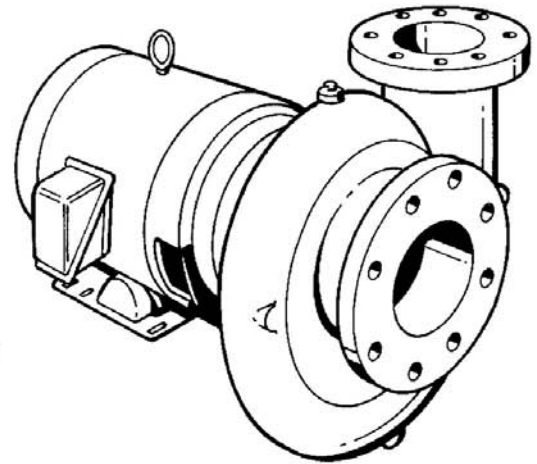
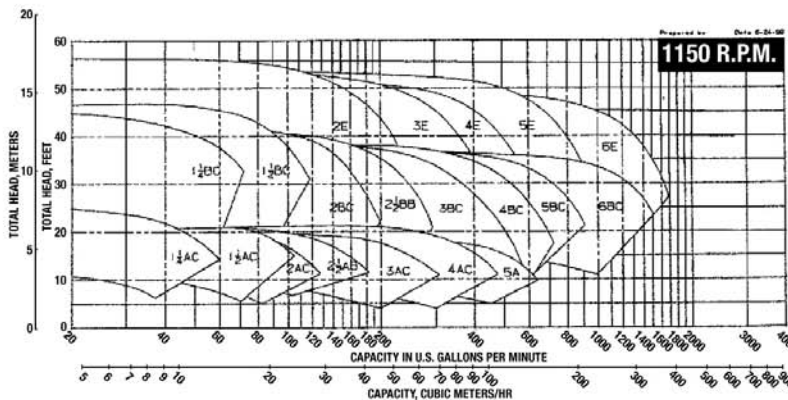
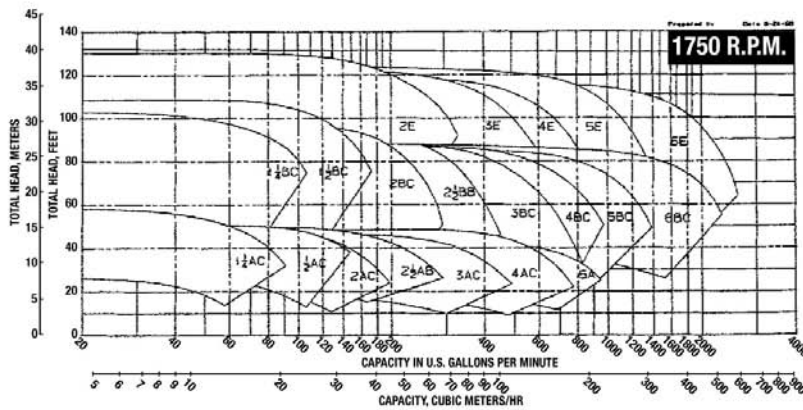
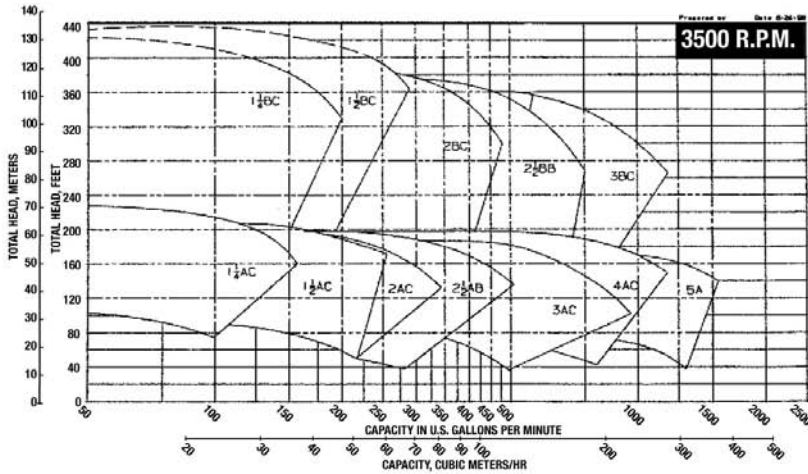




SERIES 1531

CLOSE COUPLED CENTRIFUGAL PUMP PERFORMANCE CURVES



SERIES 1531

TABLE OF CONTENTS

Useful Pump Formulas	2
3500 RPM PUMP CURVES	
A - Size Curves	3
B - Size Curves	6
1750 RPM PUMP CURVES	
A - Size Curves	10
B - Size Curves	13
E - Size Curves	17
1150 RPM PUMP CURVES	
A - Size Curves	20
B - Size Curves	23
E - Size Curves	27

USEFUL PUMP FORMULAS

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

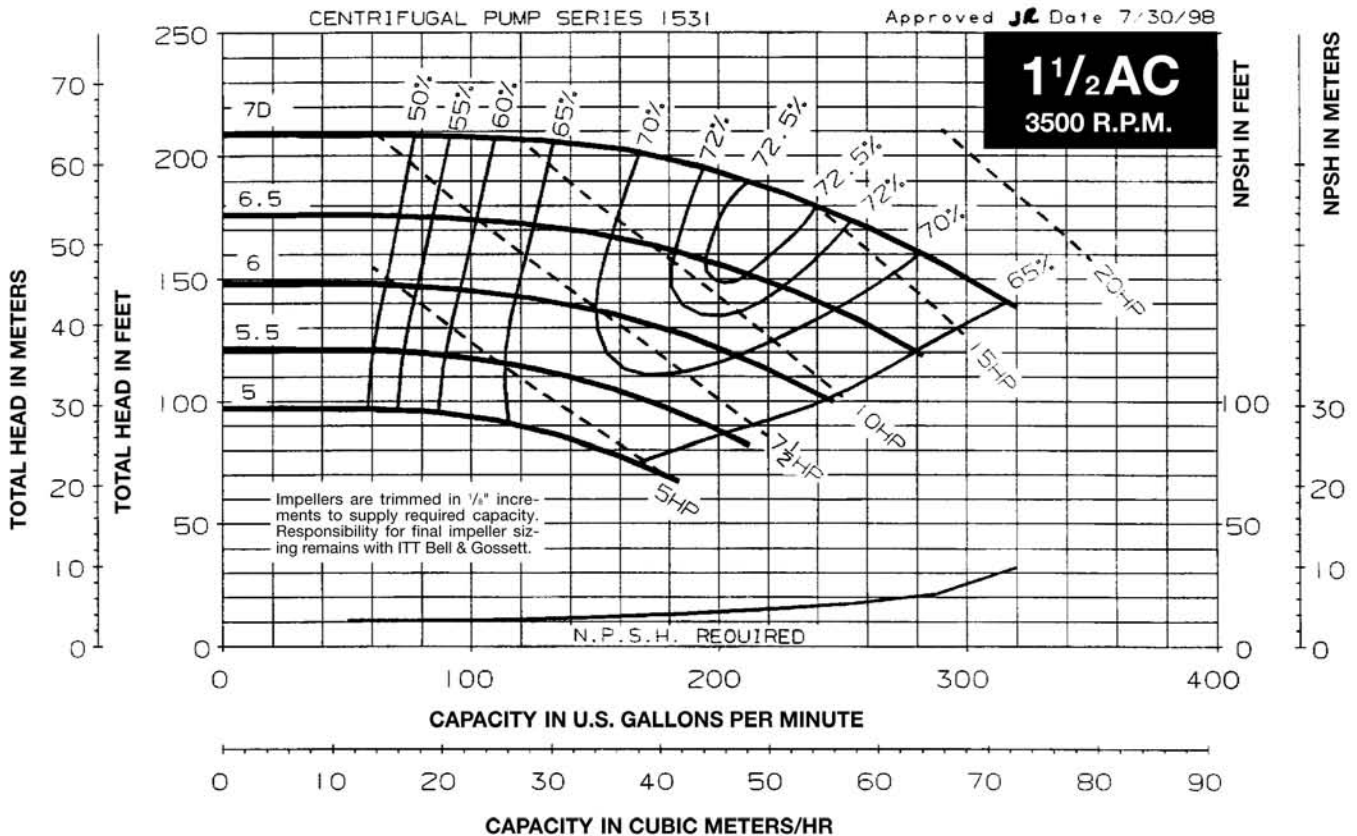
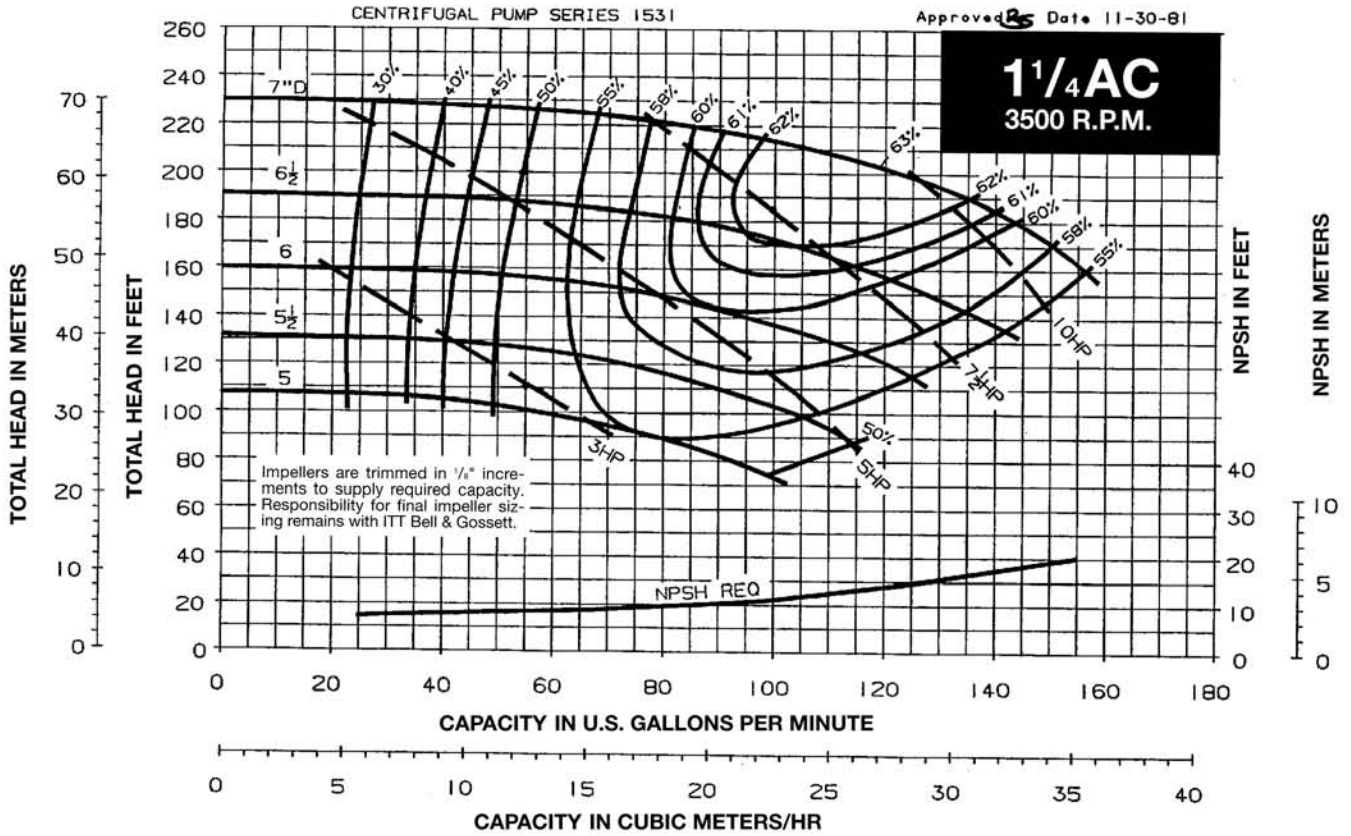
Affinity Laws: Effect of change of speed or impeller diameter on centrifugal pumps.

	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

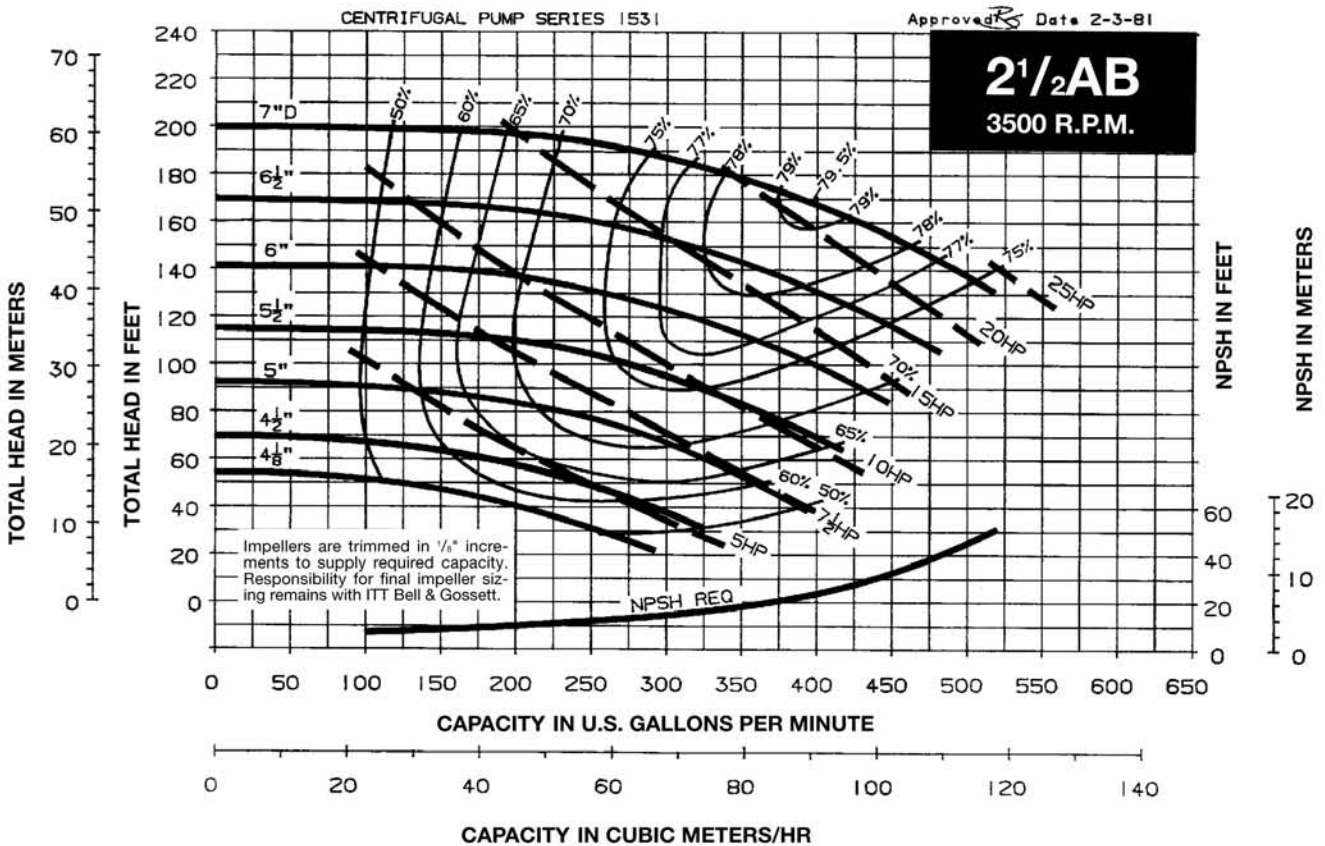
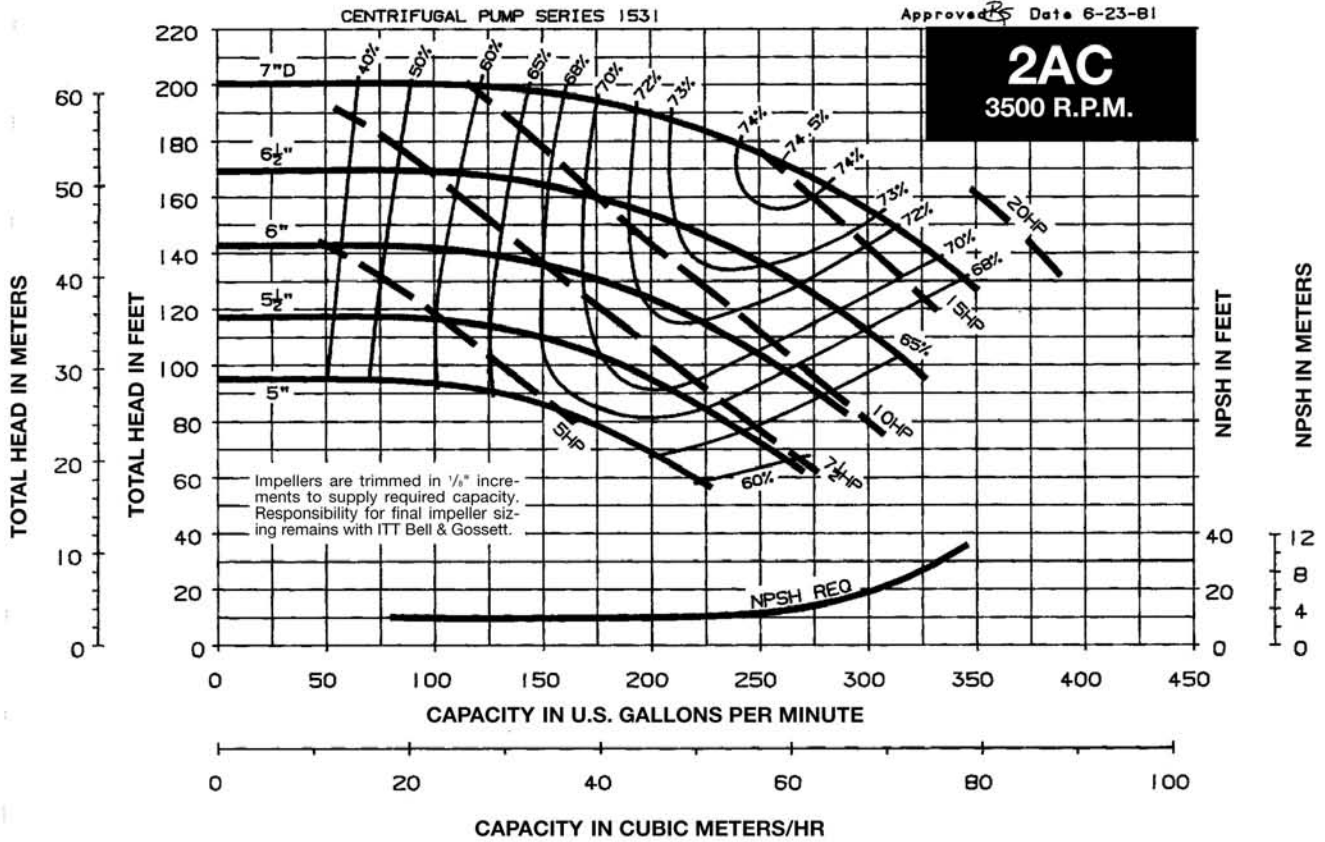
SERIES 1531

3500 RPM PUMP CURVES



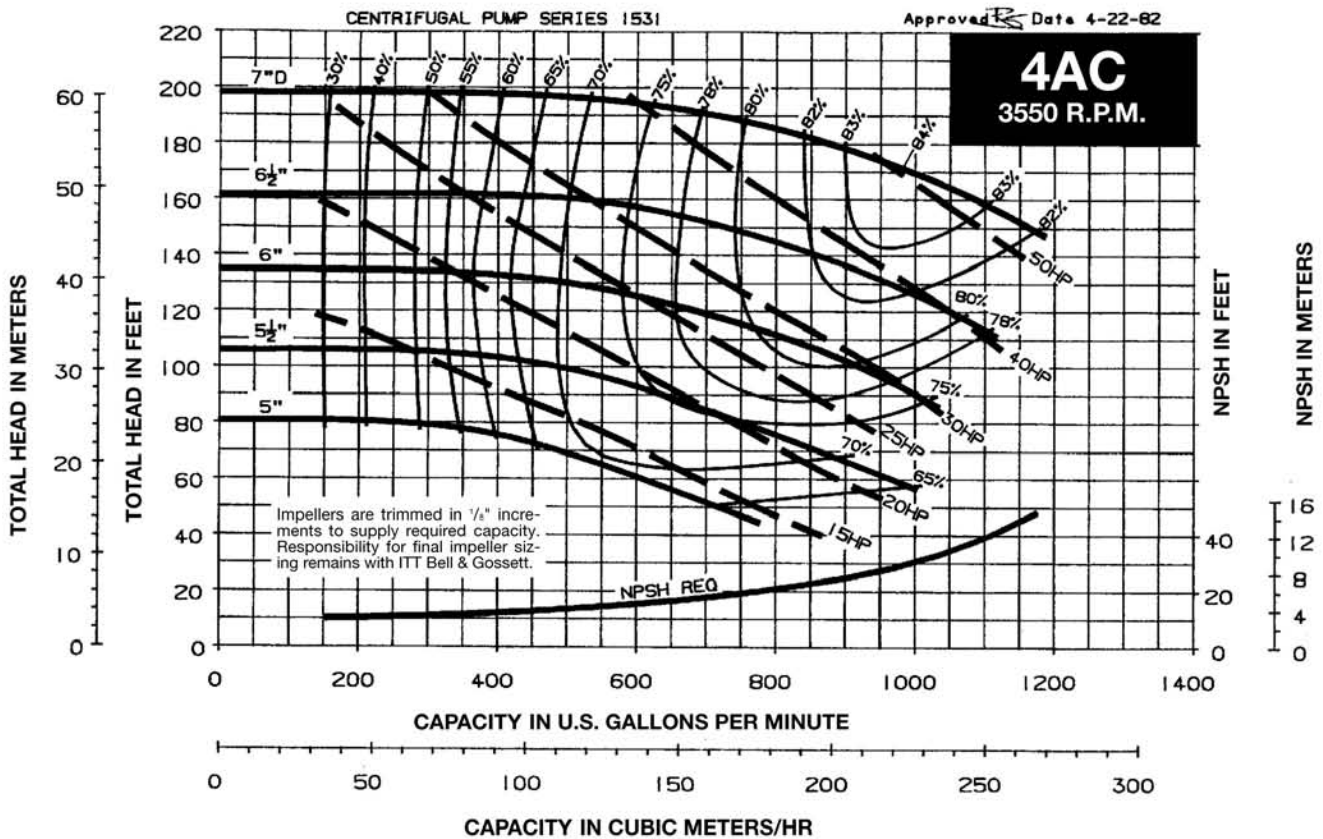
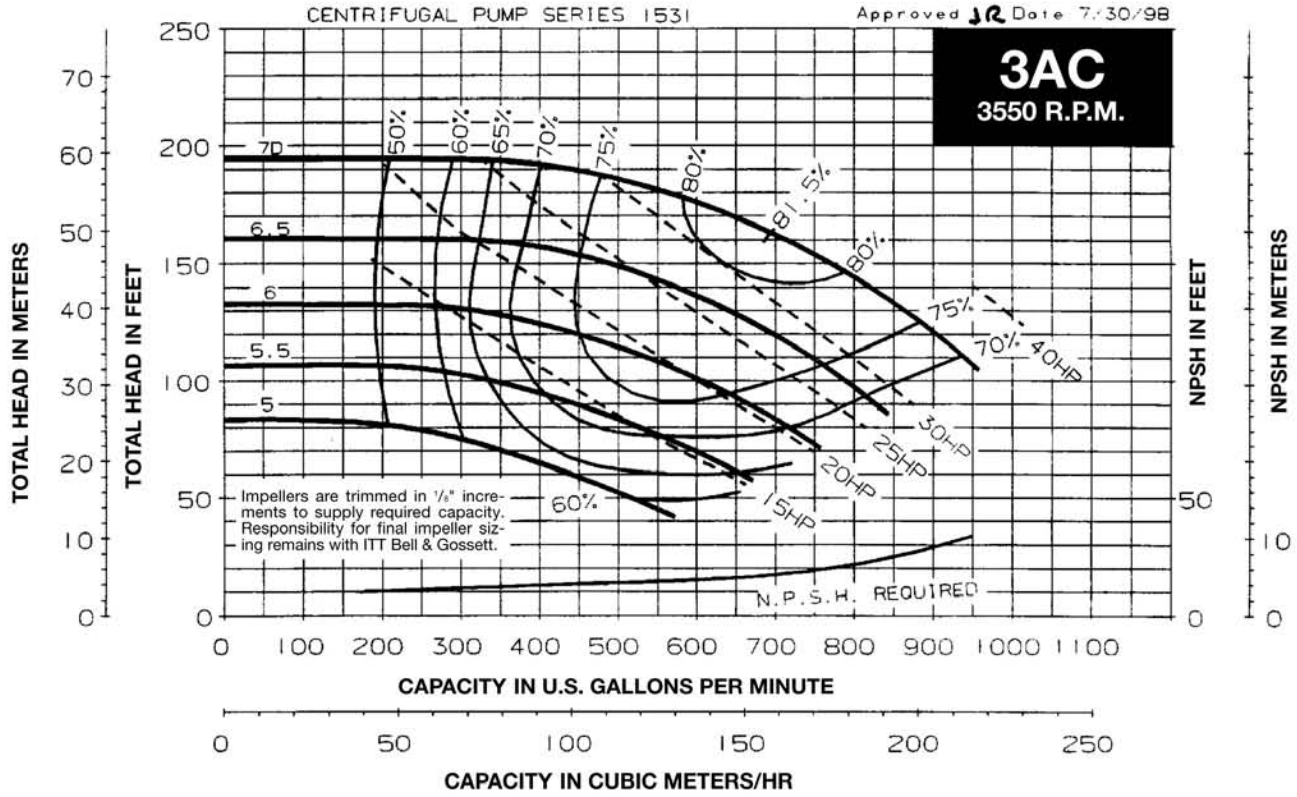
SERIES 1531

