



Series e-60

IN-LINE MOUNTED CENTRIFUGAL PUMPS
MAINTENANCE FREE
PERFORMANCE CURVES



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BUILT-TO-ORDER PUMP PERFORMANCE CURVES

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USEFUL PUMP FORMULAS

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

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

$$\text{Vacuum (Inches of Mercury)} = \frac{\text{Dynamic Suction Lift (Feet)} \times .883}{\text{Specific Gravity}}$$

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

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

$$\text{Efficiency (Pump)} = \frac{\text{Horsepower (Water)}}{\text{Horsepower (Brake)}} \times 100 \text{ Per Cent}$$

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

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 e-60

SERIES e-60 STOCK PUMPS BRONZE FITTED CONSTRUCTION

SINGLE PHASE UNITS

PART #	MODEL	PUMP SIZE	MOTOR HP	IMPELLER DIA. (in)
1EF011LF	e601S	1x1x5.25	1/4	4.375
1EF142LF	e602S	1x1x5.25	1/3	4.844
1EF012LF	e603S	1x1x5.25	1/2	5.250
1EF016LF	e604S	1.25x1.25x5.25	1/4	4.375
1EF017LF	e605S	1.25x1.25x5.25	1/3	4.844
1EF004LF	e606S	1.25x1.25x5.25	1/2	5.250
1EF021LF	e607S	1.5x1.5x5.25	1/3	4.375
1EF022LF	e608S	1.5x1.5x5.25	1/2	4.938
1EF005LF	e609S	1.5x1.5x5.25	3/4	5.250
1EF026LF	e610S	2x2x5.25	1/2	4.125
1EF027LF	e611S	2x2x5.25	3/4	4.750
1EF006LF	e612S	2x2x5.25	1	5.250
1EF143LF	e626S	3x3x5.25	3/4	4.375
1EF147LF	e627S	3x3x5.25	1 1/2	5.250
1EF064LF	e621S	1.5x1.5x6.25	1/2	4.875
1EF031LF	e613S	1.5x1.5x6.25	3/4	5.750
1EF007LF	e614S	1.5x1.5x6.25	1	6.250
1EF032LF	e615S	2x2x6.25	3/4	5.625
1EF008LF	e616S	2x2x6.25	1	6.219
1EF066LF	e622S	1.5x1.5x7	3/4	5.500
1EF067LF	e623S	1.5x1.5x7	1	6.000
1EF033LF	e617S	1.5x1.5x7	1 1/2	6.500
1EF070LF	e624S	2x2x7	1	5.688
1EF071LF	e625S	2x2x7	1 1/2	6.125

THREE PHASE UNITS

PART #	MODEL	PUMP SIZE	MOTOR HP	IMPELLER DIA. (in)
1EF034LF	e601T	1x1x5.25	1/4	4.375
1EF035LF	e602T	1x1x5.25	1/3	4.844
1EF036LF	e603T	1x1x5.25	1/2	5.250
1EF040LF	e604T	1.25x1.25x5.25	1/4	4.375
1EF041LF	e605T	1.25x1.25x5.25	1/3	4.844
1EF042LF	e606T	1.25x1.25x5.25	1/2	5.250
1EF046LF	e607T	1.5x1.5x5.25	1/3	4.375
1EF047LF	e608T	1.5x1.5x5.25	1/2	4.938
1EF048LF	e609T	1.5x1.5x5.25	3/4	5.250
1EF052LF	e610T	2x2x5.25	1/2	4.125
1EF053LF	e611T	2x2x5.25	3/4	4.750
1EF054LF	e612T	2x2x5.25	1	5.250
1EF144LF	e626T	3x3x5.25	3/4	4.375
1EF148LF	e627T	3x3x5.25	1 1/2	5.250
1EF065LF	e621T	1.5x1.5x6.25	1/2	4.875
1EF058LF	e613T	1.5x1.5x6.25	3/4	5.750
1EF059LF	e614T	1.5x1.5x6.25	1	6.250
1EF060LF	e615T	2x2x6.25	3/4	5.625
1EF061LF	e616T	2x2x6.25	1	6.219
1EF068LF	e622T	1.5x1.5x7	3/4	5.500
1EF069LF	e623T	1.5x1.5x7	1	6.000
1EF062LF	e617T	1.5x1.5x7	1 1/2	6.500
1EF009LF	e618T	1.5x1.5x7	2	7.000
1EF072LF	e624T	2x2x7	1	5.688
1EF073LF	e625T	2x2x7	1 1/2	6.125
1EF063LF	e619T	2x2x7	2	6.500
1EF010LF	e620T	2x2x7	3	7.000

Pump Construction:

Standard EPR/Carbon/SiC seal, 175 PSI maximum working pressure, 1750 RPM ODP motors

Single Phase units run at 115/230V, Three Phase units run at 208-230/460V.

**SERIES e-60 STOCK PUMPS
ALL BRONZE CONSTRUCTION**

SINGLE PHASE UNITS

PART #	MODEL	PUMP SIZE	MOTOR HP	IMPELLER DIA. (in)
1EF013LF	Be601S	1x1x5.25	1/4	4.375
1EF014LF	Be602S	1x1x5.25	1/3	4.844
1EF015LF	Be603S	1x1x5.25	1/2	5.250
1EF018LF	Be604S	1.25x1.25x5.25	1/4	4.375
1EF019LF	Be605S	1.25x1.25x5.25	1/3	4.844
1EF020LF	Be606S	1.25x1.25x5.25	1/2	5.250
1EF023LF	Be607S	1.5x1.5x5.25	1/3	4.375
1EF024LF	Be608S	1.5x1.5x5.25	1/2	4.938
1EF025LF	Be609S	1.5x1.5x5.25	3/4	5.250
1EF028LF	Be610S	2x2x5.25	1/2	4.125
1EF029LF	Be611S	2x2x5.25	3/4	4.750
1EF030LF	Be612S	2x2x5.25	1	5.250
1EF145LF	Be626S	3x3x5.25	3/4	4.375
1EF149LF	Be627S	3x3x5.25	1 1/2	5.250
1EF074LF	Be621S	1.5x1.5x6.25	1/2	4.875
1EF076LF	Be614S	1.5x1.5x6.25	1	6.250
1EF078LF	Be615S	2x2x6.25	3/4	5.625

THREE PHASE UNITS

PART #	MODEL	PUMP SIZE	MOTOR HP	IMPELLER DIA. (in)
1EF037LF	Be601T	1x1x5.25	1/4	4.375
1EF038LF	Be602T	1x1x5.25	1/3	4.844
1EF039LF	Be603T	1x1x5.25	1/2	5.250
1EF043LF	Be604T	1.25x1.25x5.25	1/4	4.375
1EF044LF	Be605T	1.25x1.25x5.25	1/3	4.844
1EF045LF	Be606T	1.25x1.25x5.25	1/2	5.250
1EF049LF	Be607T	1.5x1.5x5.25	1/3	4.375
1EF050LF	Be608T	1.5x1.5x5.25	1/2	4.938
1EF051LF	Be609T	1.5x1.5x5.25	3/4	5.250
1EF055LF	Be610T	2x2x5.25	1/2	4.125
1EF056LF	Be611T	2x2x5.25	3/4	4.750
1EF057LF	Be612T	2x2x5.25	1	5.250
1EF146LF	Be626T	3x3x5.25	3/4	4.375
1EF150LF	Be627T	3x3x5.25	1 1/2	5.250
1EF075LF	Be621T	1.5x1.5x6.25	1/2	4.875
1EF077LF	Be614T	1.5x1.5x6.25	1	6.250
1EF079LF	Be615T	2x2x6.25	3/4	5.625

Pump Construction:

Standard EPR/Carbon/Ceramic seal, 175 PSI maximum working pressure, 1750 RPM ODP motors

Single Phase units run at 115/230V, Three Phase units run at 208-230/460V.

