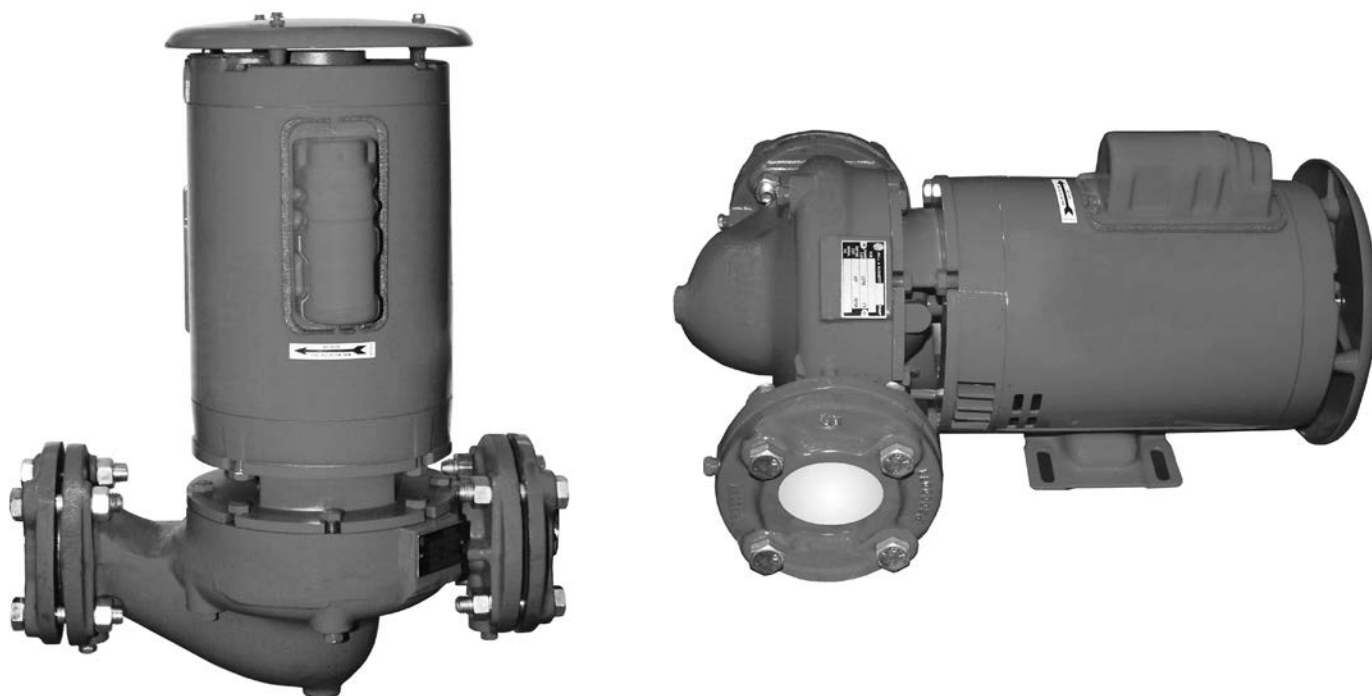


CURVES
B-191A



Series e-90

CLOSE COUPLED IN-LINE CENTRIFUGAL PUMP PERFORMANCE CURVES - 60 HZ

TABLE OF CONTENTS

Useful Pump Formulas	2
Standard Pumps	3
Standard Series 1725 RPM PUMP CURVES & 3450 RPM PUMP CURVES	4
1800 RPM PUMP CURVES	
1AAB & 1.25AAB Curves	5
1.5AAB & 2AAB Curves	6
2AAC & 3AAB Curves	7
1.5AB & 2AB Curves	8
3600 RPM PUMP CURVES	
1AAB & 1.25AAB Curves	9
1.5AAB & 2AAB Curves	10
2AAC & 3AAB Curves	11

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

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

SERIES e-90

STANDARD PUMPS

3450 RPM

MODEL NO.	PUMP SIZE	SUCTION & DISCHARGE SIZE INS. NPT	MOTOR H.P.		
e9020S	1AAB	1	1		
e9020T			1		
e9021S			1.5		
e9021T			1.5		
e9022S			2		
e9022T			2		
e9023S			3		
e9023T			3		
e9025S			1.25AAB	1.25	1.5
e9025T					1.5
e9026S	2				
e9026T	2				
e9027S	3				
e9027T	3				
e9028T	5				
e9029S	1.5AAB	1.5			1.5
e9029T			1.5		
e9030S			2		
e9030T			2		
e9031S			3		
e9031T			3		
e9032T			5		
e9033S			2AAB	2	2
e9033T					2
e9034S					3
e9034T	3				
e9035T	5				
e9036S	3AAB	3	3		
e9036T			3		
e9037T			5		

1725 RPM

MODEL NO.	PUMP SIZE	SUCTION & DISCHARGE SIZE INS. NPT	MOTOR H.P.		
e9001S	1AAB	1	0.25		
e9002S			0.33		
e9003S			0.5		
e9003T			0.5		
e9004S			1.25AAB	1.25	0.25
e9005S	0.33				
e9006S	0.5				
e9006T	0.5				
e9007S	1.5AAB	1.5	0.25		
e9008S			0.33		
e9009S			0.5		
e9009T			0.5		
e9010S			0.75		
e9010T			0.75		
e9011S			2AAB	2	0.33
e9012S	0.5				
e9012T	0.5				
e9013S	0.75				
e9013T	0.75				
e9014S	1				
e9014T	1				
e9015S	3AAB	3			0.33
e9016S					0.5
e9016T					0.5
e9017S			0.75		
e9017T			0.75		
e9018S	1				
e9018T	1				

Single Phase - unit no. ending "S" 115/230 volt, single phase, 60 hertz, Open Drip Proof

Three Phase - unit no. ending "T" 208-230/460 volt, three phase, 60 hertz, Open Drip Proof