3500 RPM PUMP CURVES



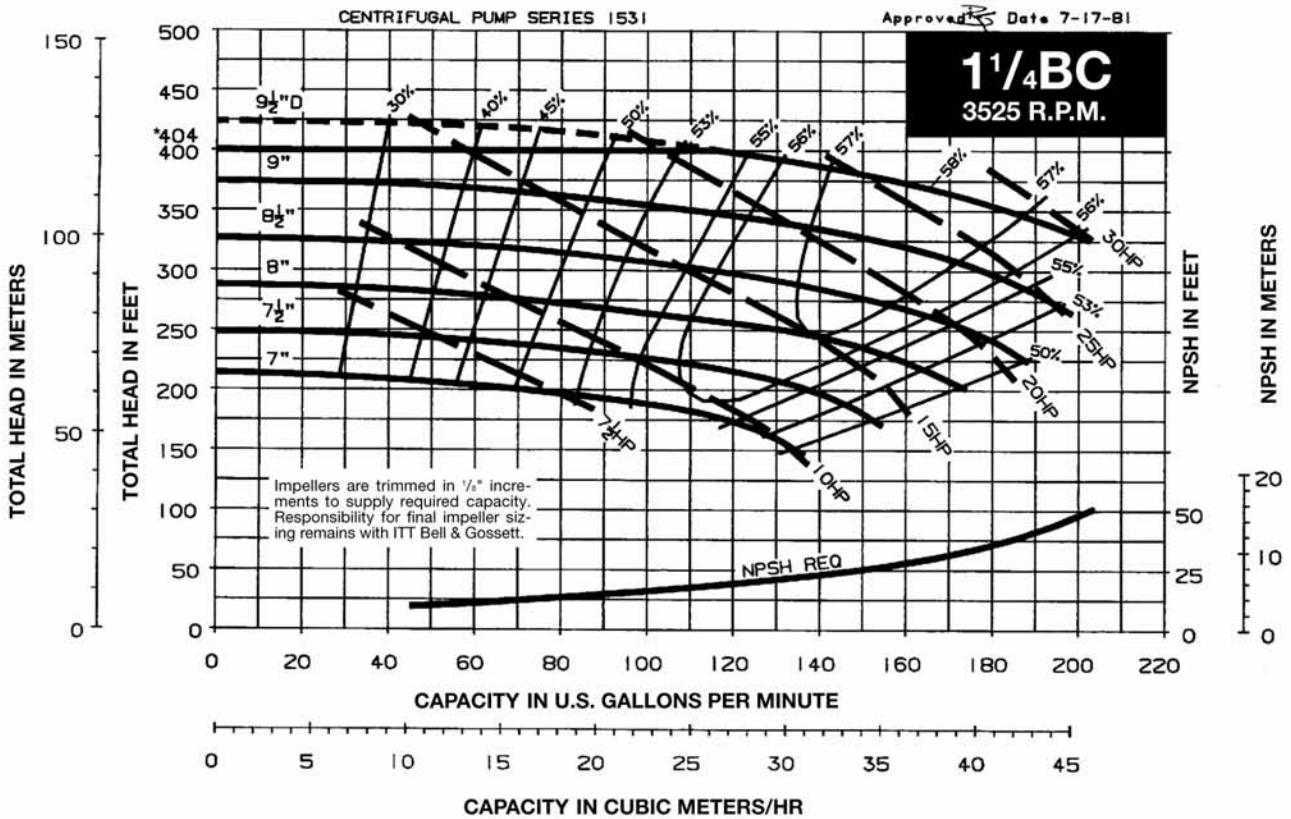
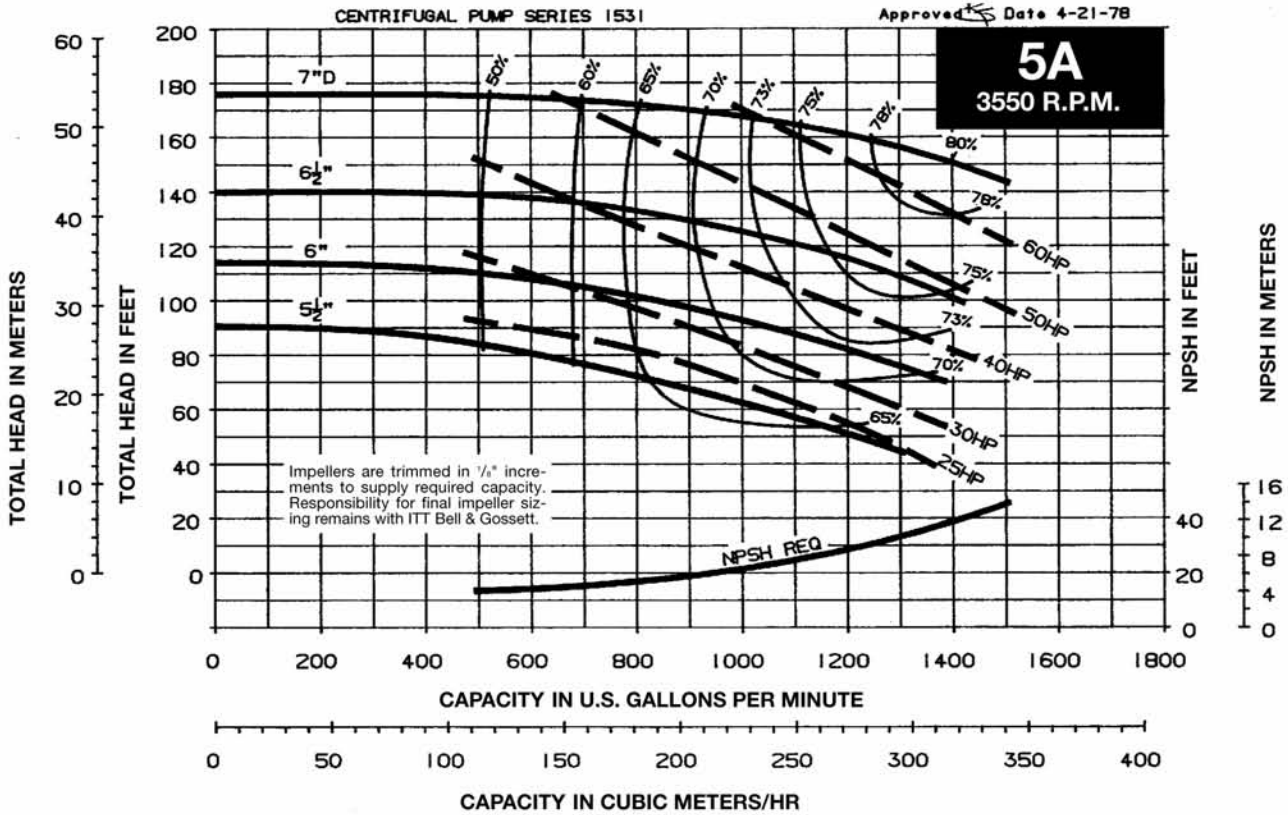
SERIES 1531

3500 RPM PUMP CURVES



SERIES 1531

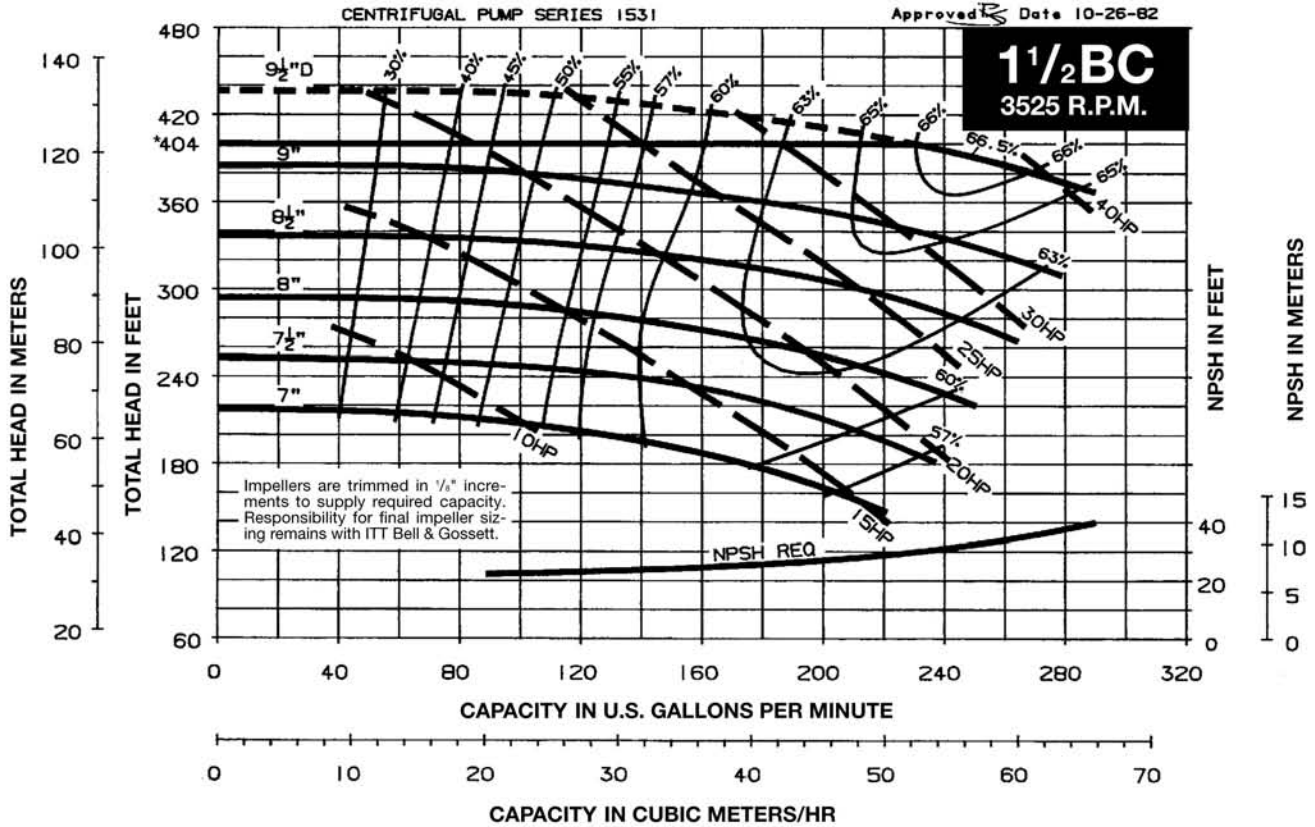
3500 RPM PUMP CURVES



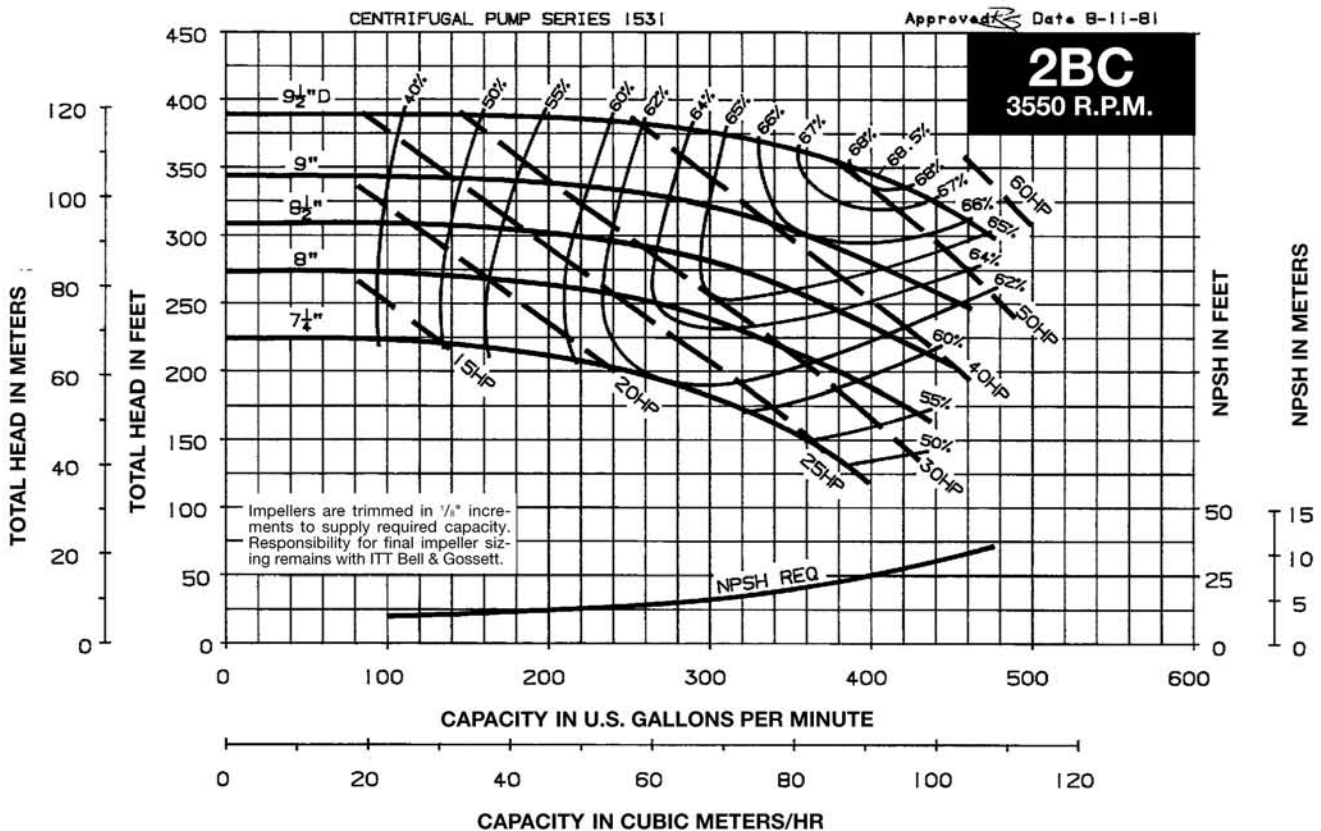
*Operation above 404' will exceed the maximum pressure rating of the pump.

SERIES 1531

3500 RPM PUMP CURVES

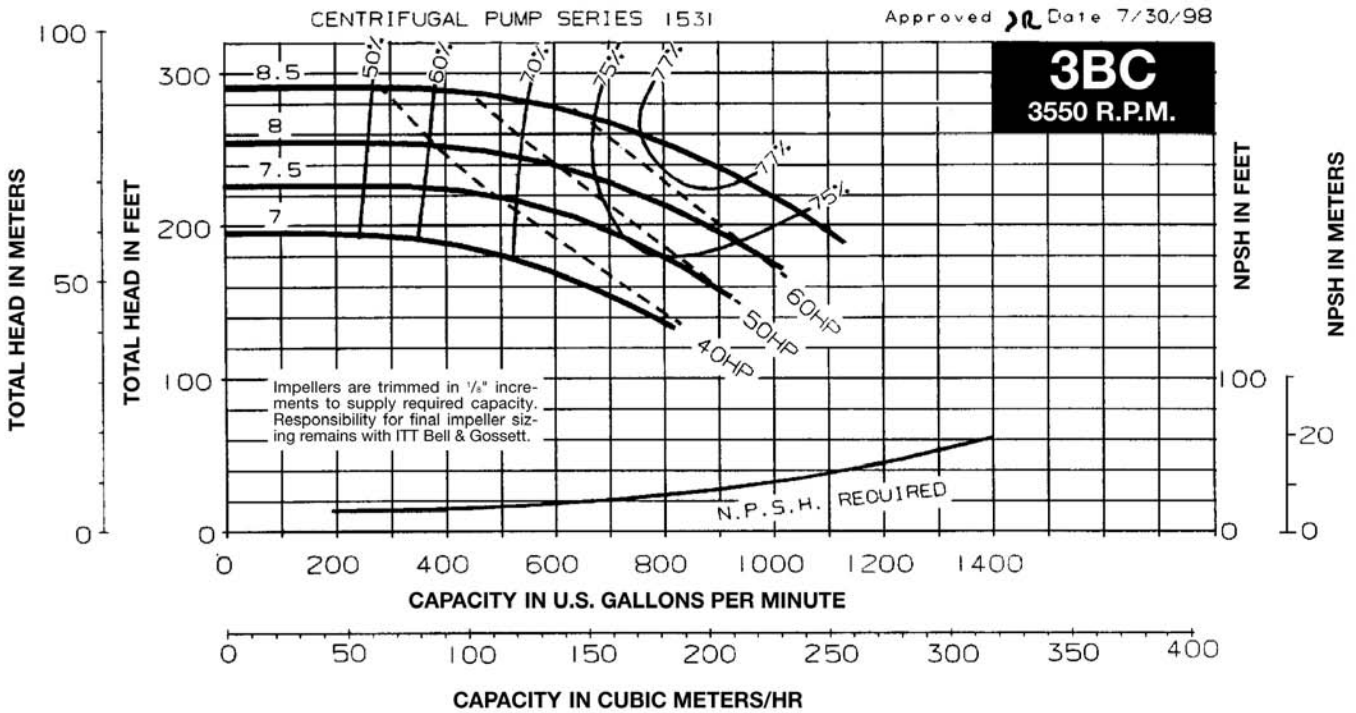
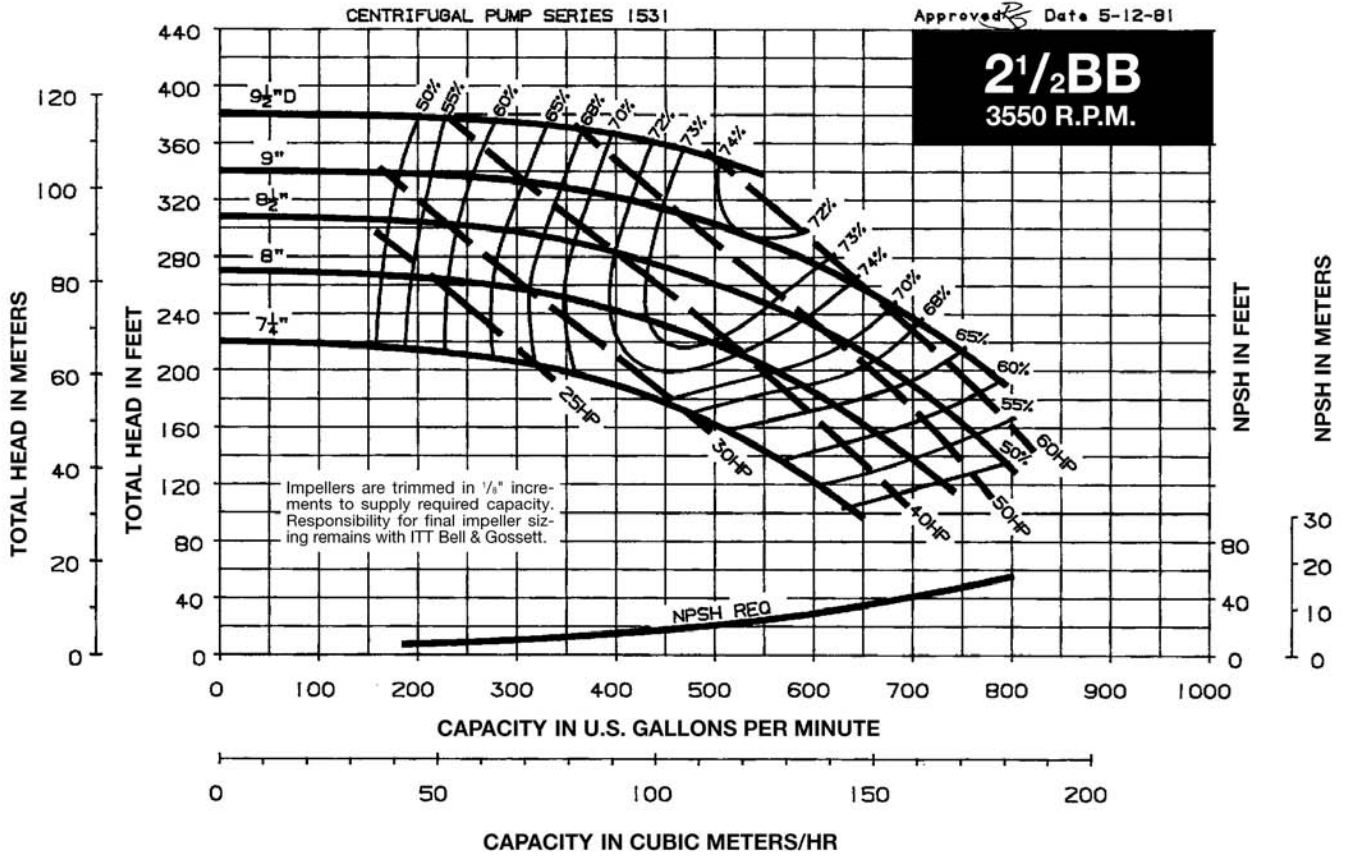


*Operation above 404' will exceed the maximum pressure rating of the pump.