Series e-60 Stock Selection Charts

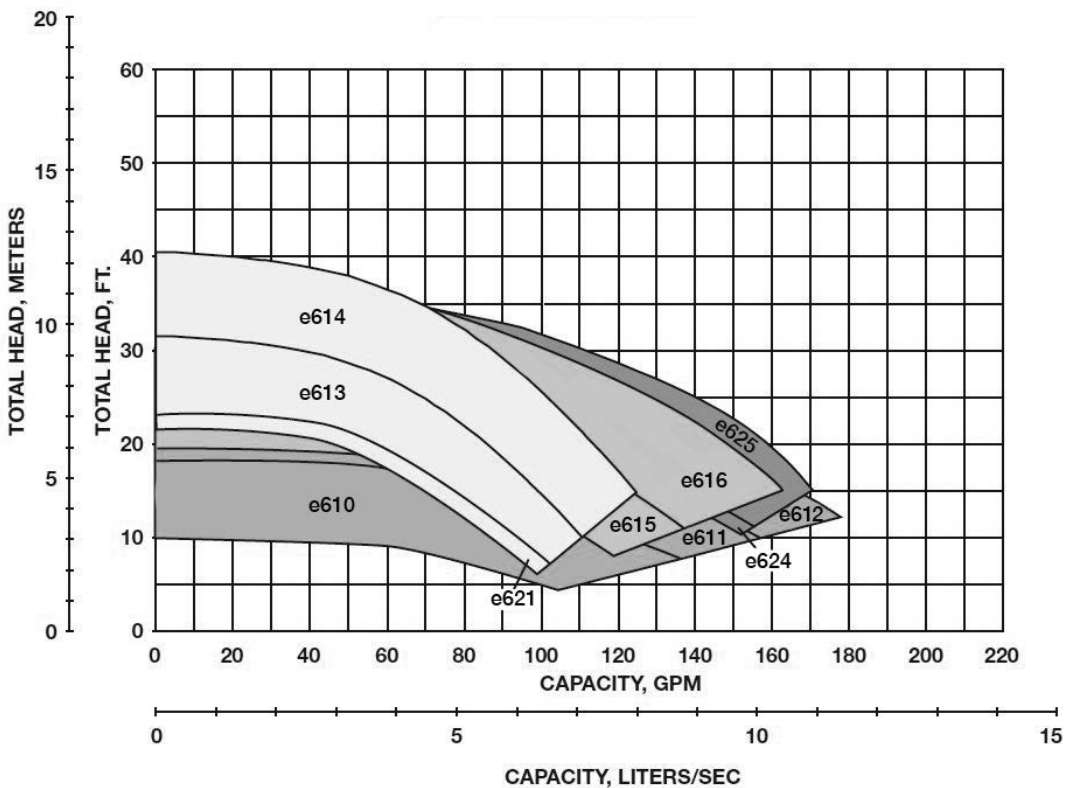
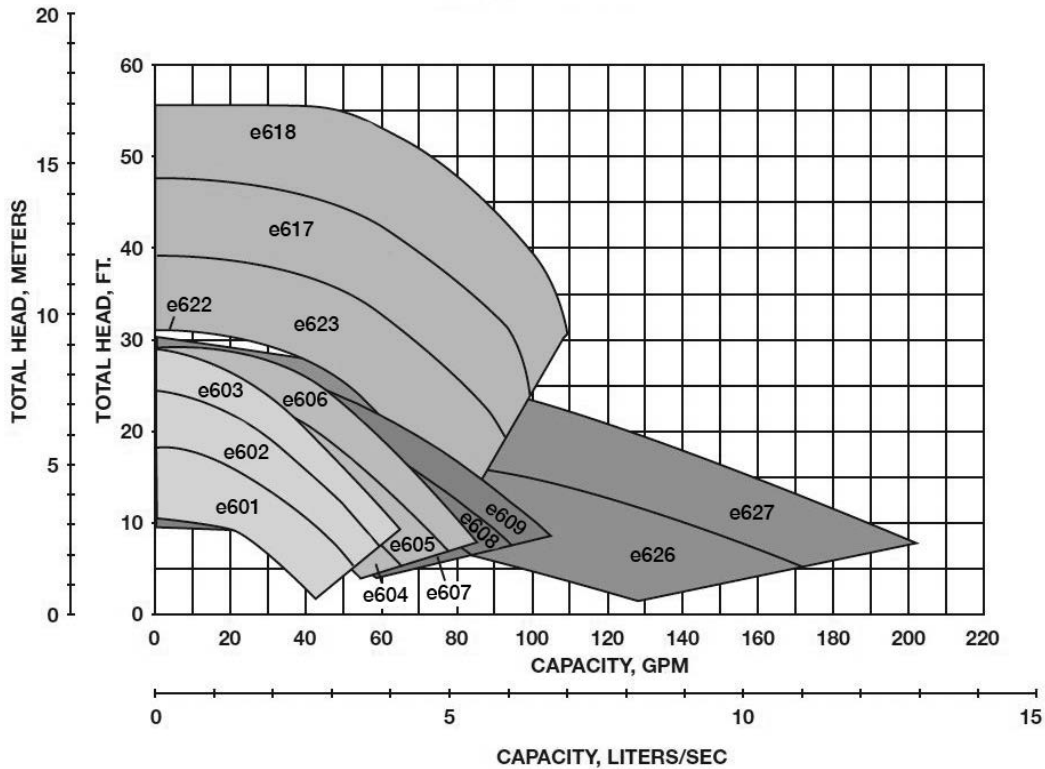
Designed with standardized impeller diameters and motor horsepower to improve availability and shorten lead time.

Pump Construction

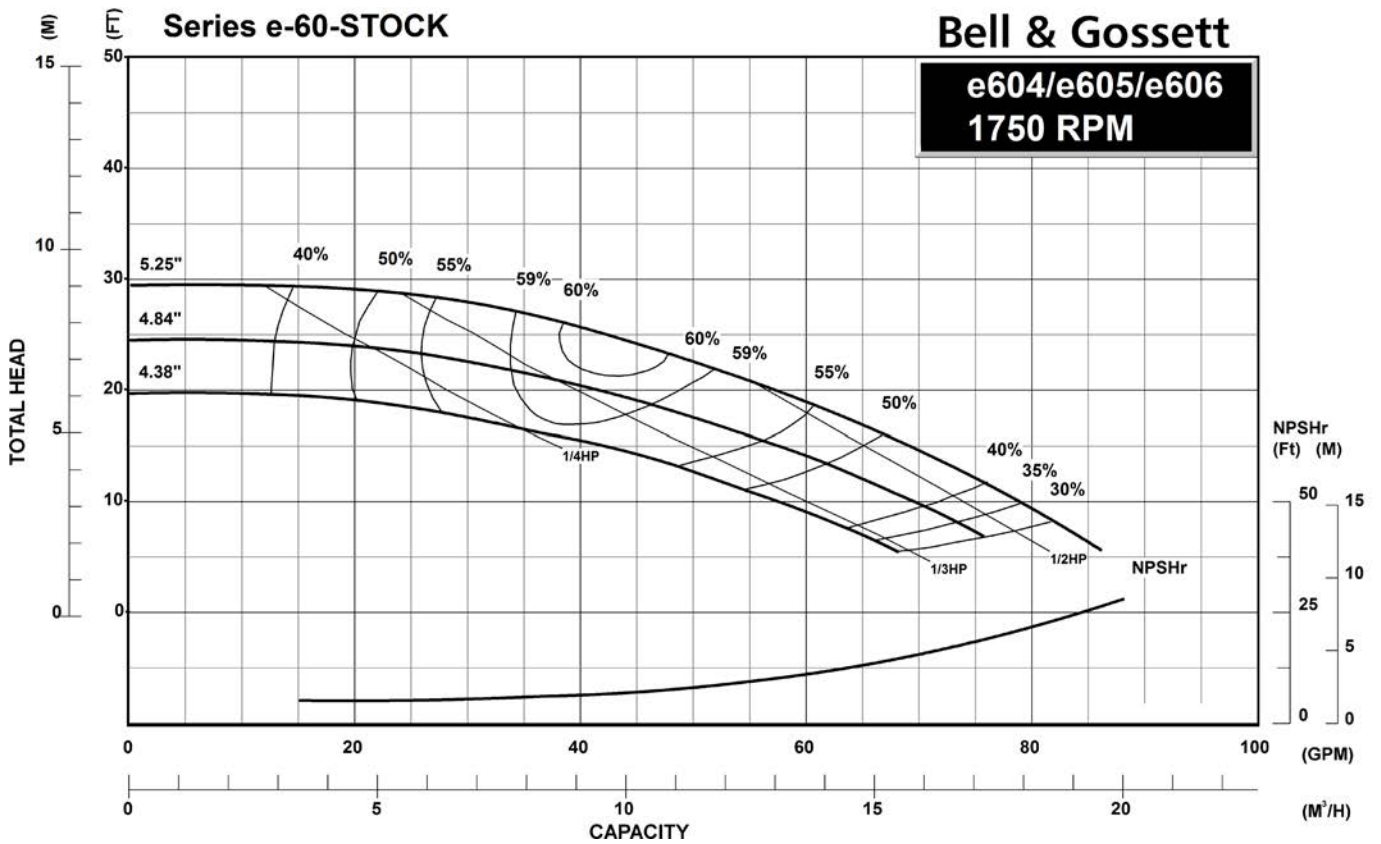
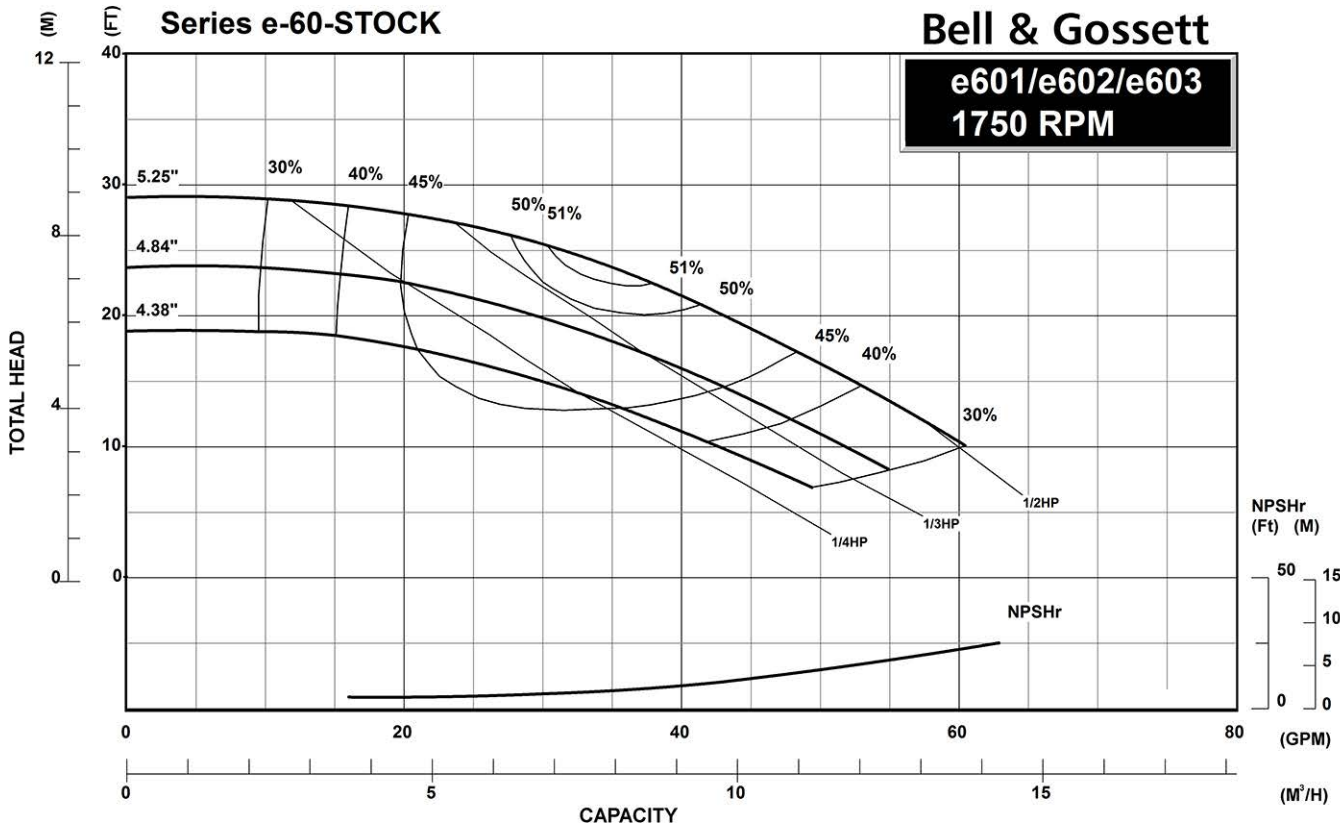
Bronze-Fitted / All Bronze
 Standard Unitized Mechanical Seal
 175 PSI (12 bar) Maximum Working Pressure