SERIES e-90

STANDARD PUMPS

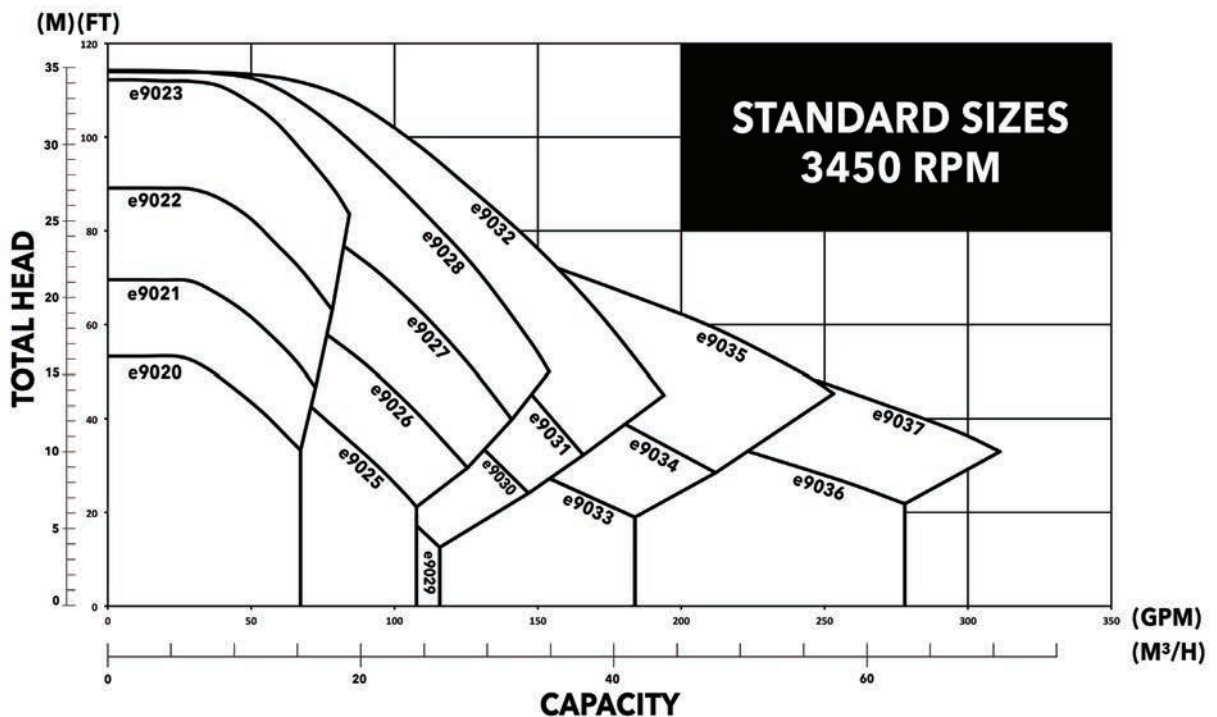
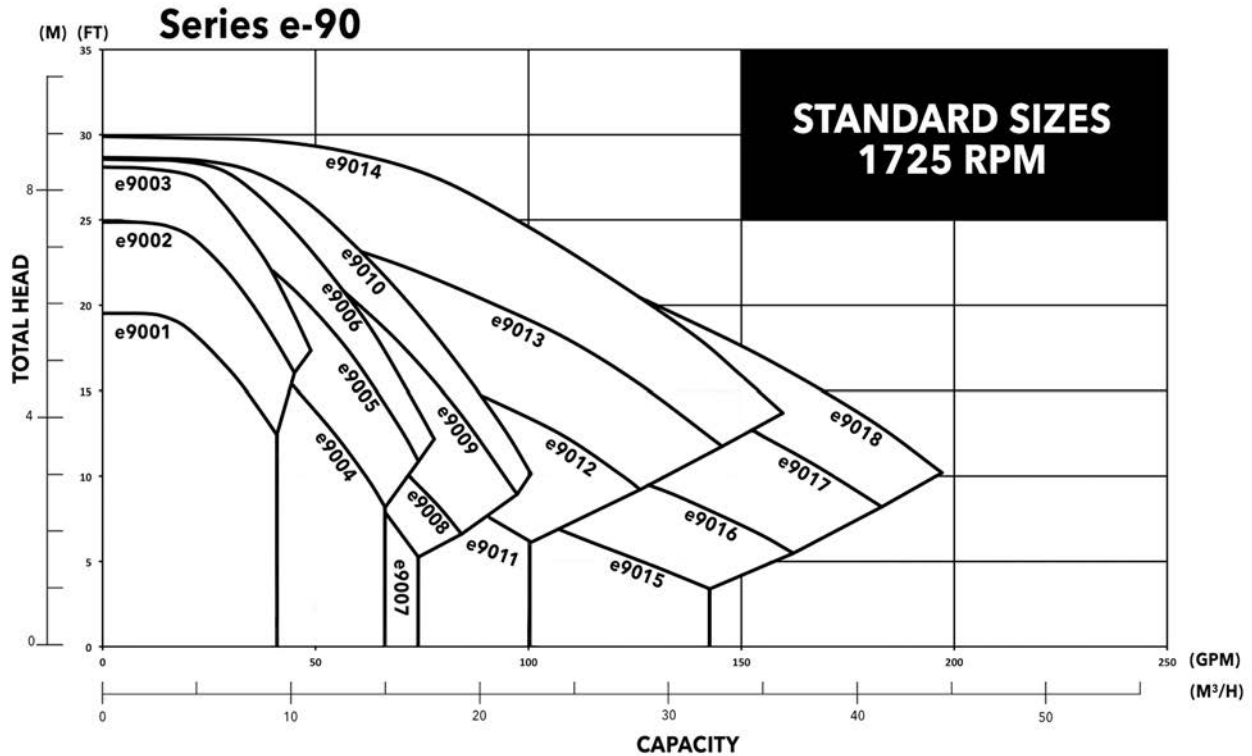
Designed with preselected impeller diameters and motor horsepower sizes to offer better availability.

Pump Construction

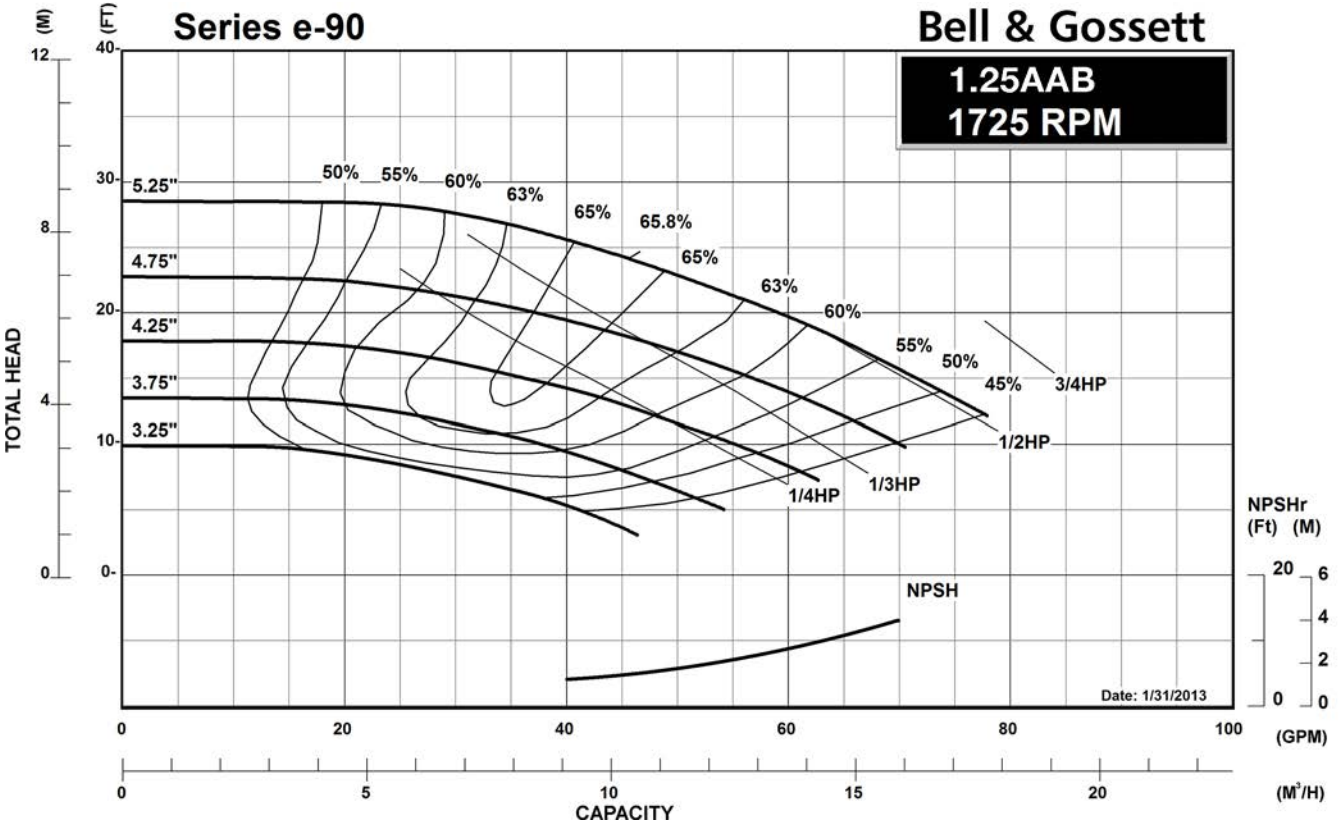
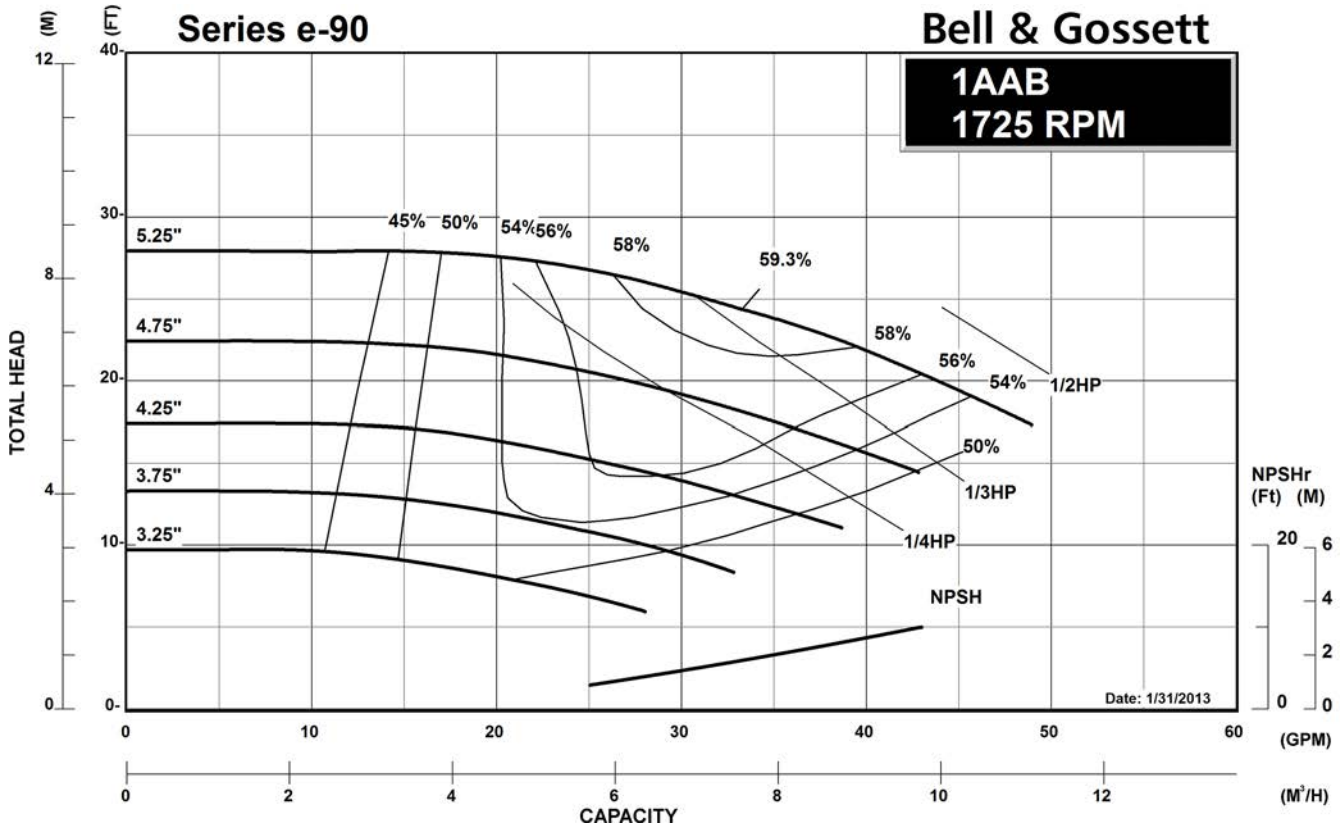
Bronze Fitted / All Bronze
 Standard Mechanical Seal
 Maximum Working Pressure 175 psi