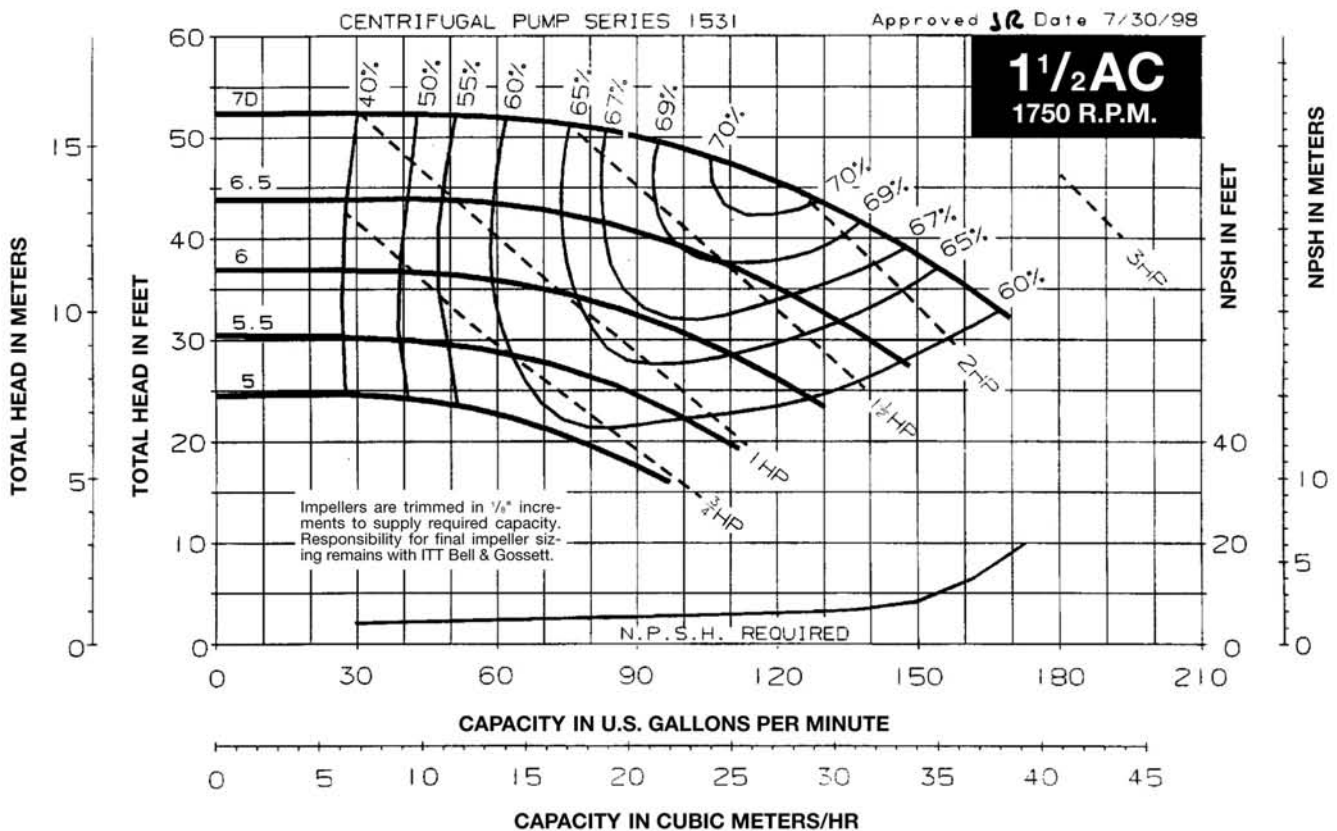
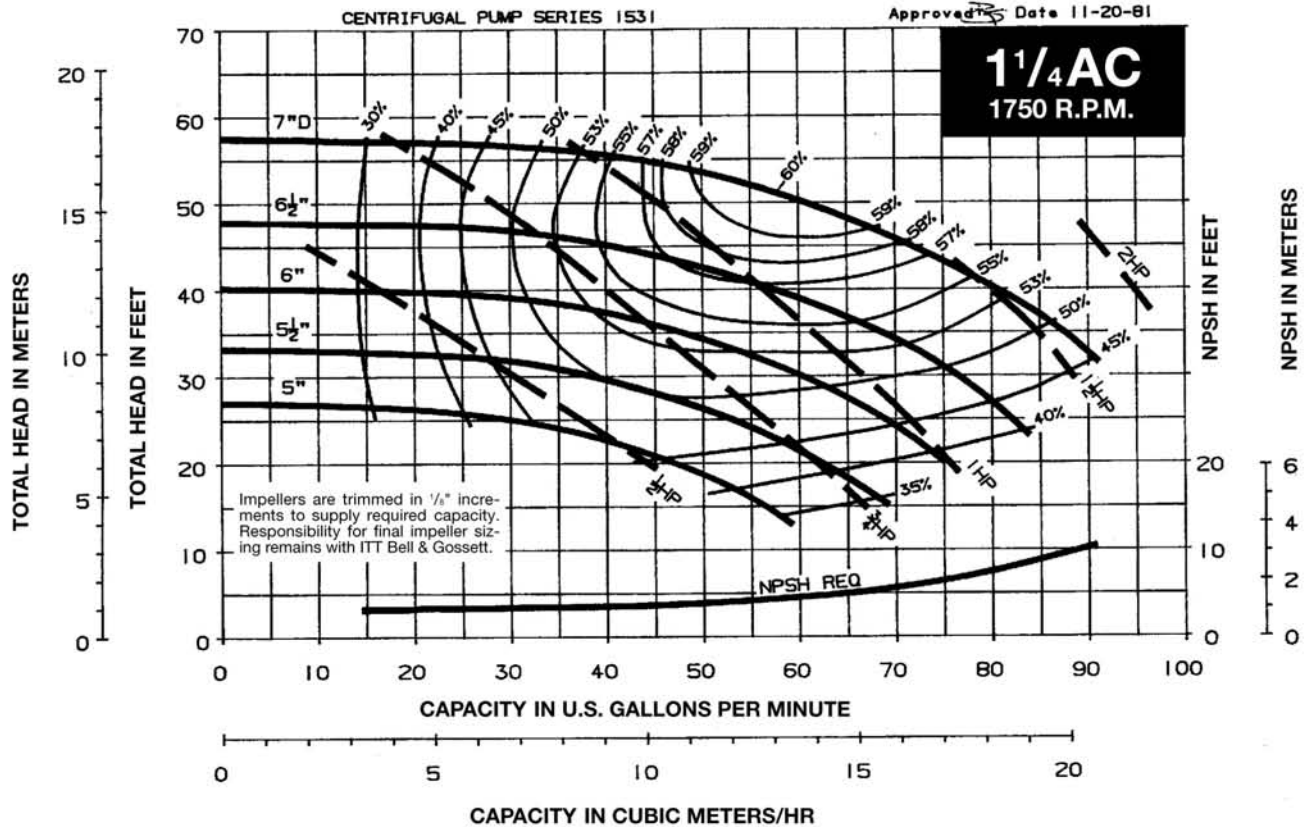


SERIES 1531

3500 RPM PUMP CURVES

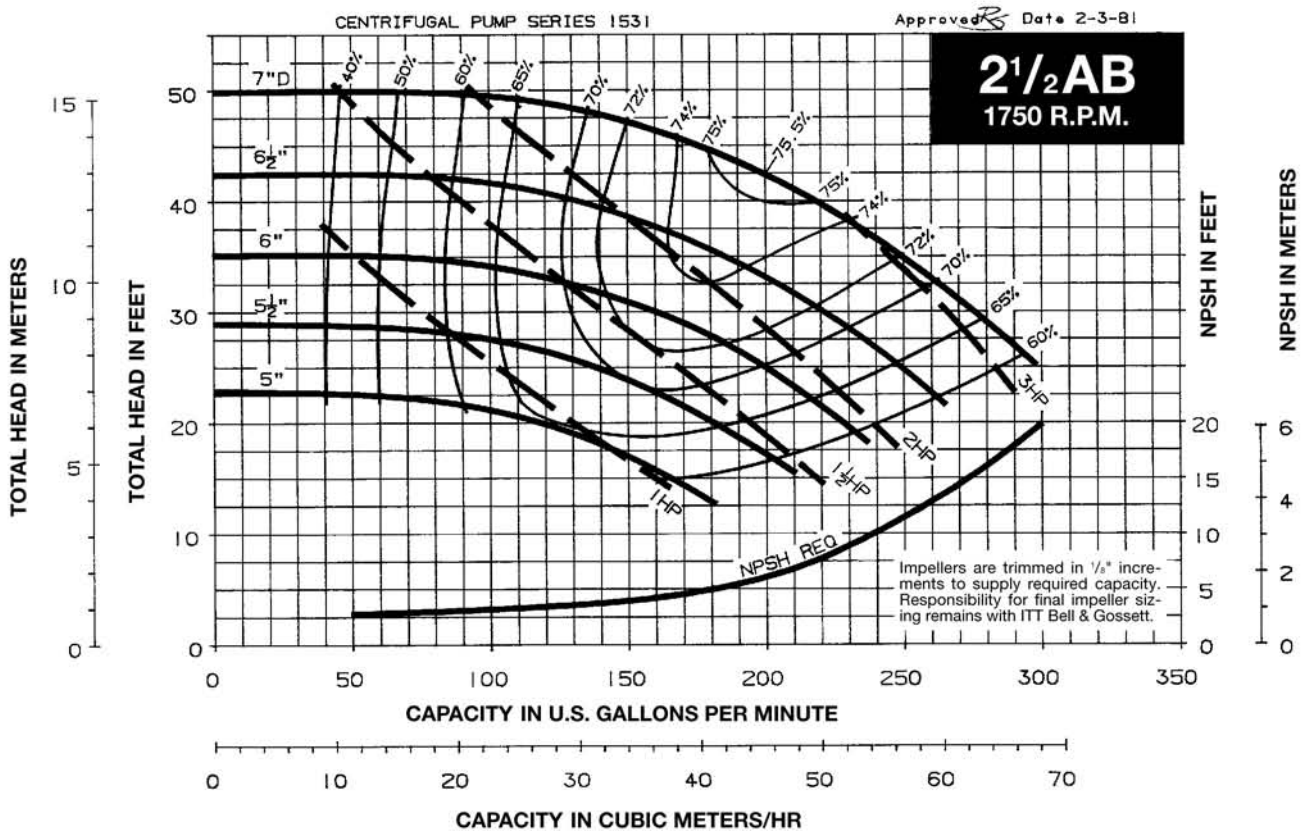
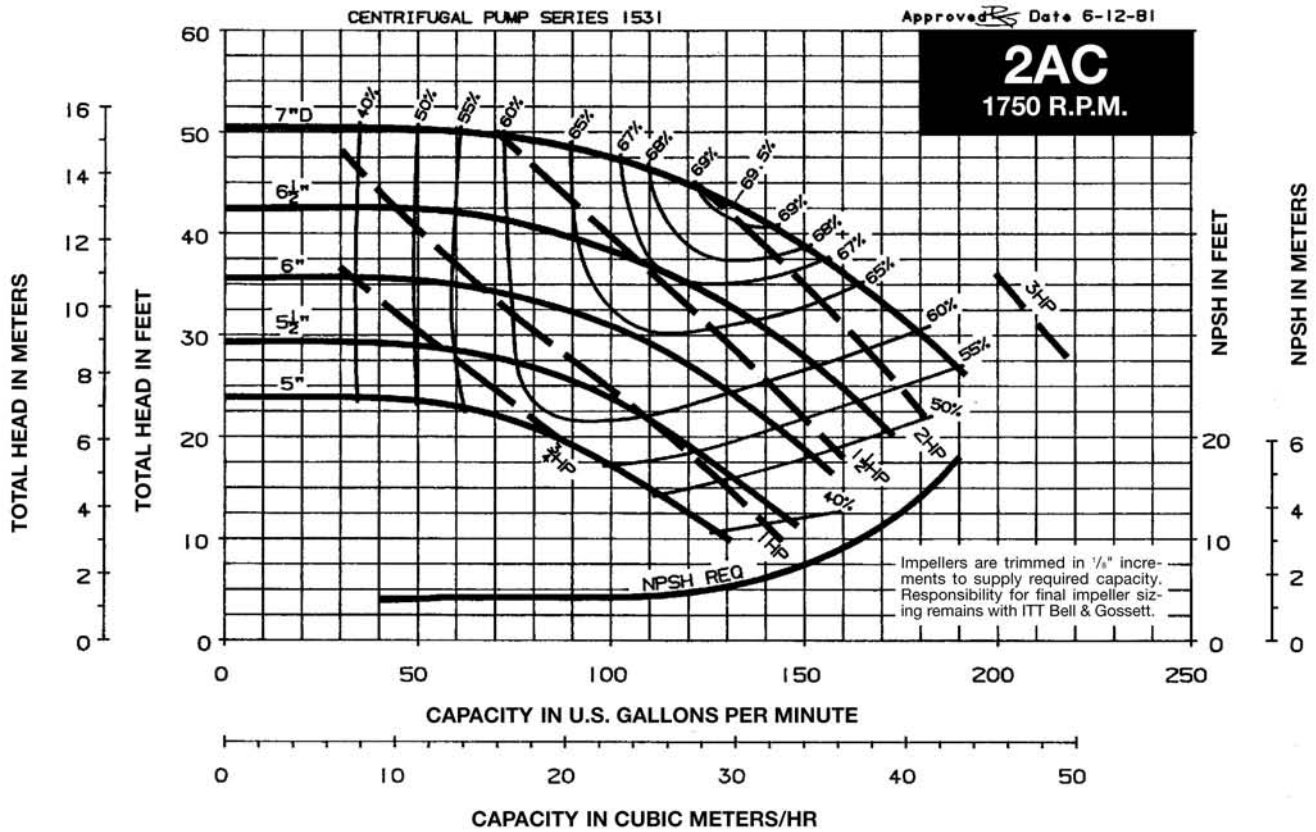


1750 RPM PUMP CURVES



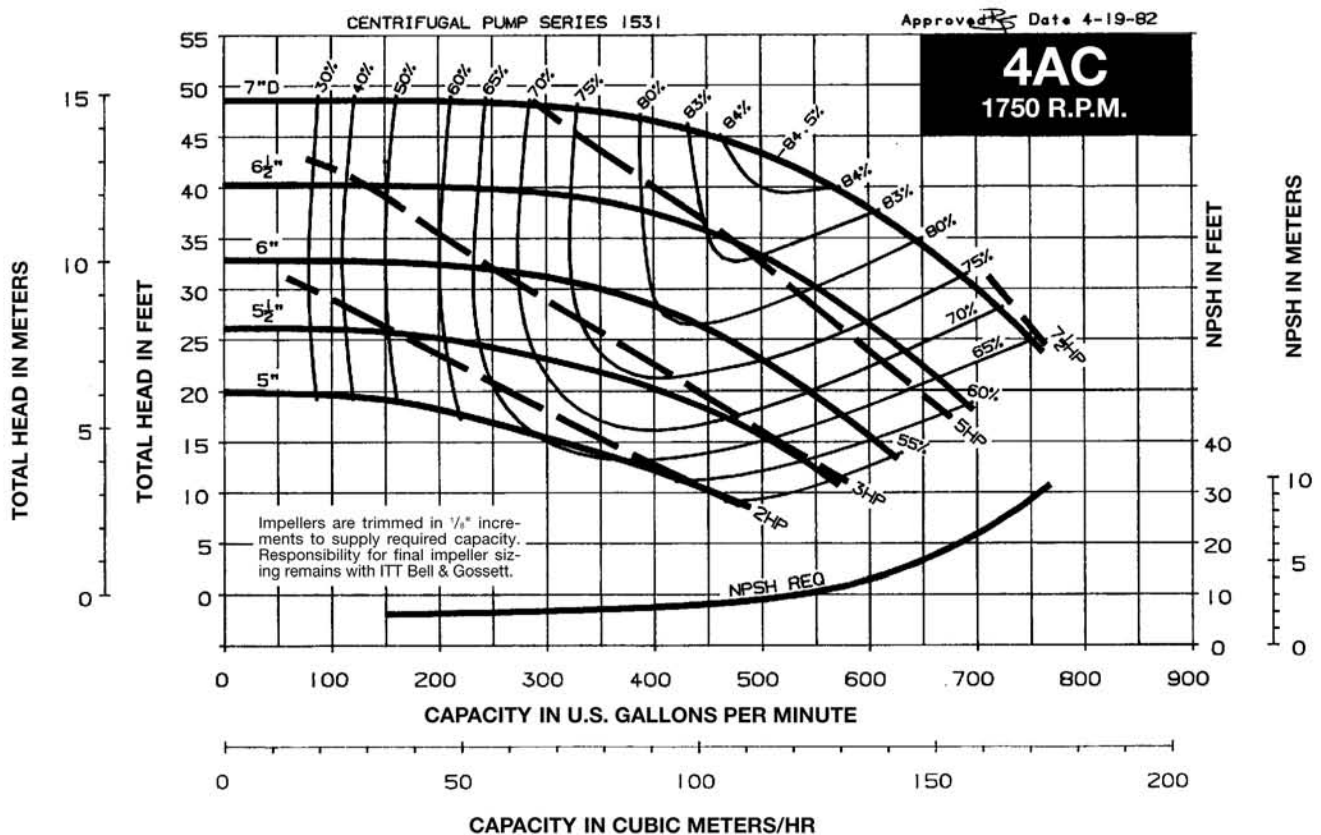
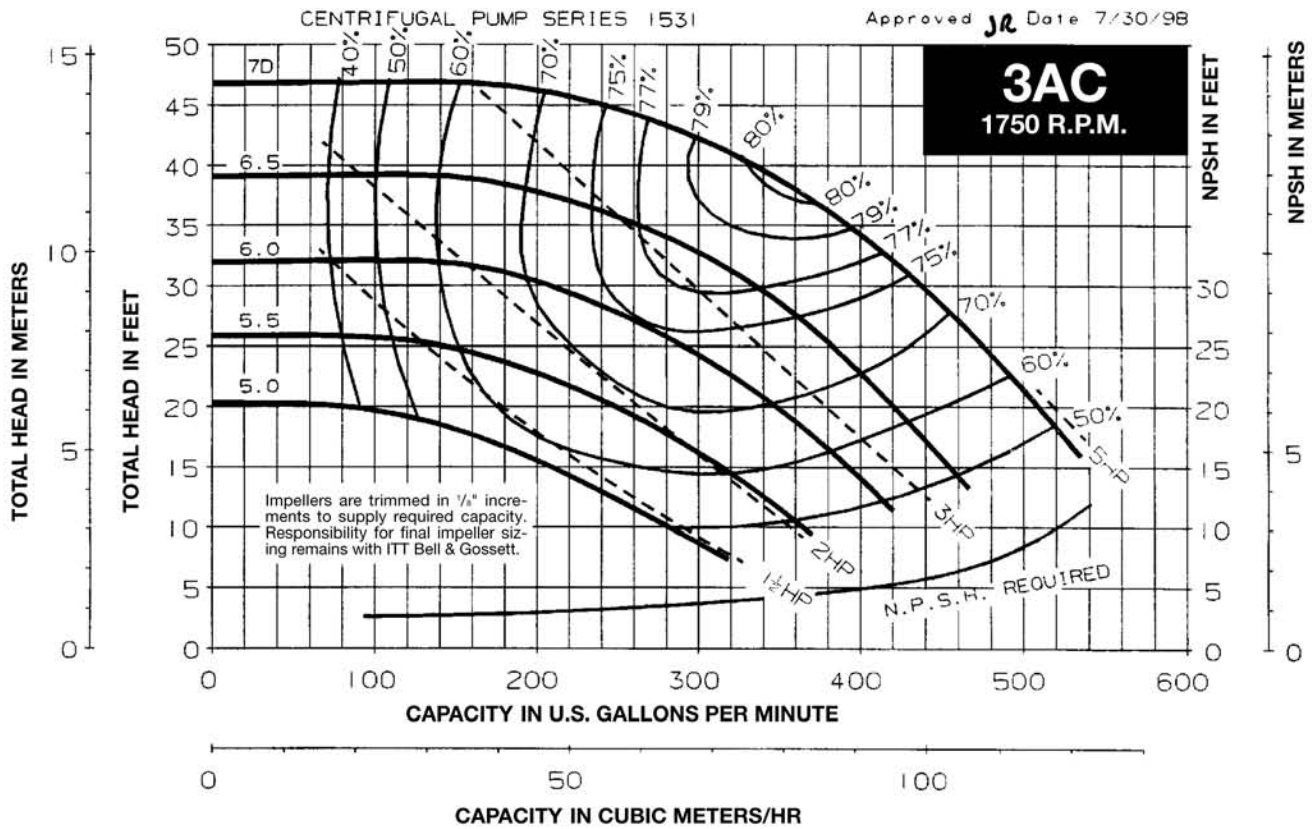
SERIES 1531

