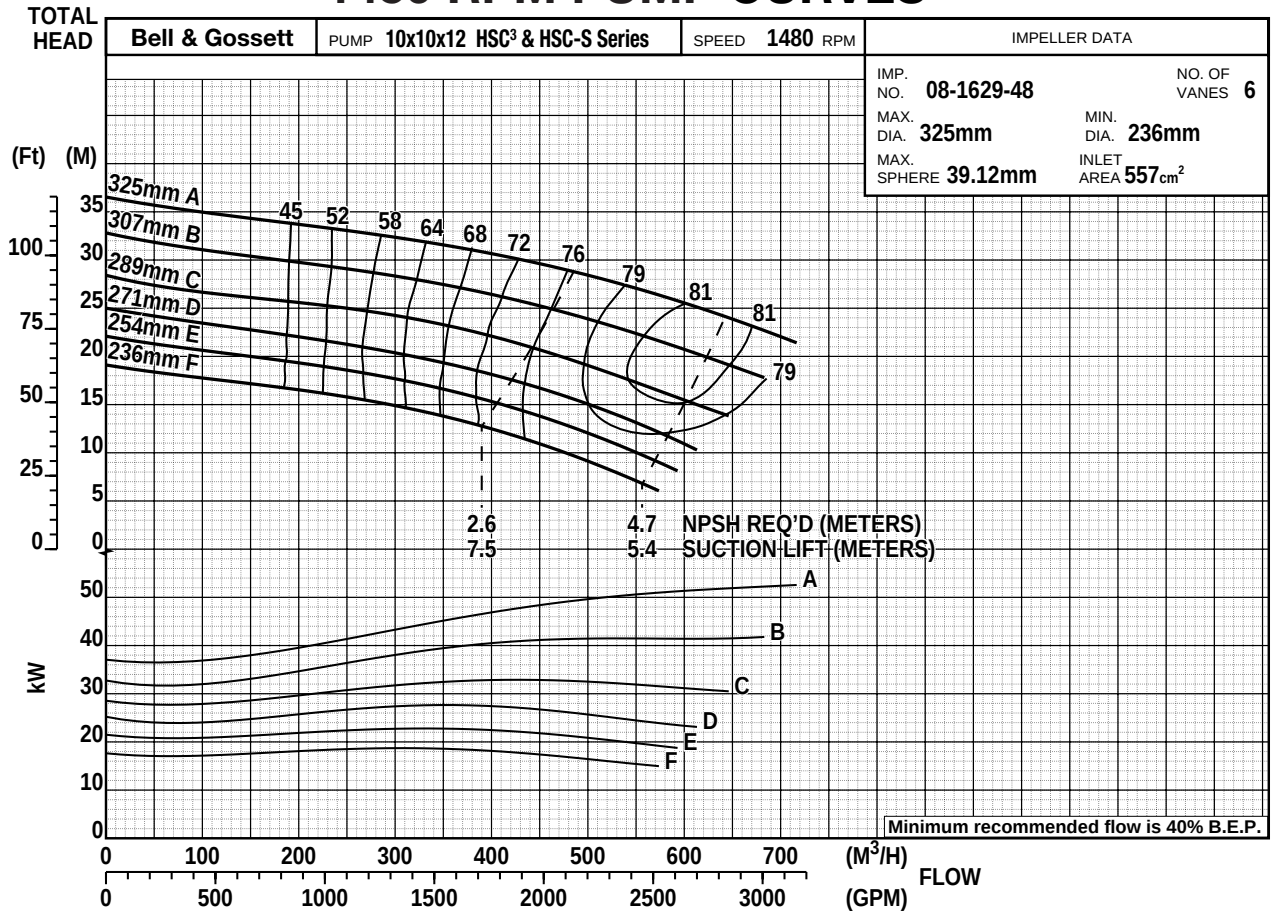
1450 RPM PUMP CURVES



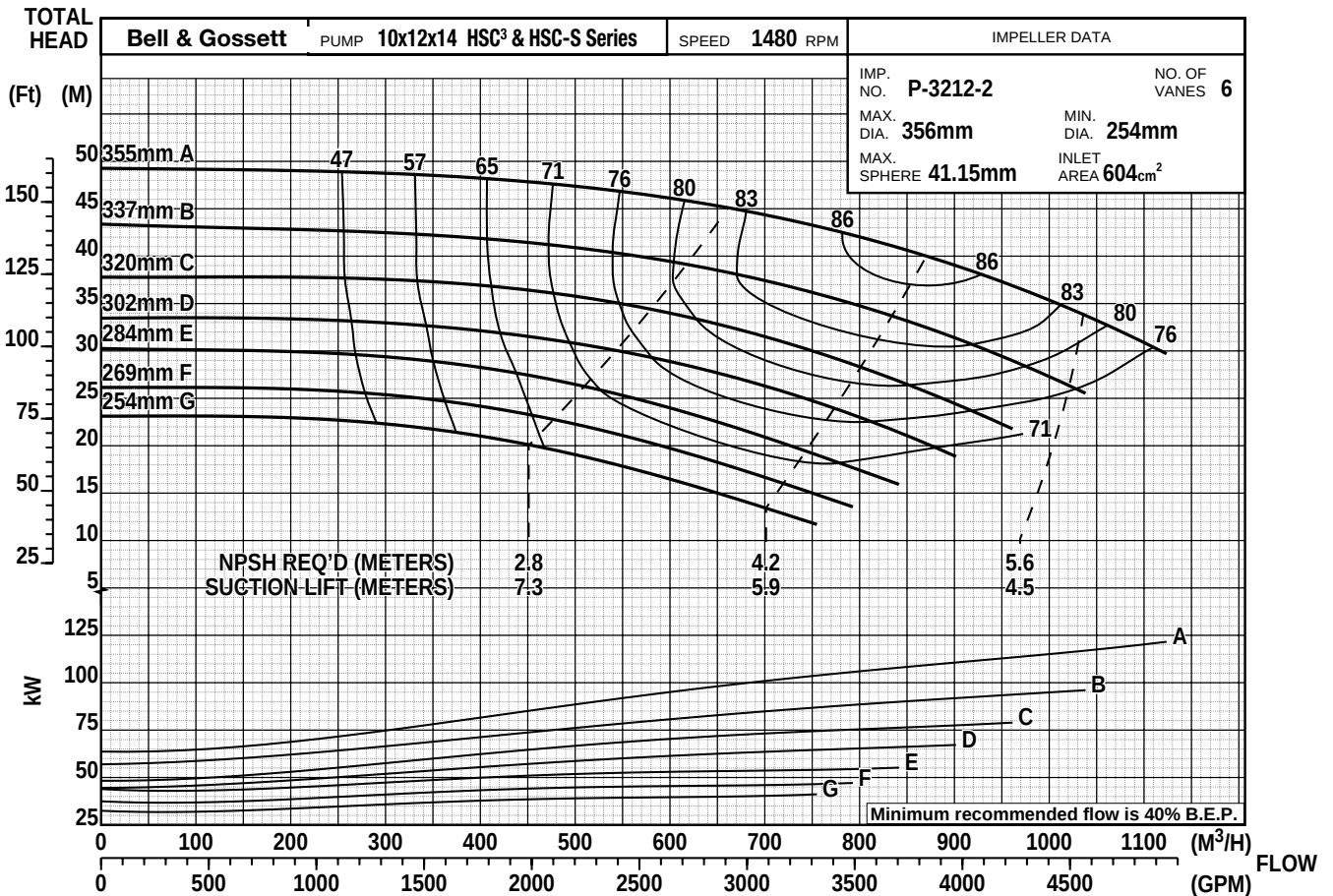