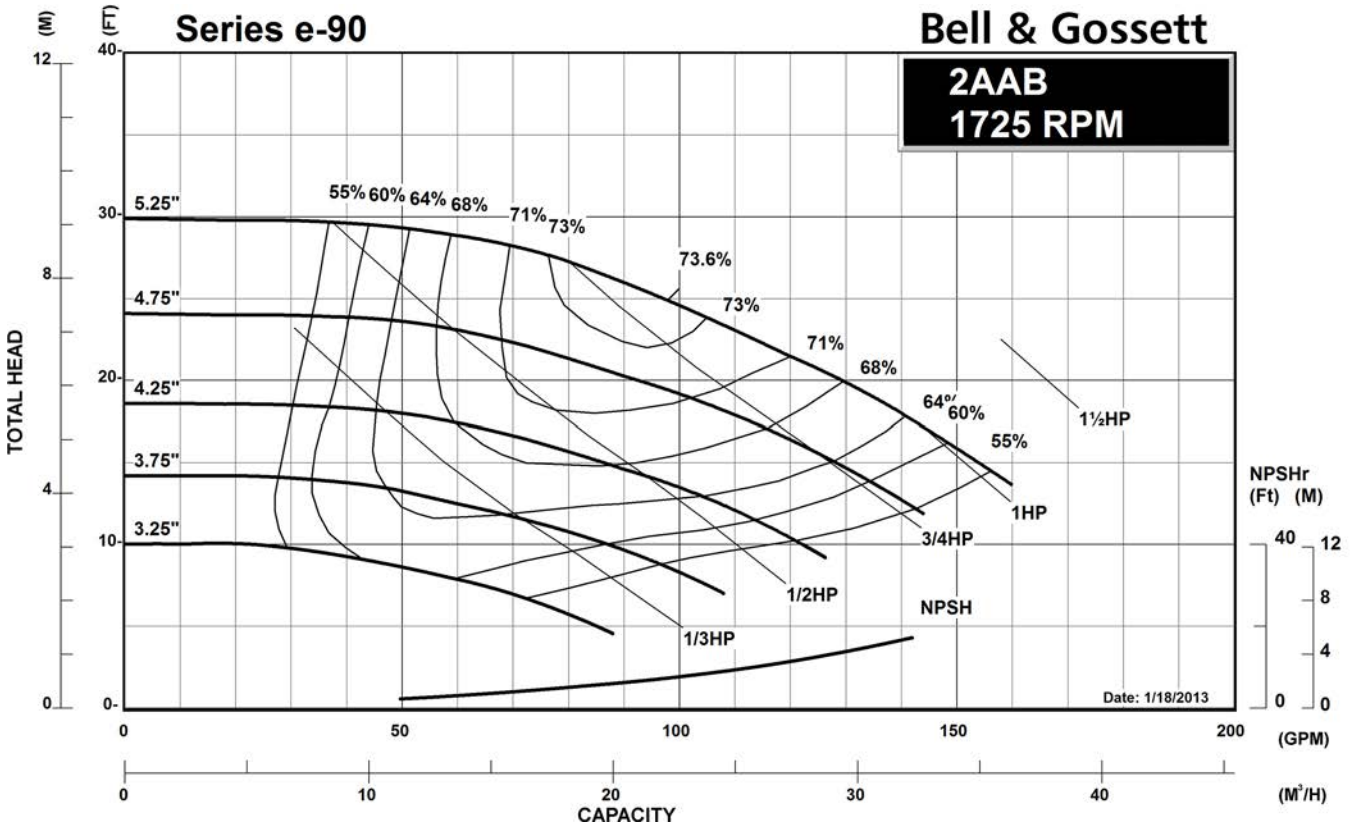
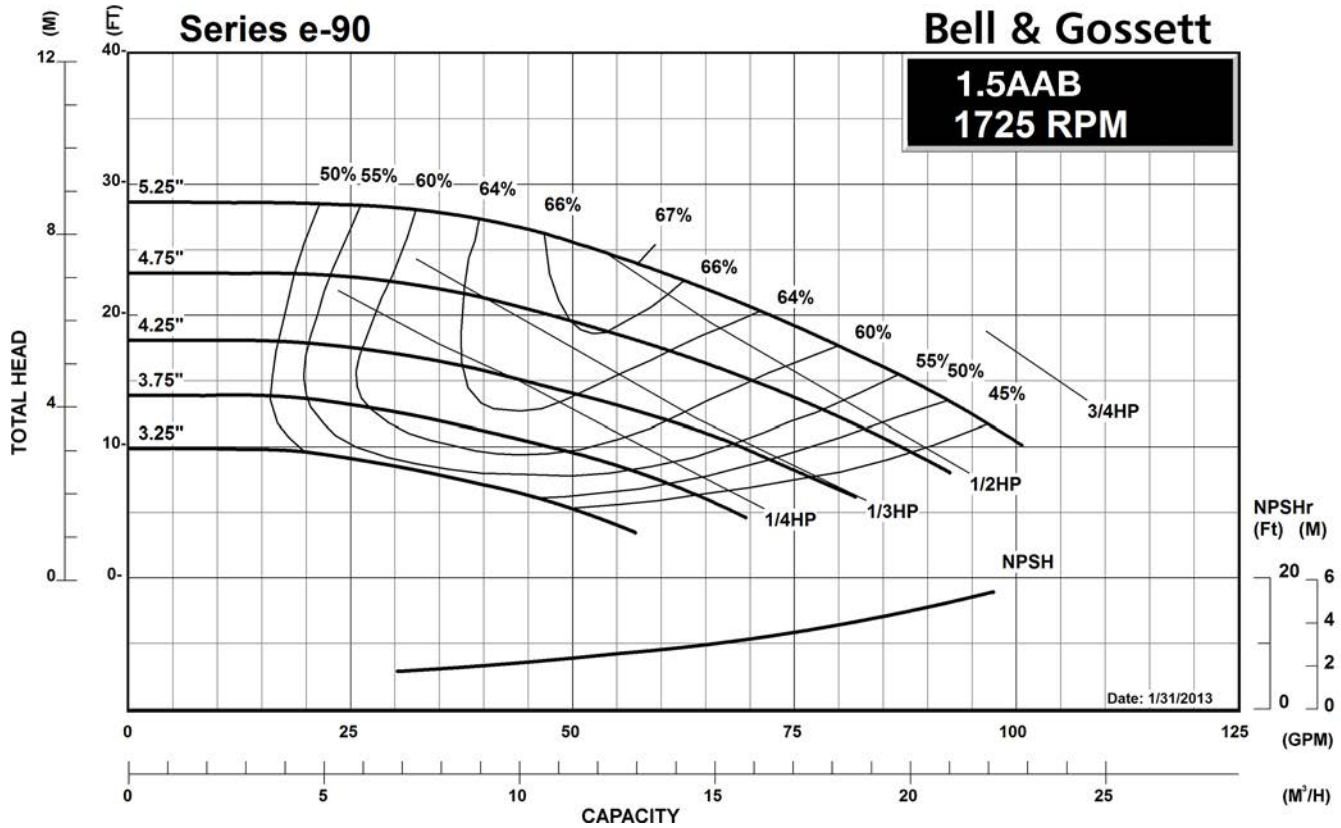
Motors

