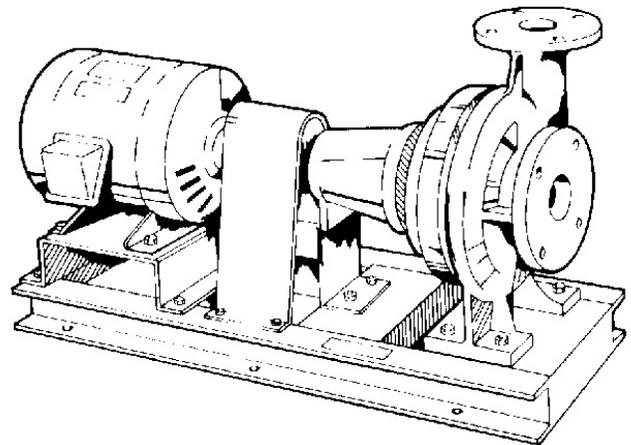
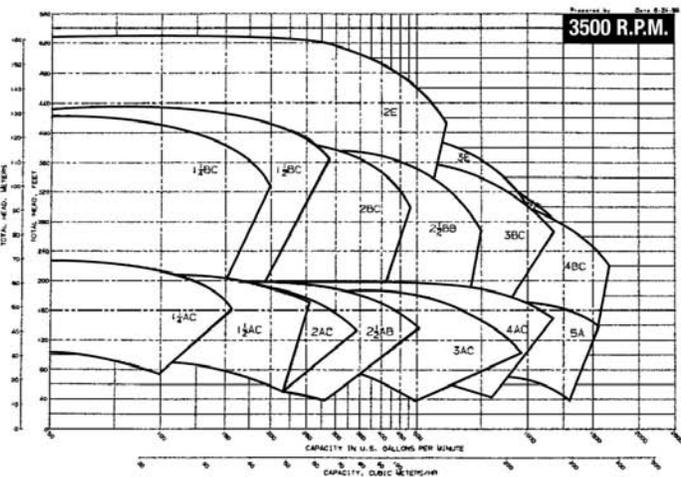
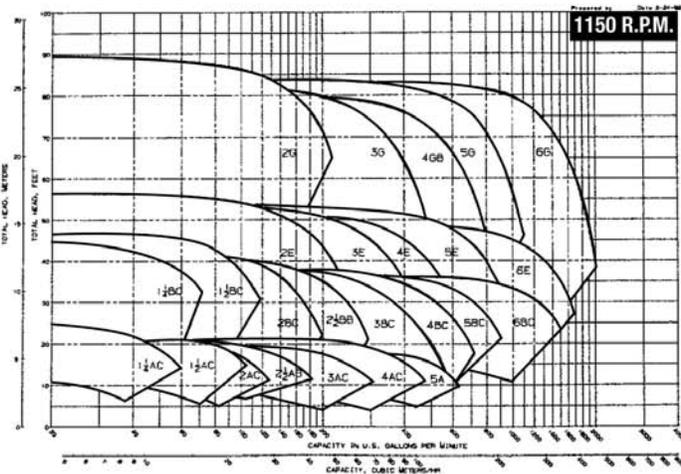
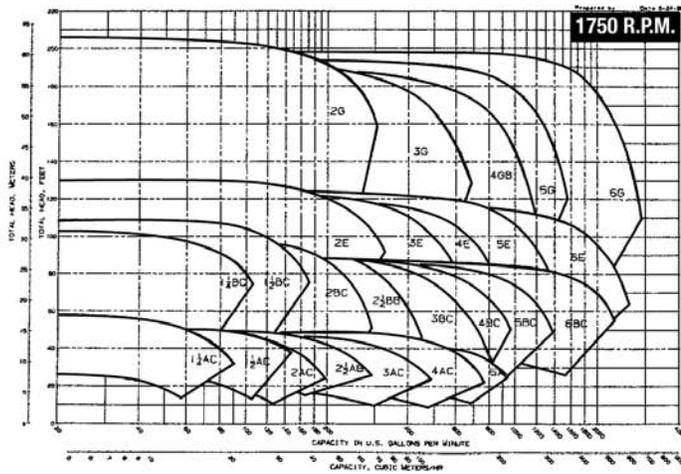


SERIES 1510

BASE MOUNTED CENTRIFUGAL PUMP PERFORMANCE CURVES - 60 HZ



SERIES 1510

TABLE OF CONTENTS

| | |
|----------------------------|----|
| Useful Pump Formulas | 2 |
| 1750 RPM Pump Curves | |
| A - Size Curves | 3 |
| B - Size Curves | 6 |
| E - Size Curves | 10 |
| G - Size Curves | 13 |
| 1150 RPM Pump Curves | |
| A - Size Curves | 16 |
| B - Size Curves | 19 |
| E - Size Curves | 23 |
| G - Size Curves | 26 |
| 3500 RPM Pump Curves | |
| A - Size Curves | 29 |
| B - Size Curves | 32 |
| E - Size Curves | 35 |
| Pump Dimensions | 37 |

USEFUL PUMP FORMULAS

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

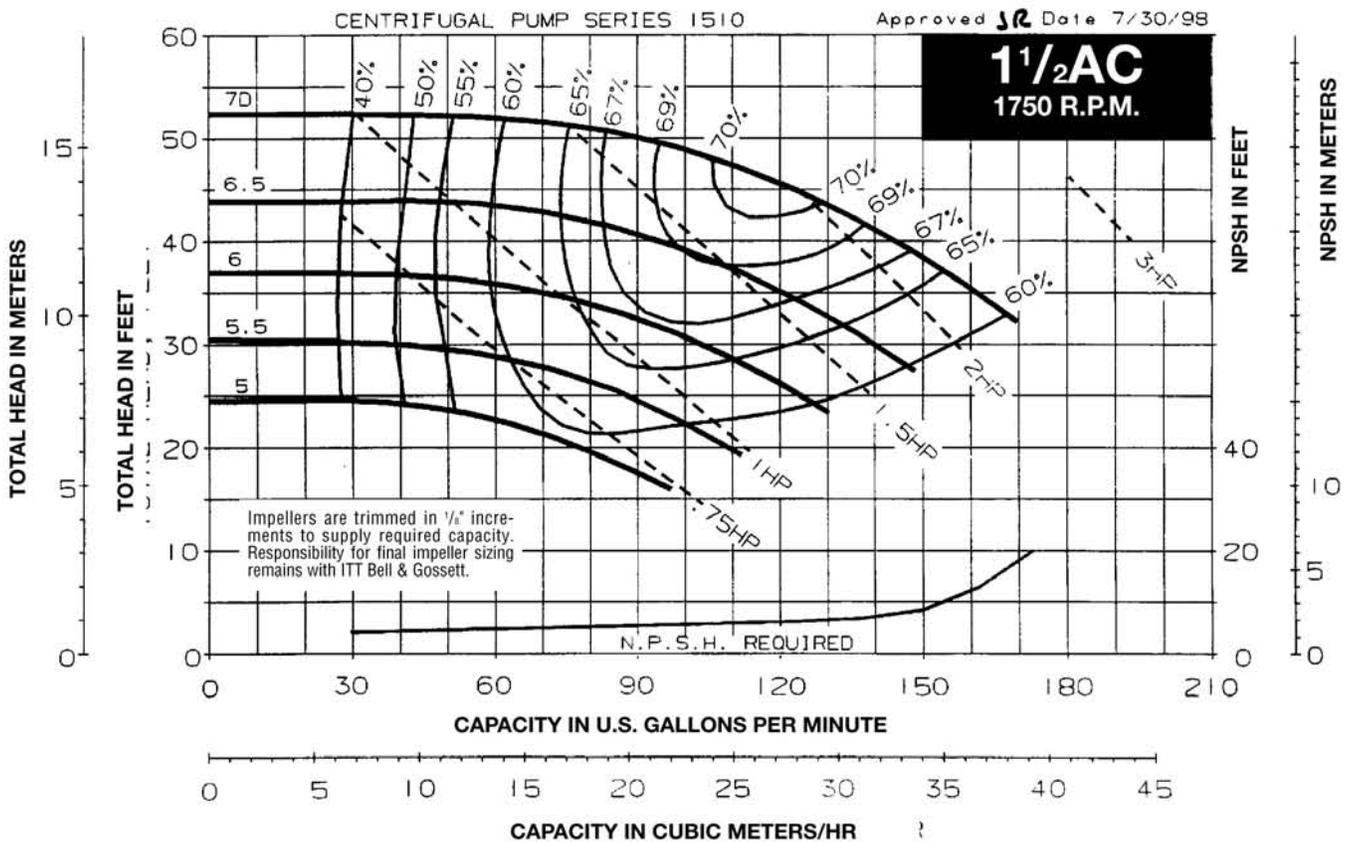
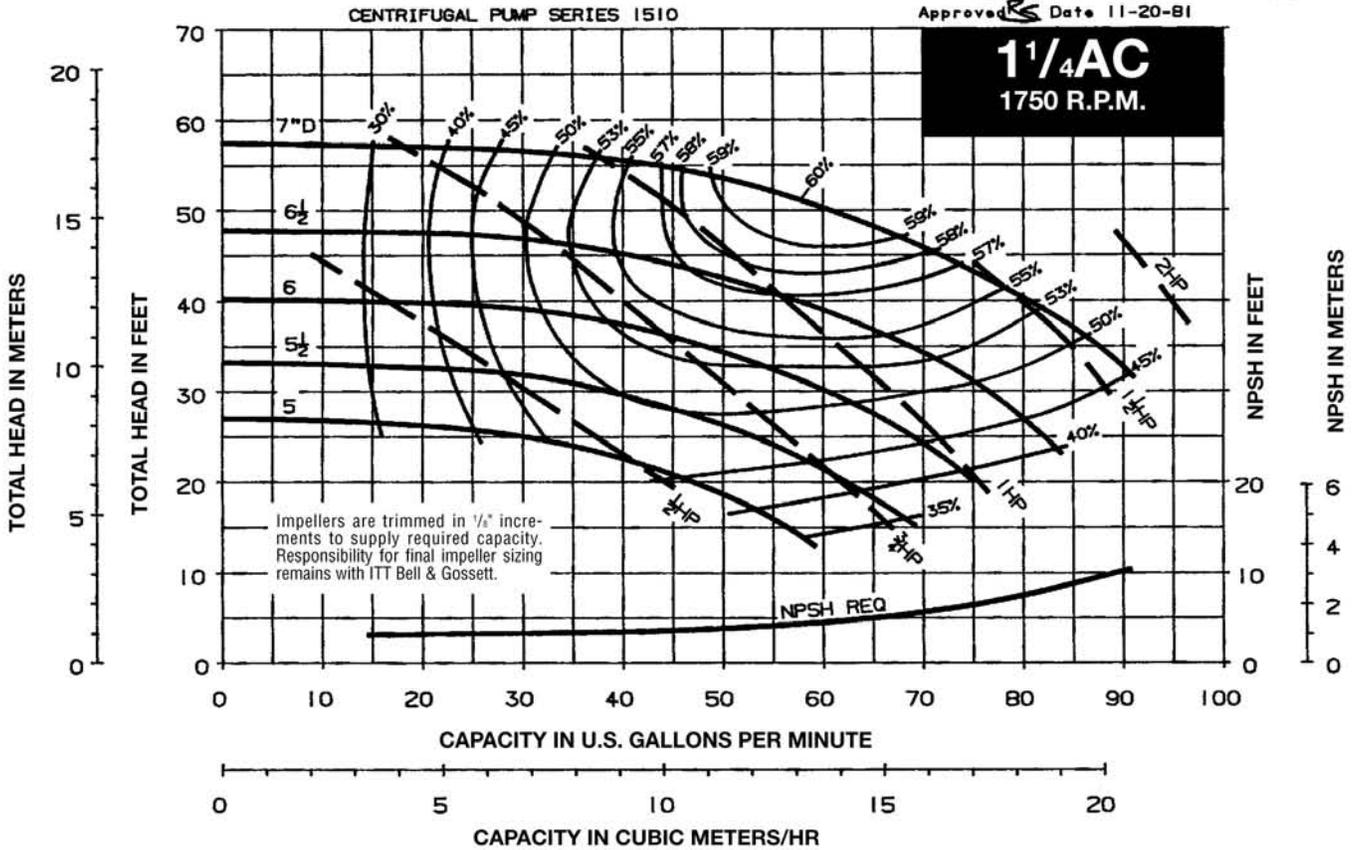
Affinity Laws: Effect of change of speed or impeller diameter on centrifugal pumps.