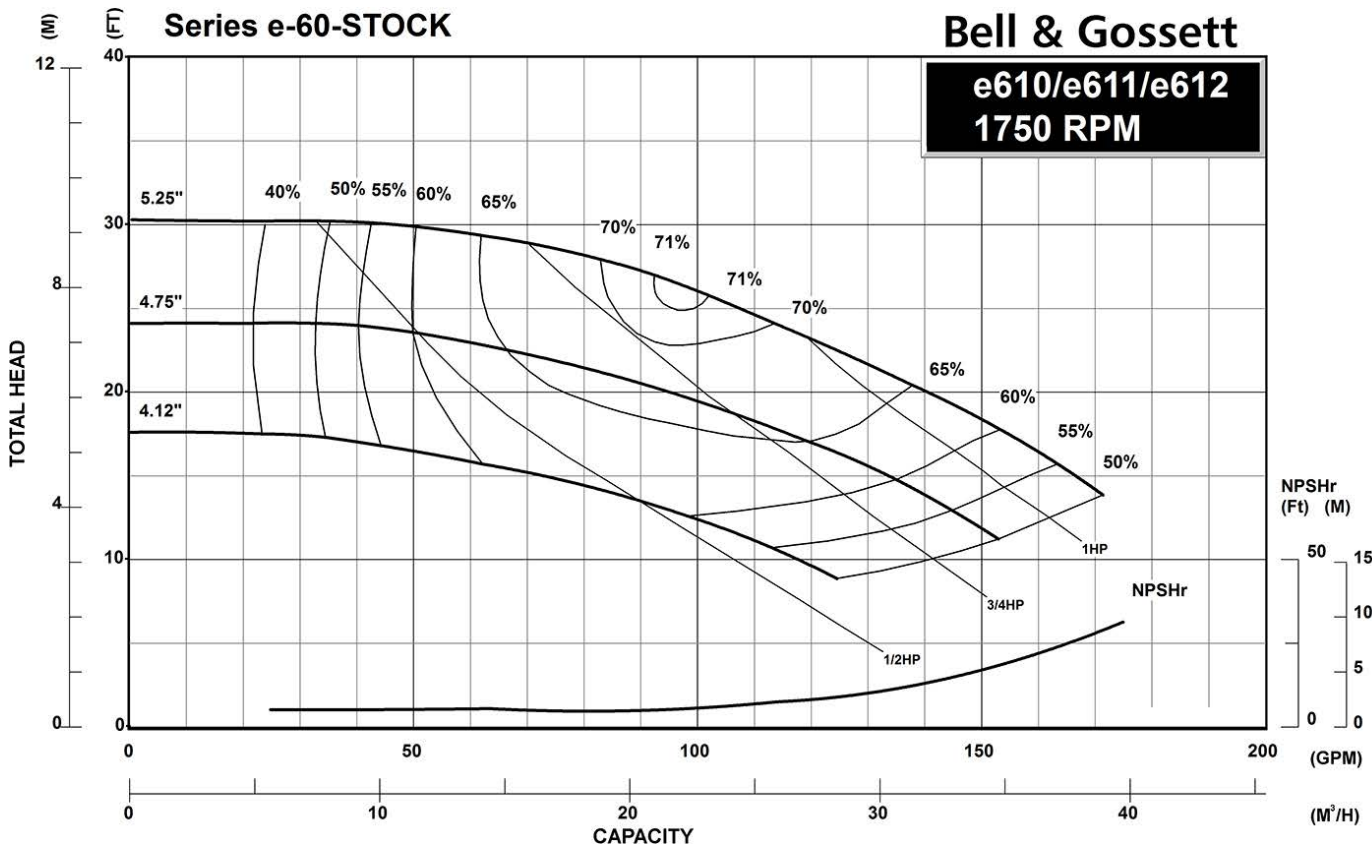
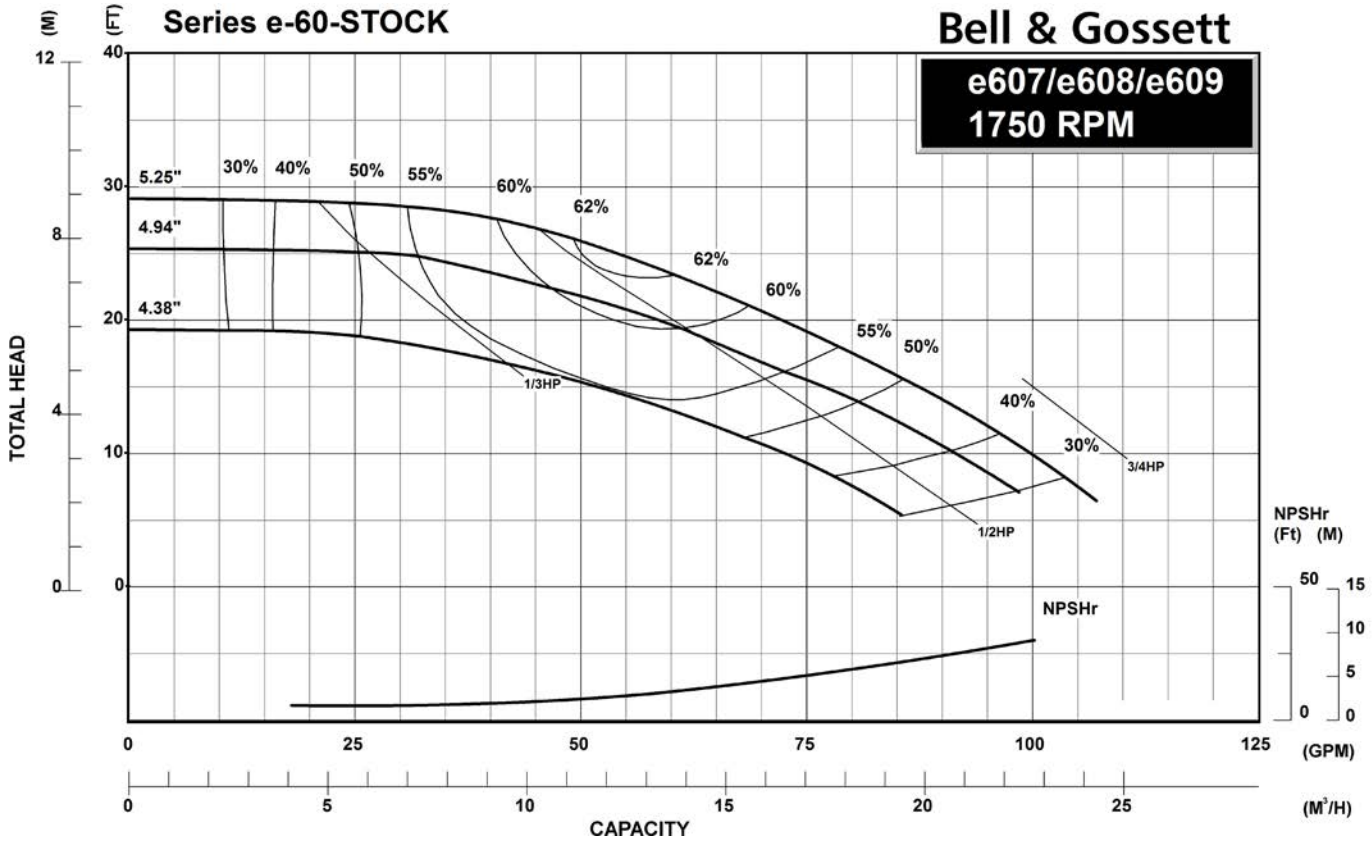
Motors