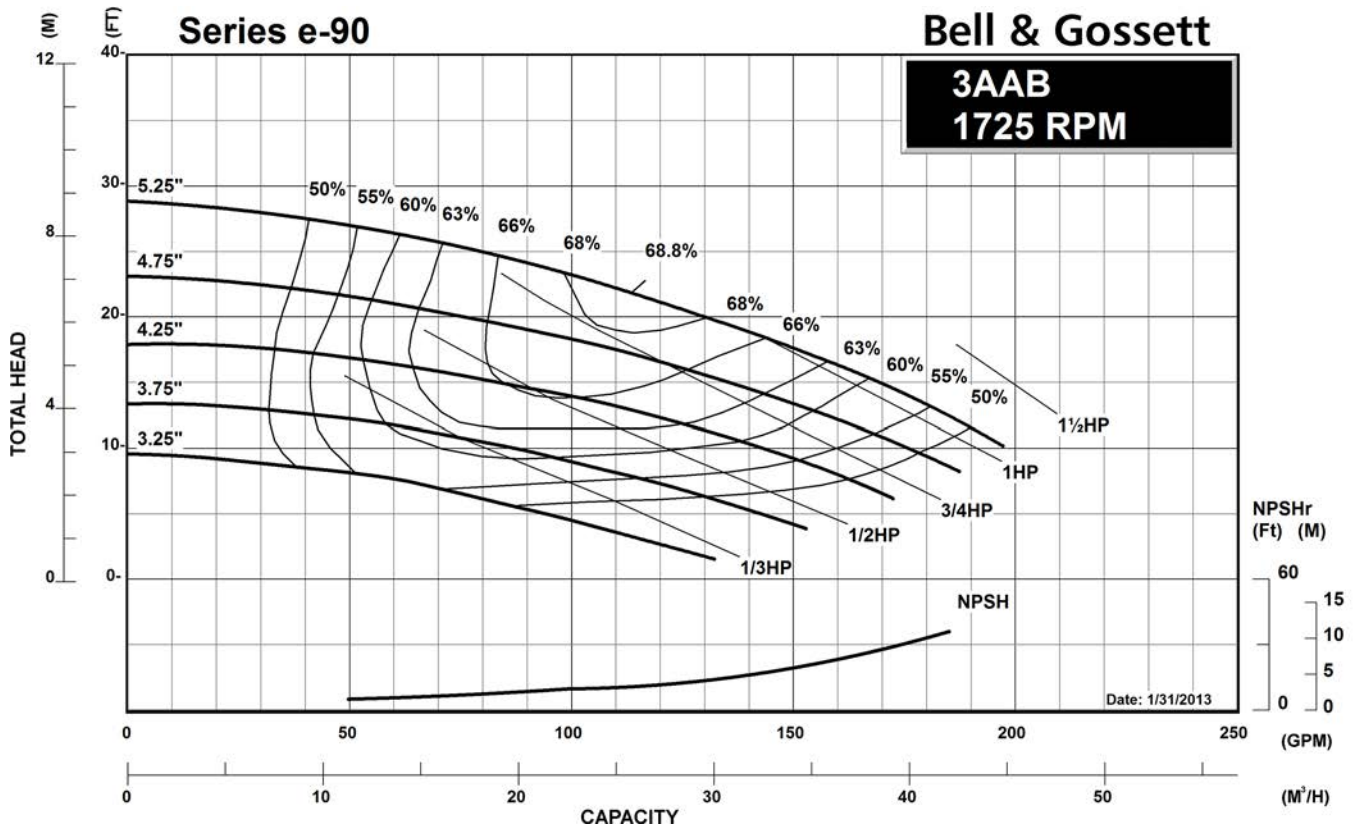
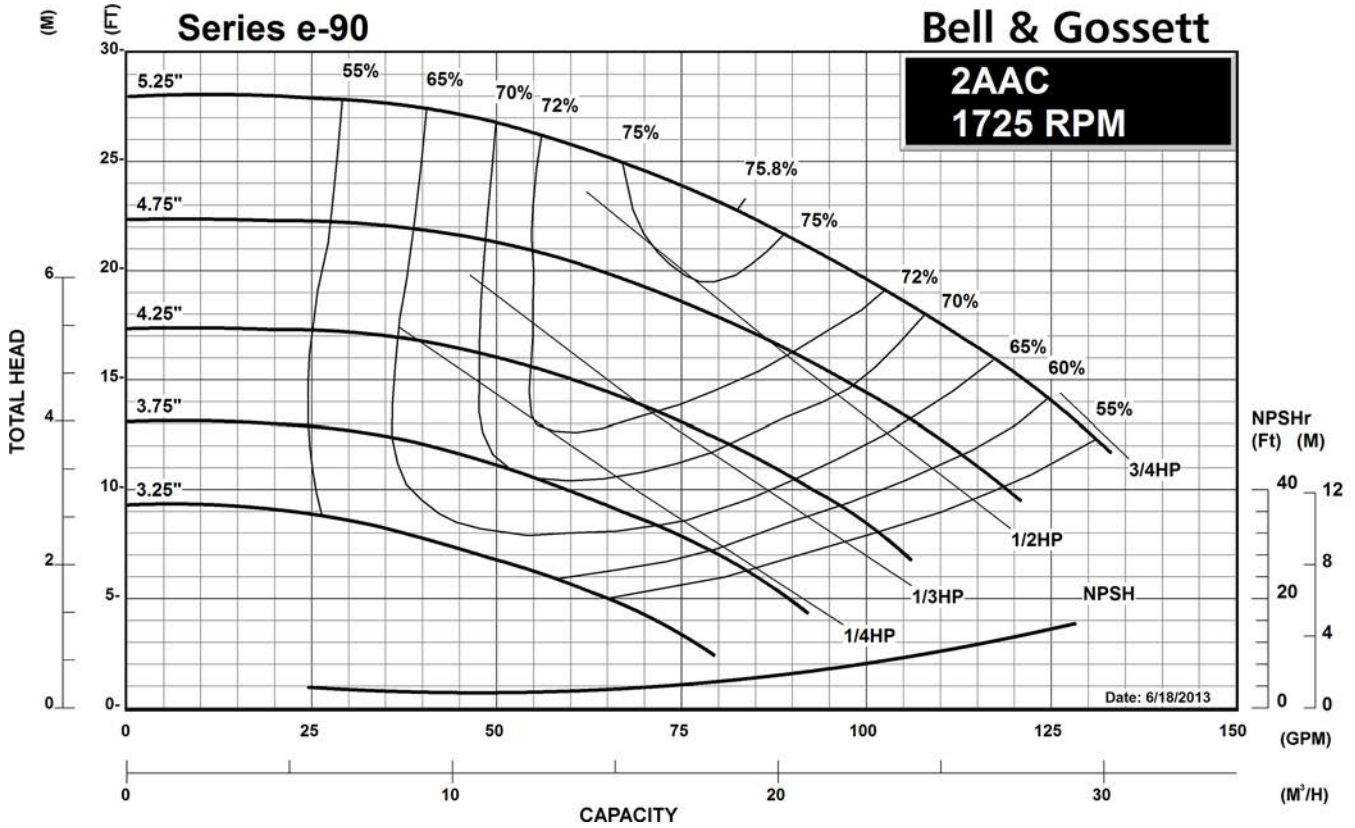
115/230 Volt, Single Phase or
 208-230/460 Volt, Three Phase
 60 Hertz
 Open Drip proof