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

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

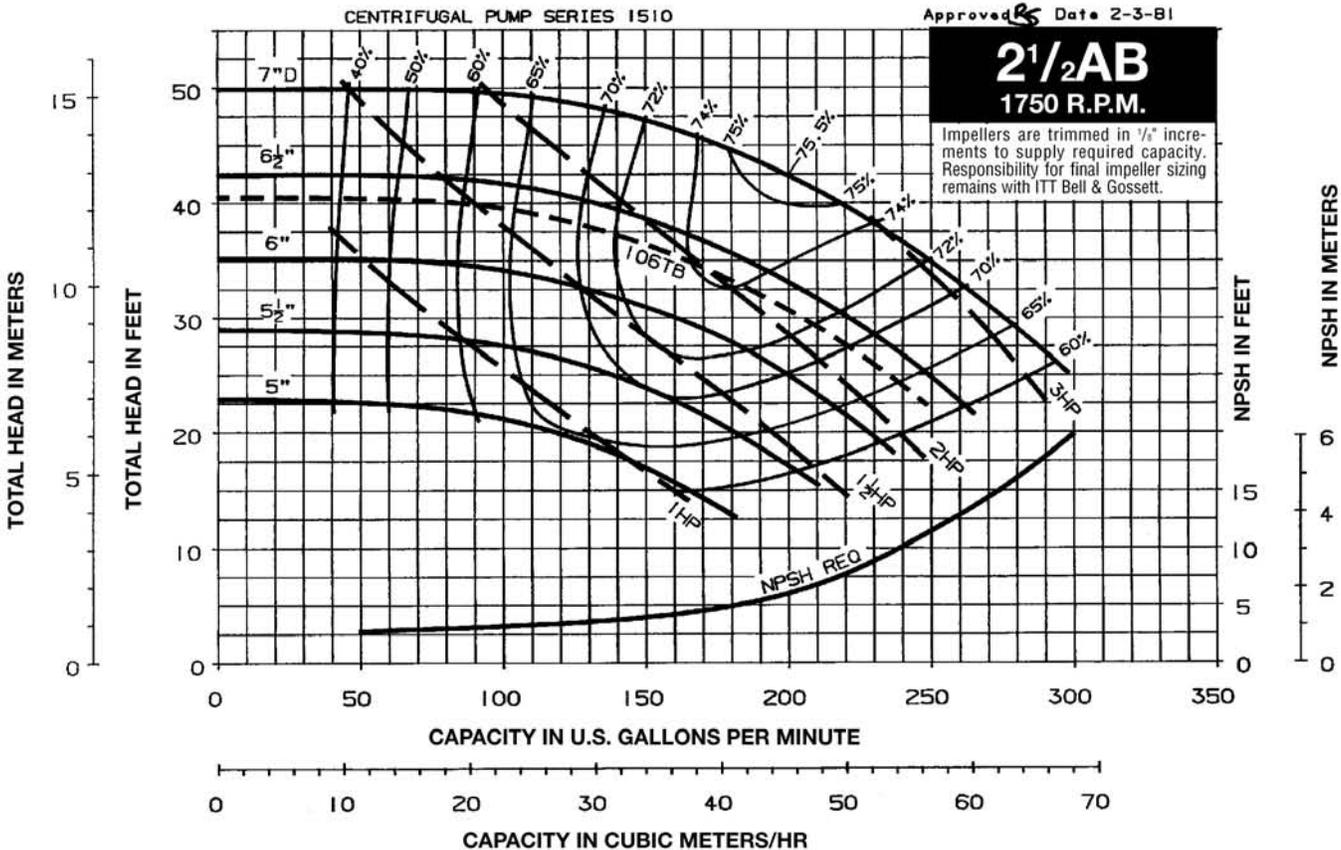
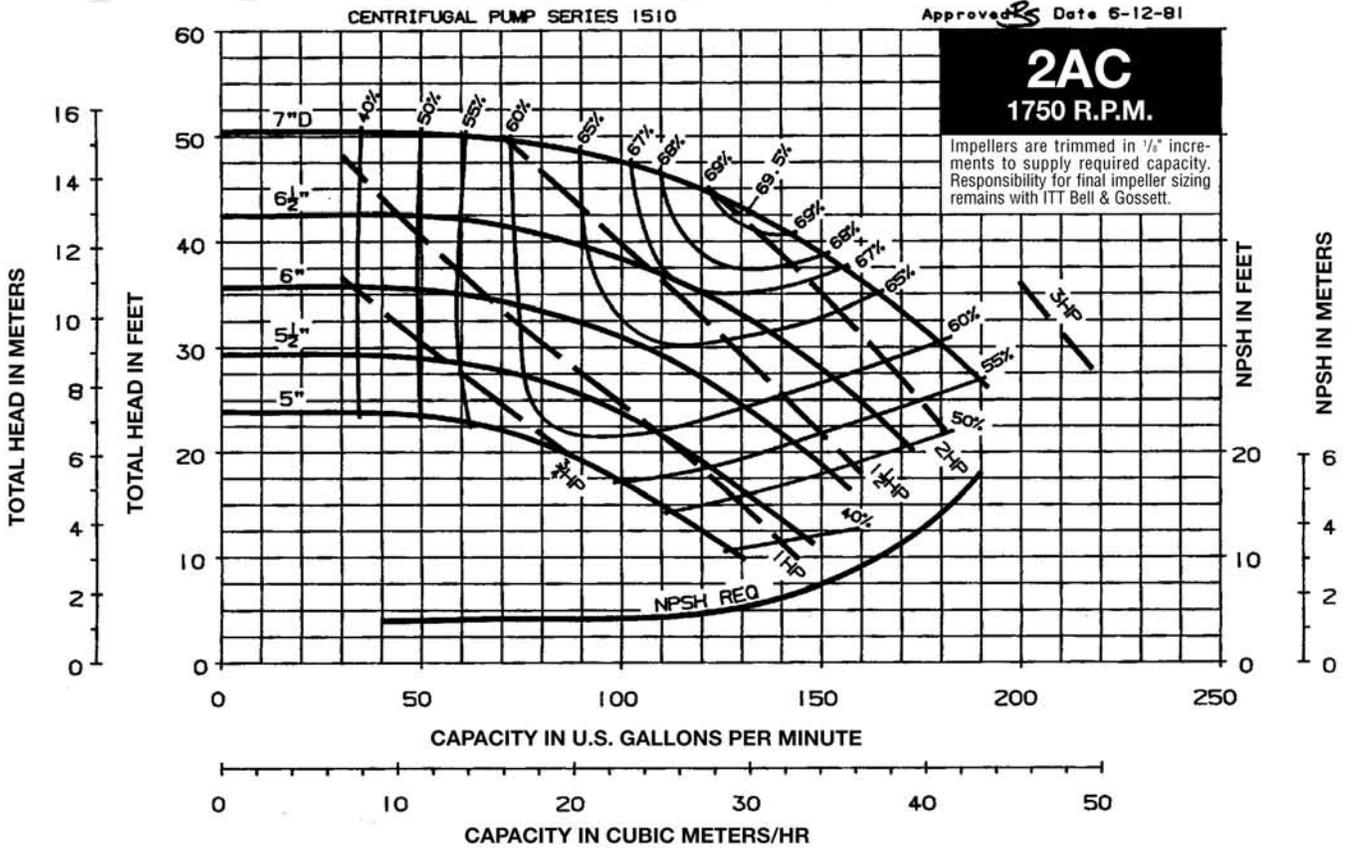