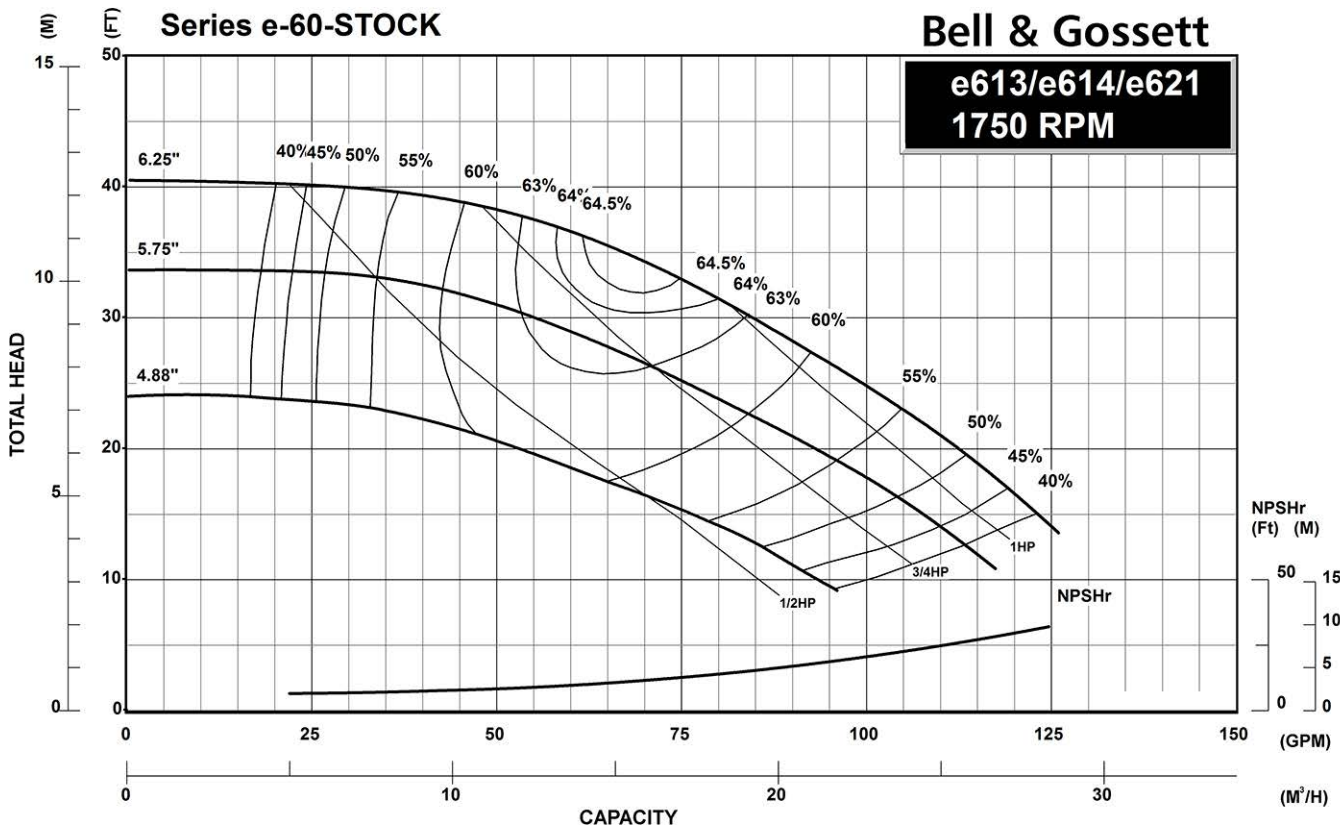
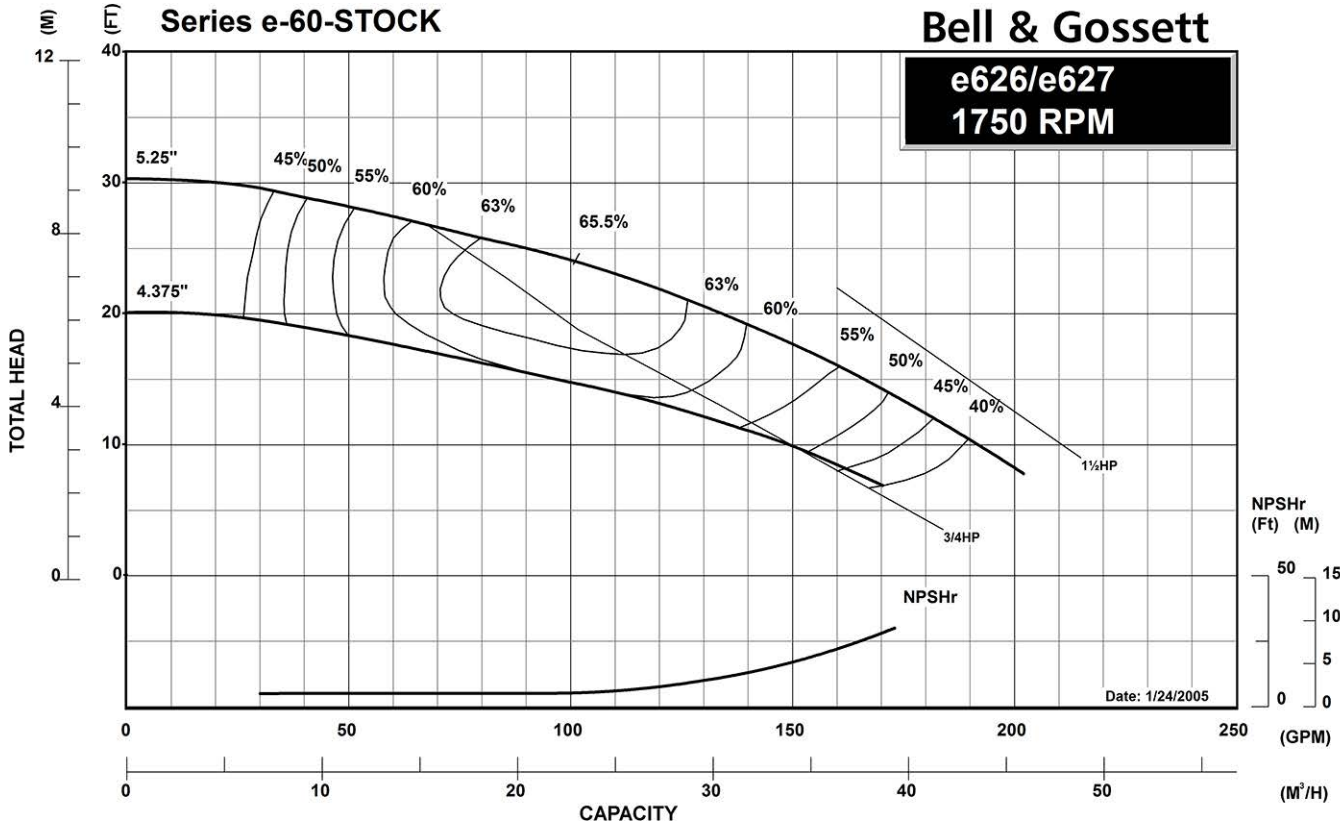
115/230 Volt, Single Phase or
 208-230/460 Volt, Three Phase
 60 Hertz
 Open Drip-Proof

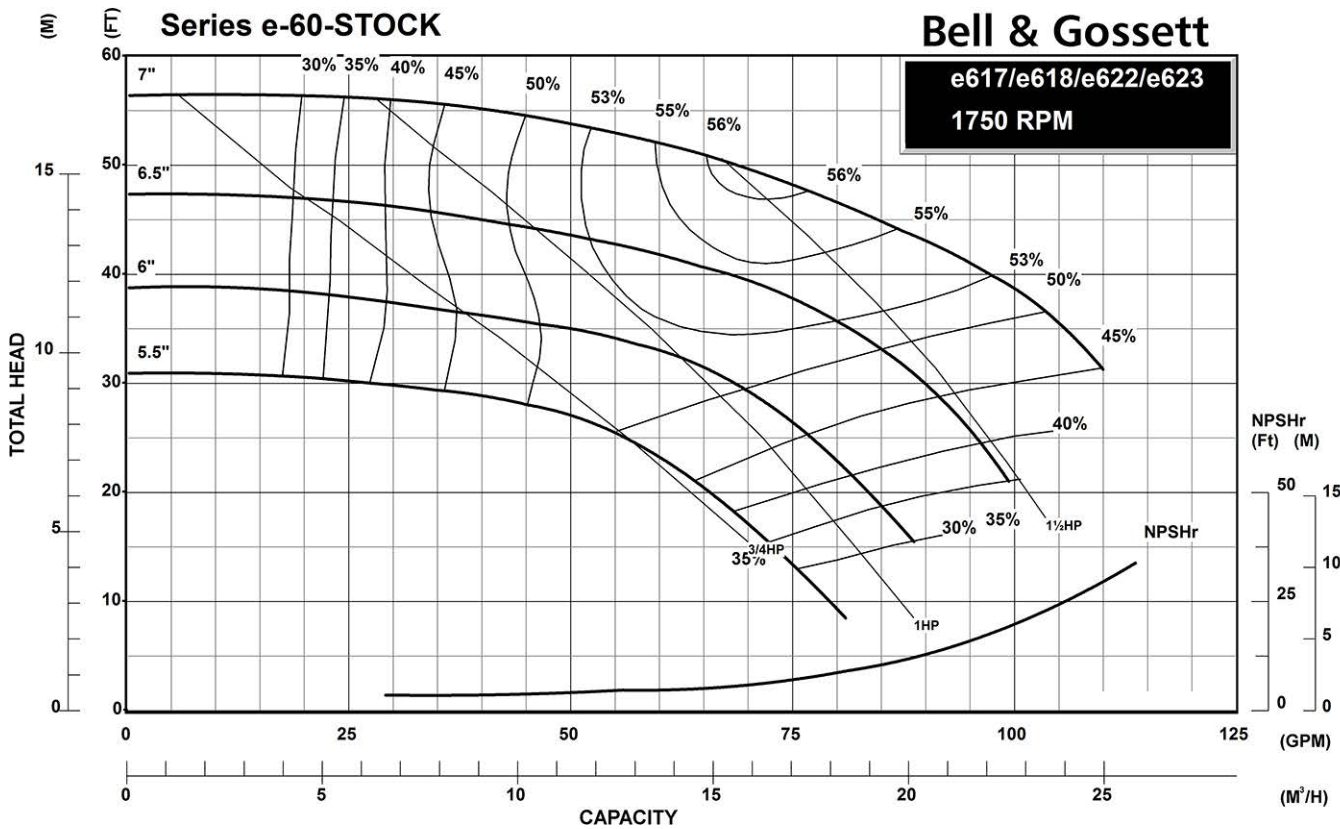
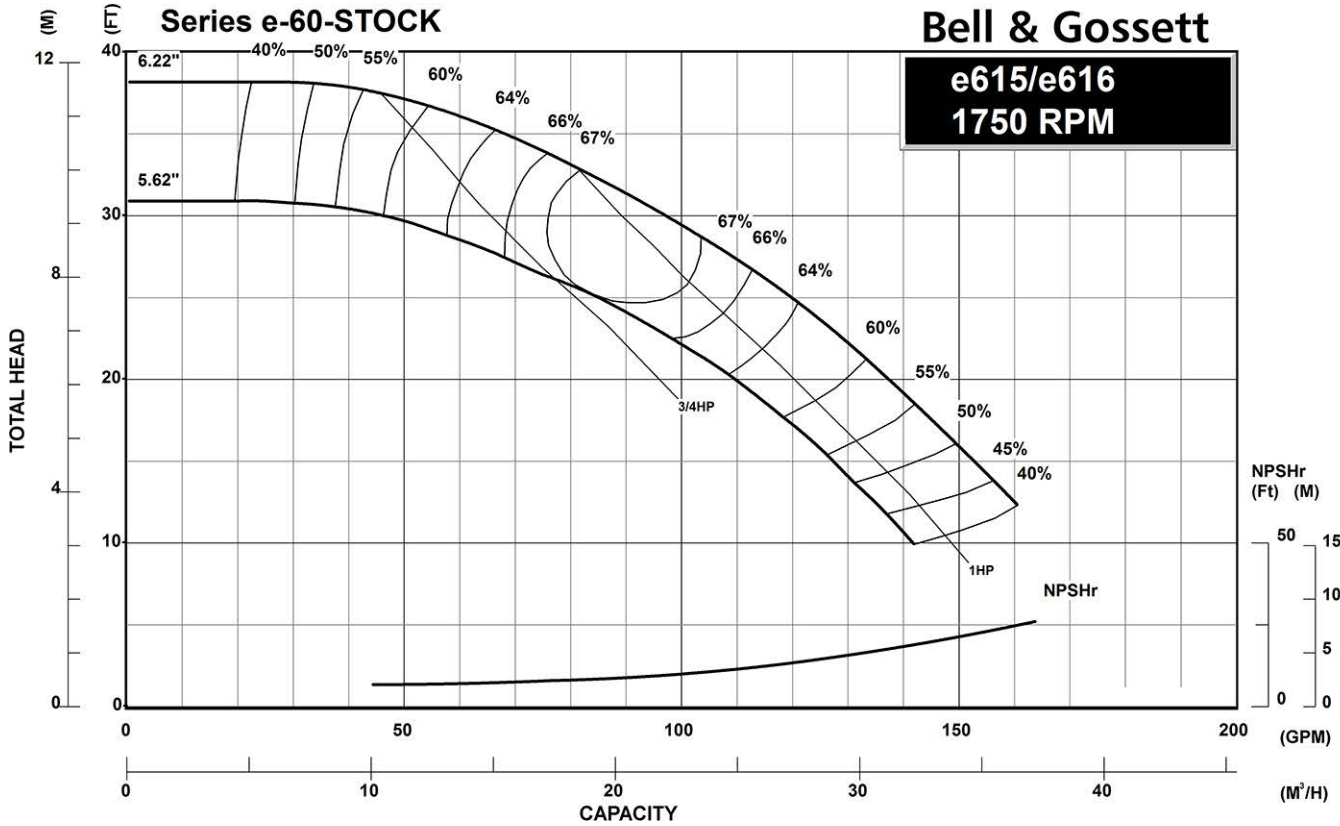