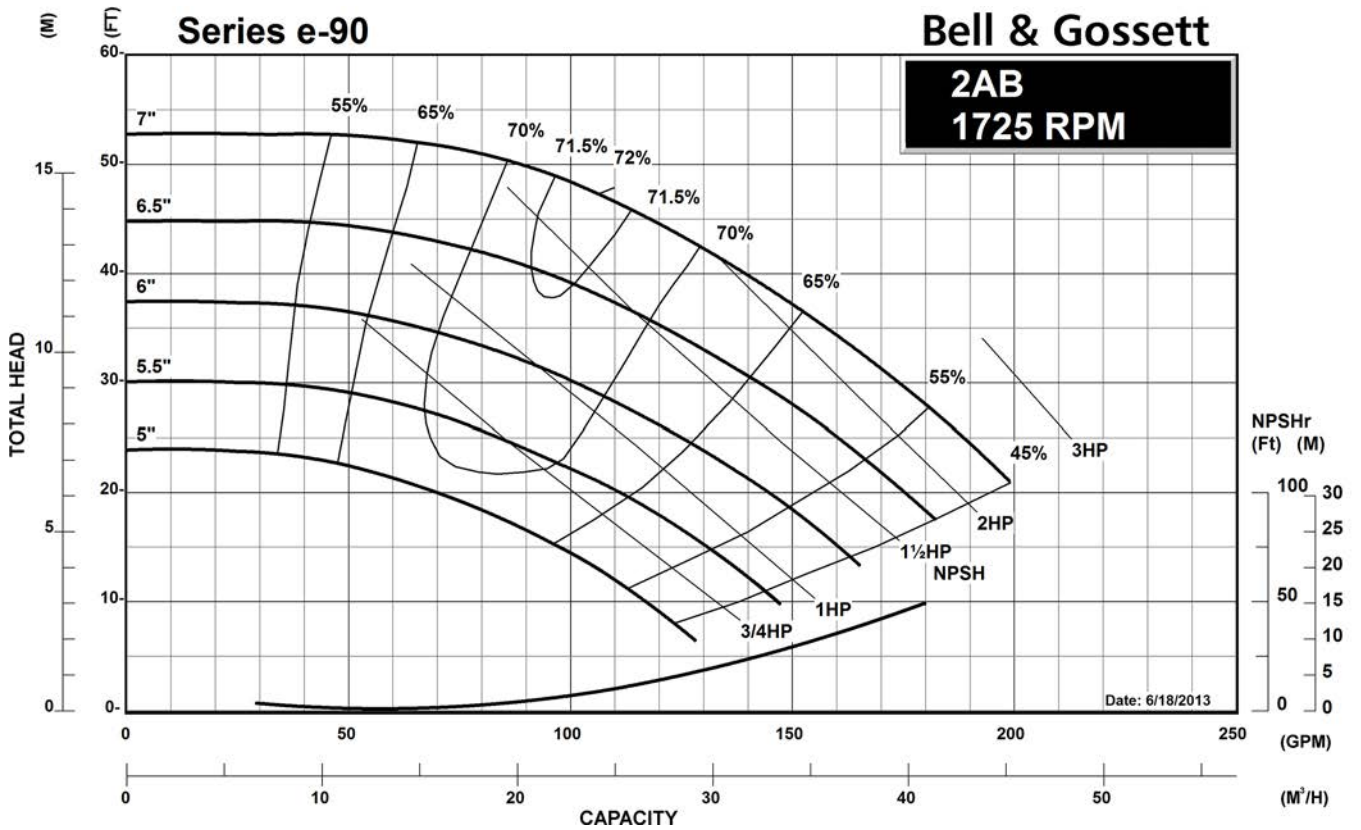
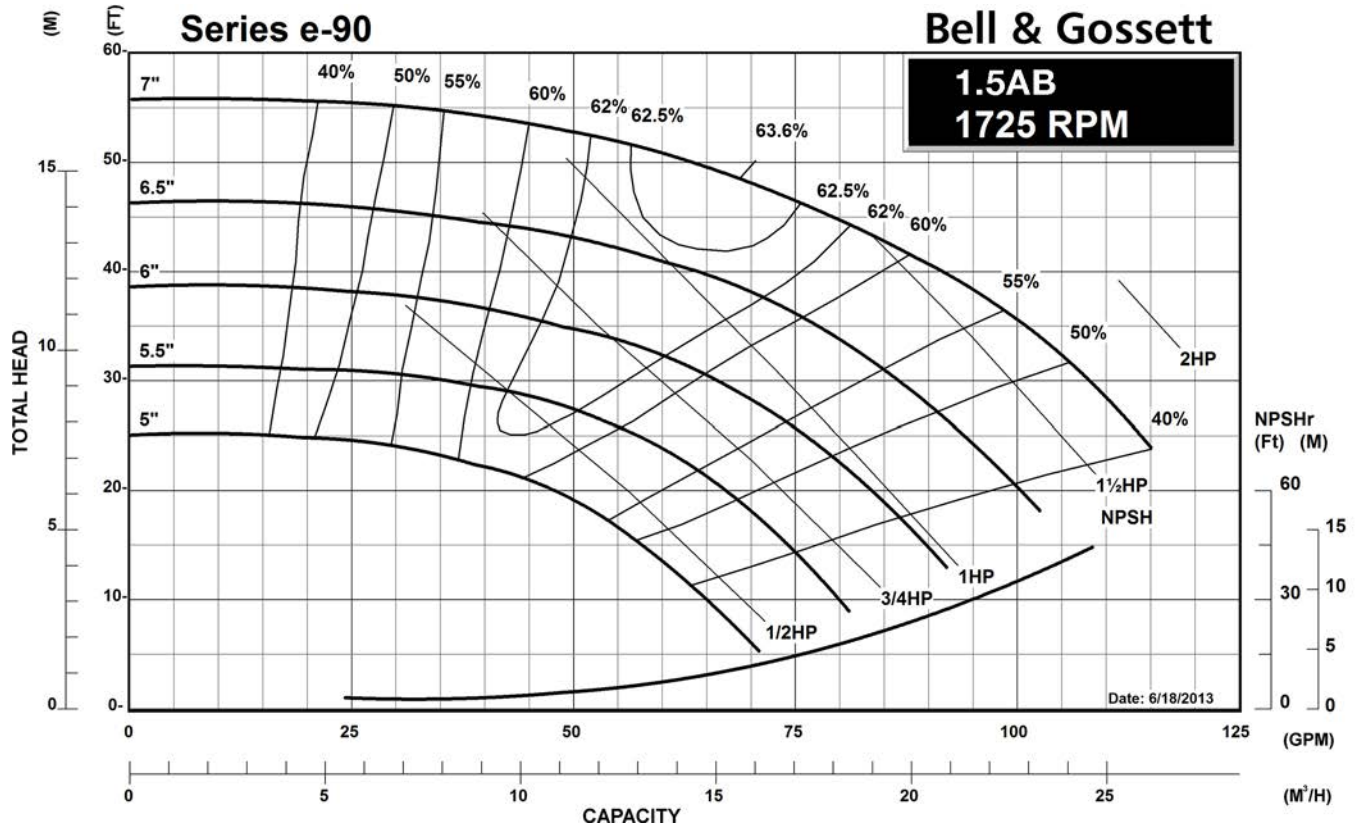