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1750 RPM PUMP CURVES



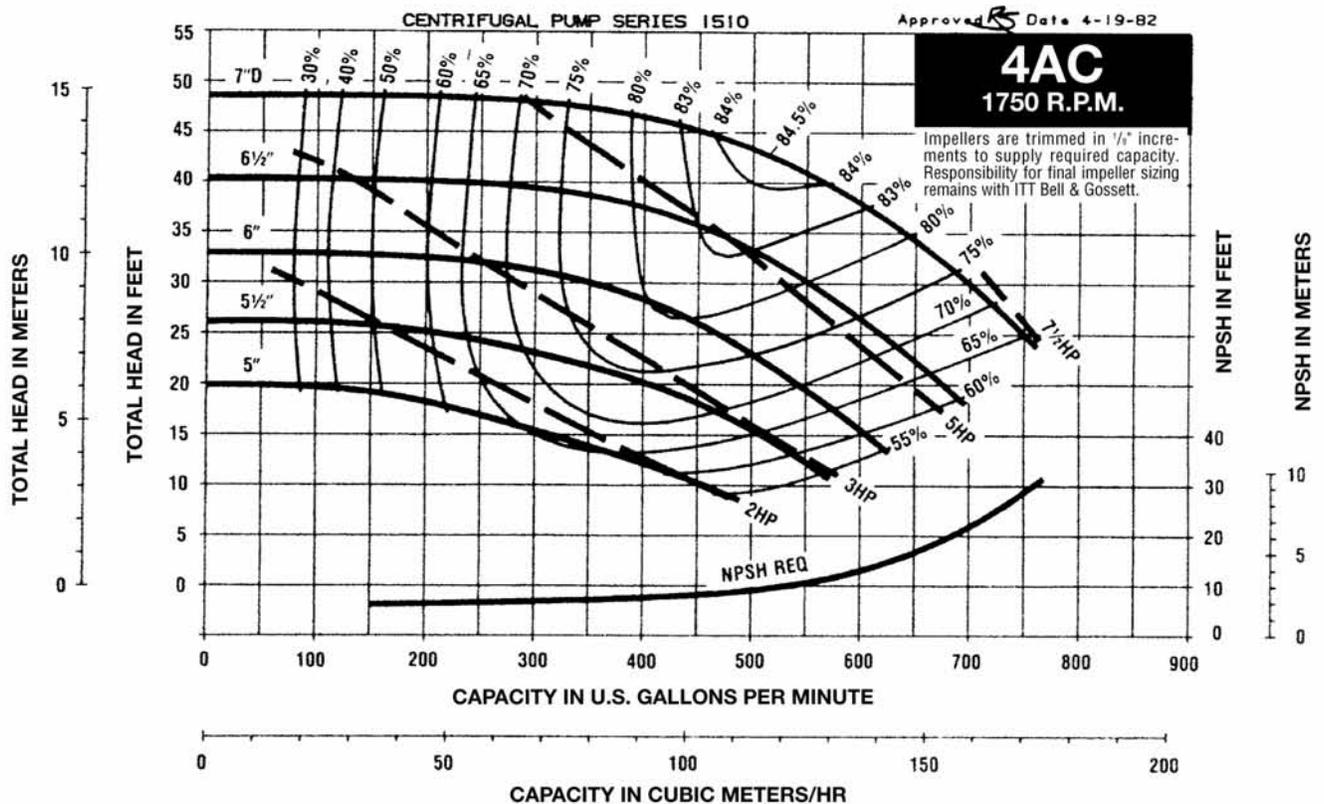
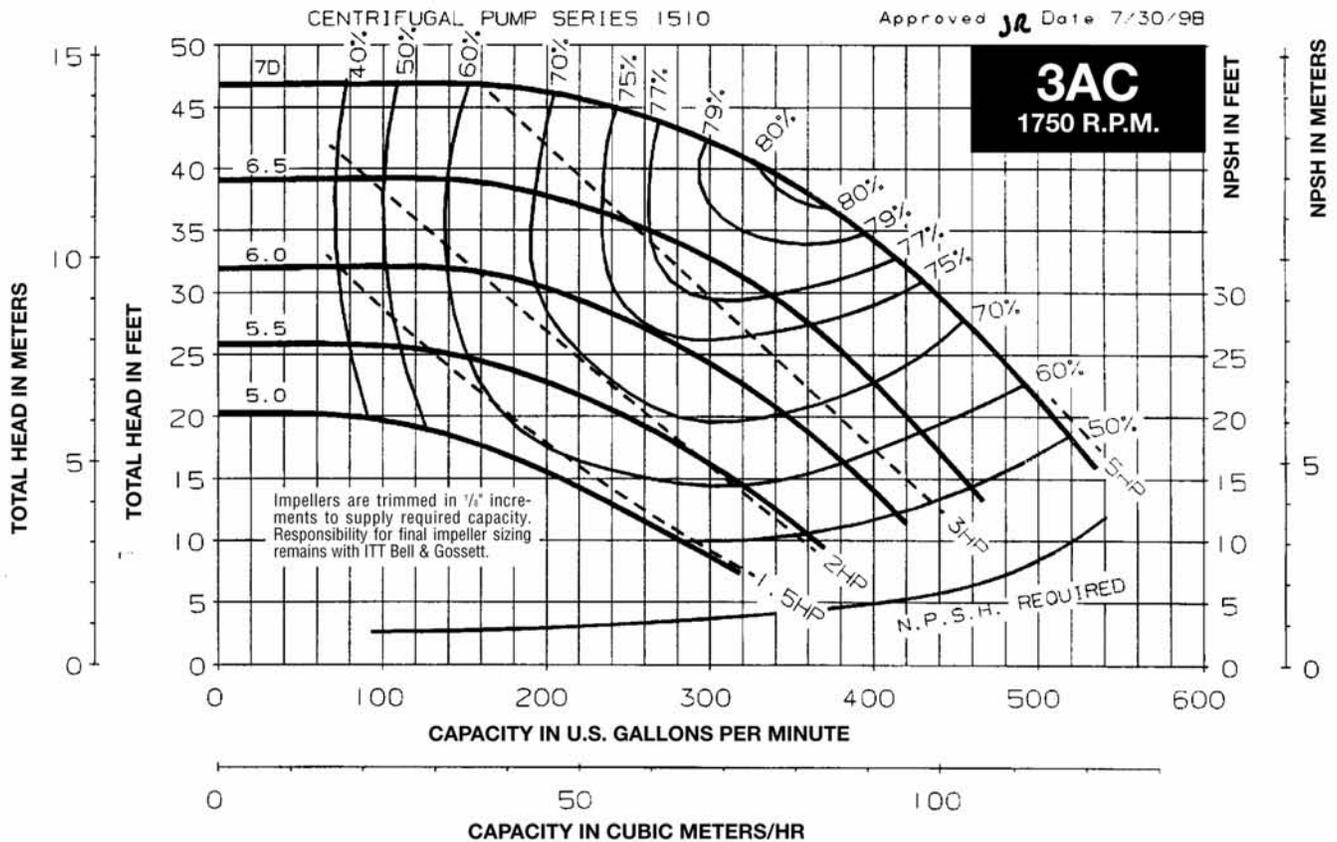
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