1750 RPM PUMP CURVES

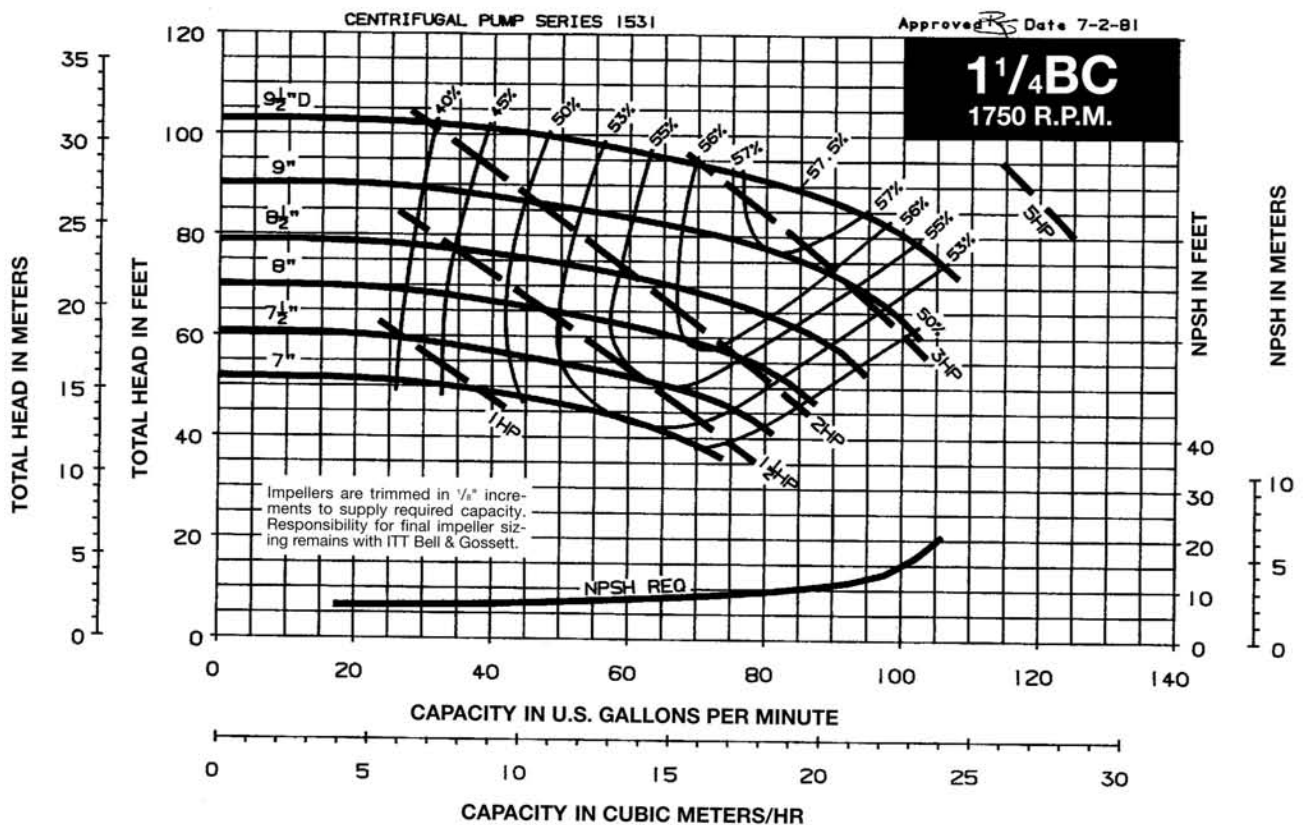
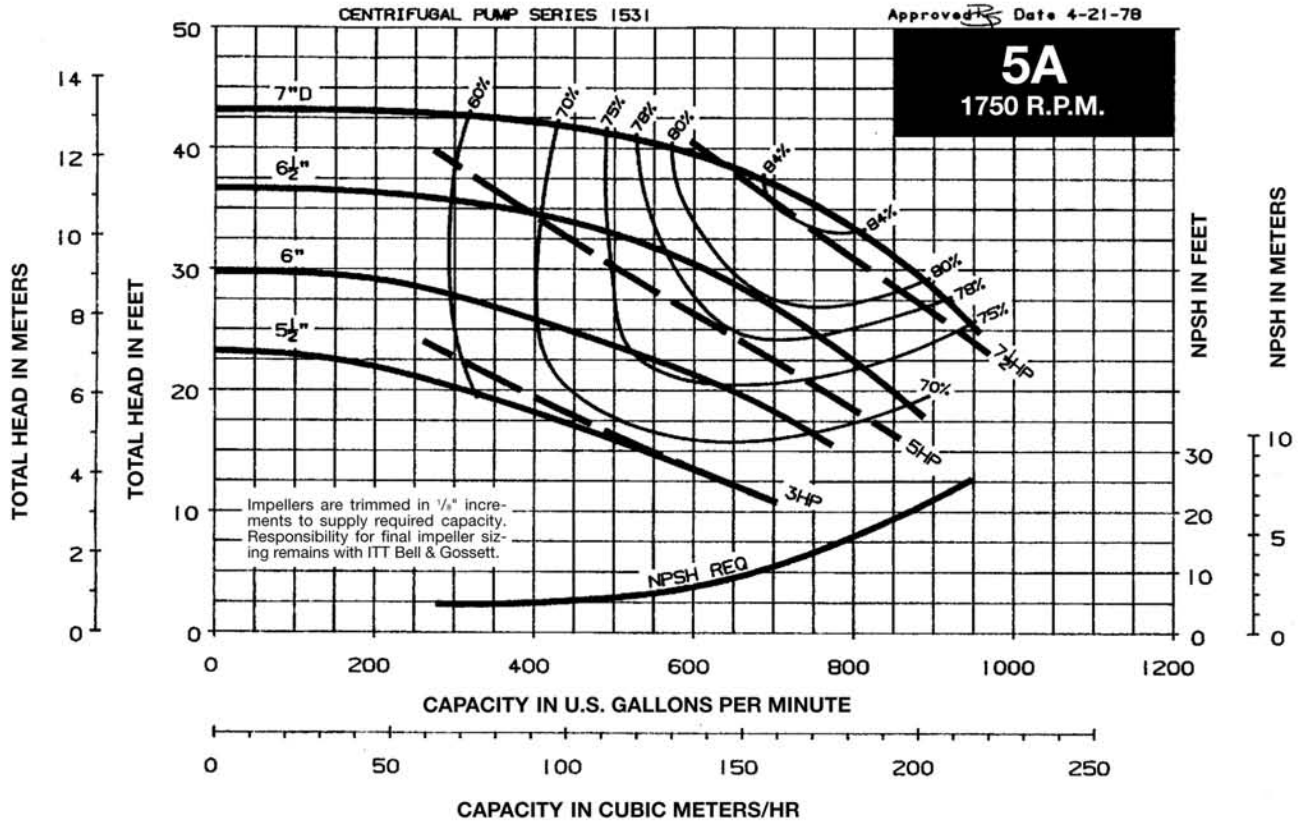


SERIES 1531

1750 RPM PUMP CURVES

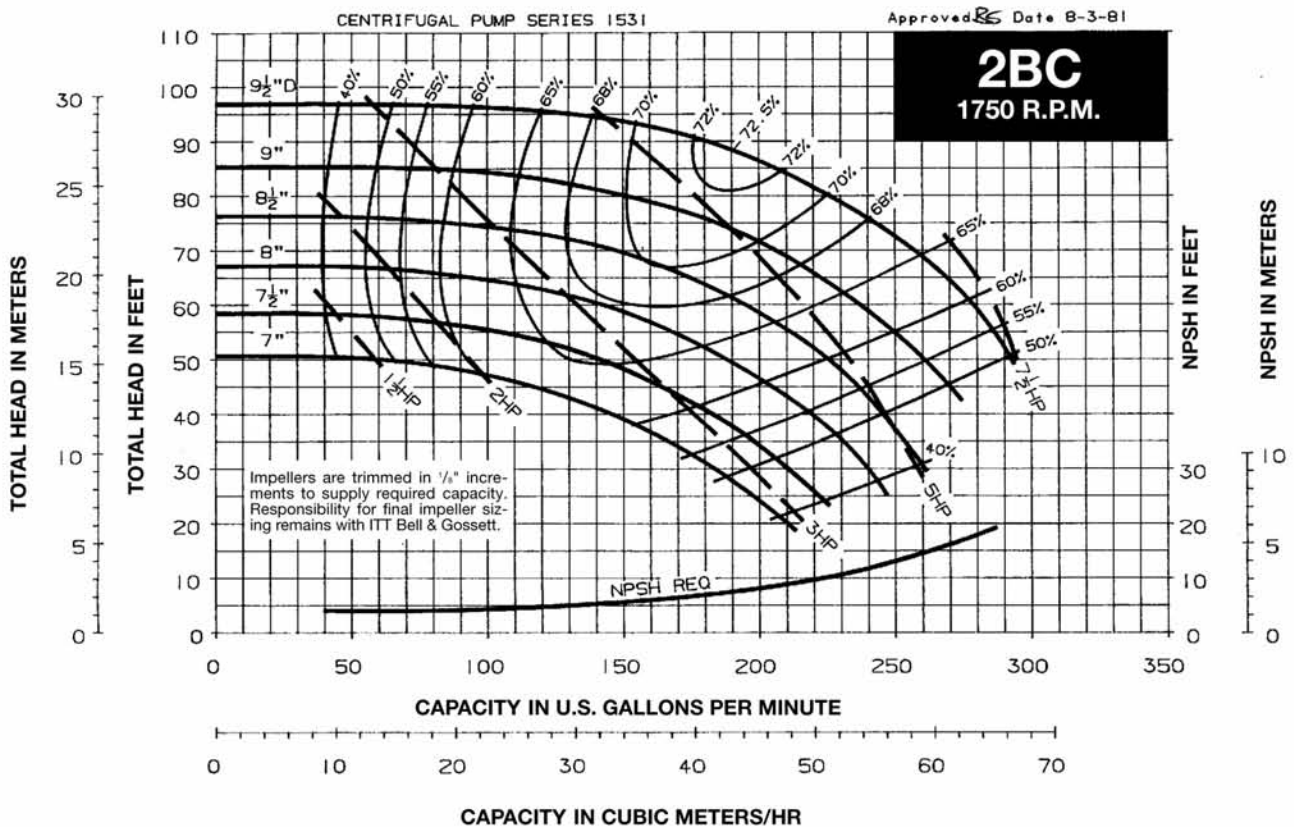
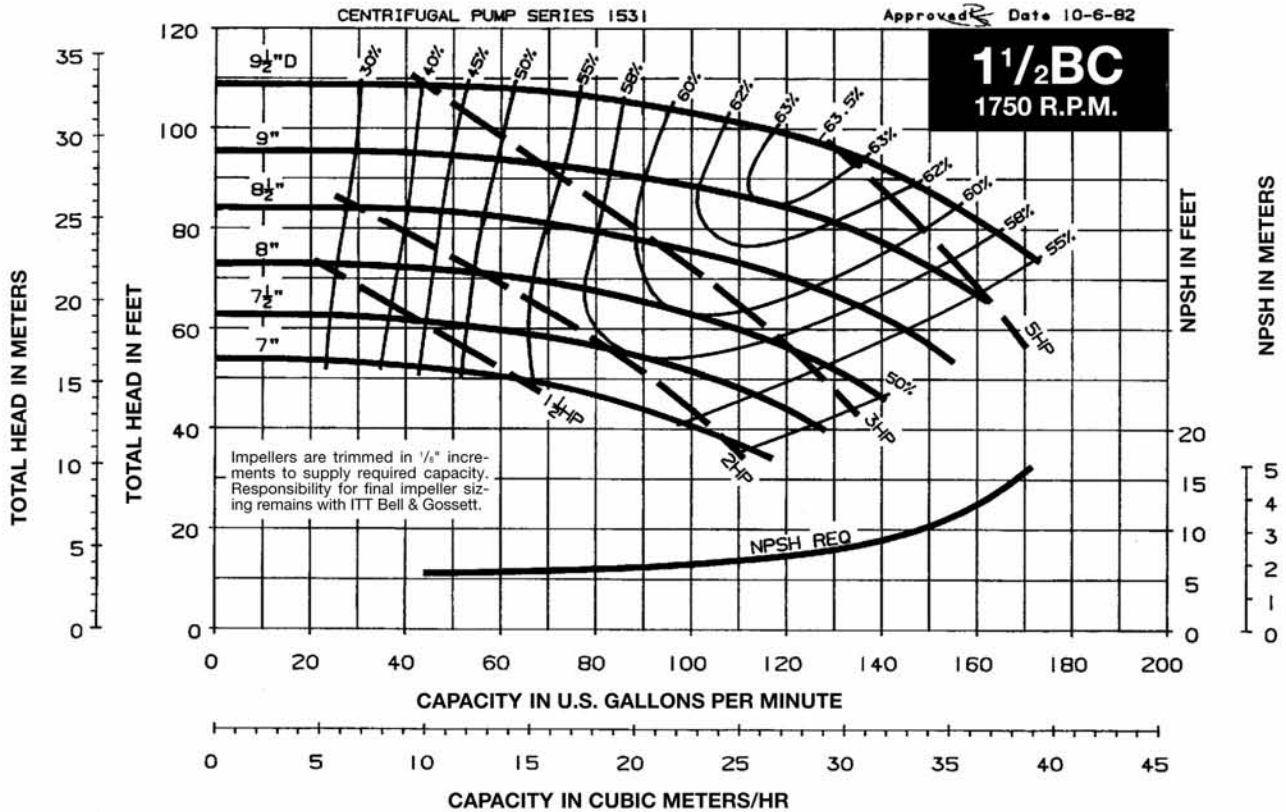


1750 RPM PUMP CURVES



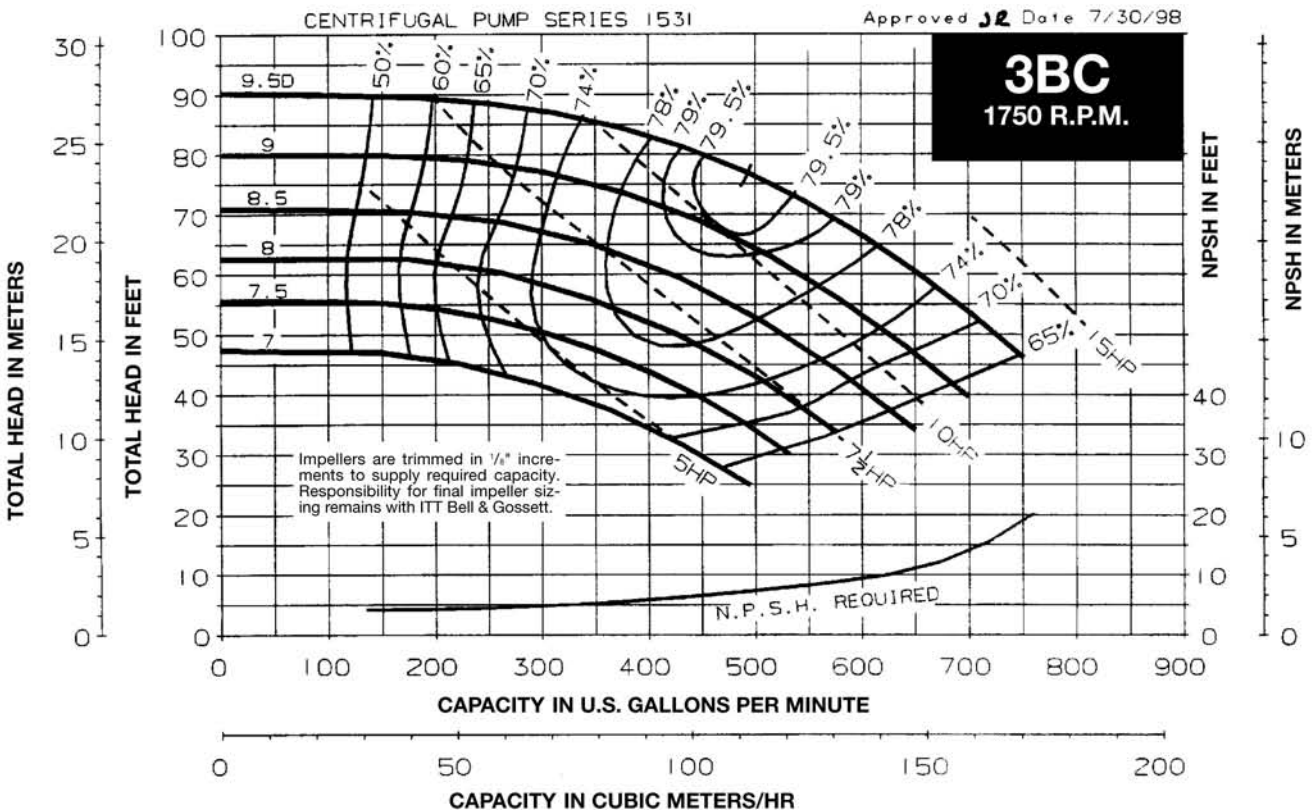
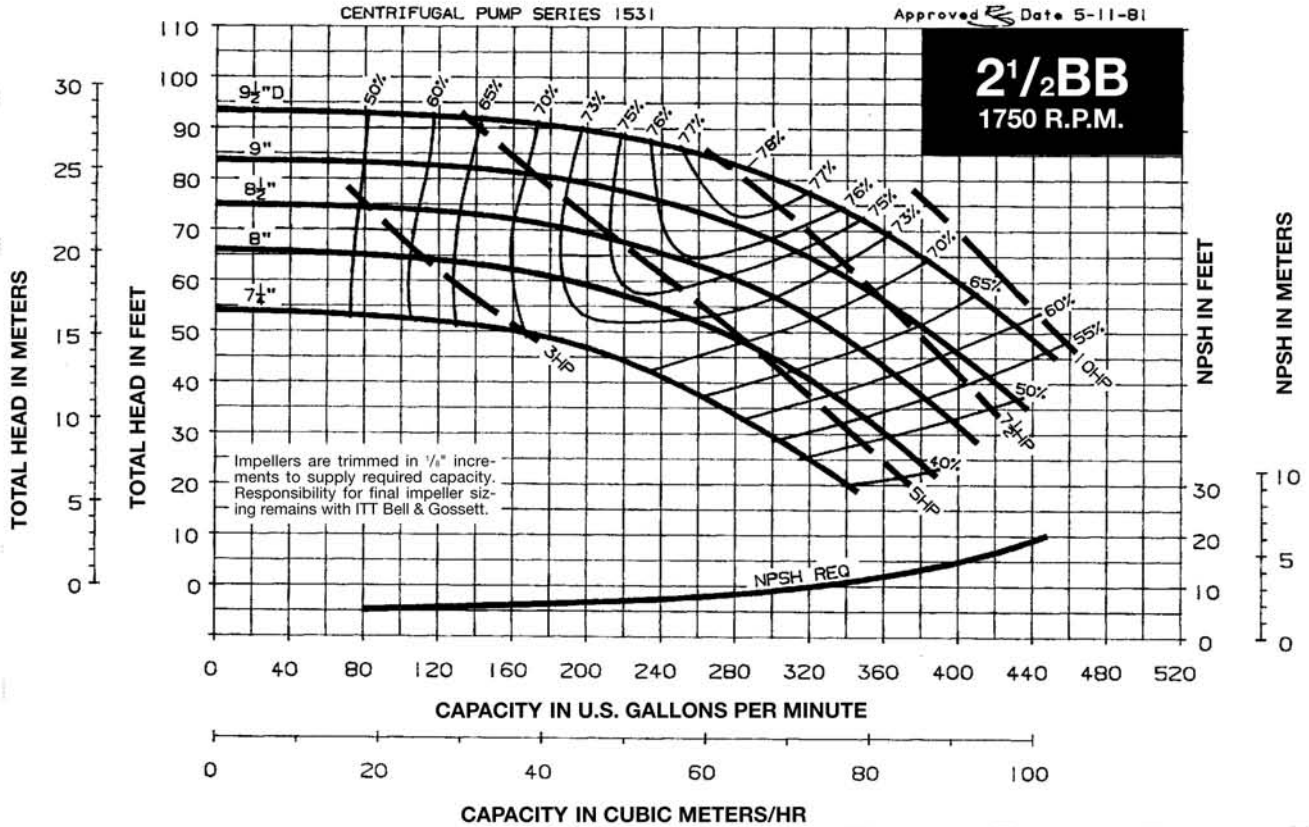
SERIES 1531

1750 RPM PUMP CURVES



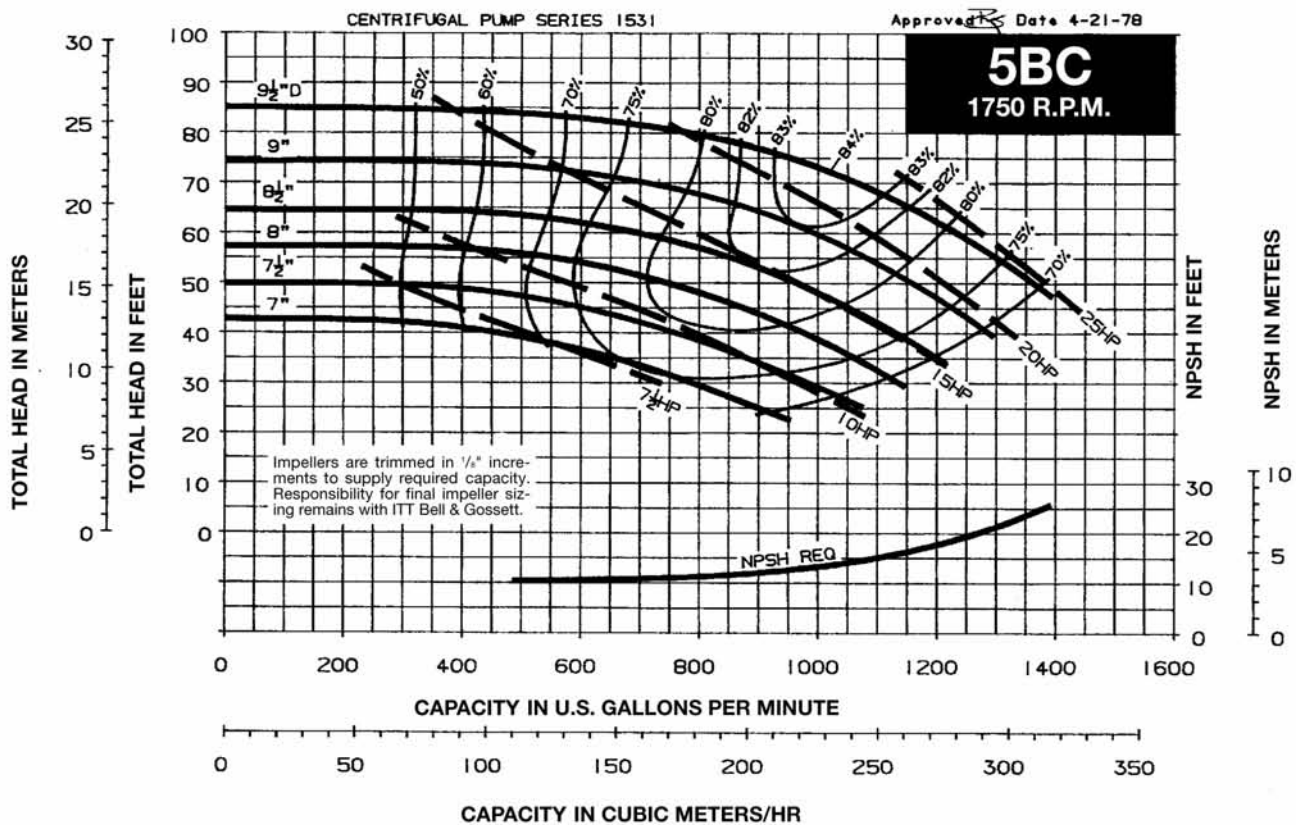
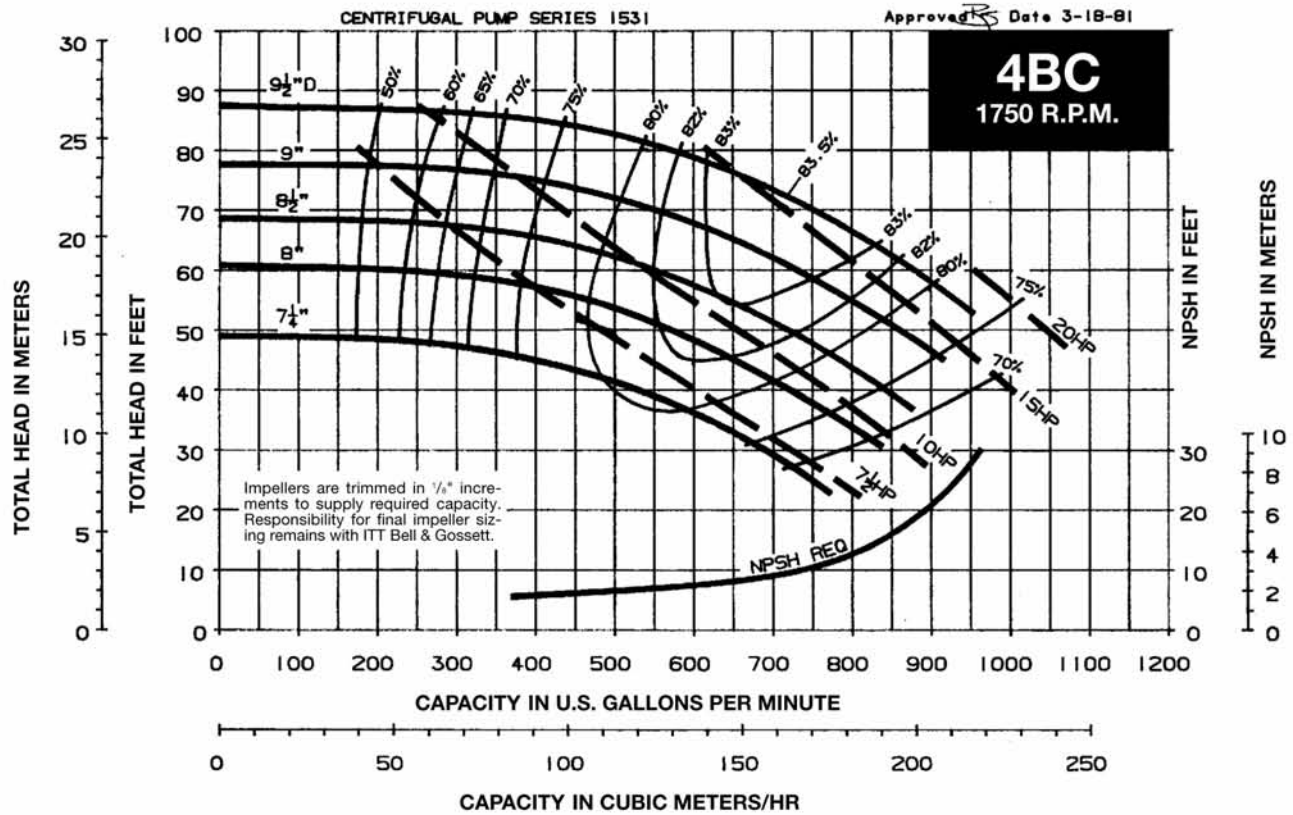
SERIES 1531