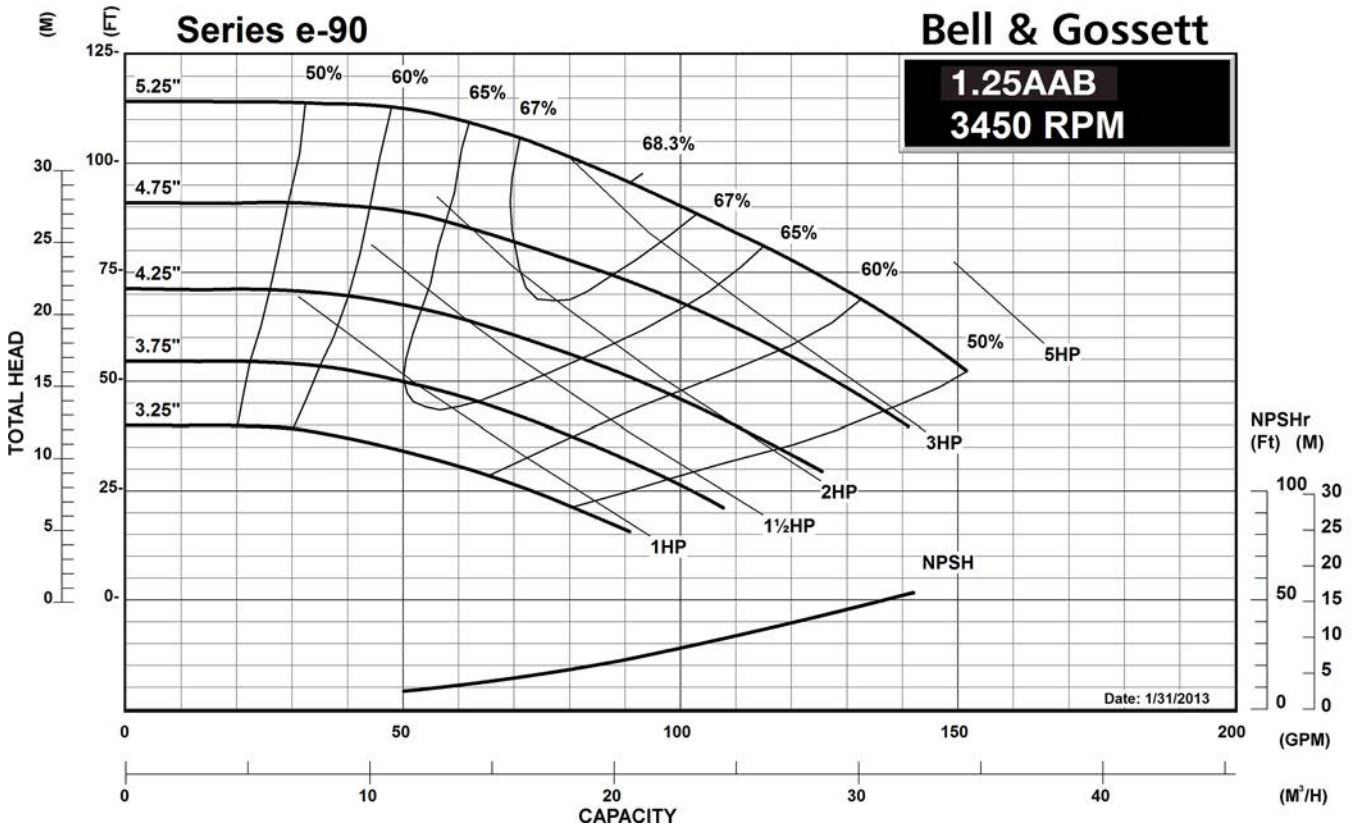
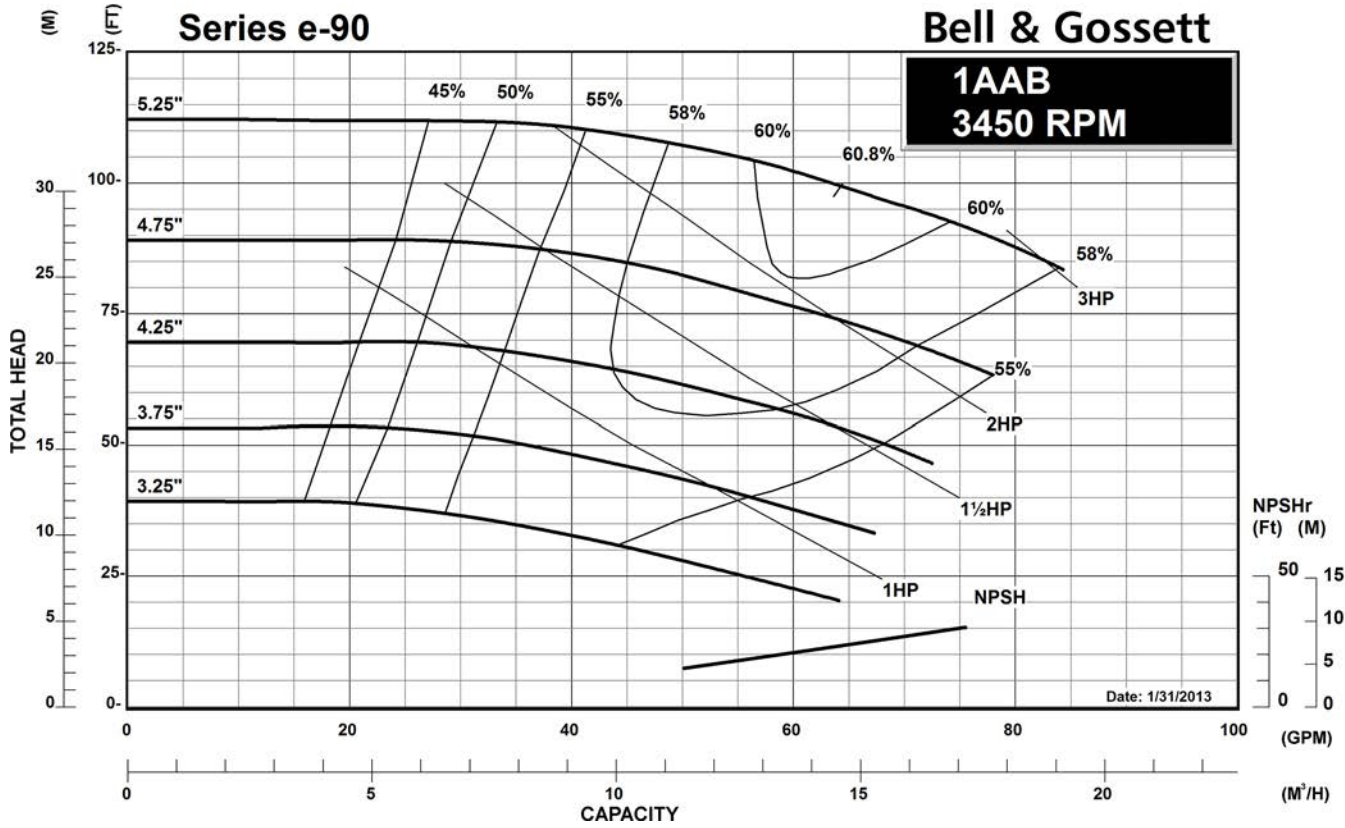
For more exact matches of required performance, consult the Built to Order Performance Curves.