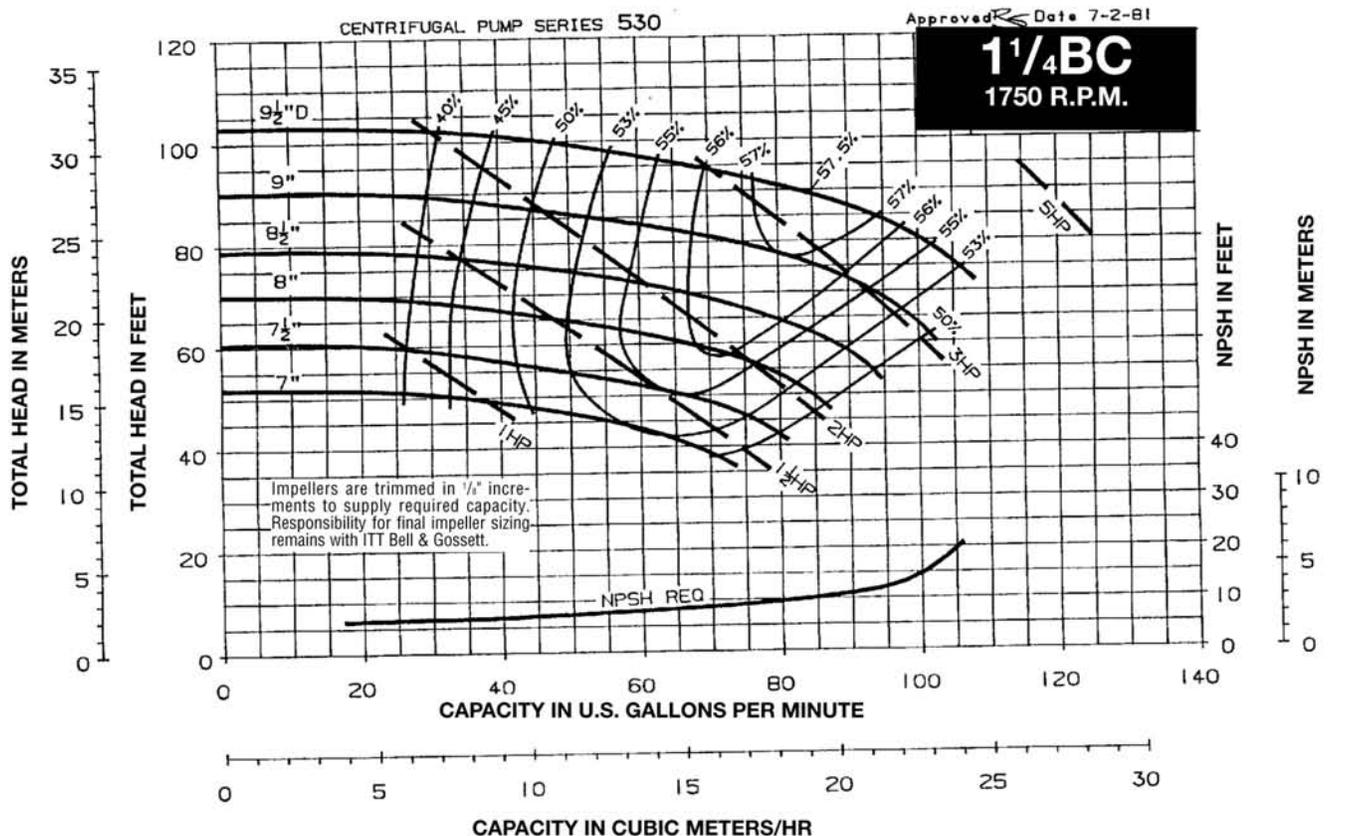
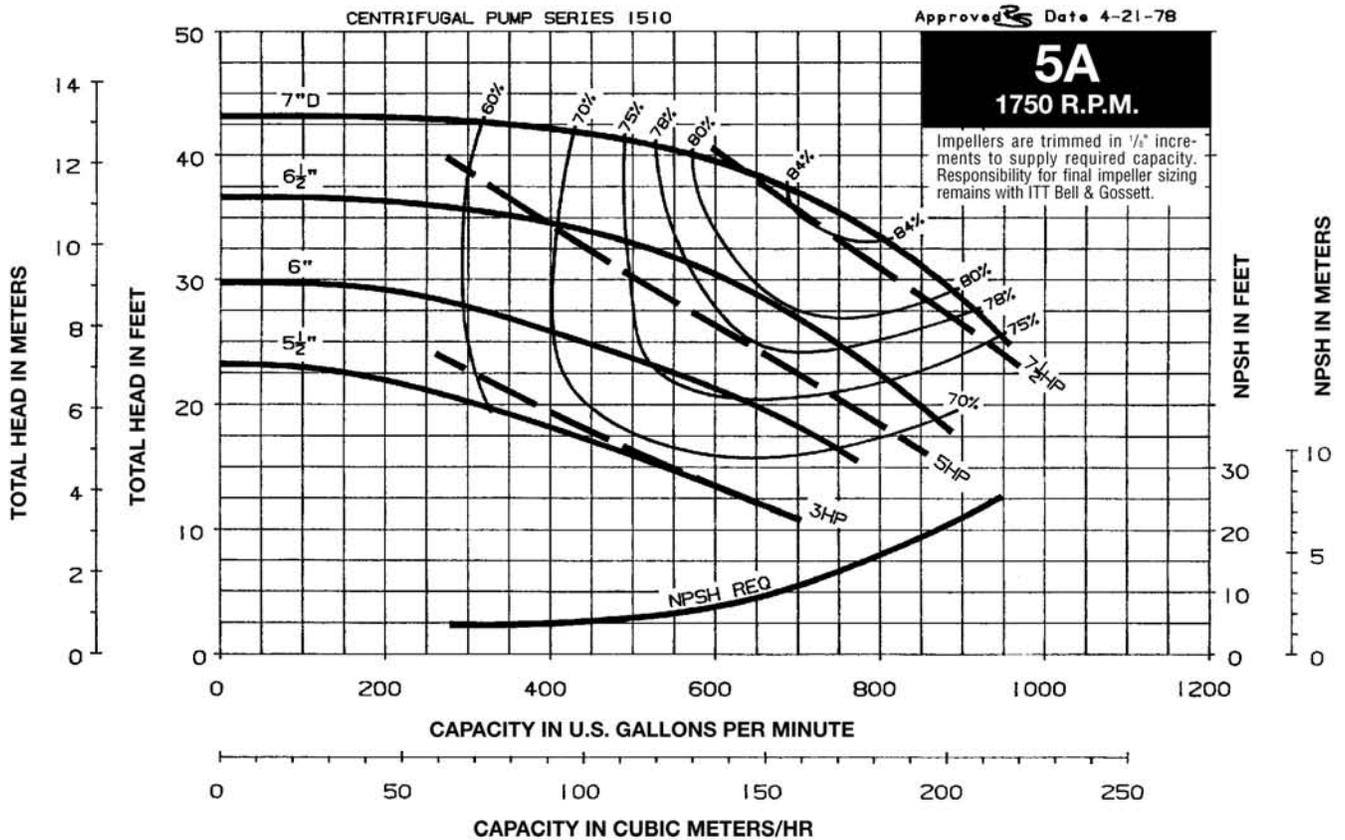
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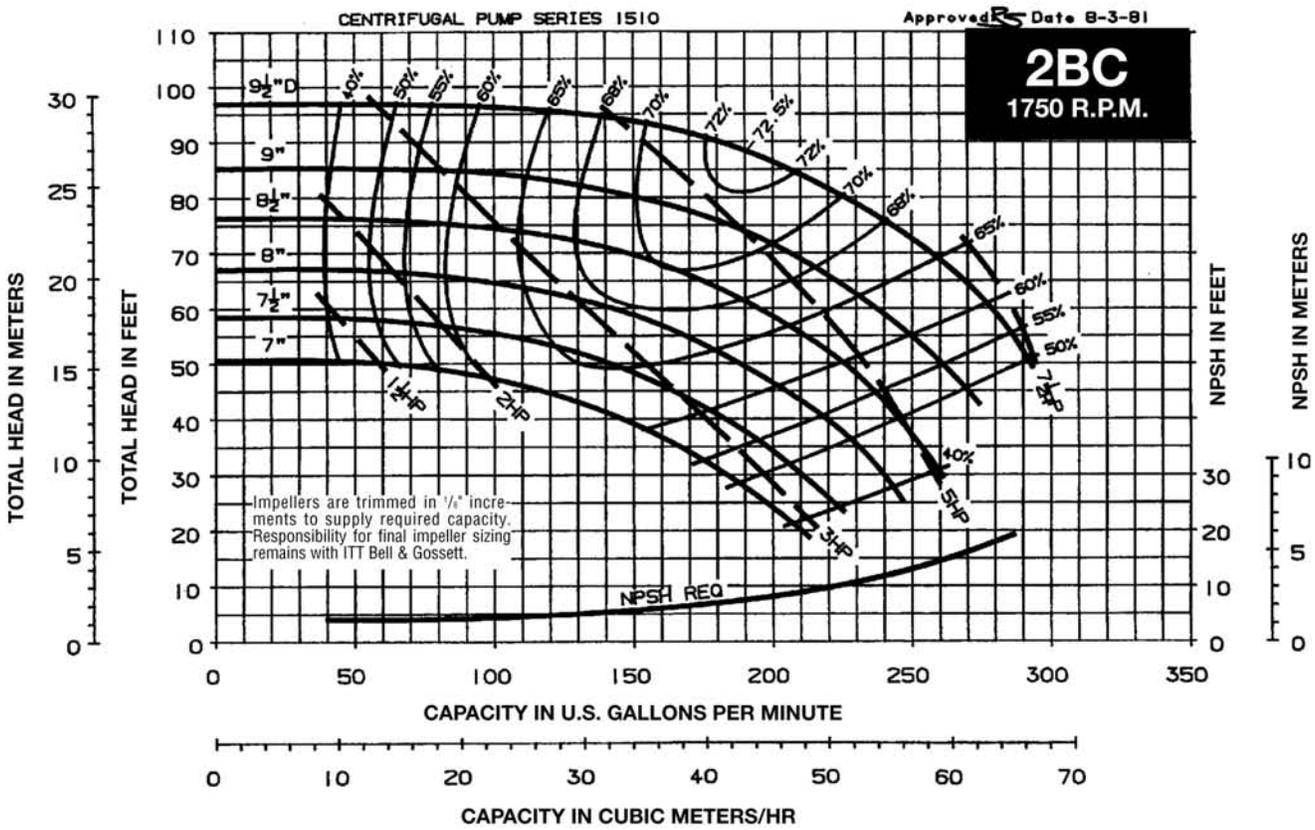