1750 RPM PUMP CURVES



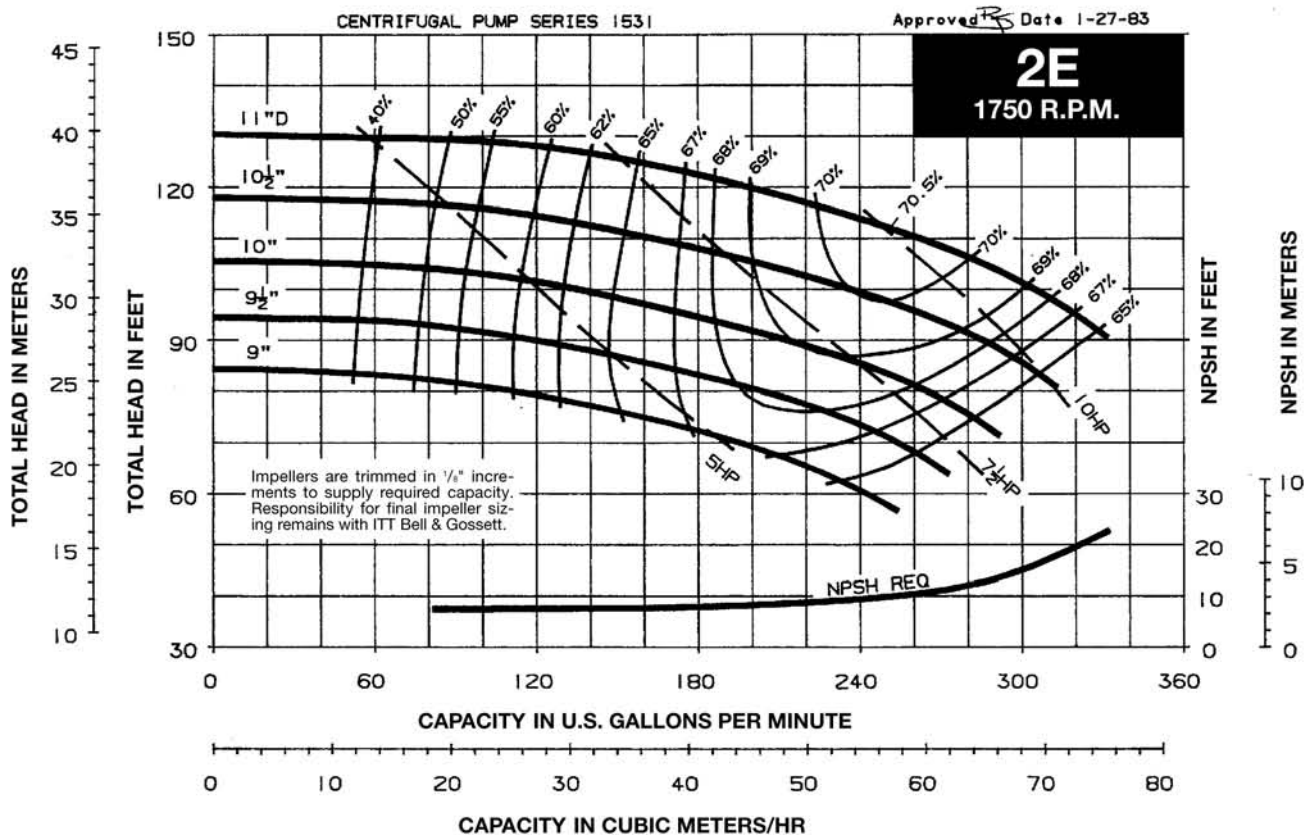
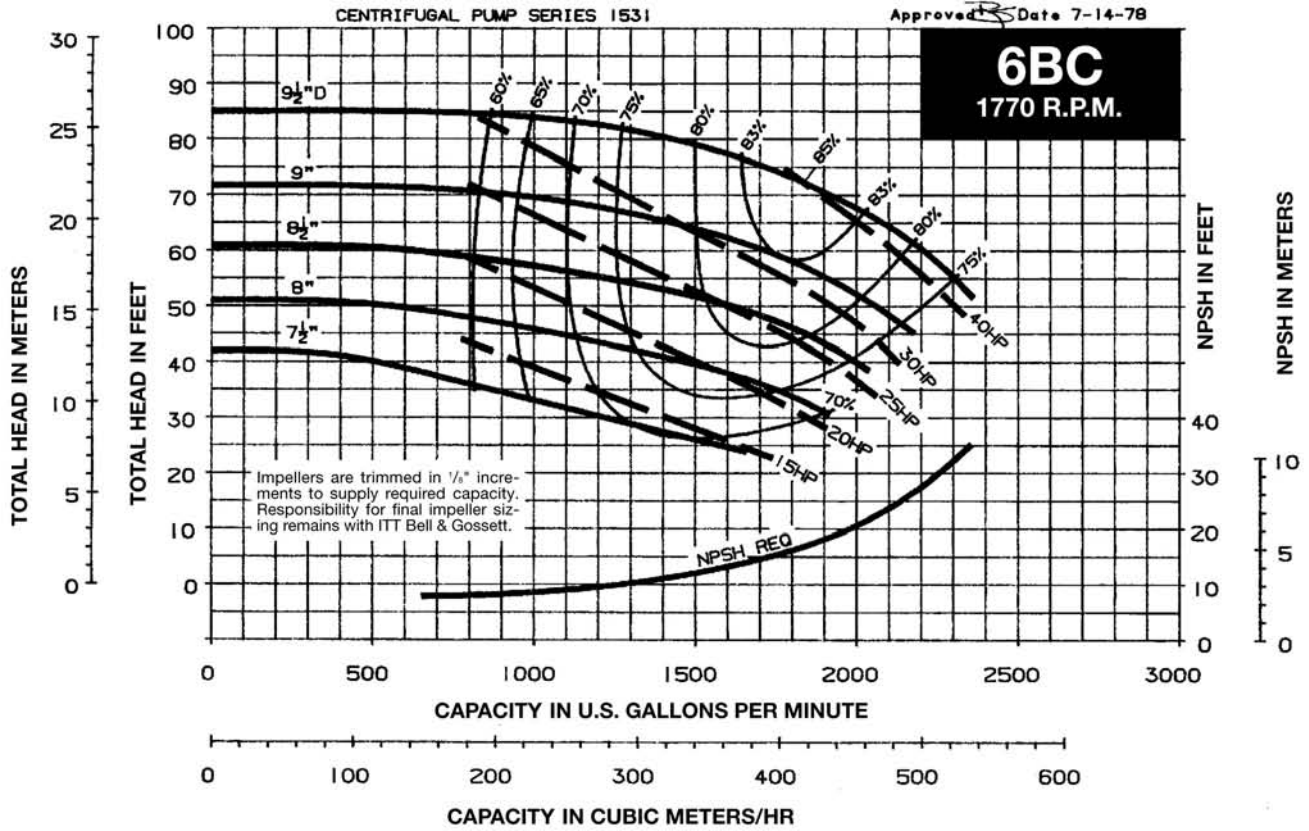
SERIES 1531

1750 RPM PUMP CURVES



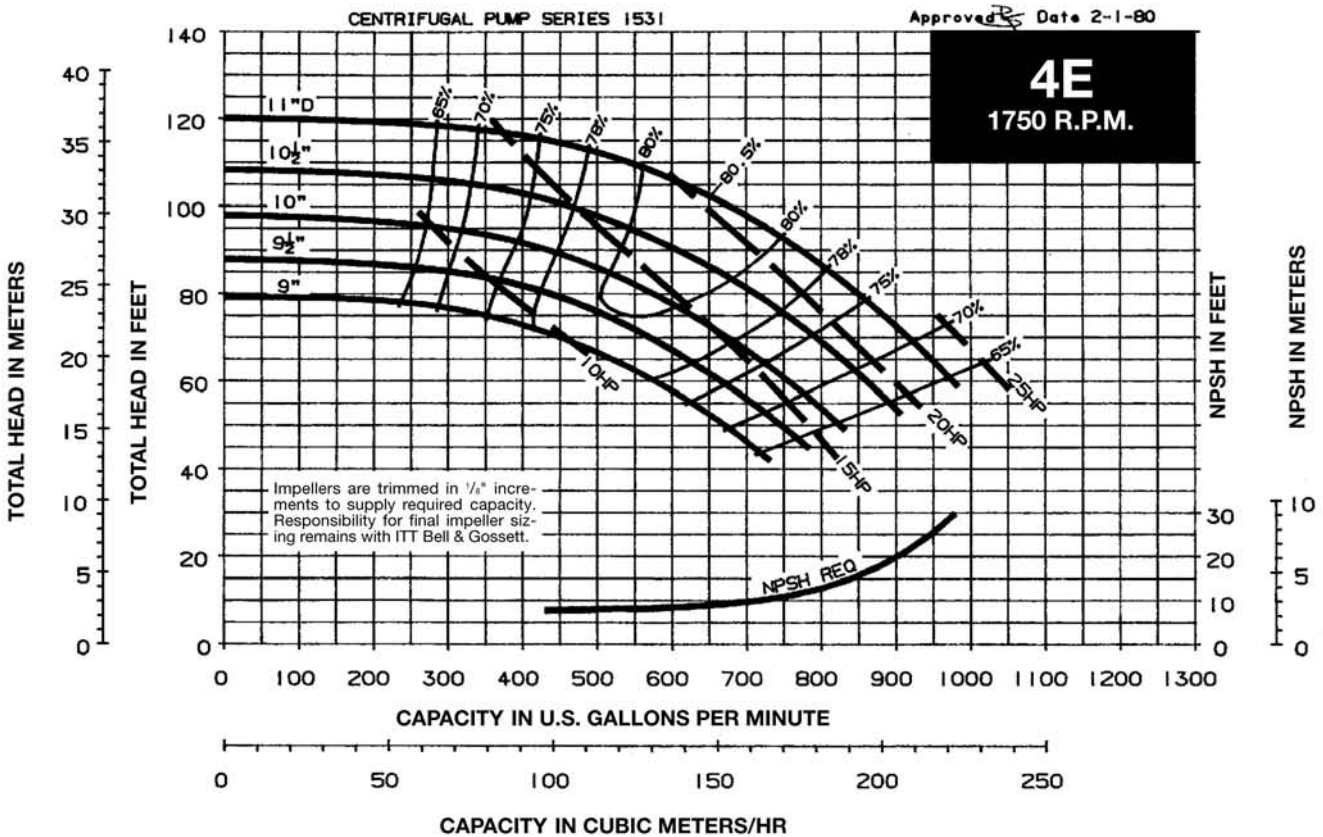
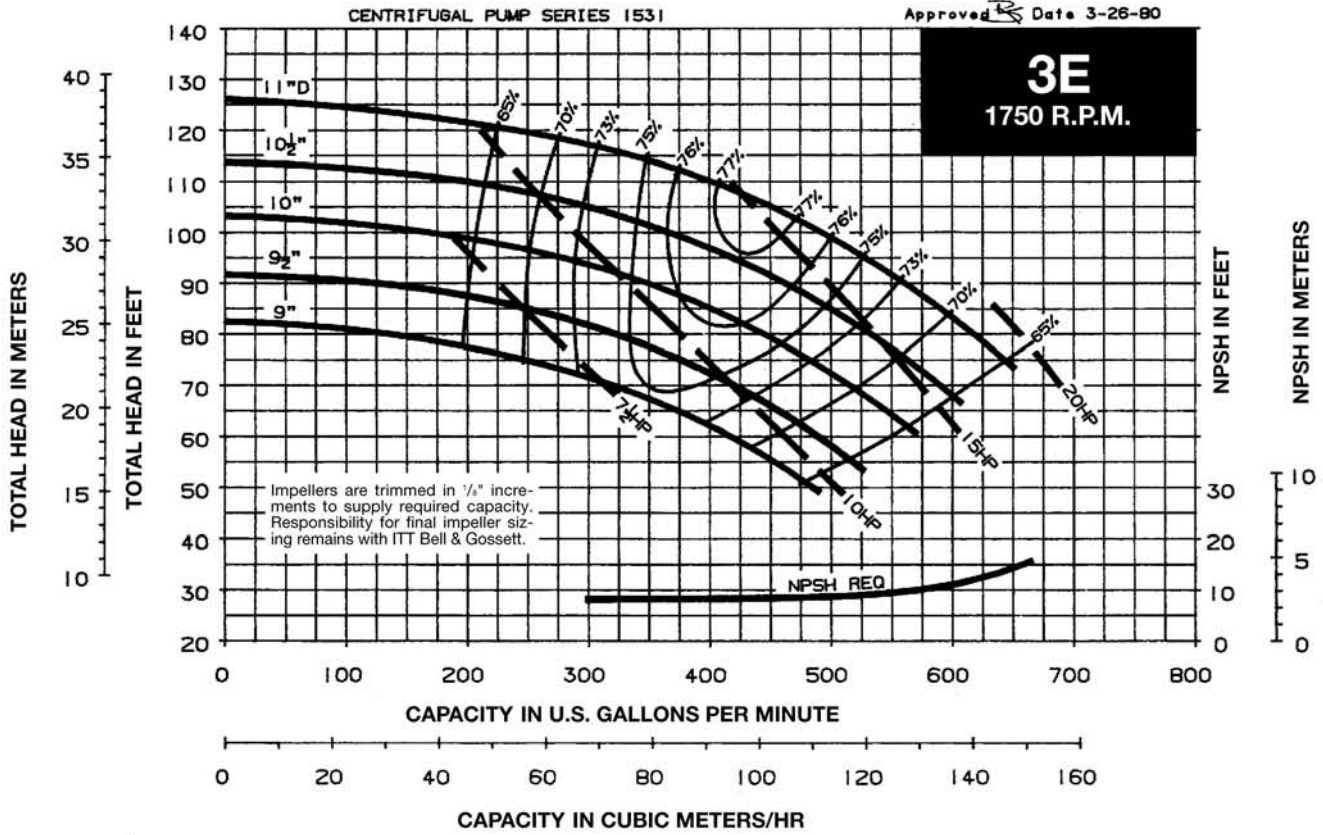
SERIES 1531

1750 RPM PUMP CURVES



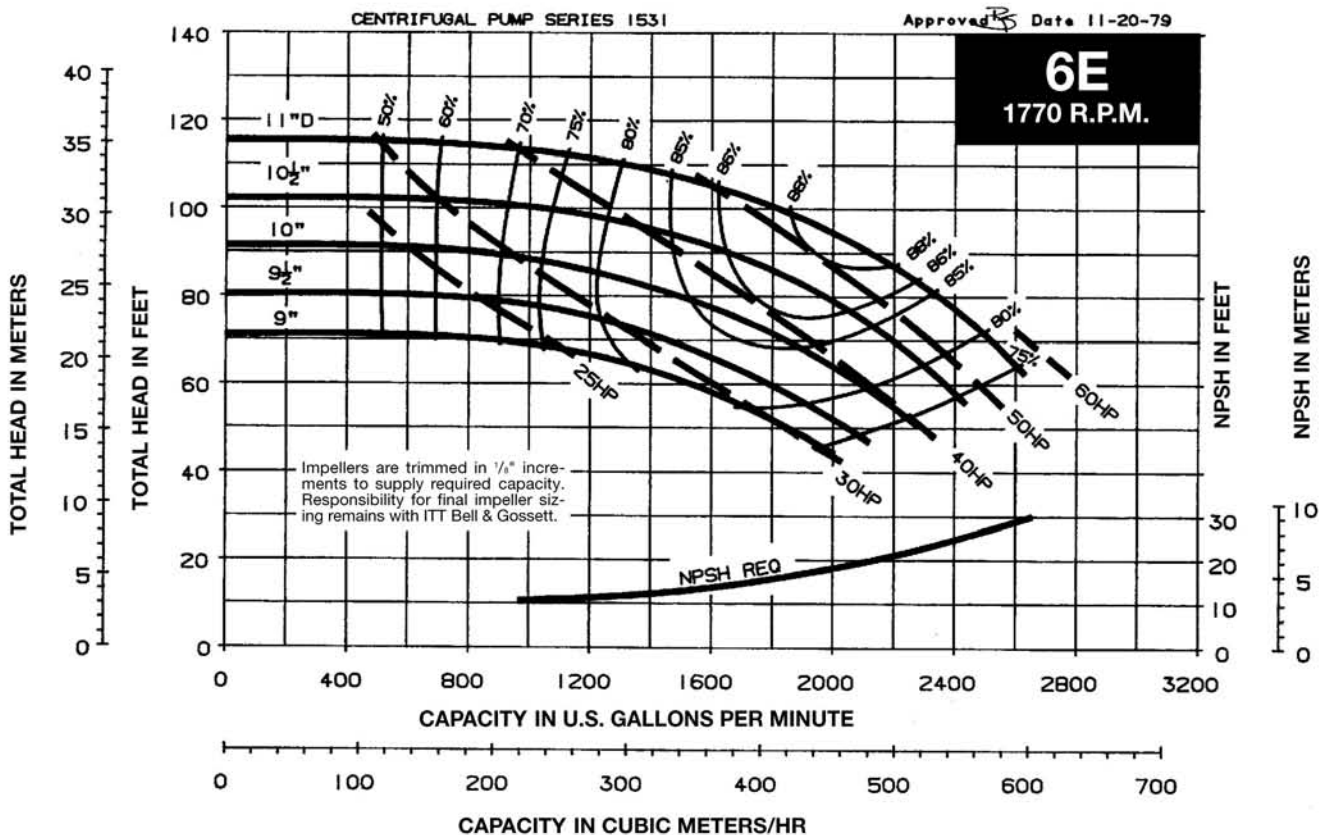
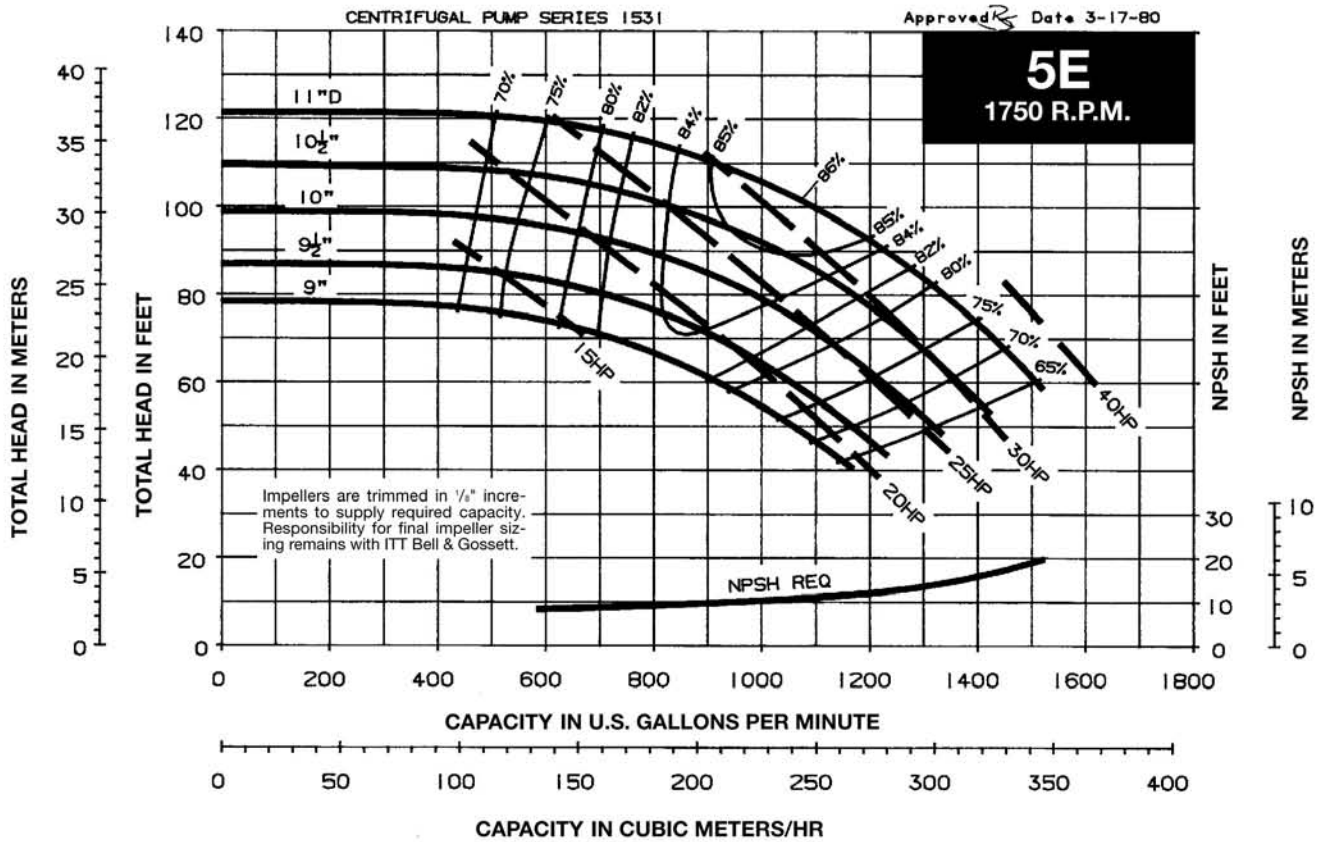
SERIES 1531