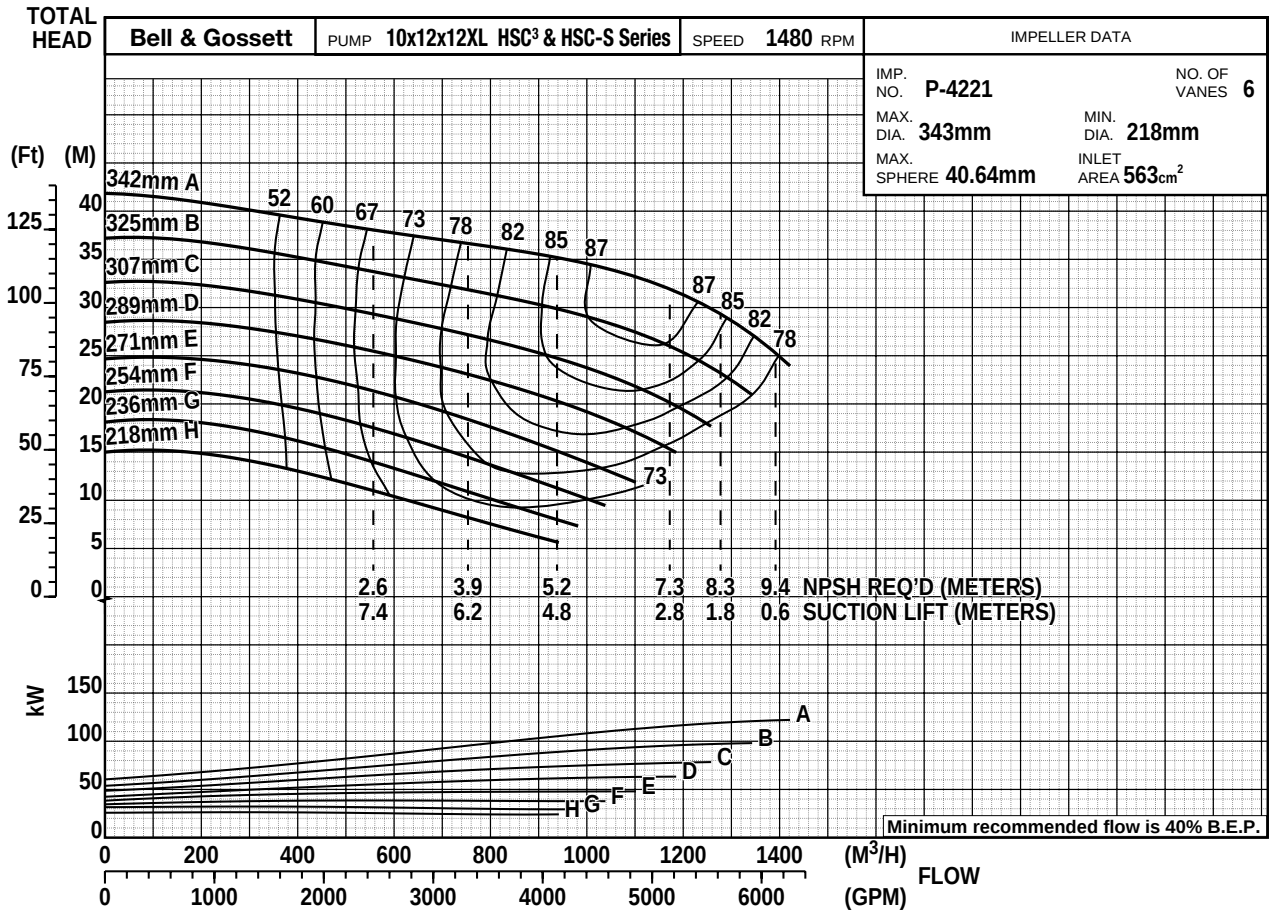
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