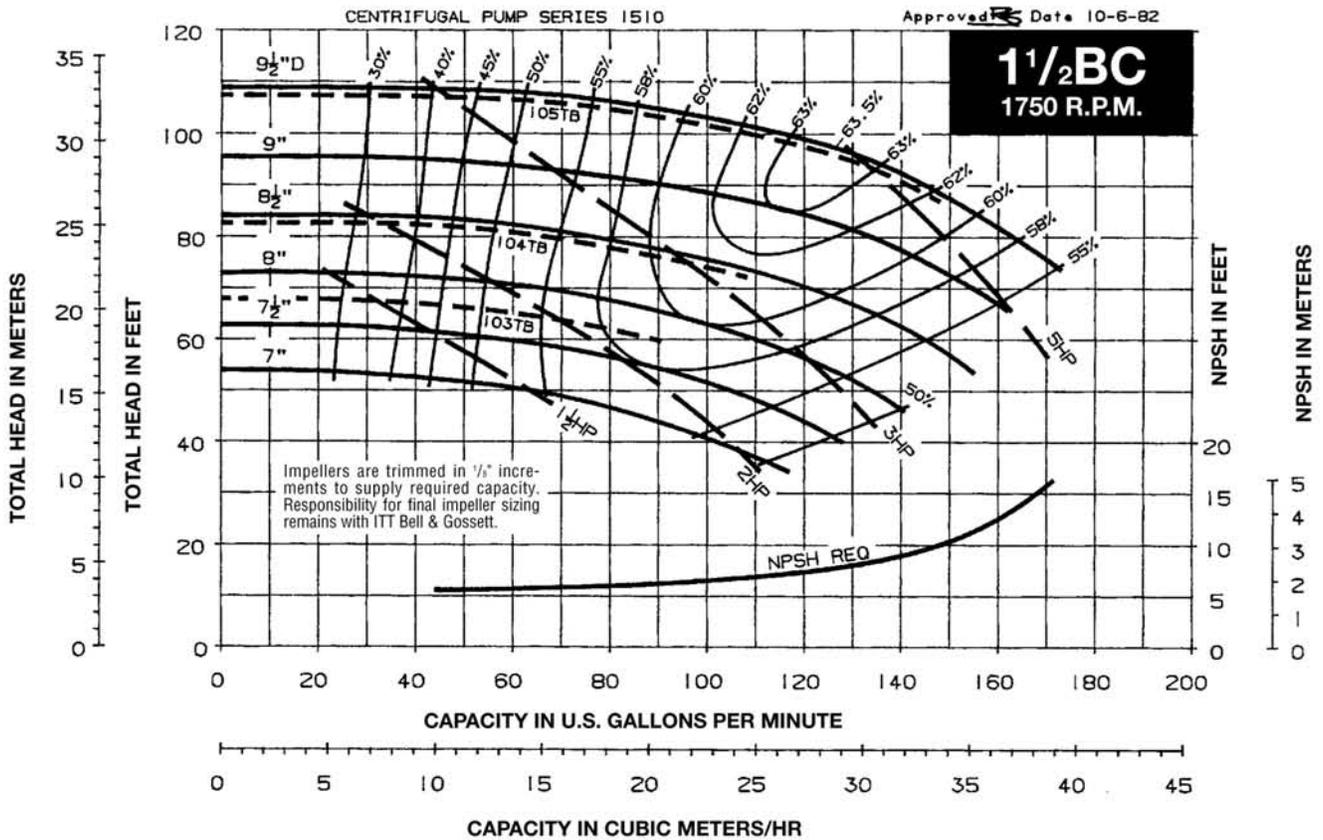
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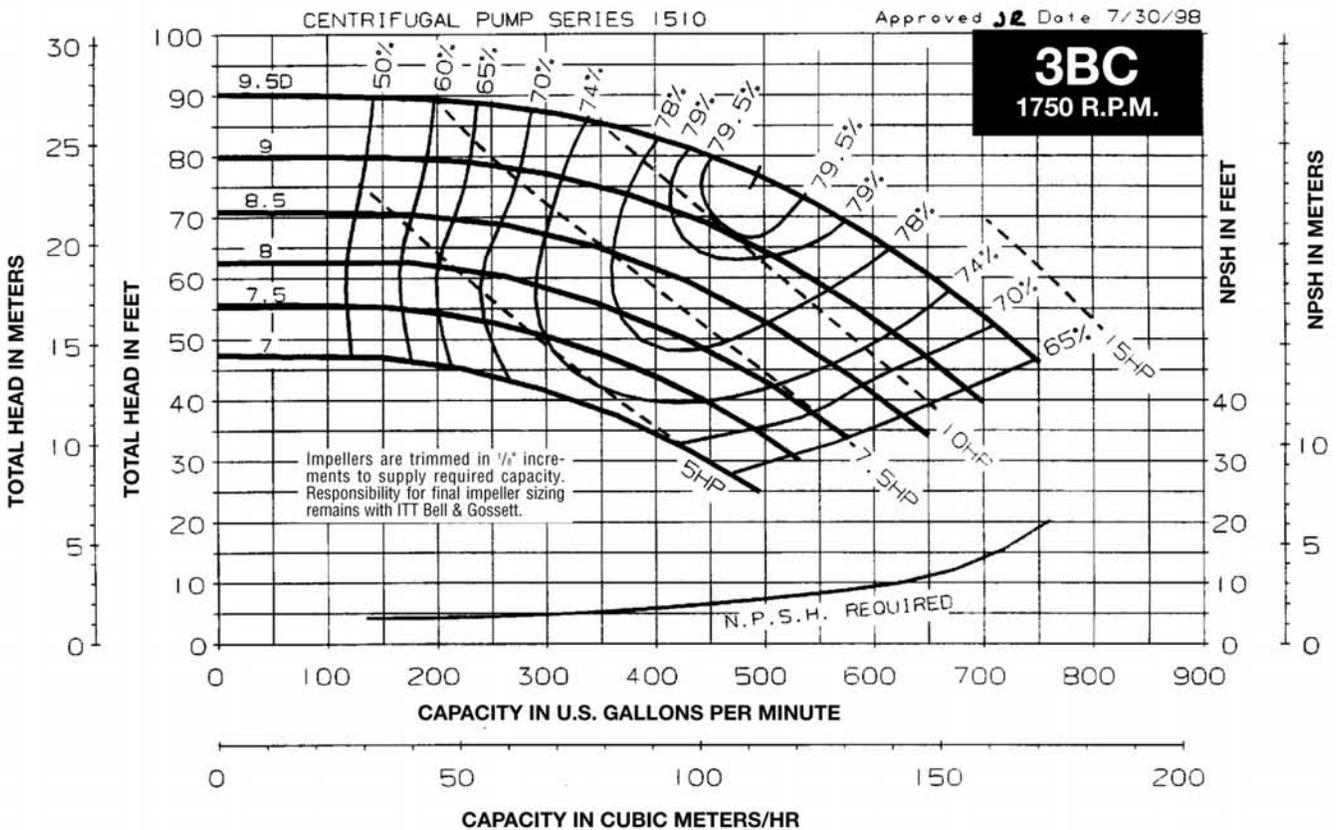
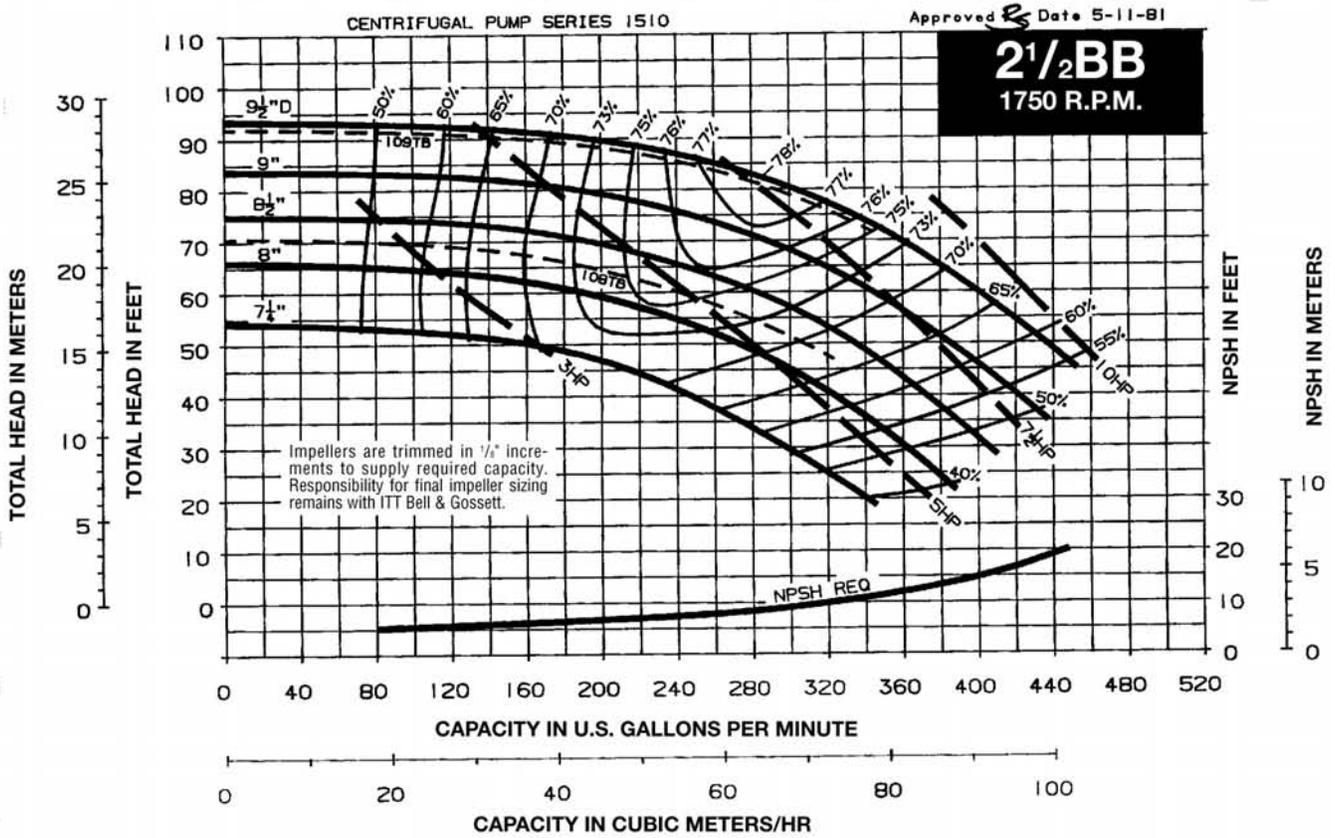
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