1750 RPM PUMP CURVES



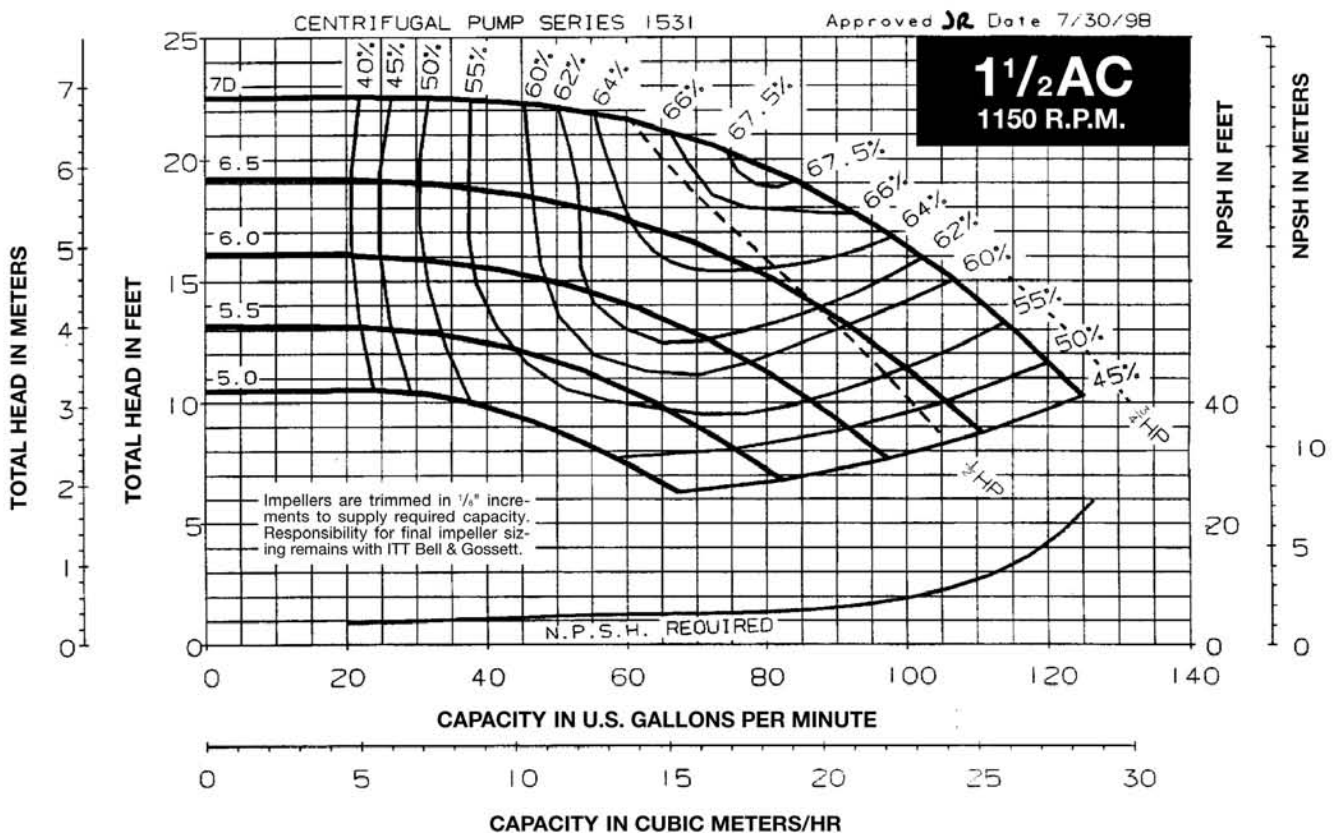
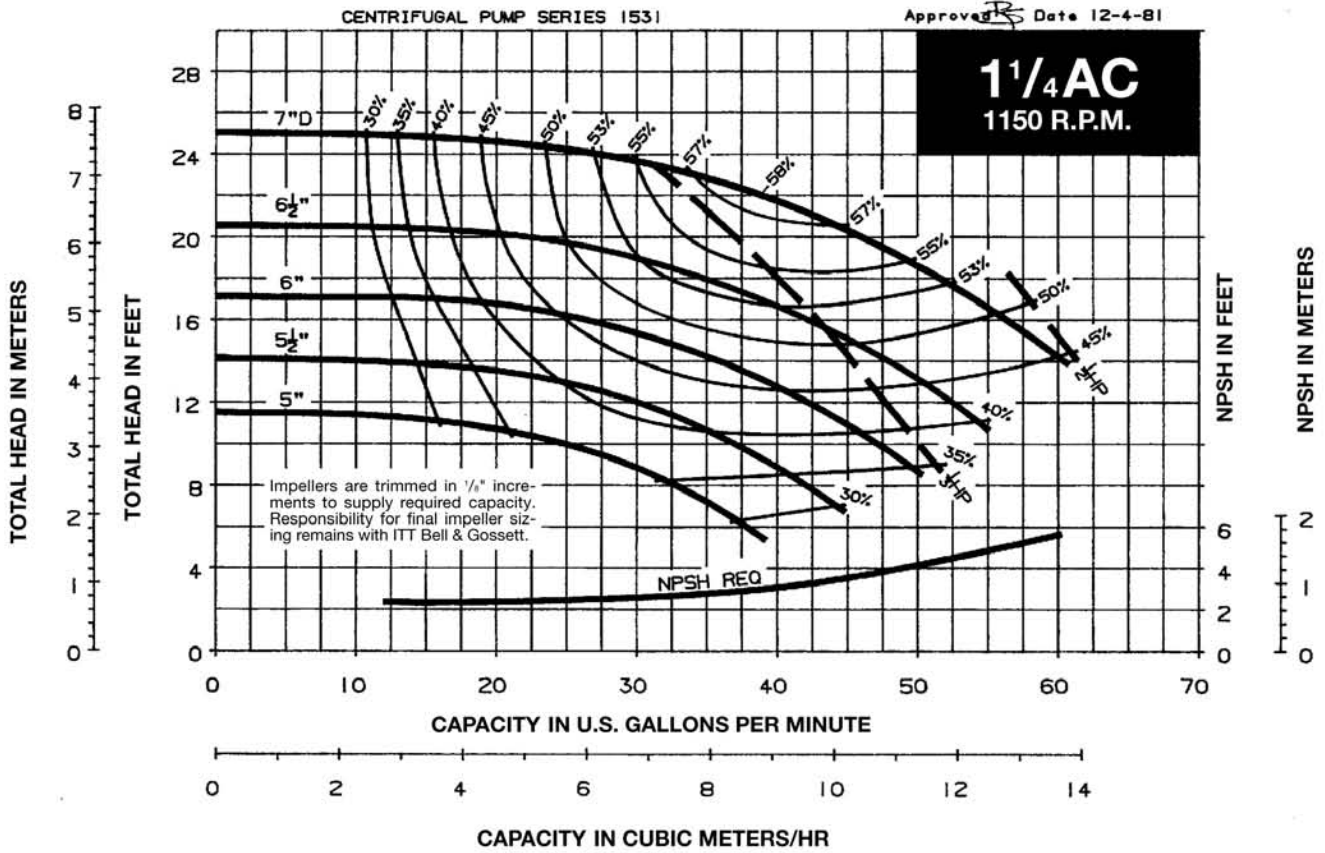
SERIES 1531

1750 RPM PUMP CURVES

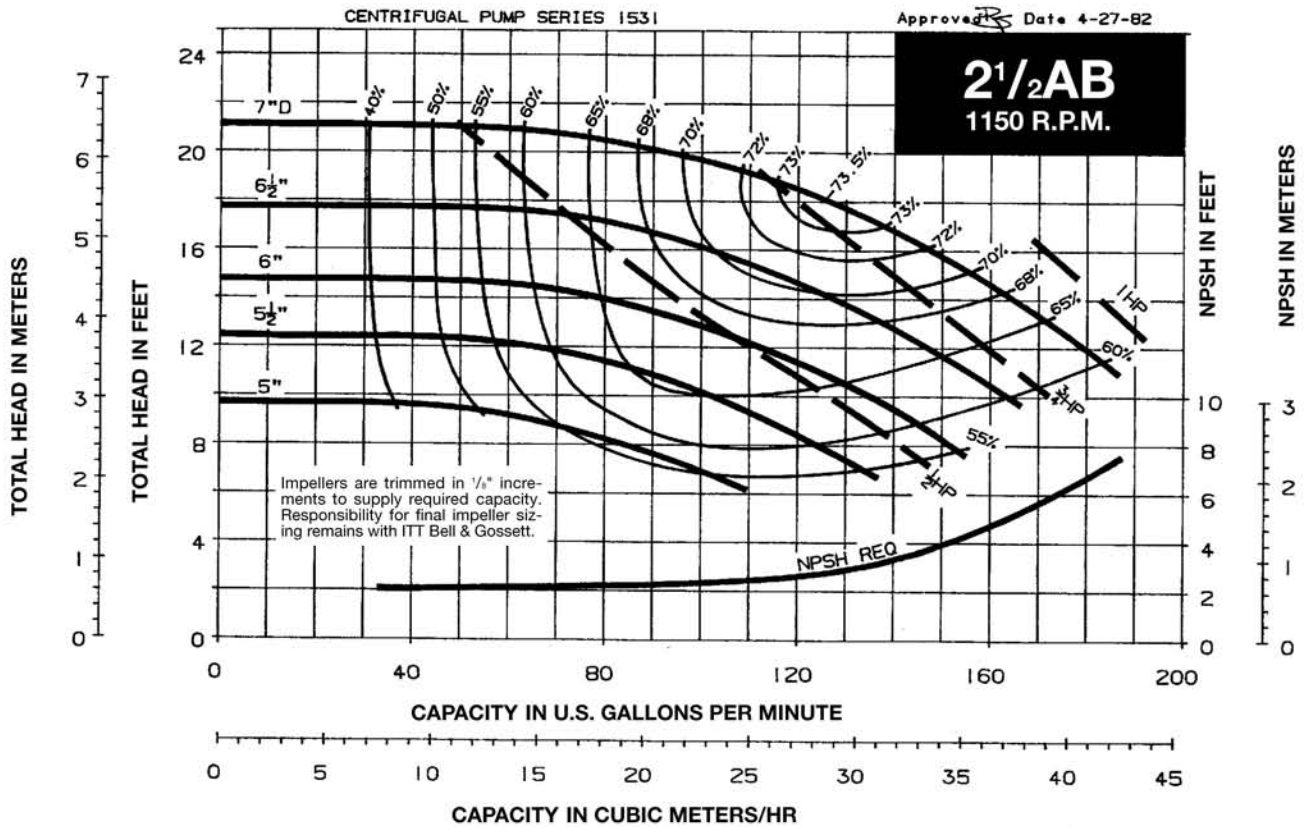
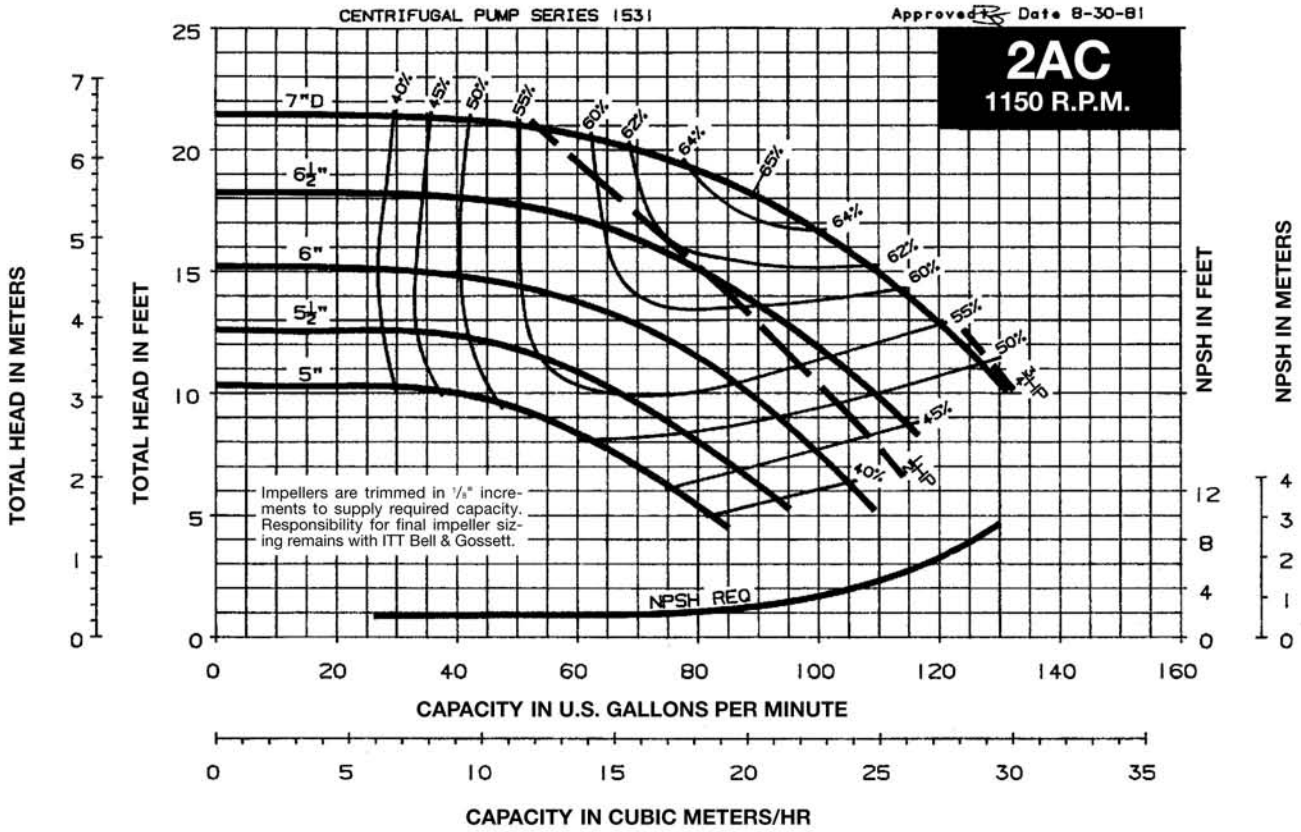


SERIES 1531

1150 RPM PUMP CURVES

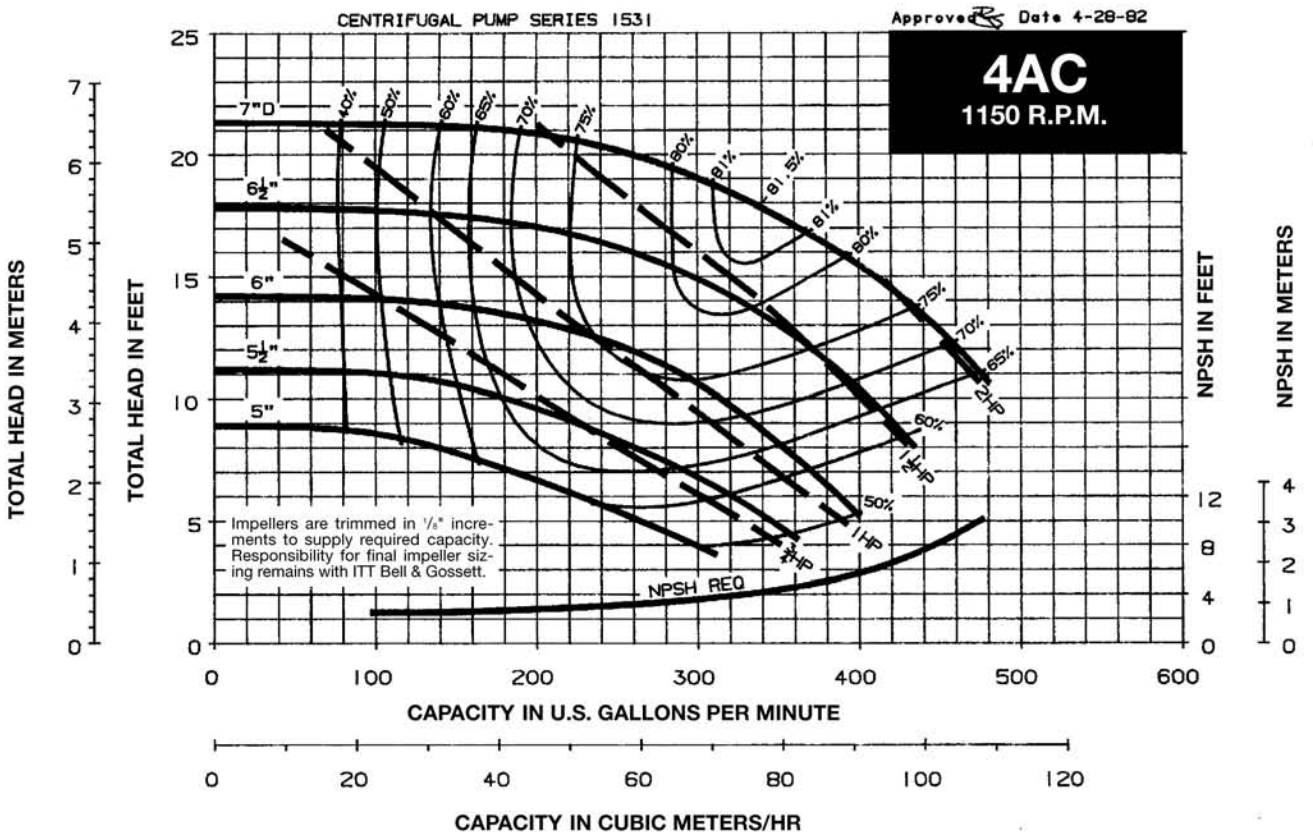
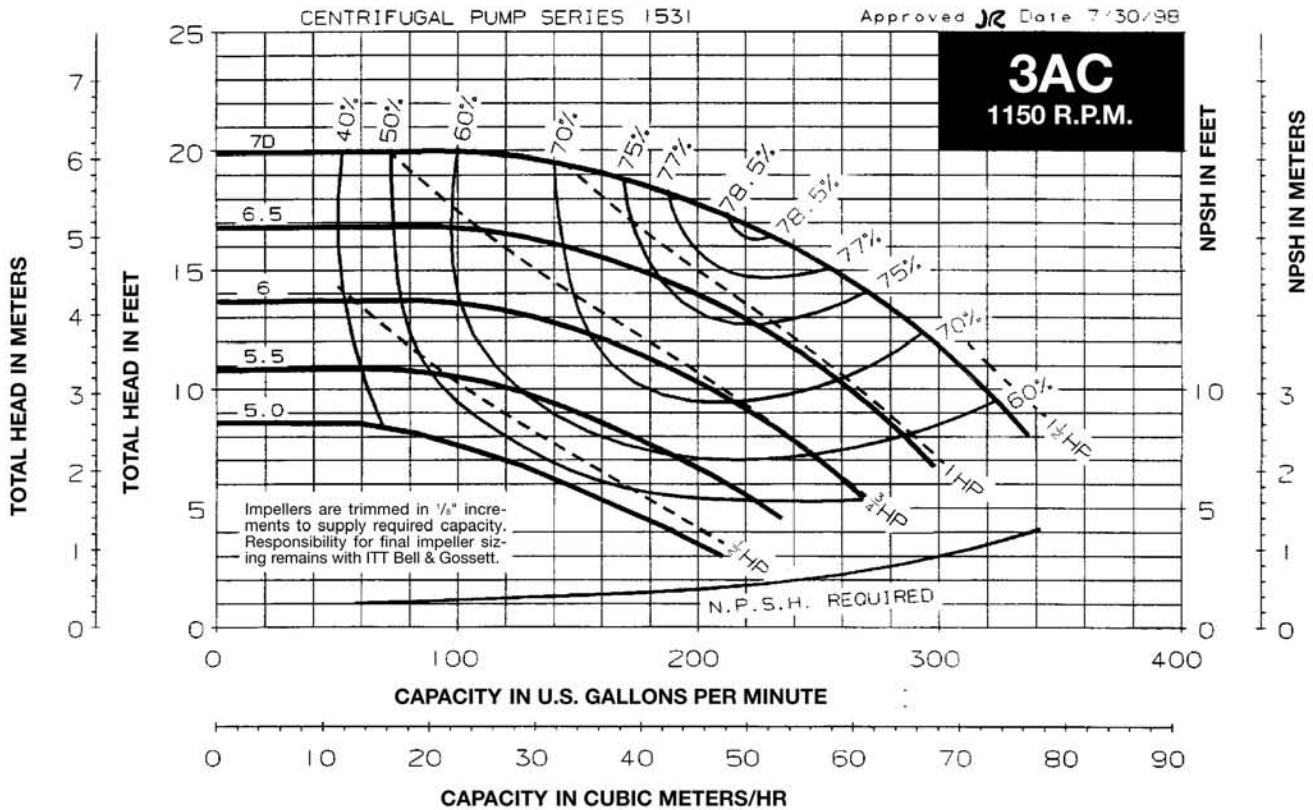