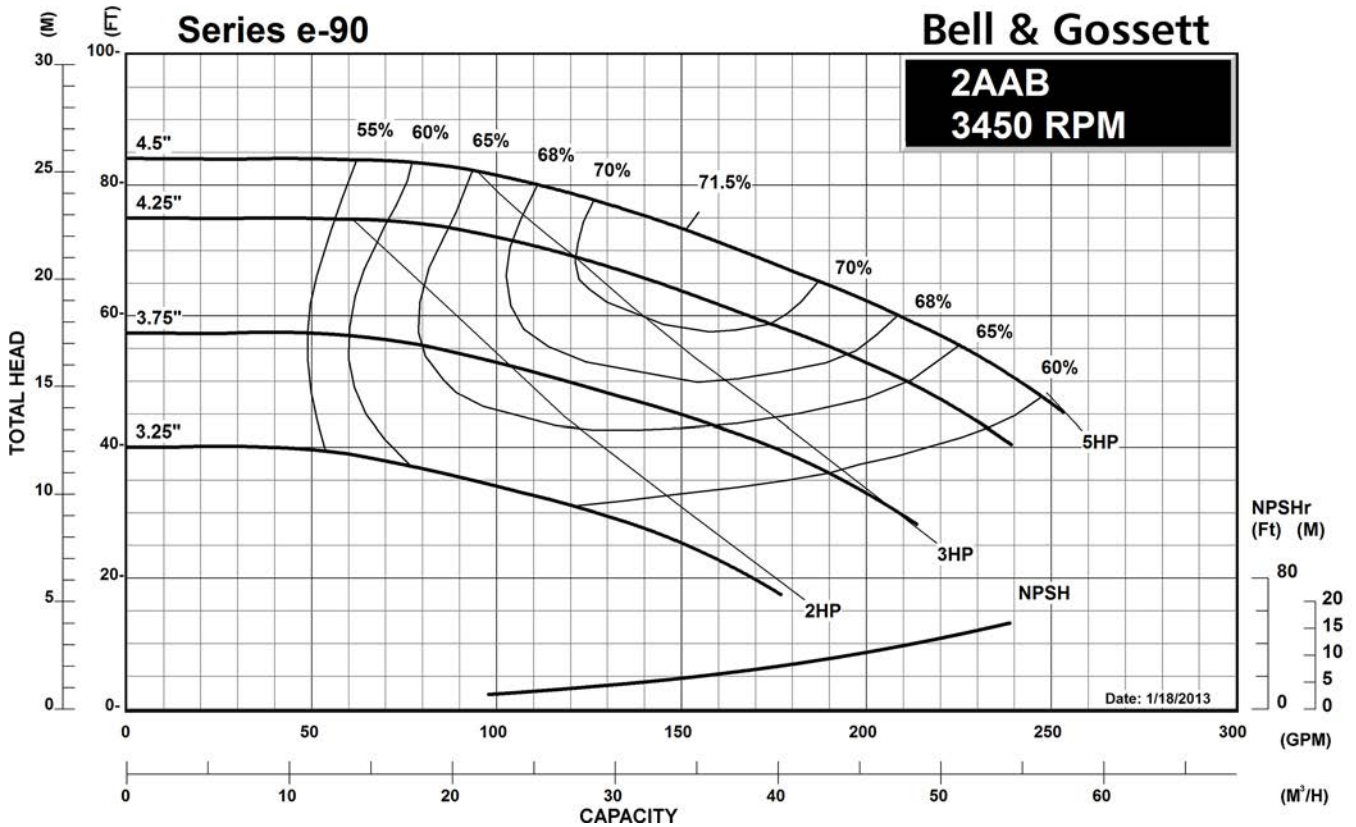
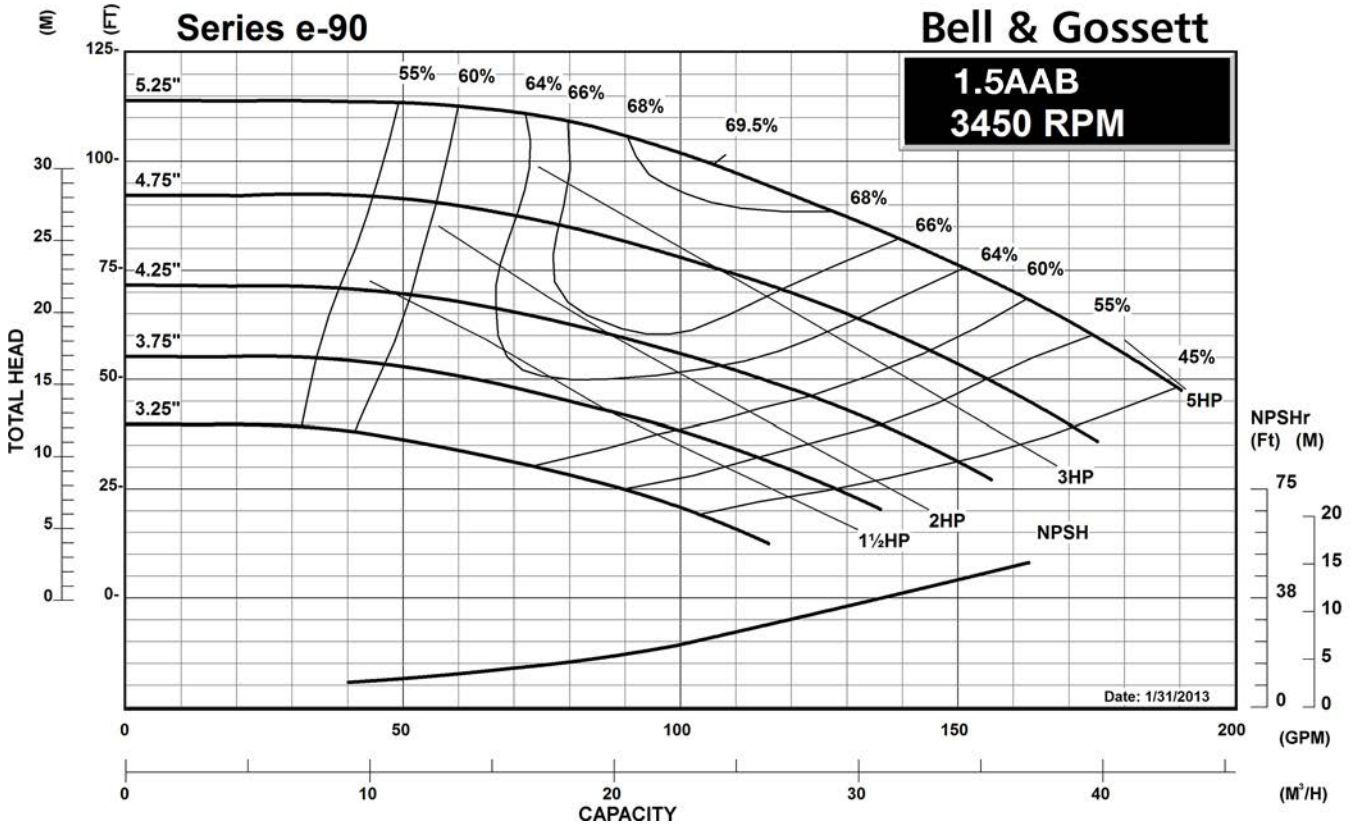