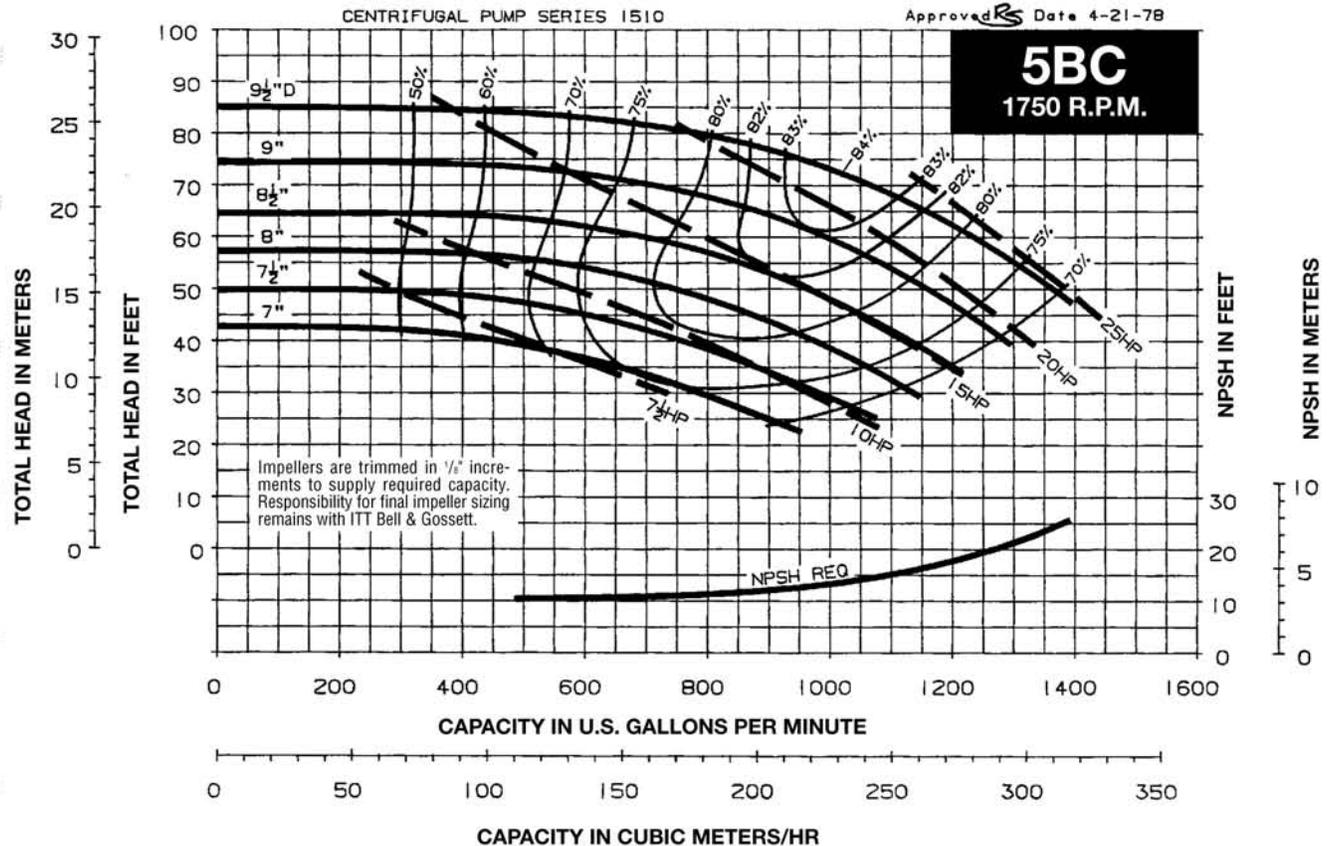
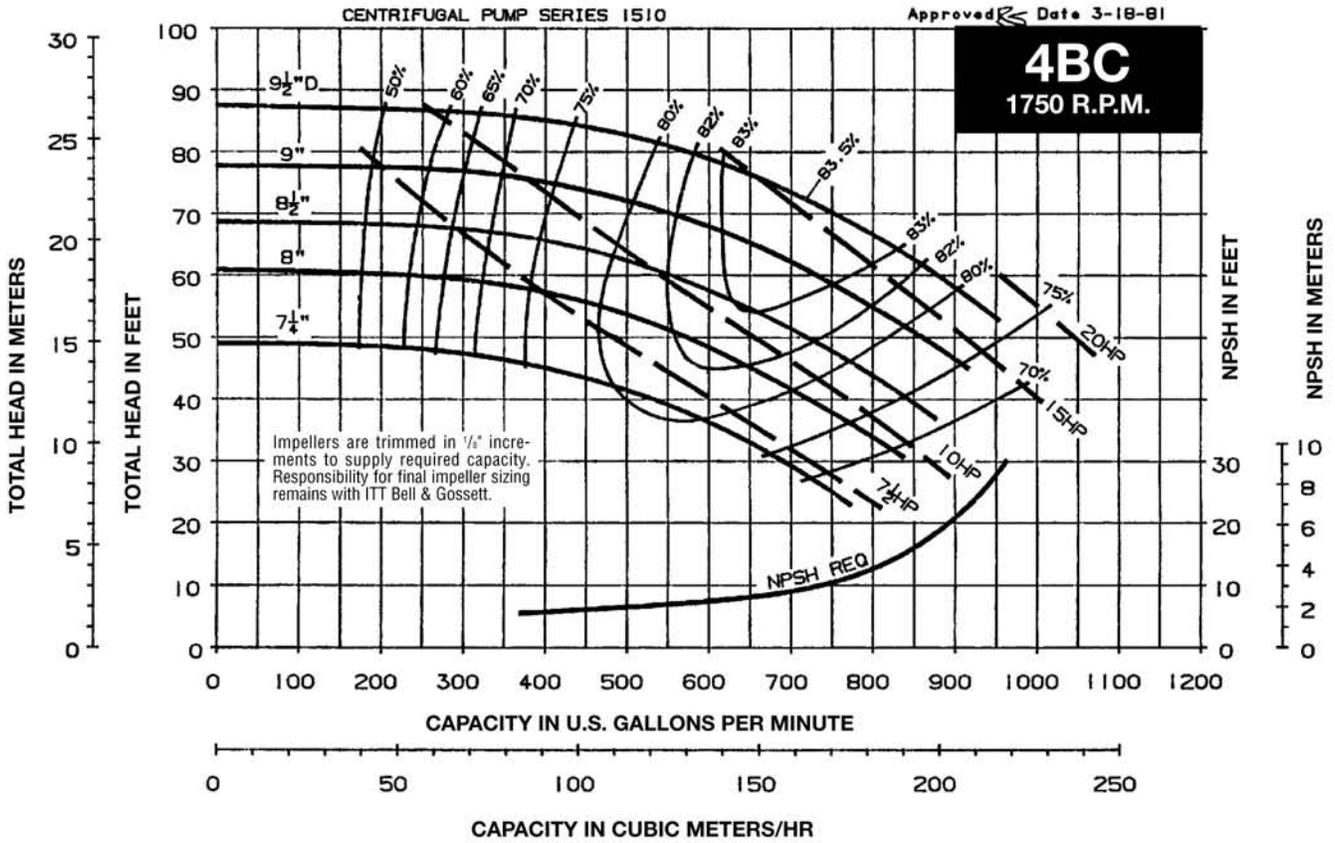
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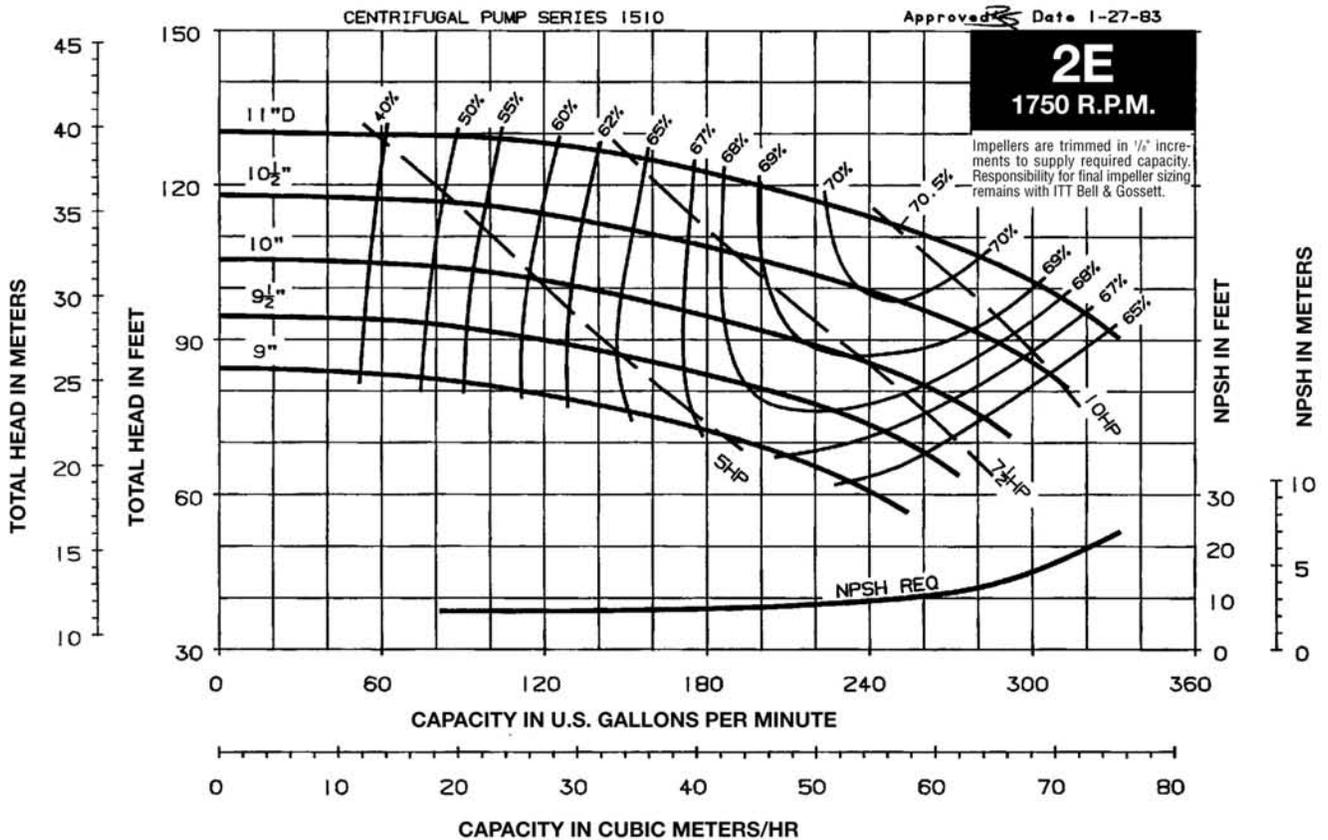