1150 RPM PUMP CURVES

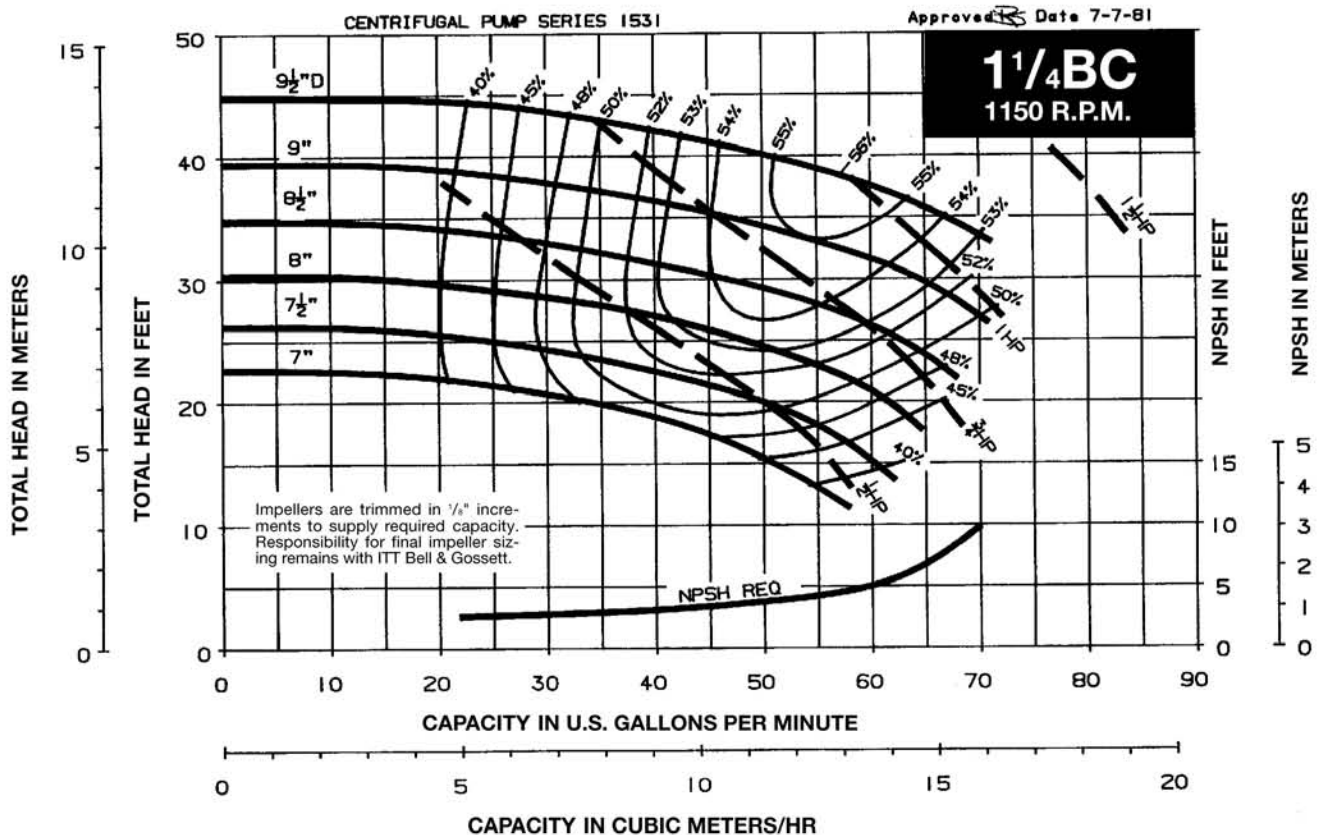
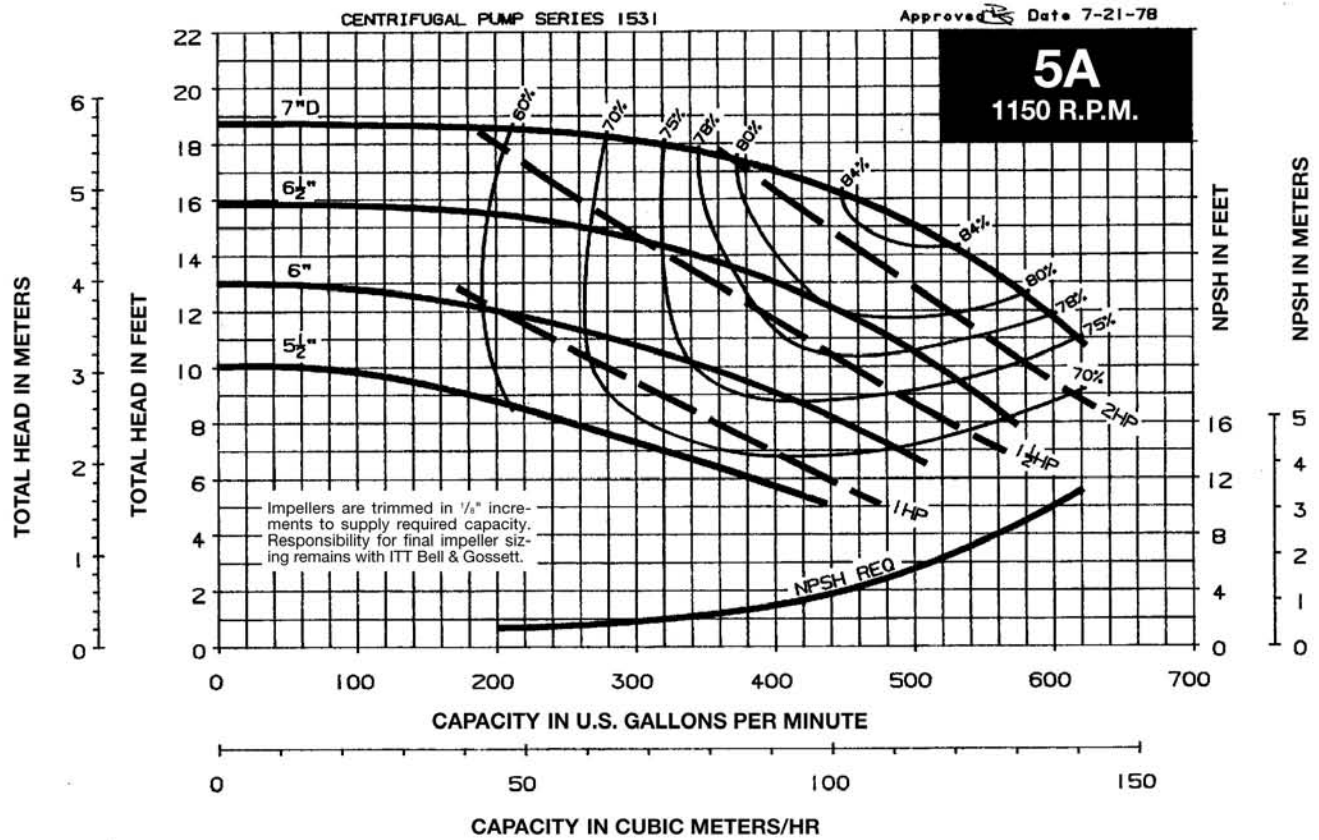


SERIES 1531

1150 RPM PUMP CURVES

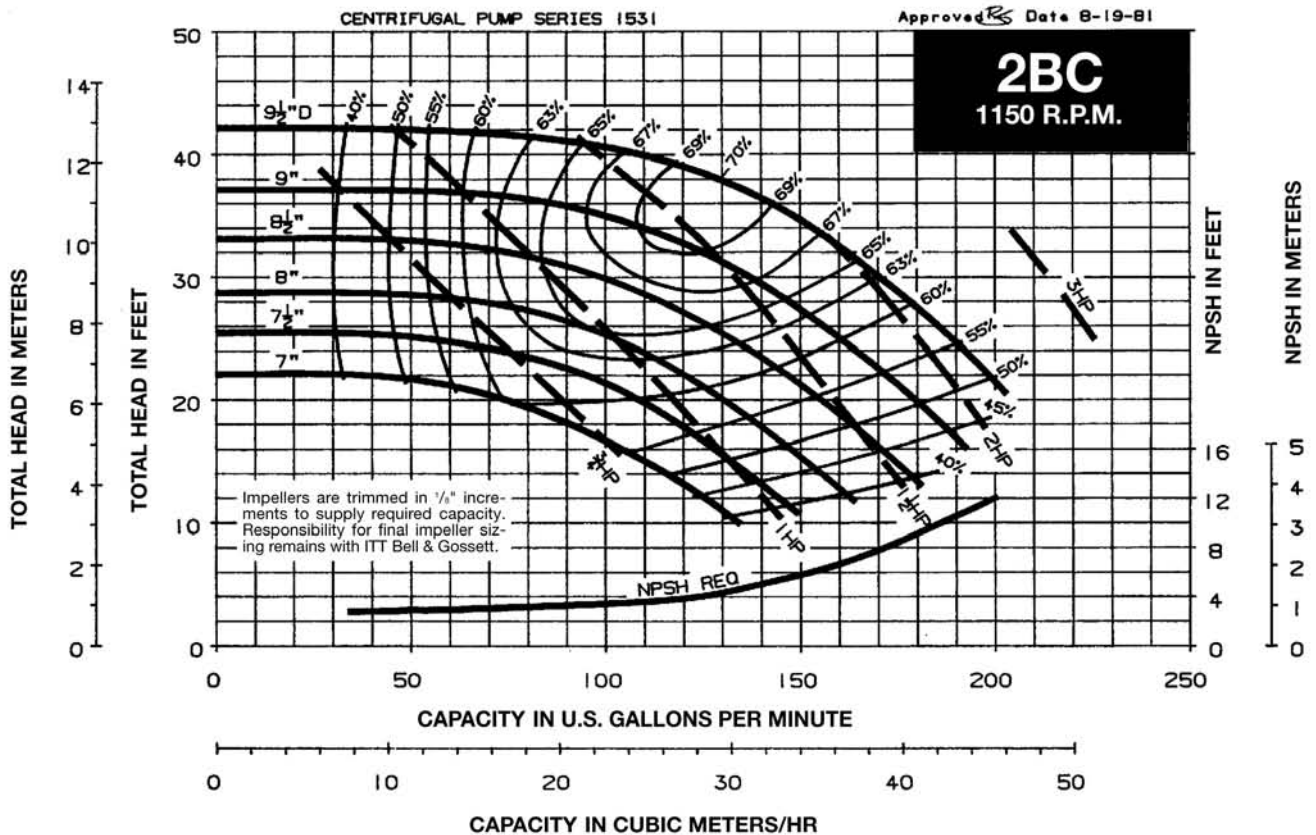
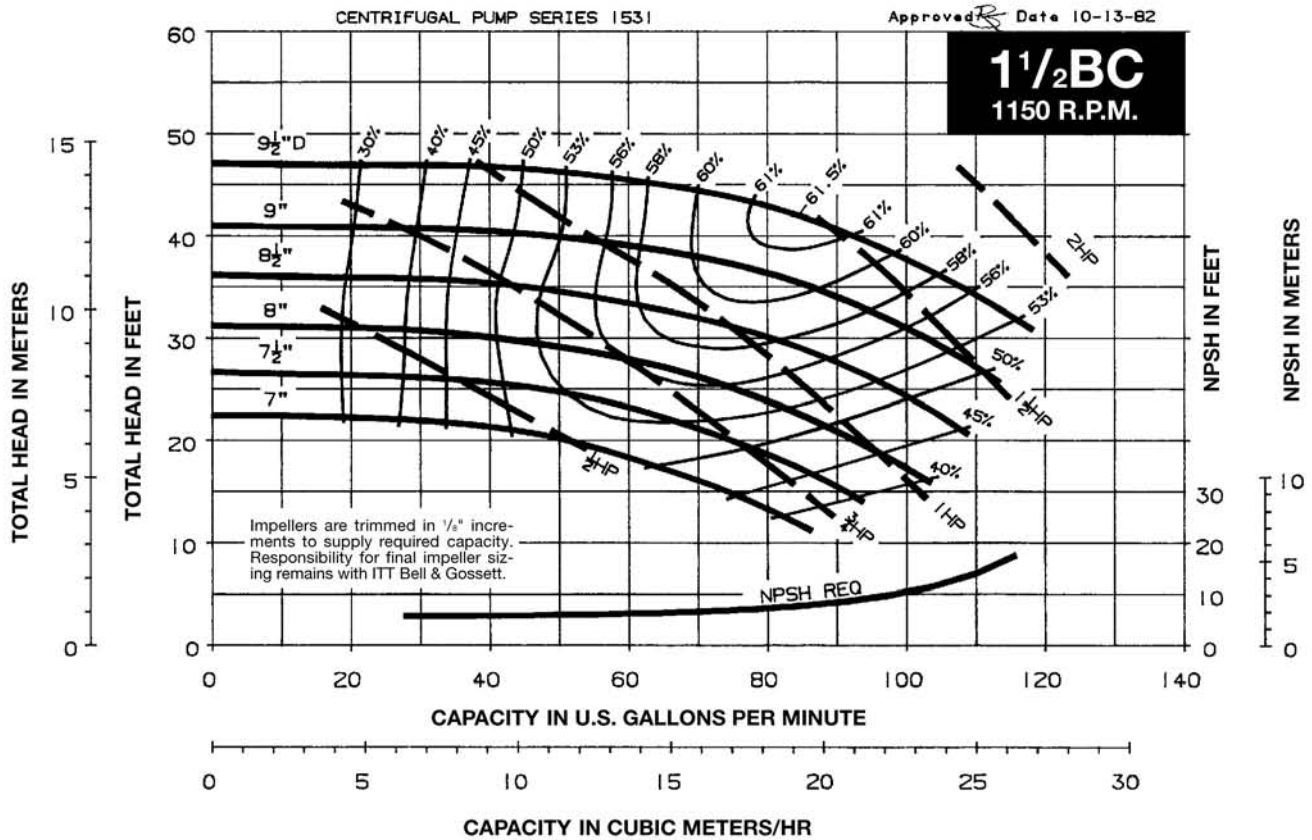


1150 RPM PUMP CURVES



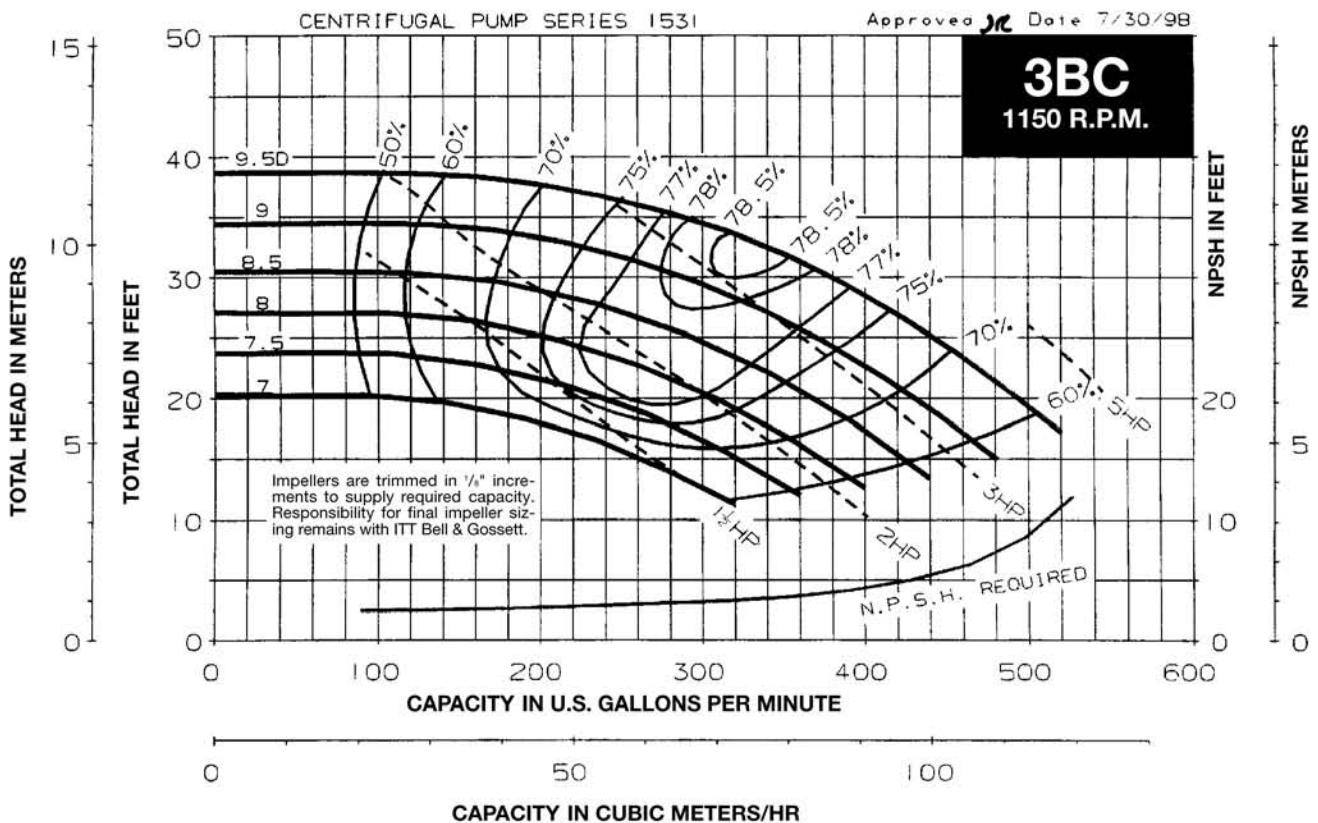
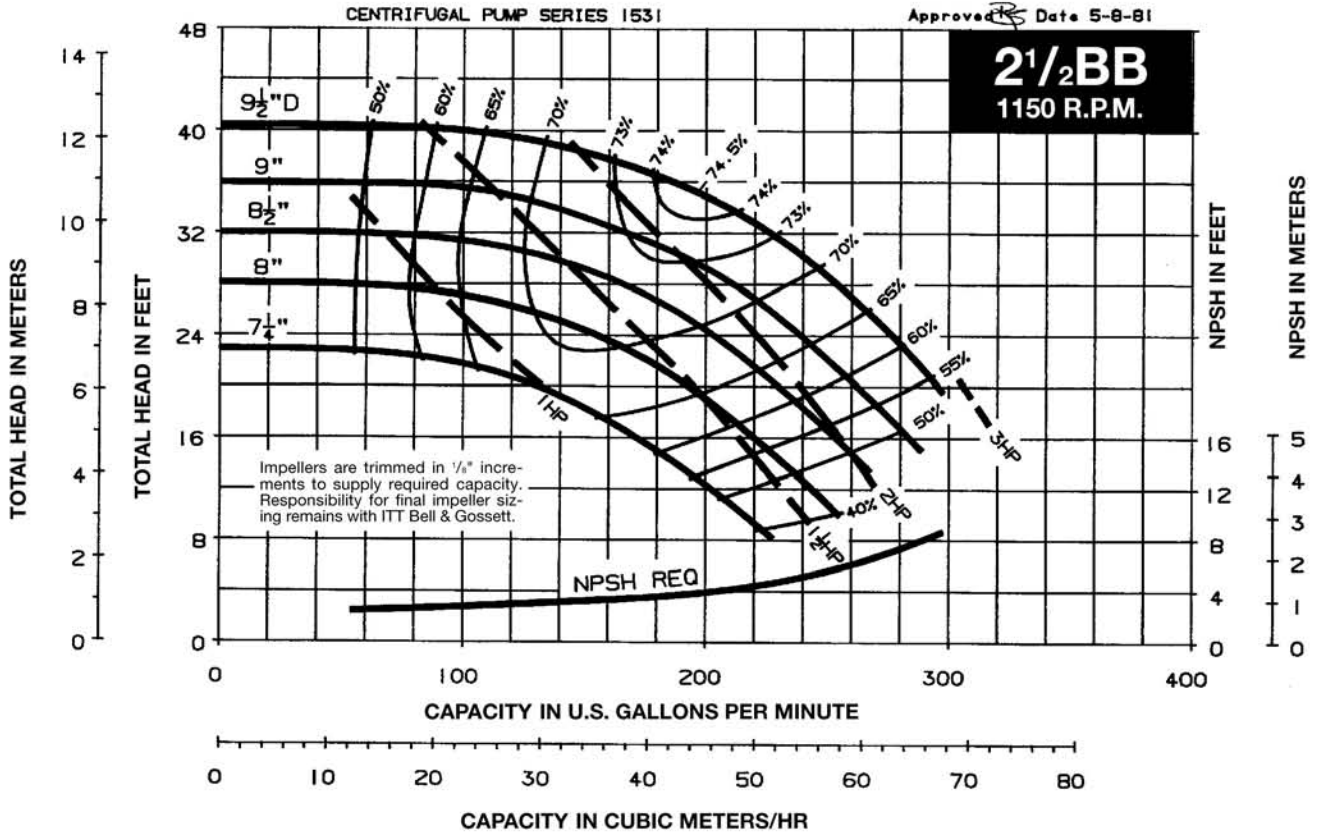
SERIES 1531