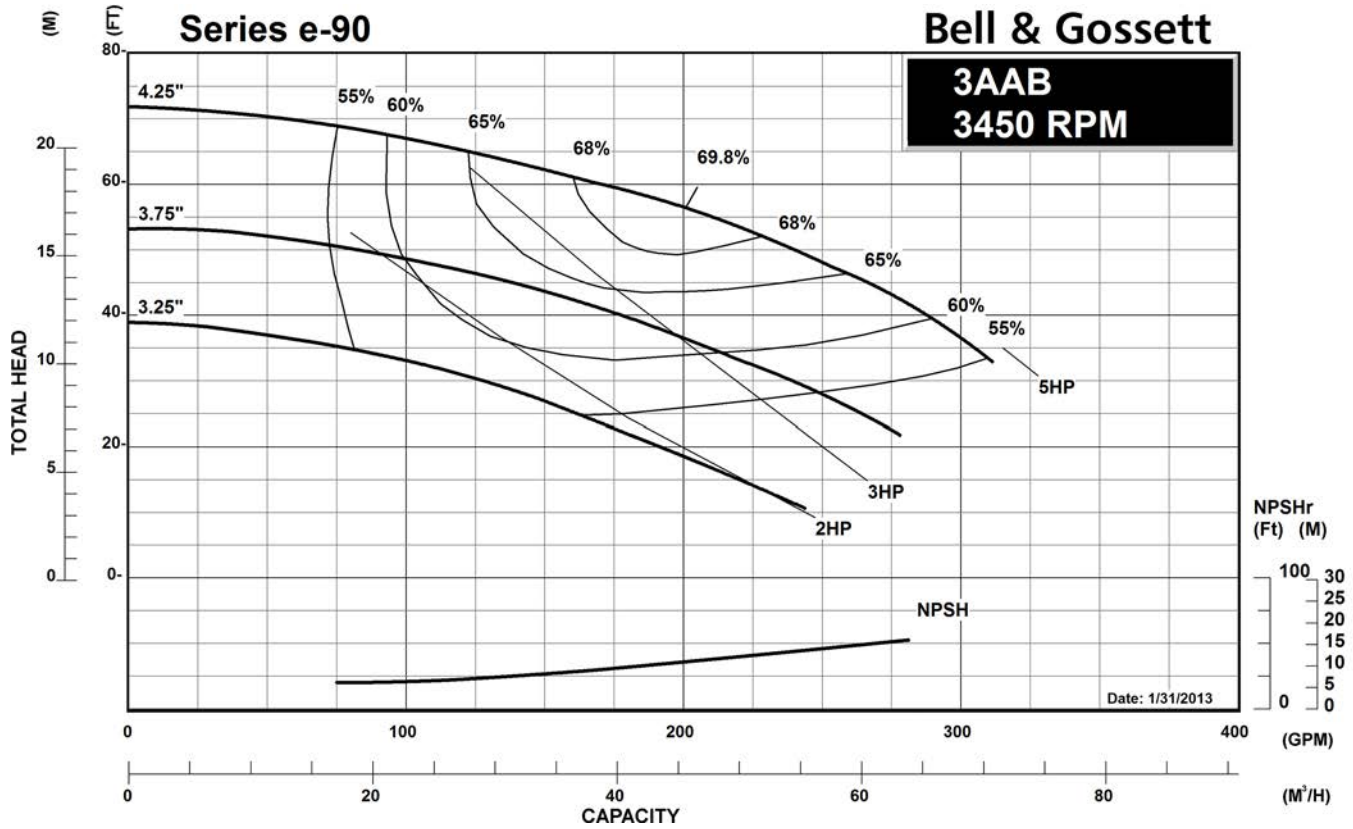
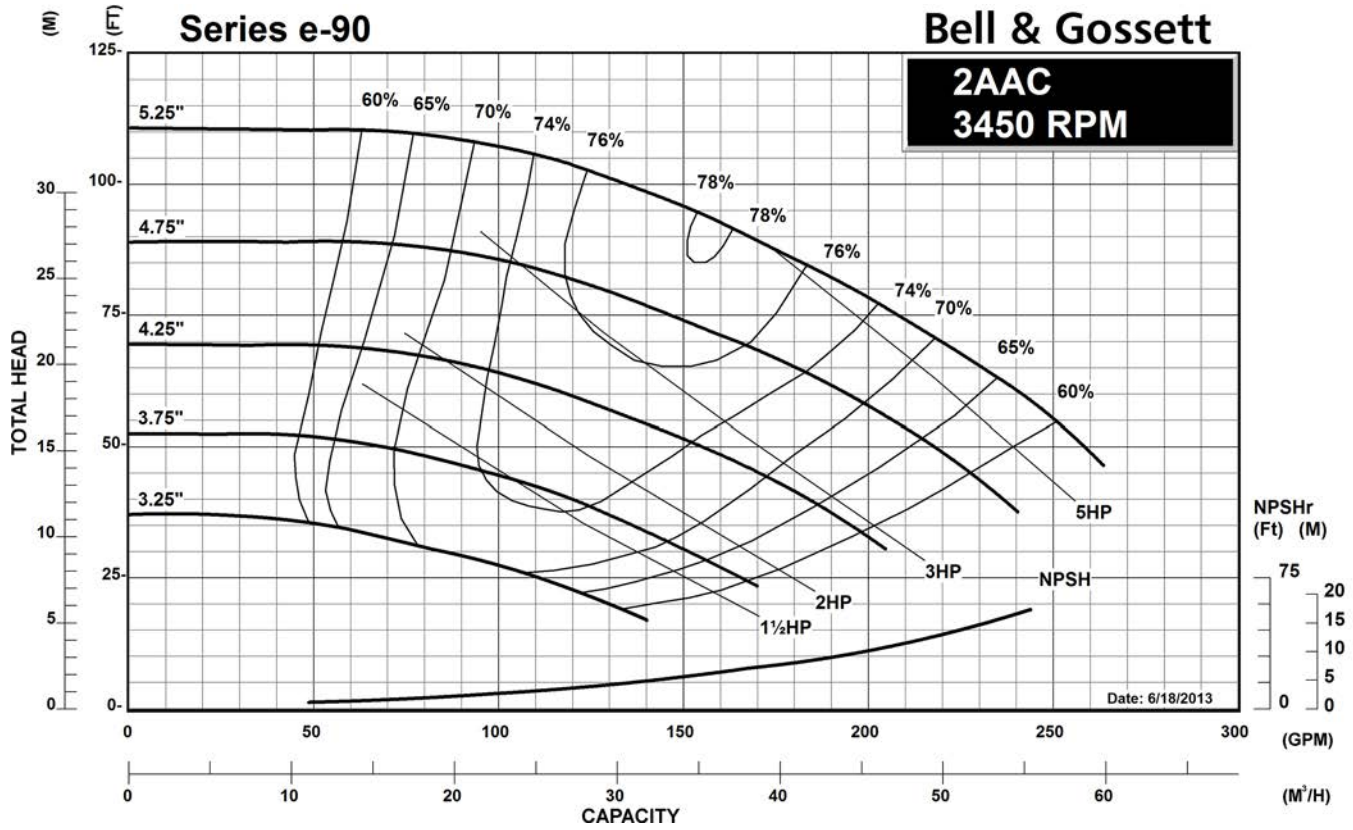












Xylem |'zīləm|

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

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