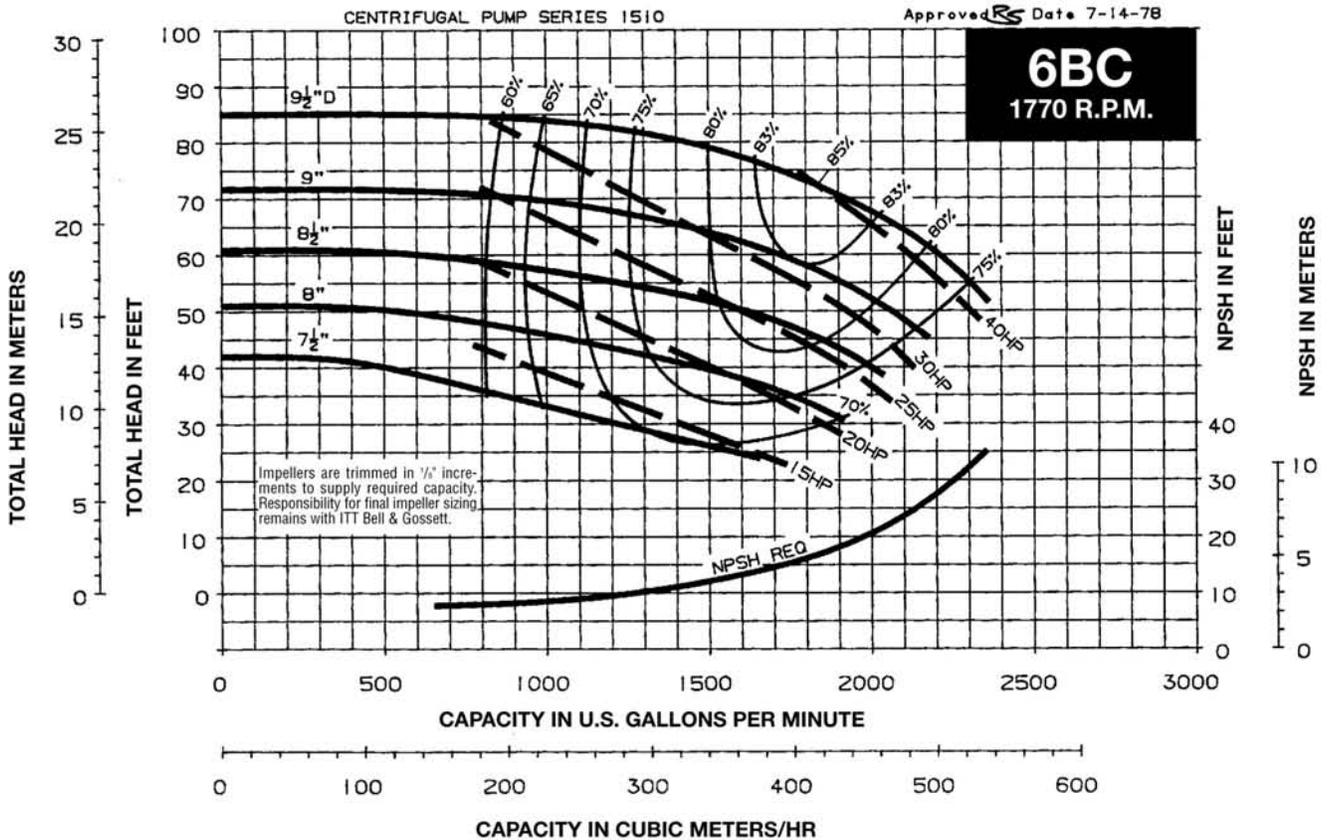
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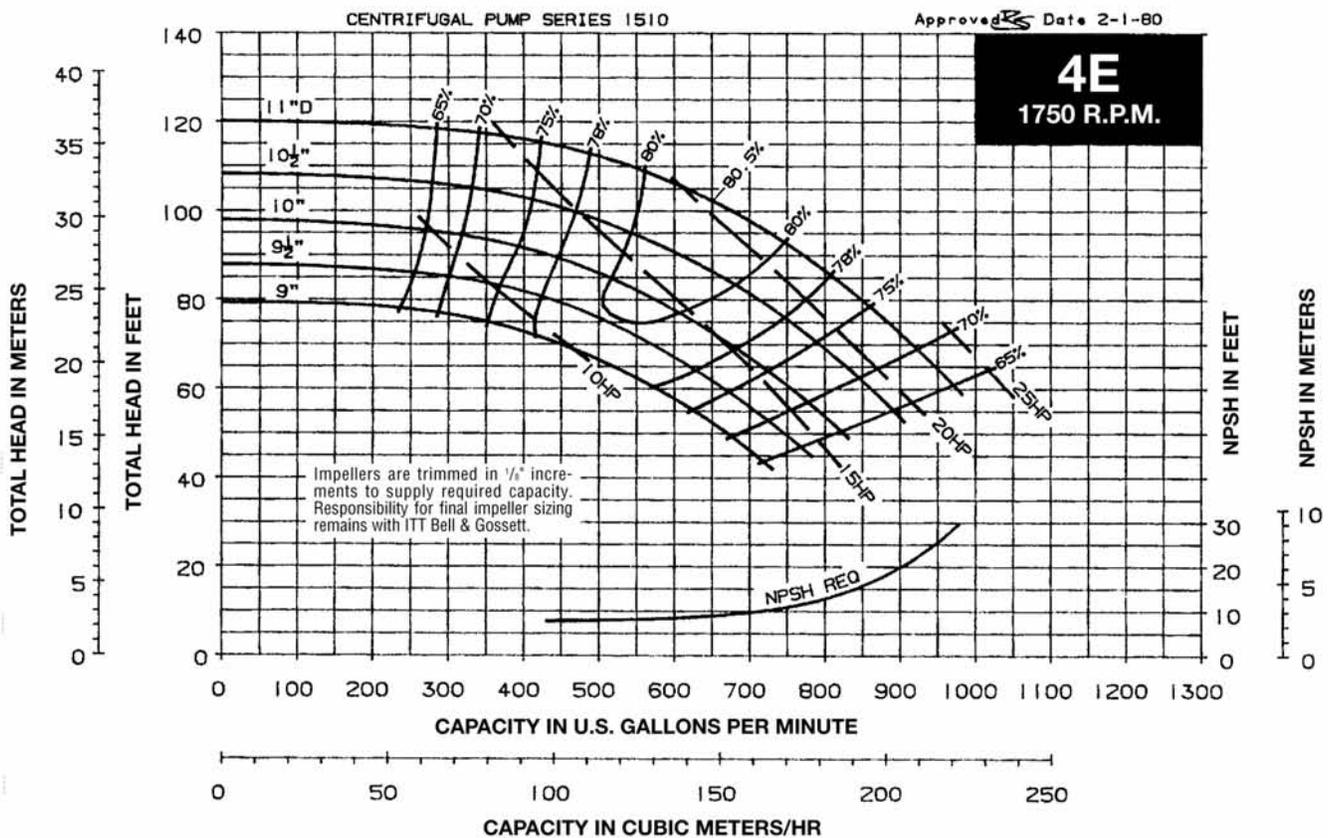
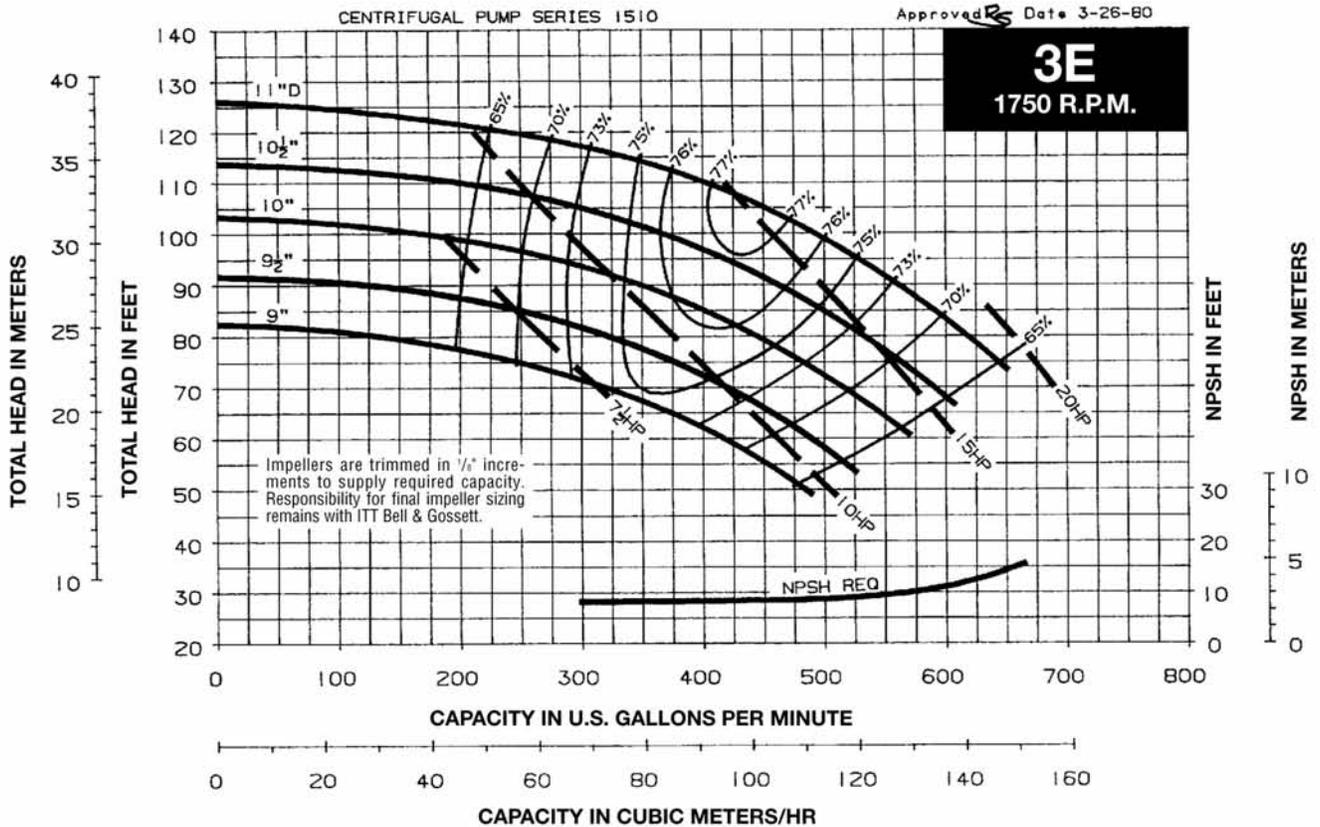
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