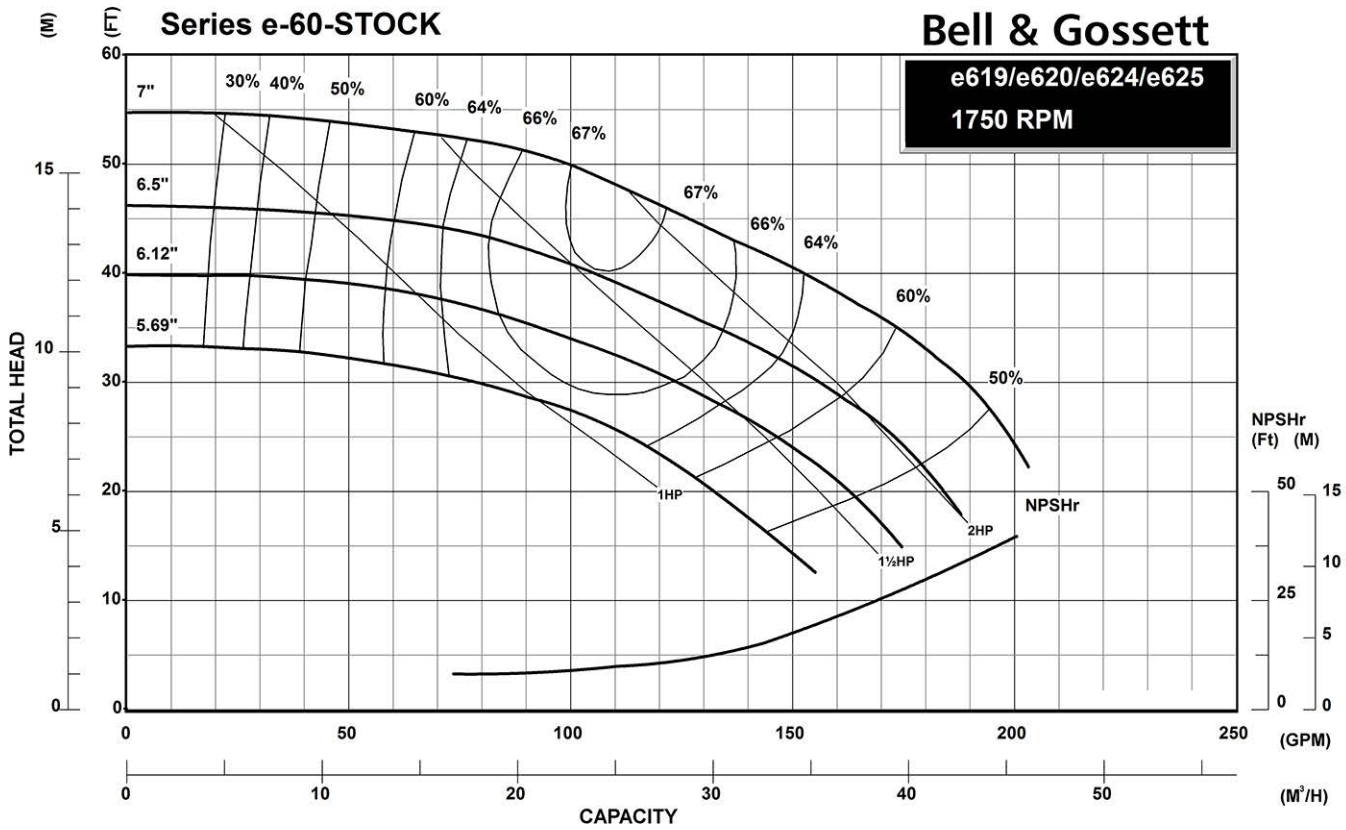
For more precise matching for a specific duty point, consult the Stock Performance Curves on pages 6-10.