1150 RPM PUMP CURVES



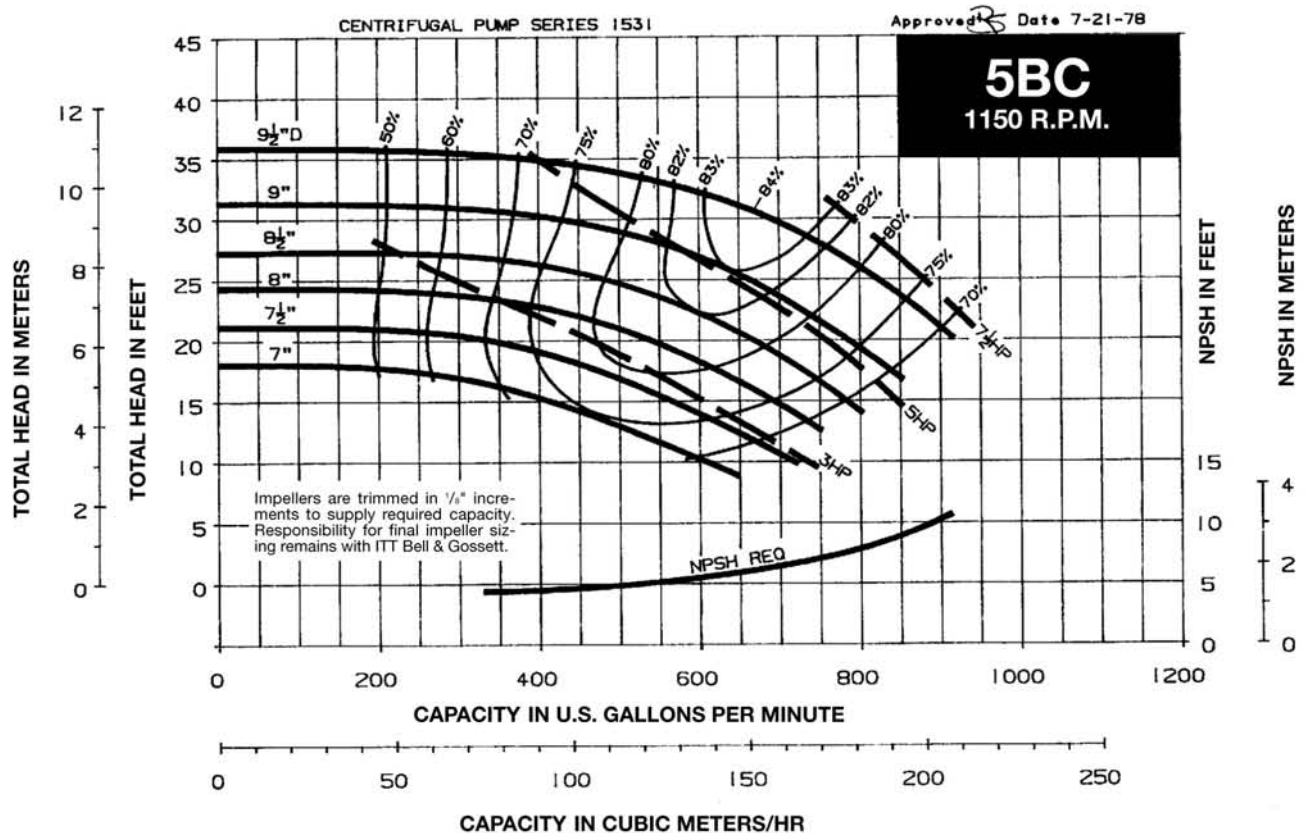
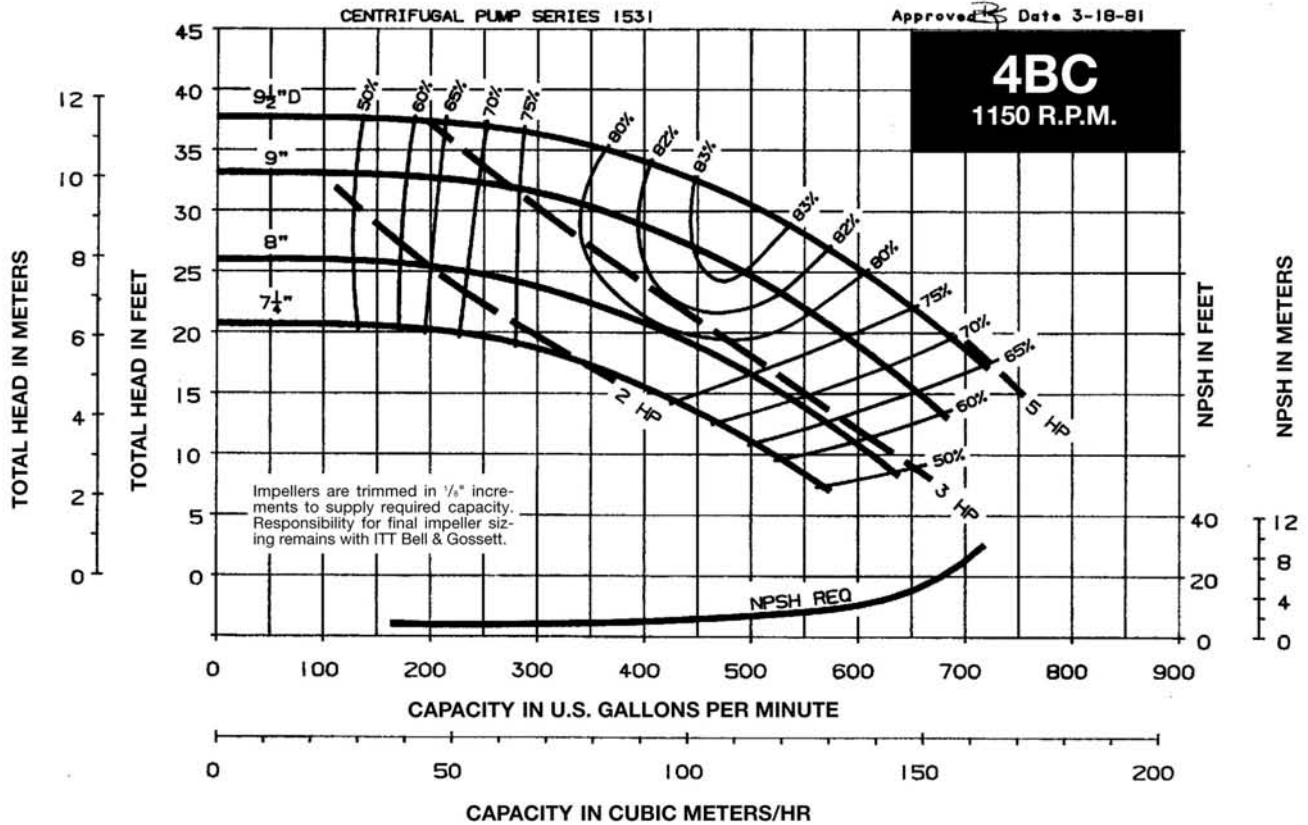
SERIES 1531

1150 RPM PUMP CURVES



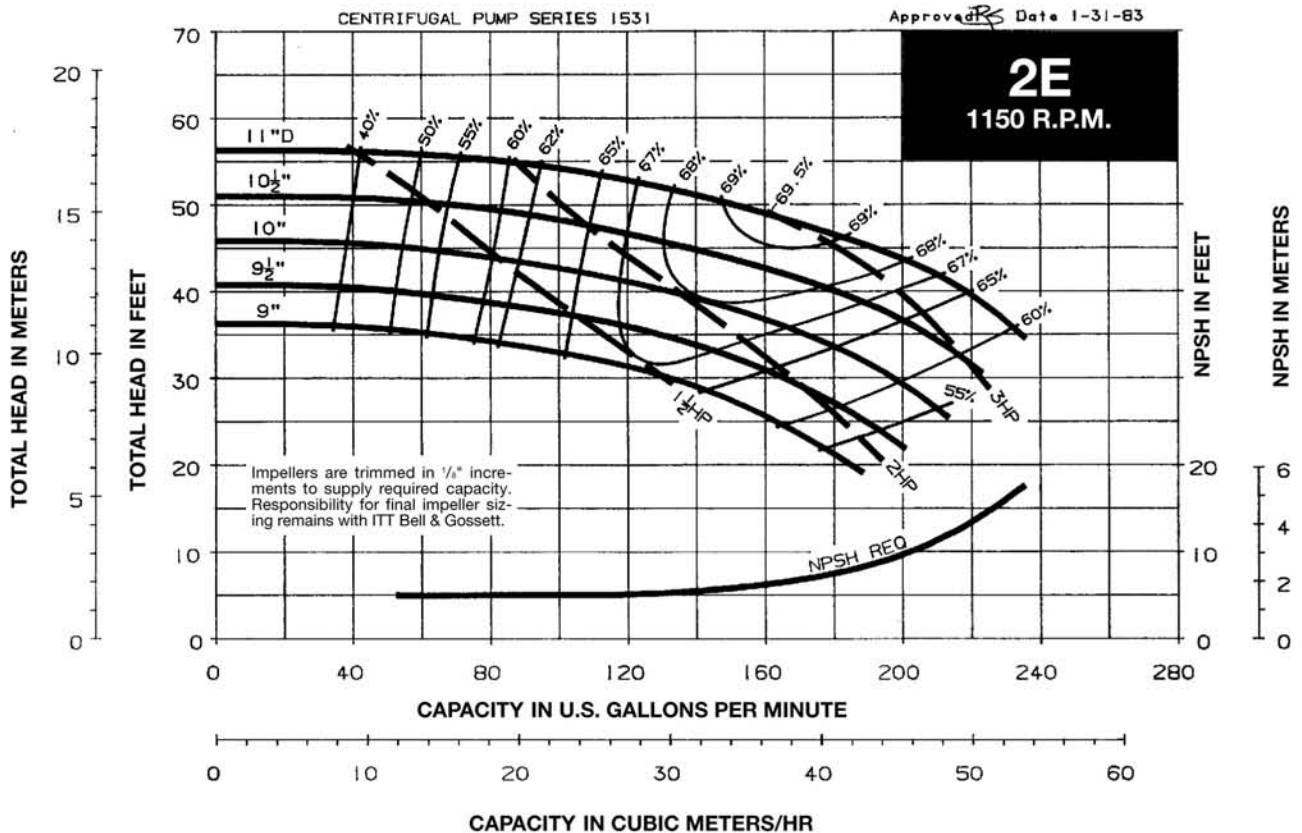
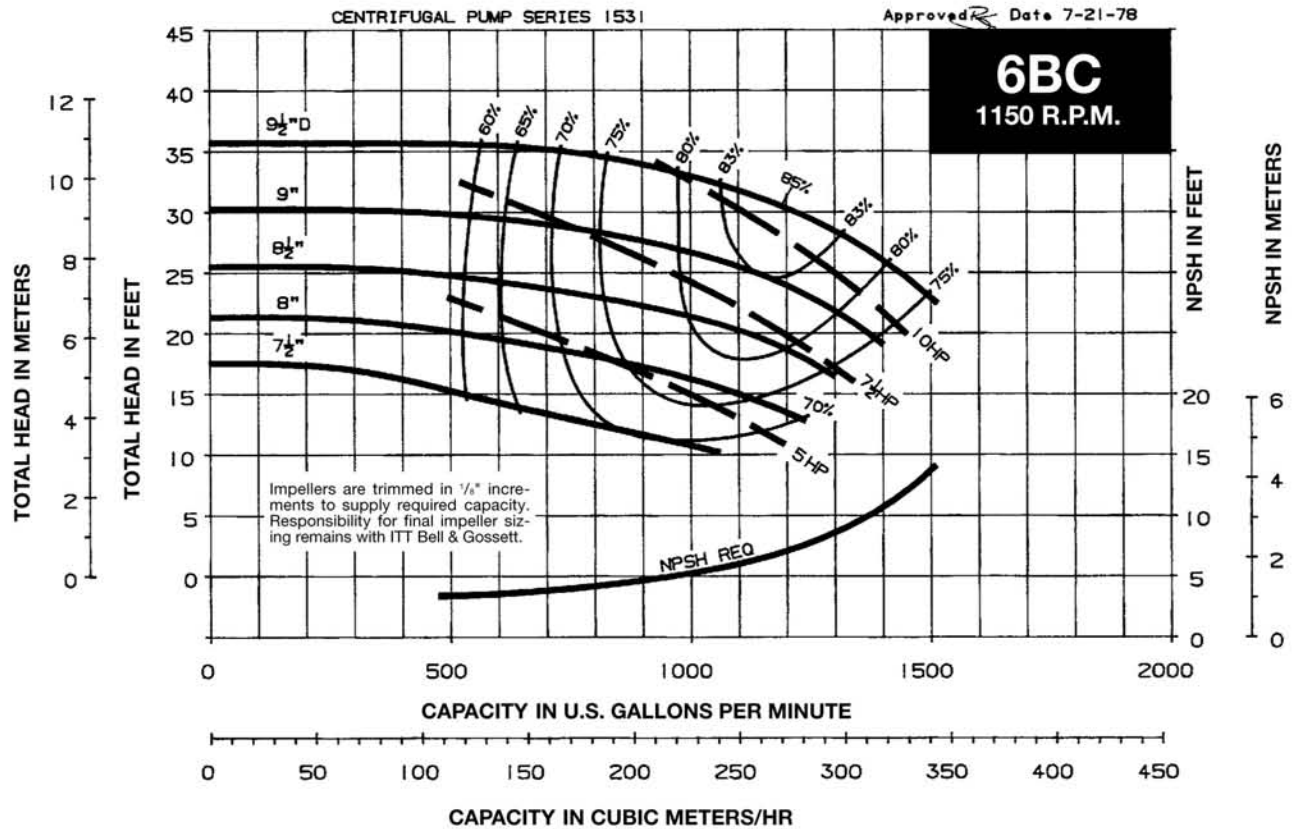
SERIES 1531

1150 RPM PUMP CURVES



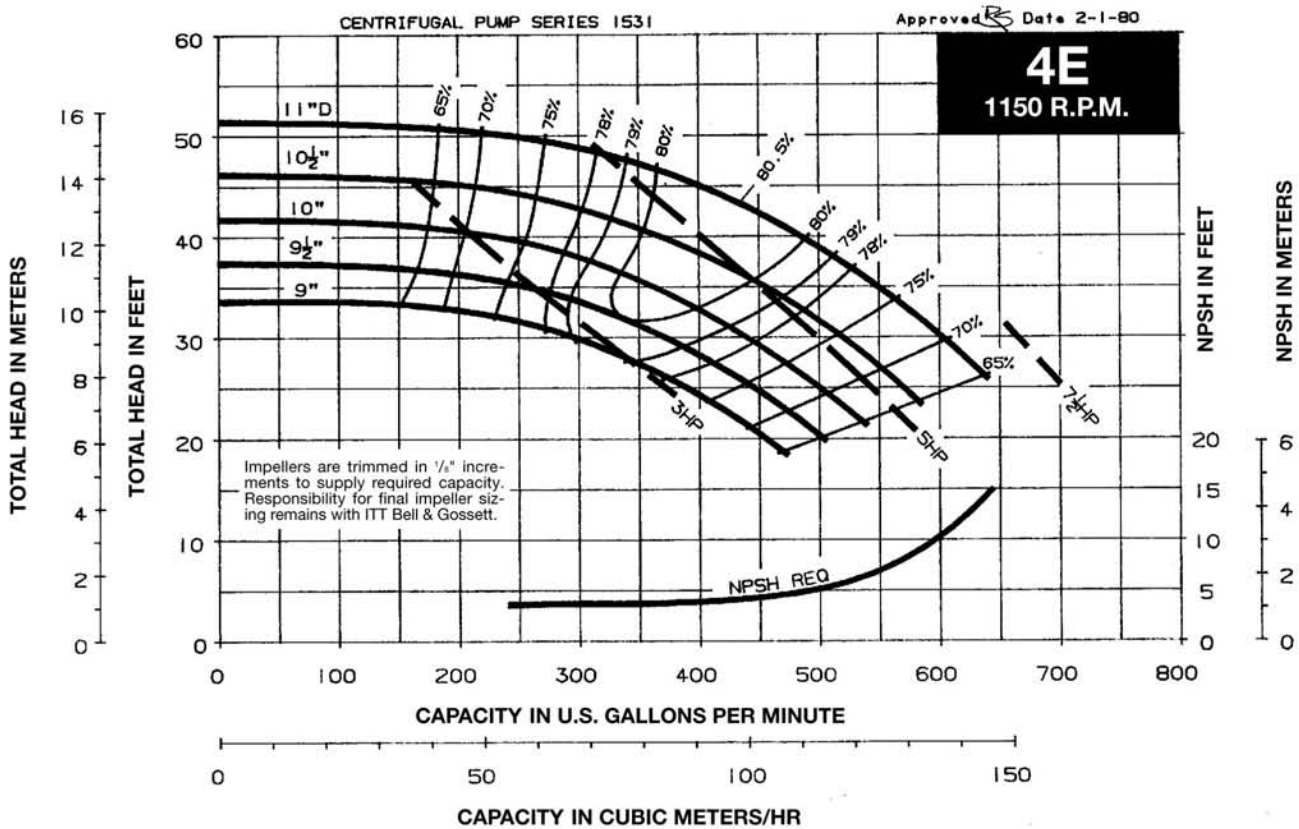
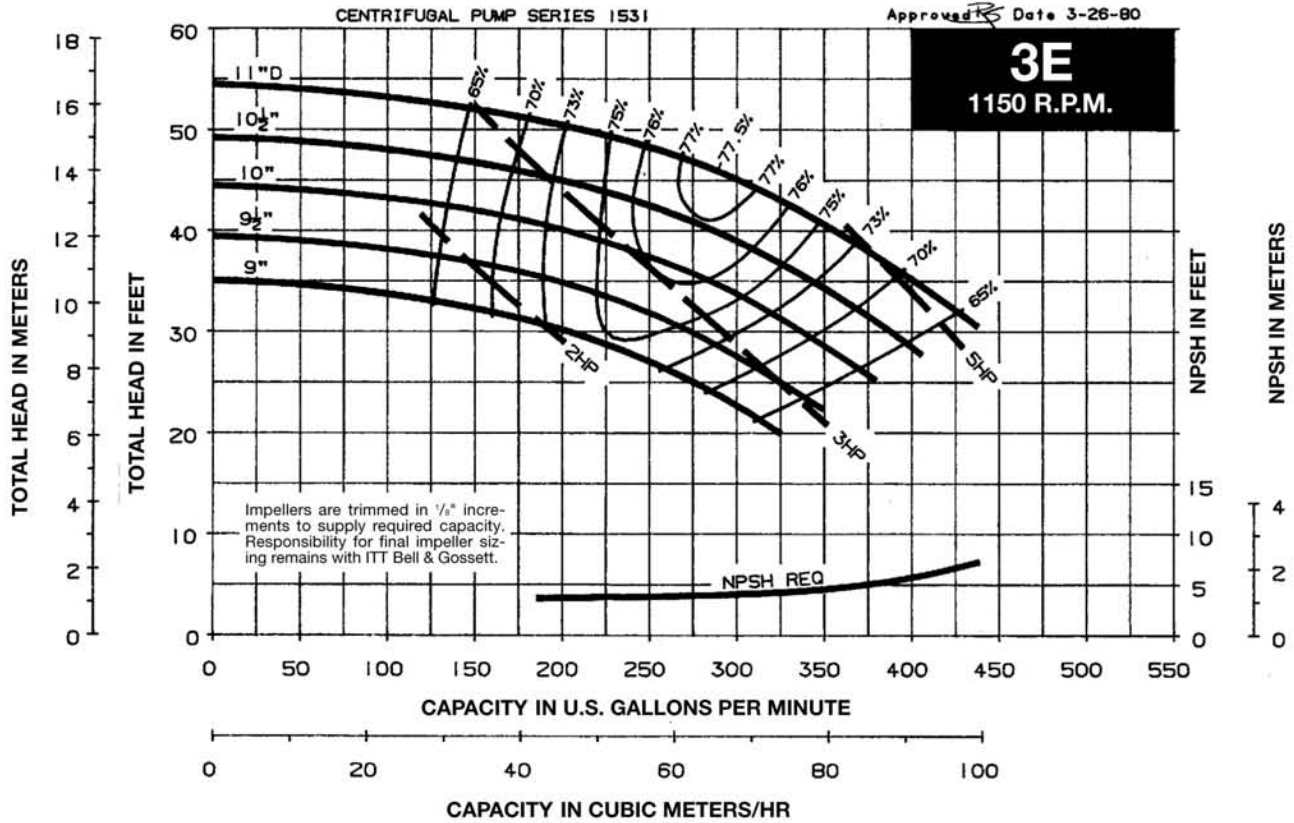
SERIES 1531

1150 RPM PUMP CURVES

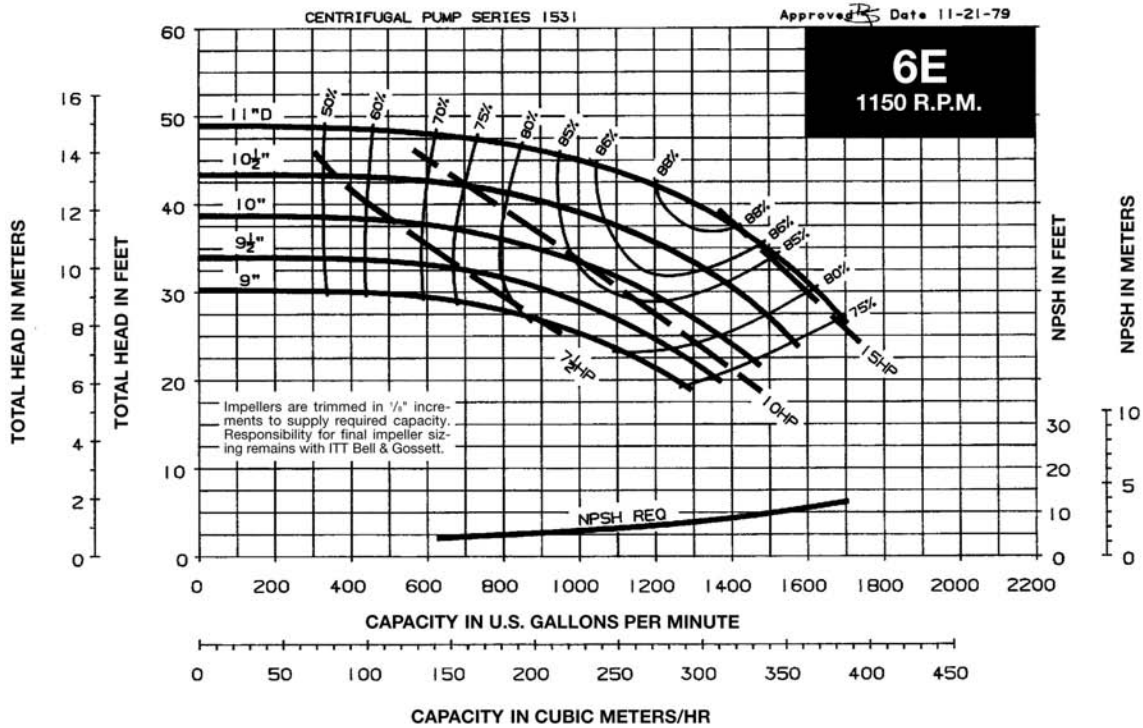
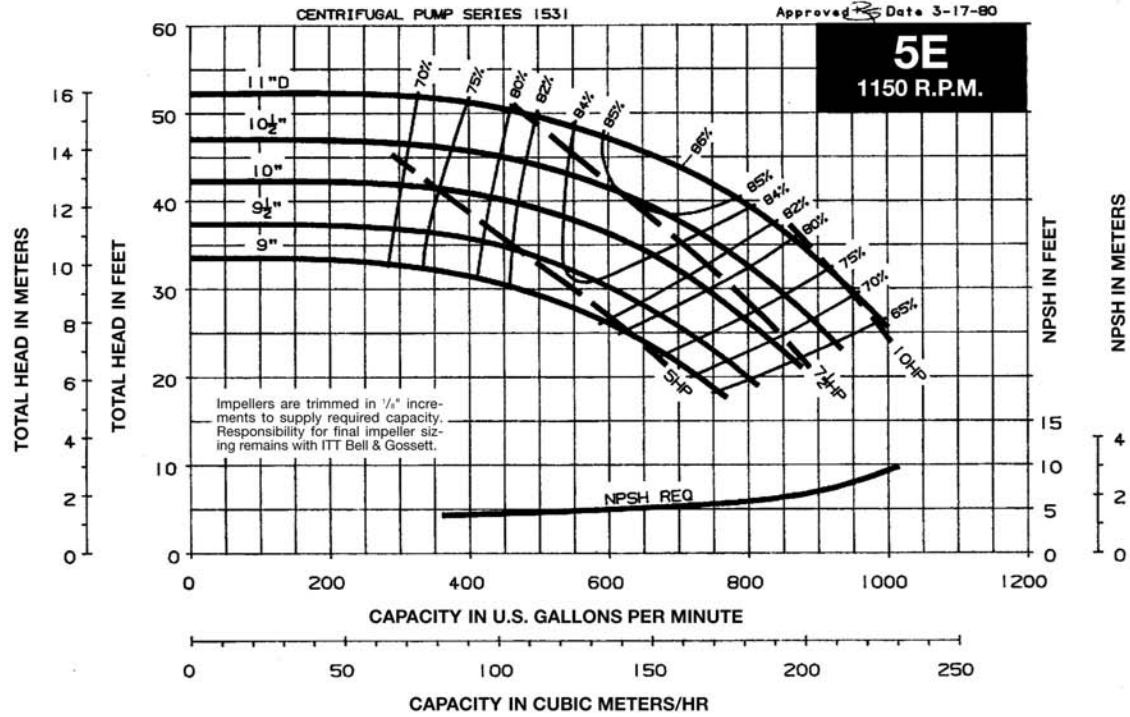


SERIES 1531

1150 RPM PUMP CURVES



1150 RPM PUMP CURVES



Xylem Inc.

8200 N. Austin Avenue, Morton Grove, Illinois 60053
 Phone: (847) 966-3700 Fax: (847) 965-8379
www.xylem.com/brands/bellgossett



Bell & Gossett

a xylem brand