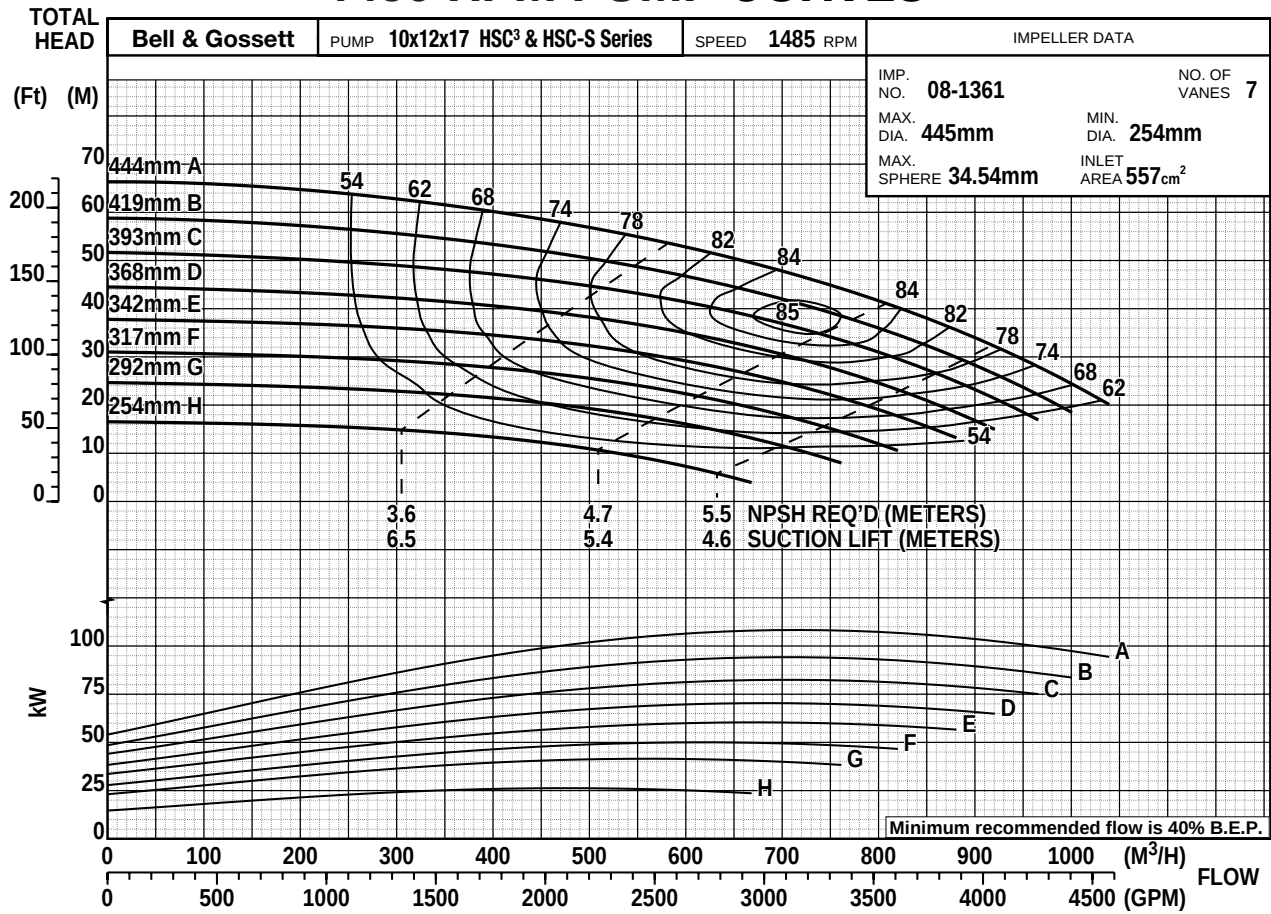
1450 RPM PUMP CURVES



1450 RPM PUMP CURVES



1450 RPM PUMP CURVES



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

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