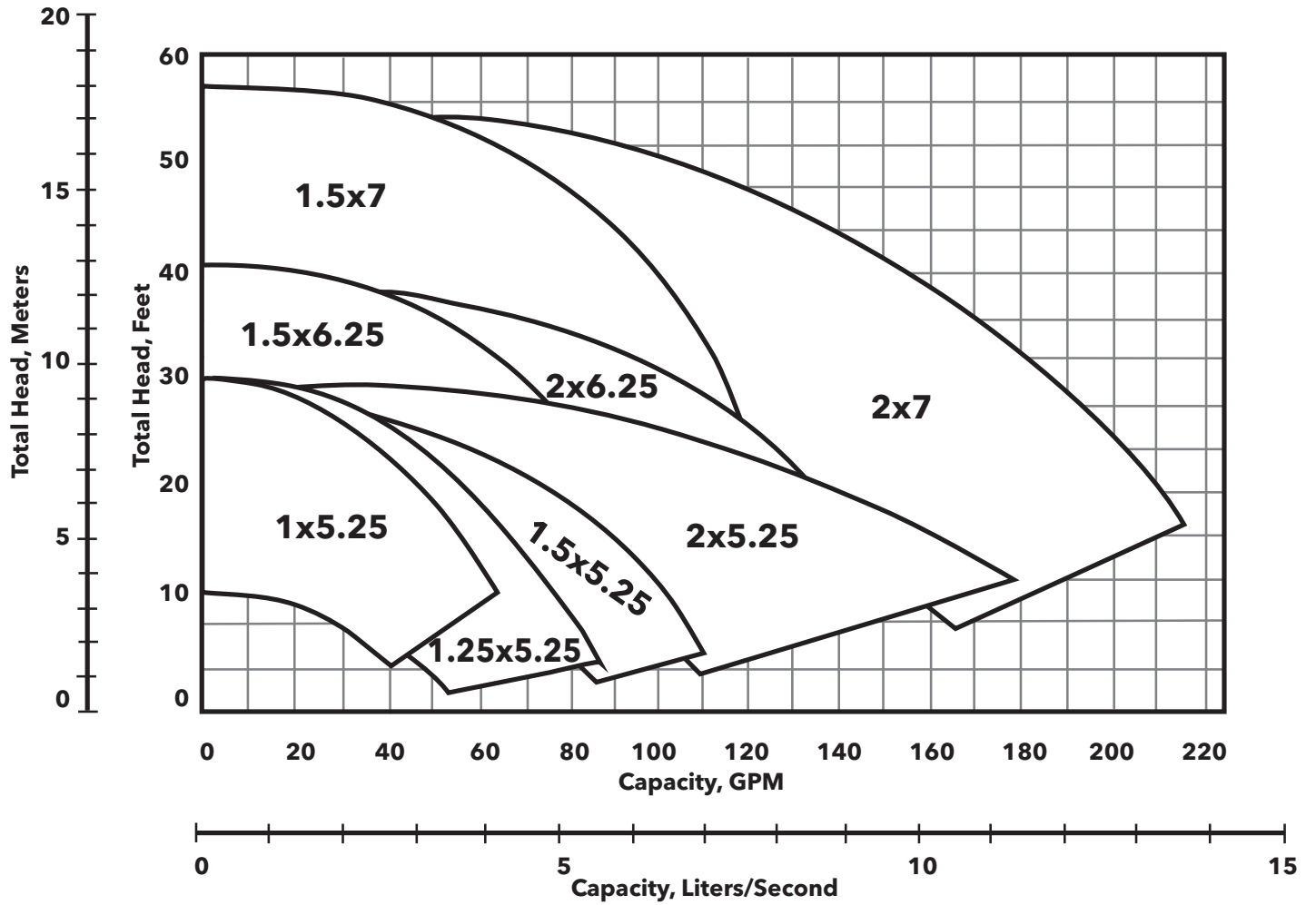


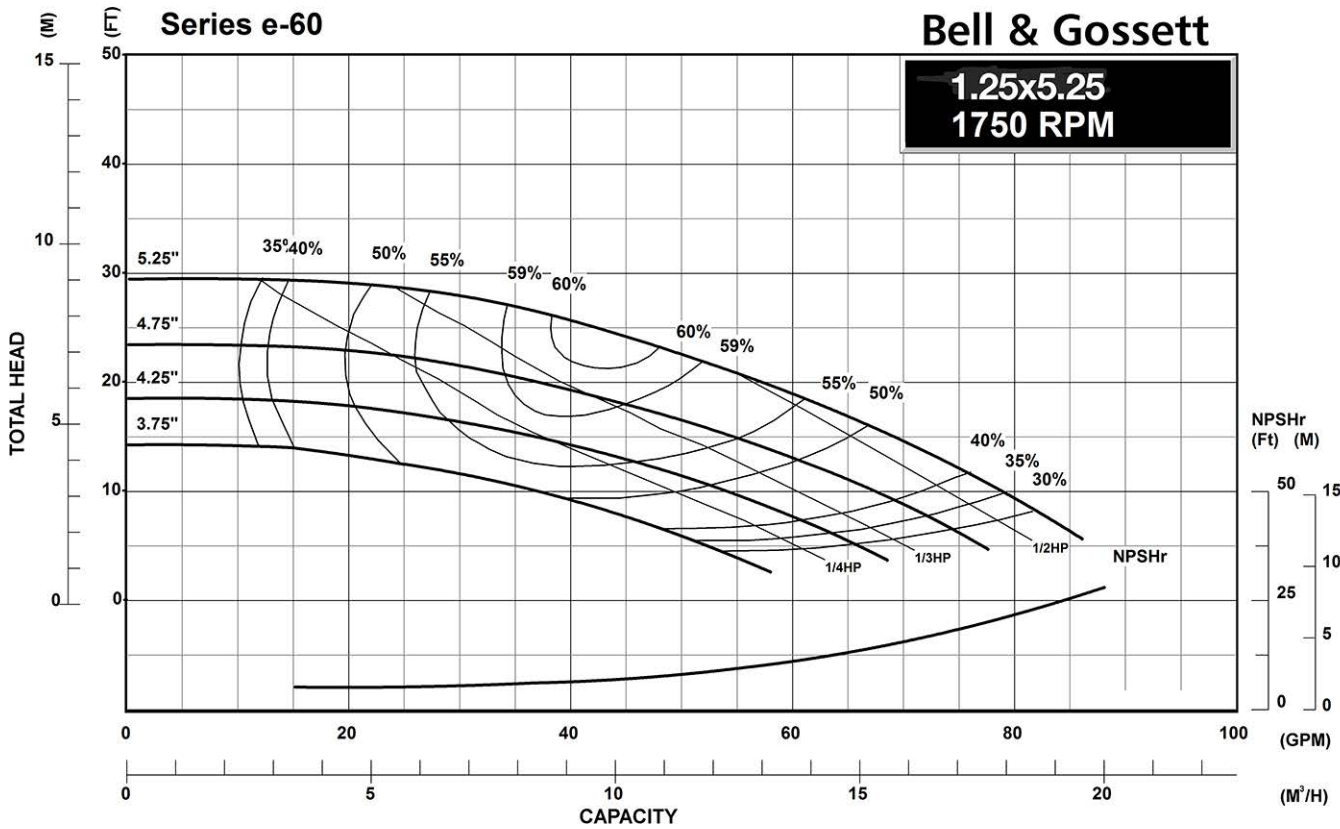
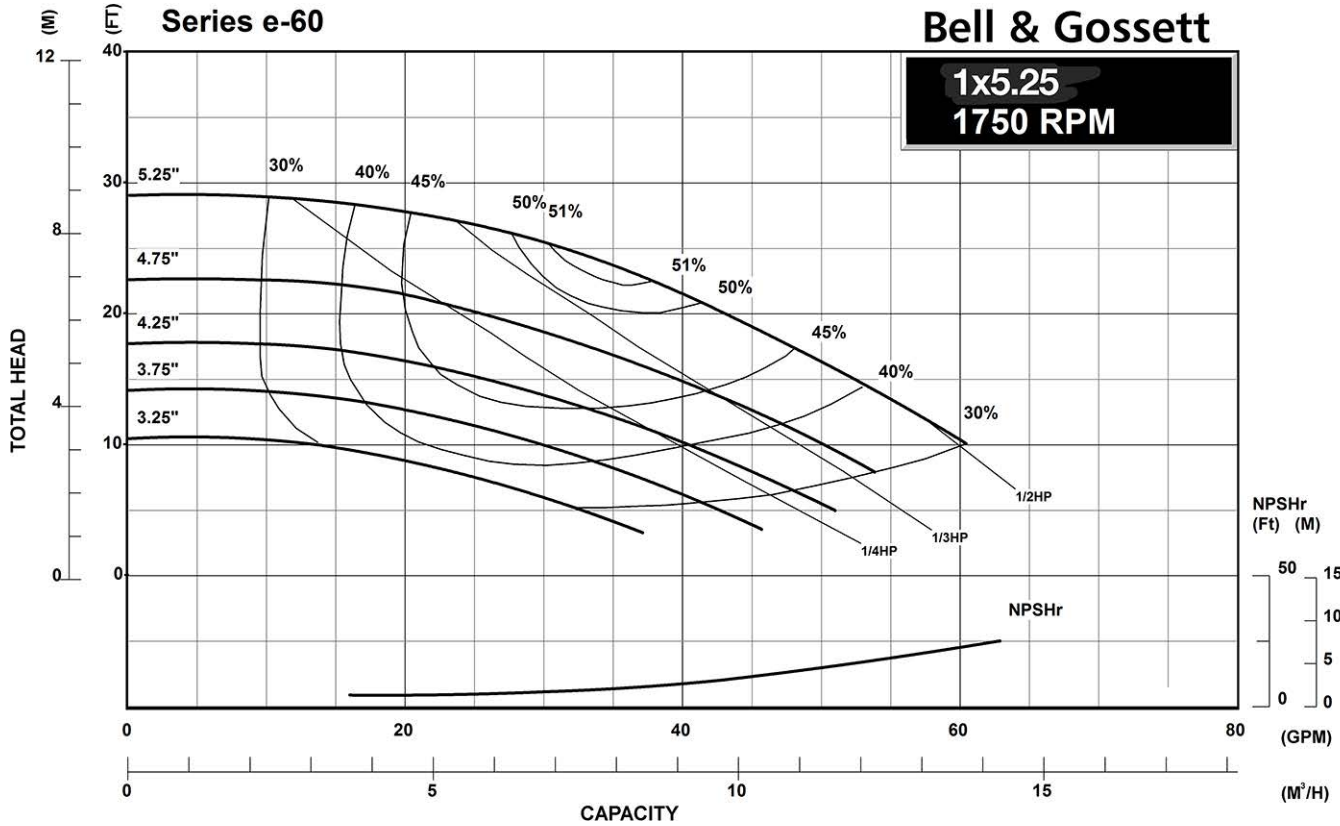


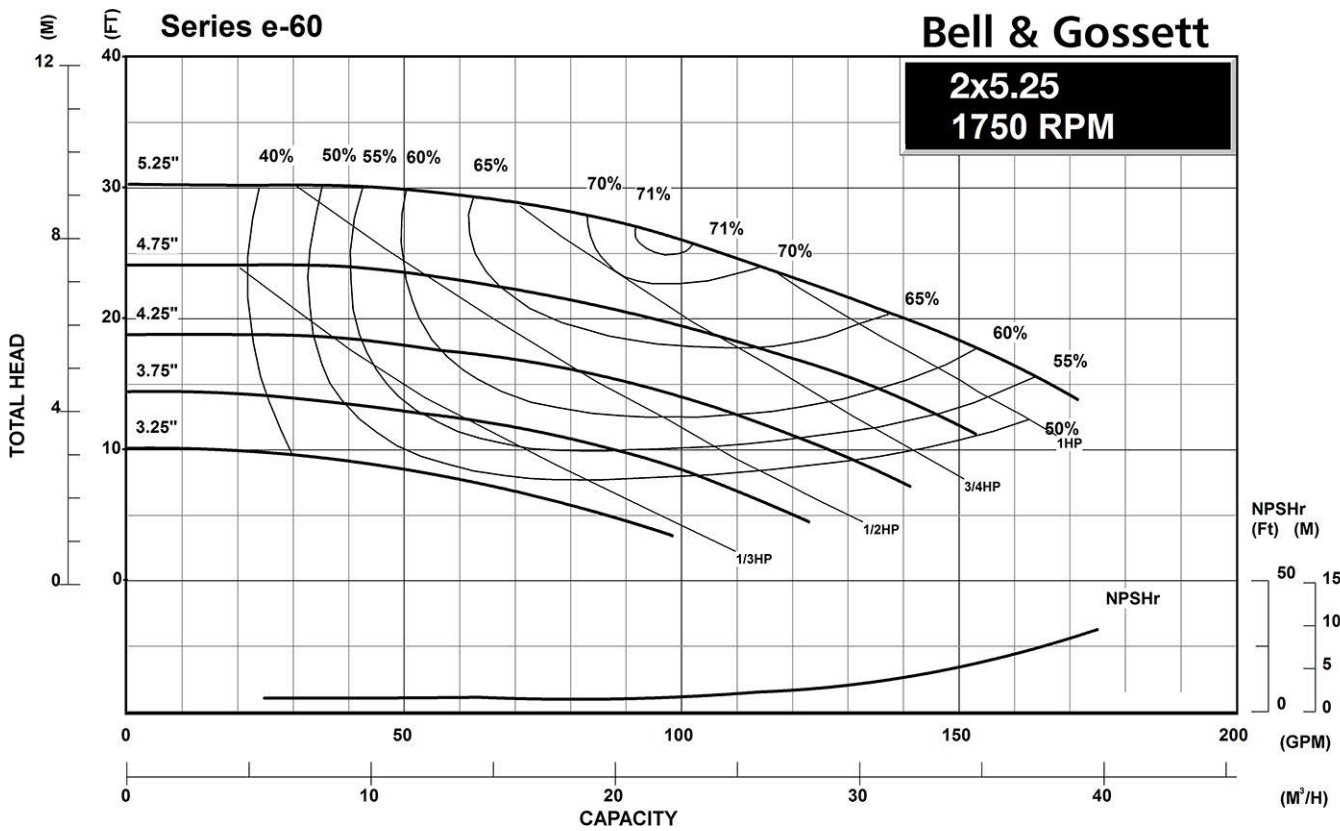
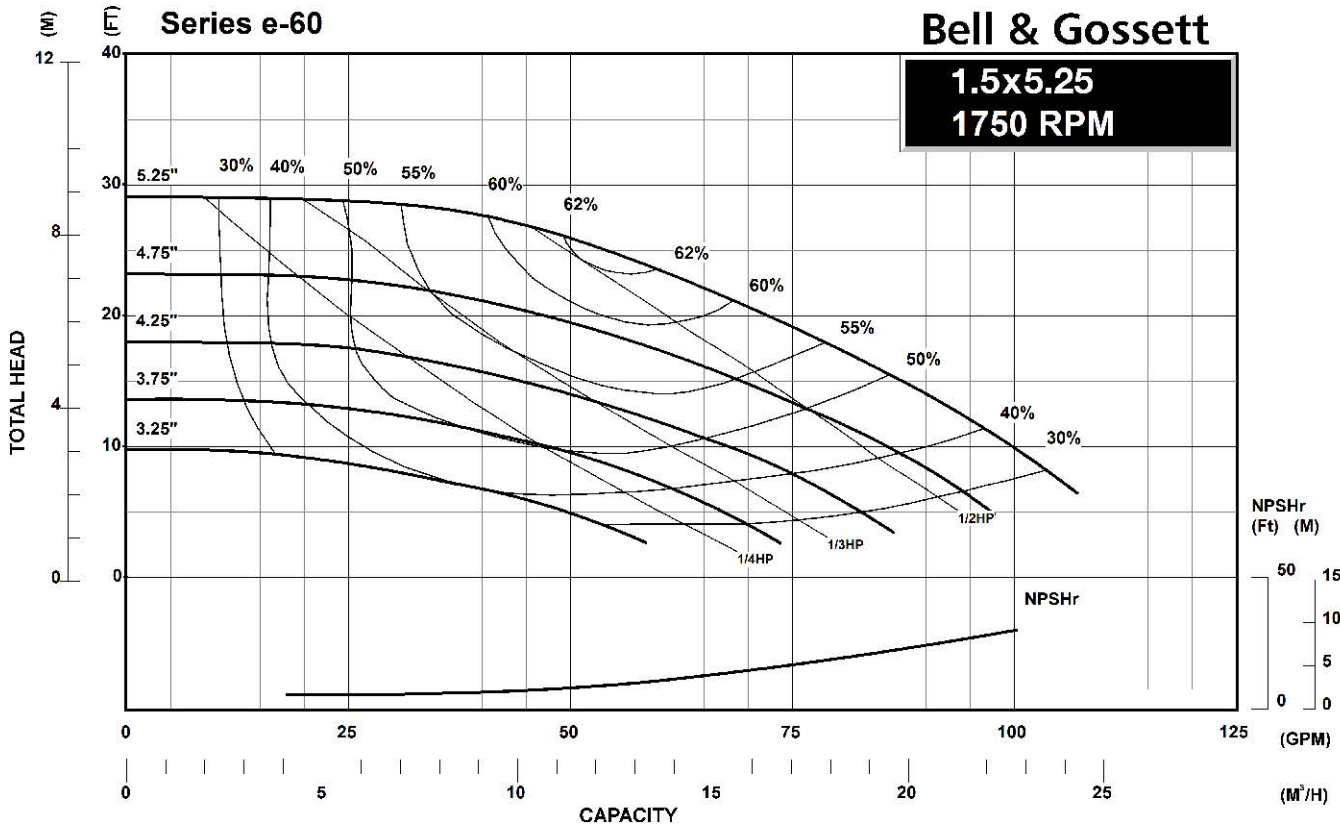


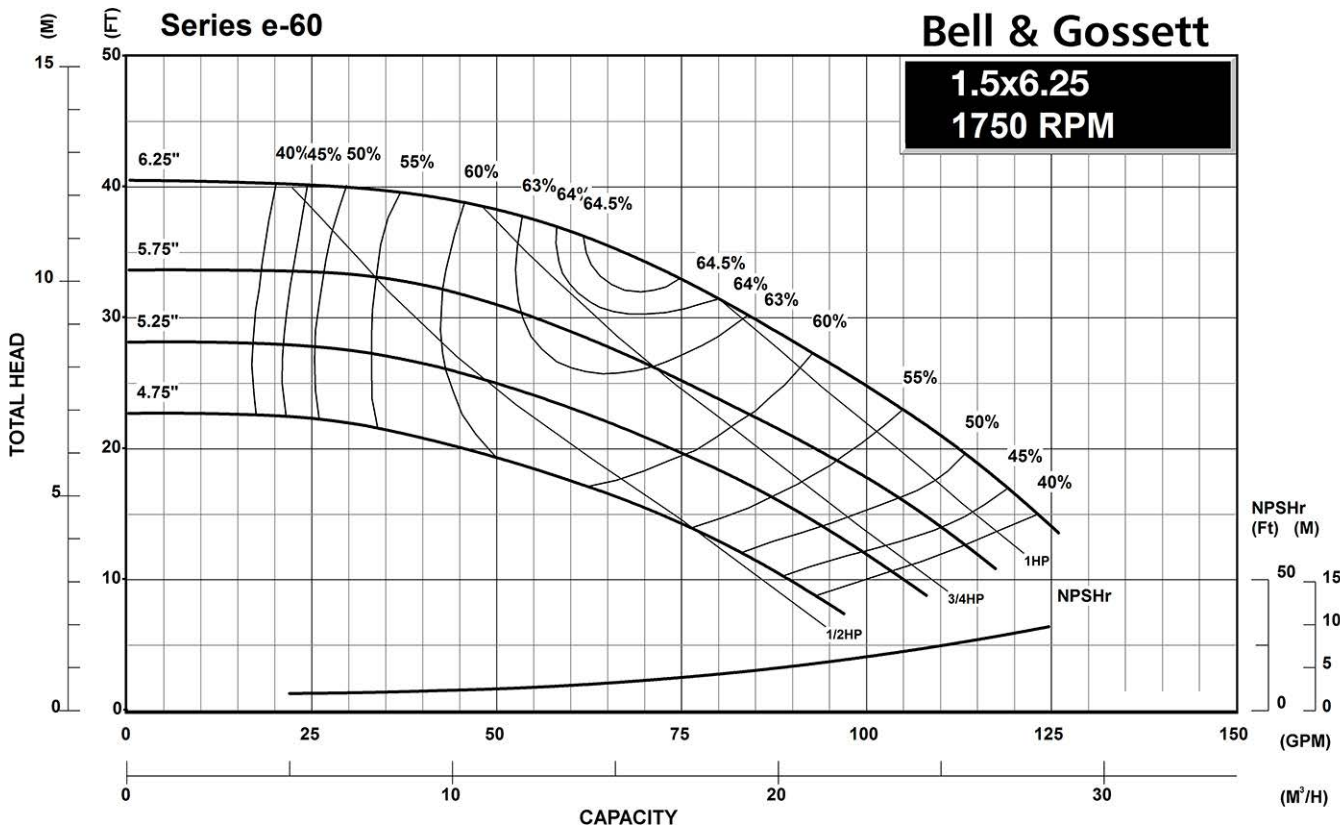
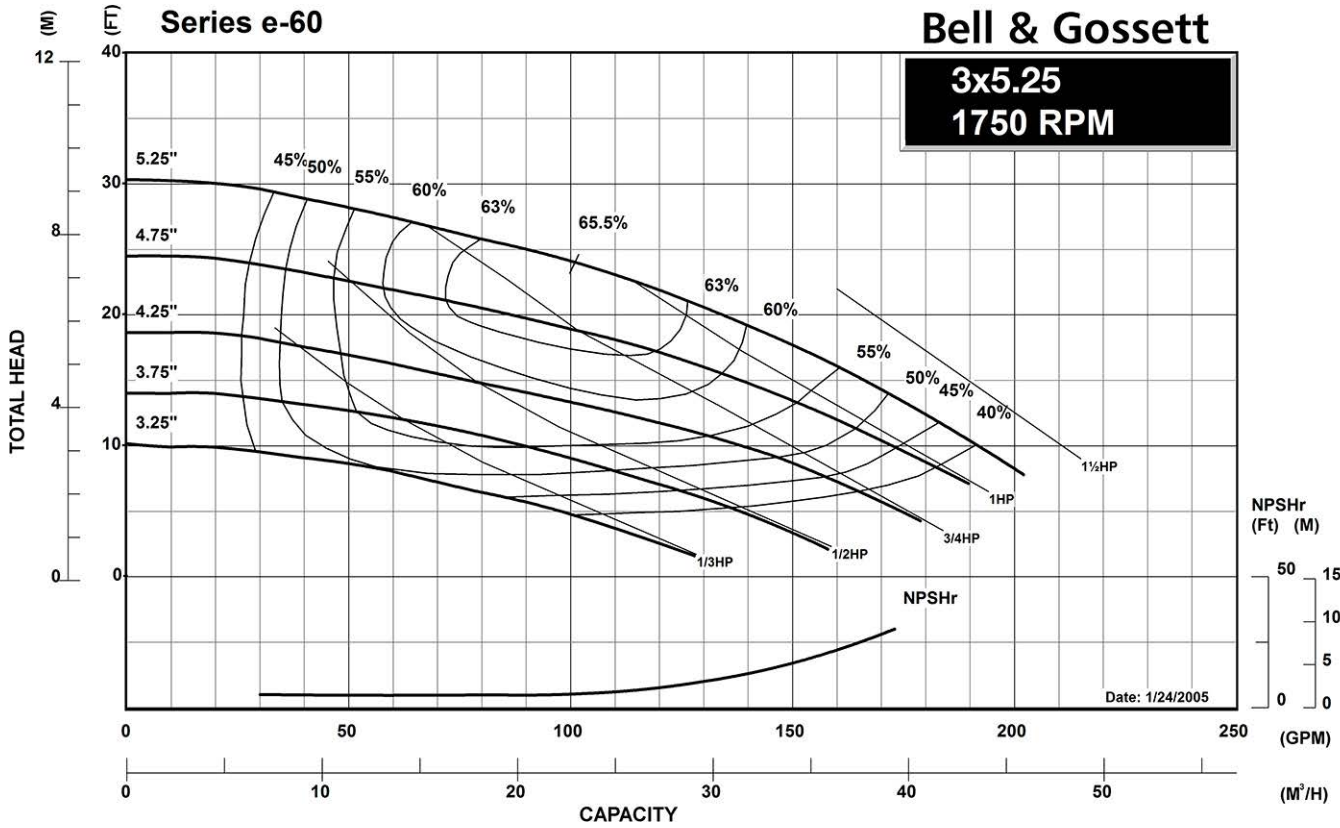


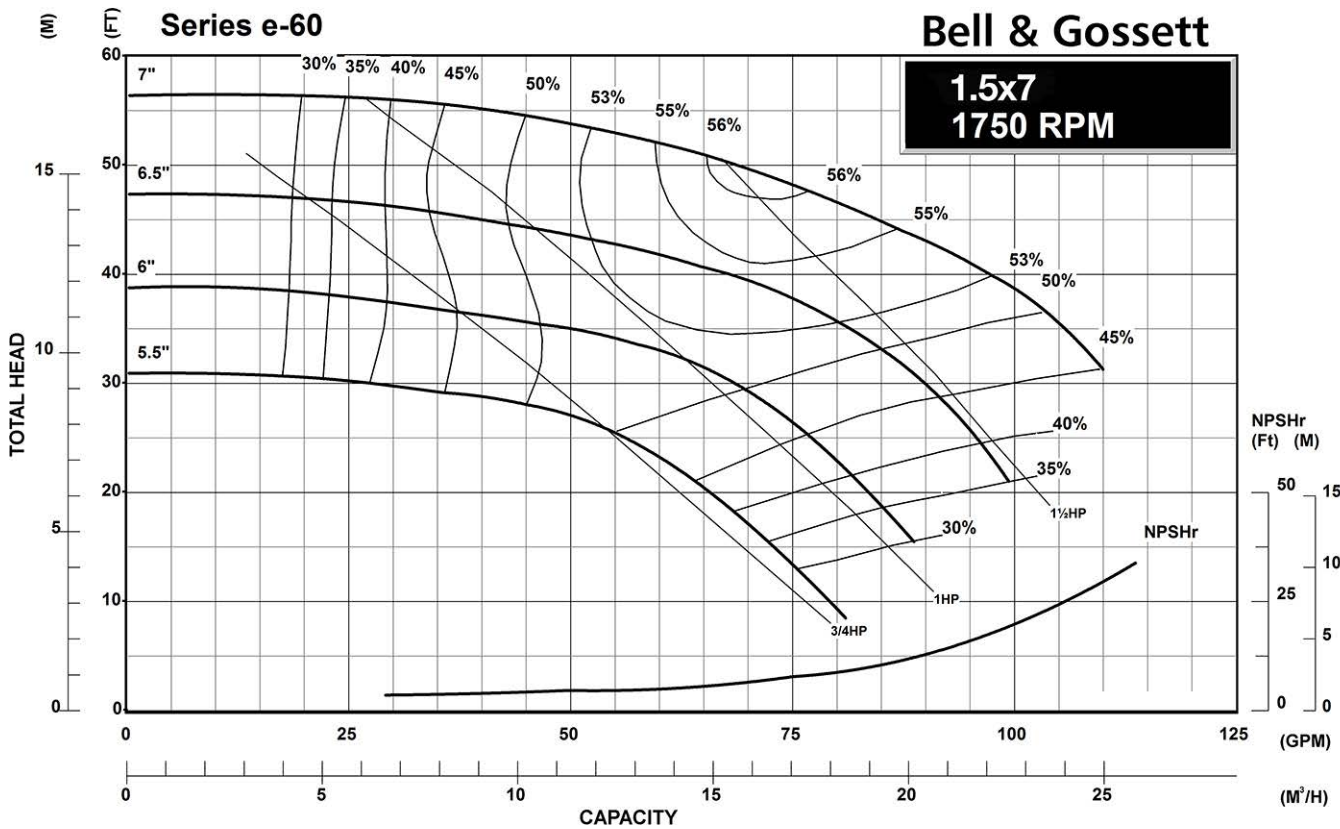
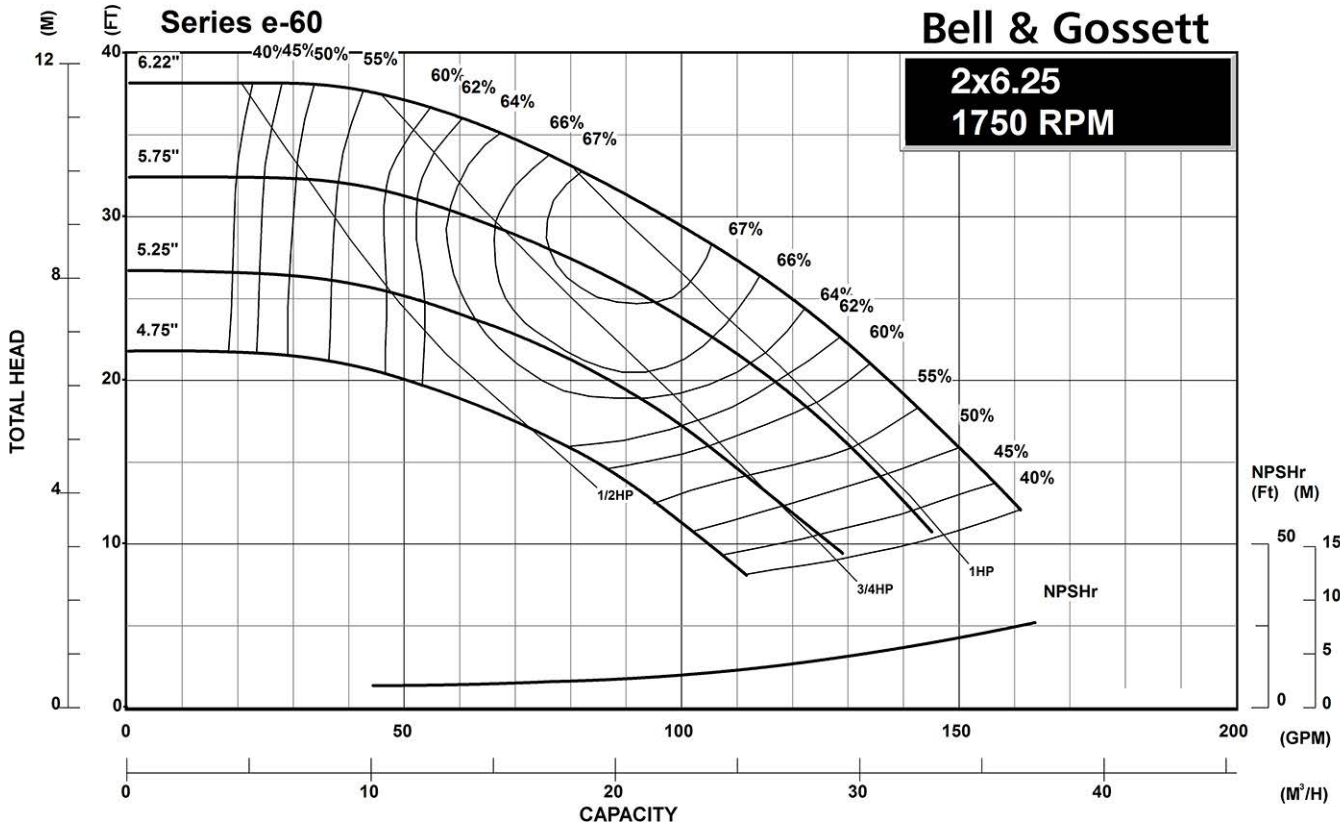
Series e-60 Built-To-Order Selection Chart

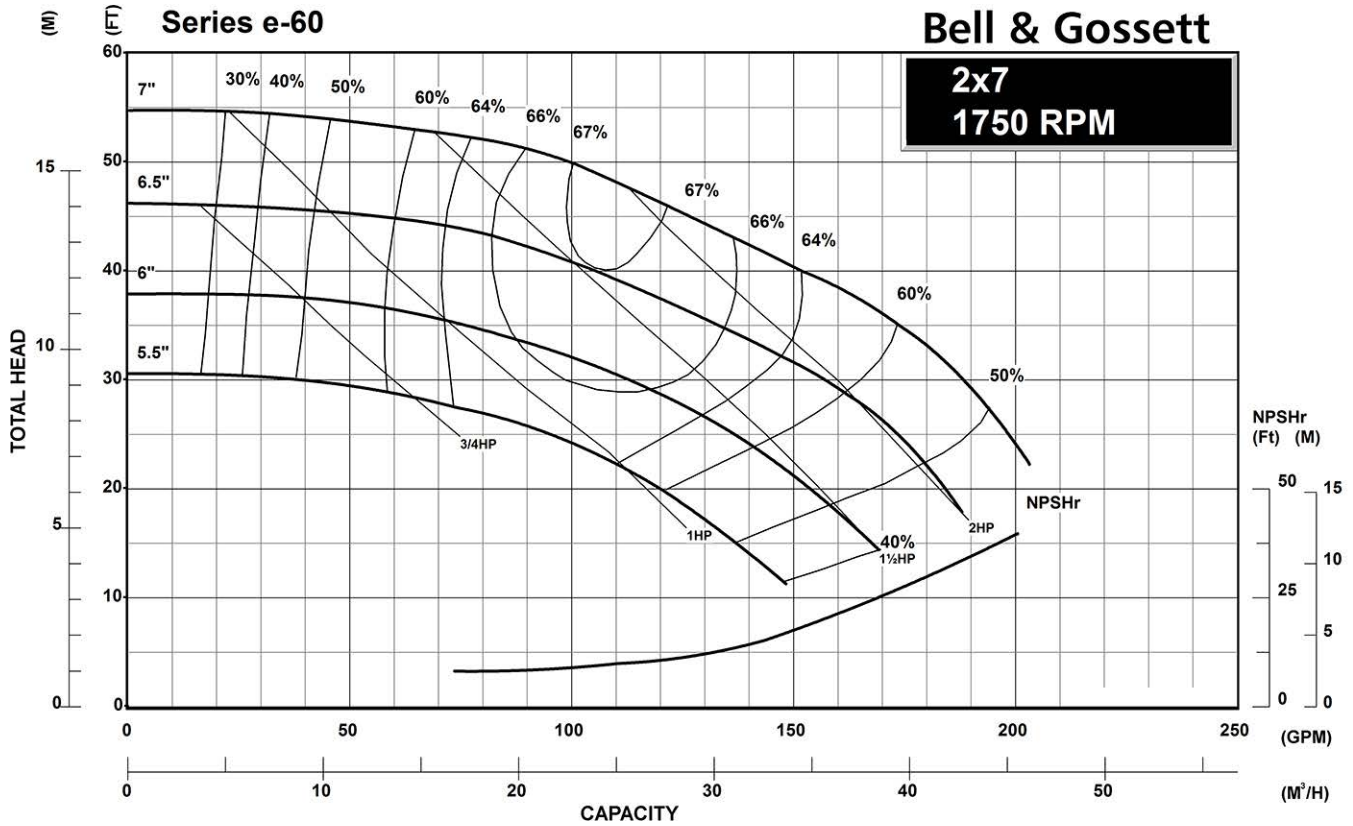












We value your feedback. Please take our 3 question survey at bellgossett.com/survey to let us know how we are doing.



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