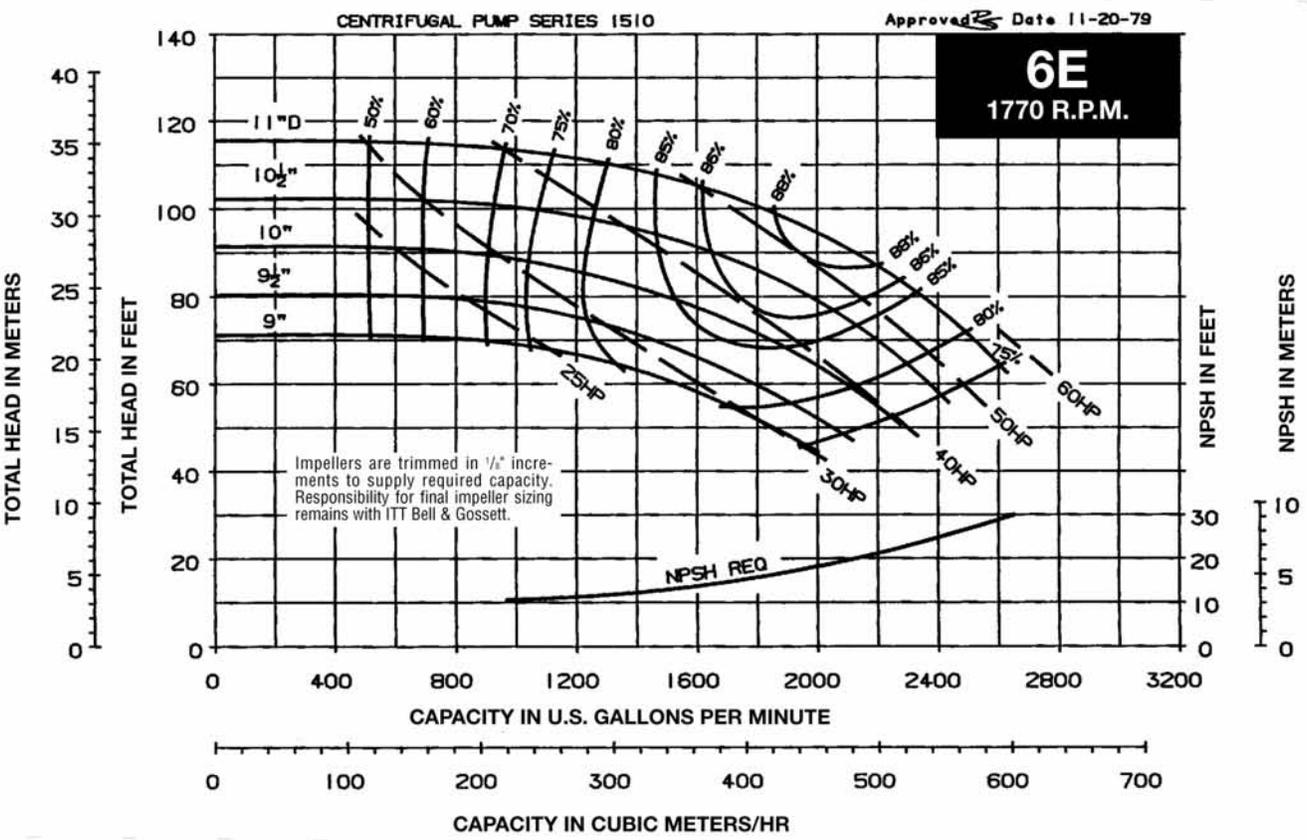
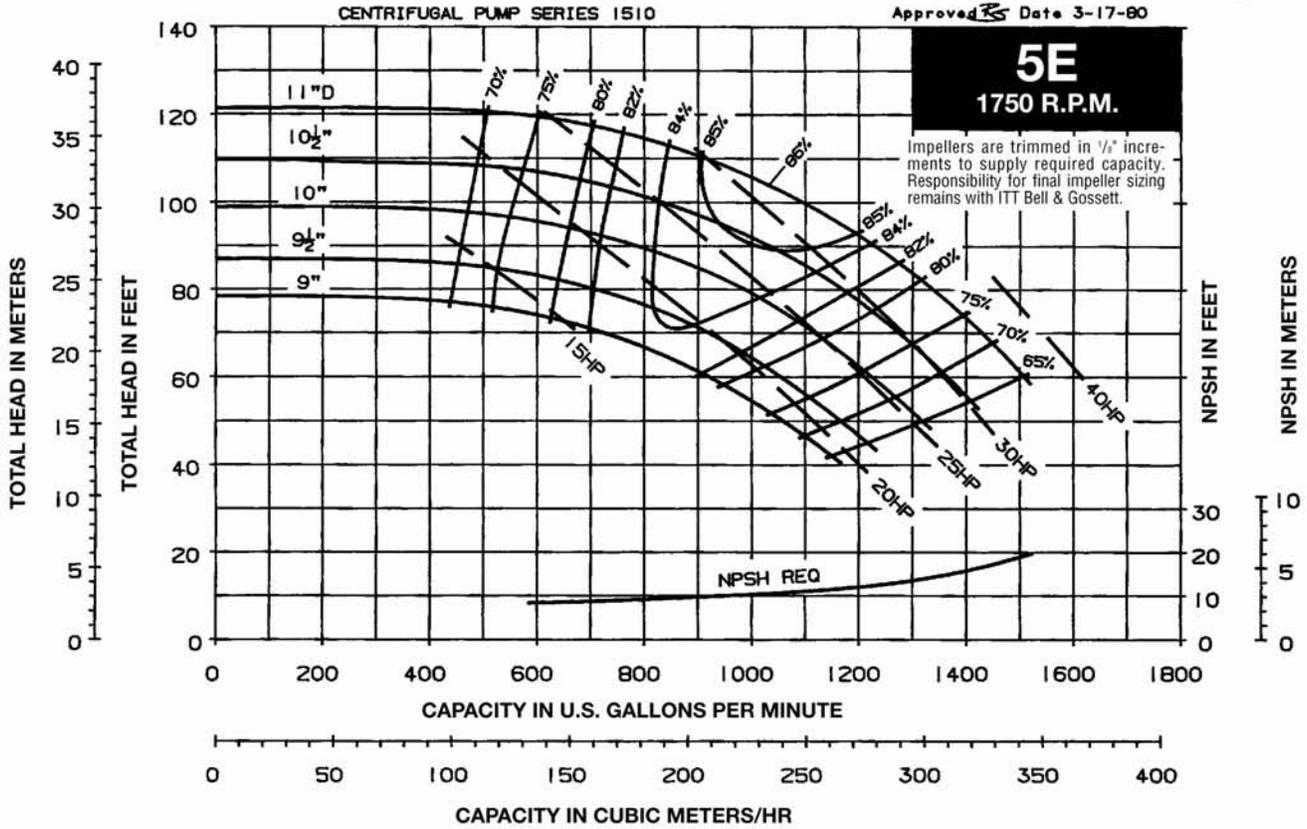
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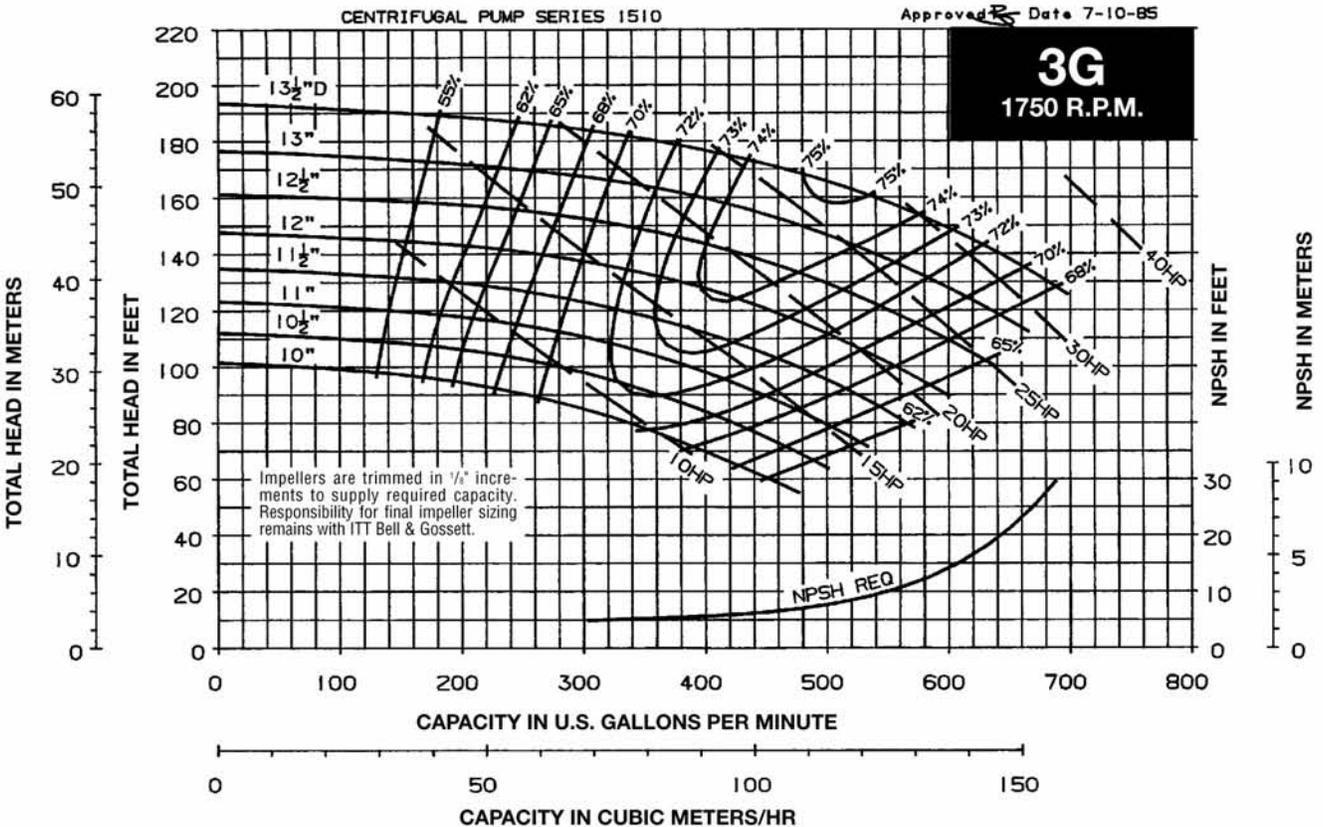
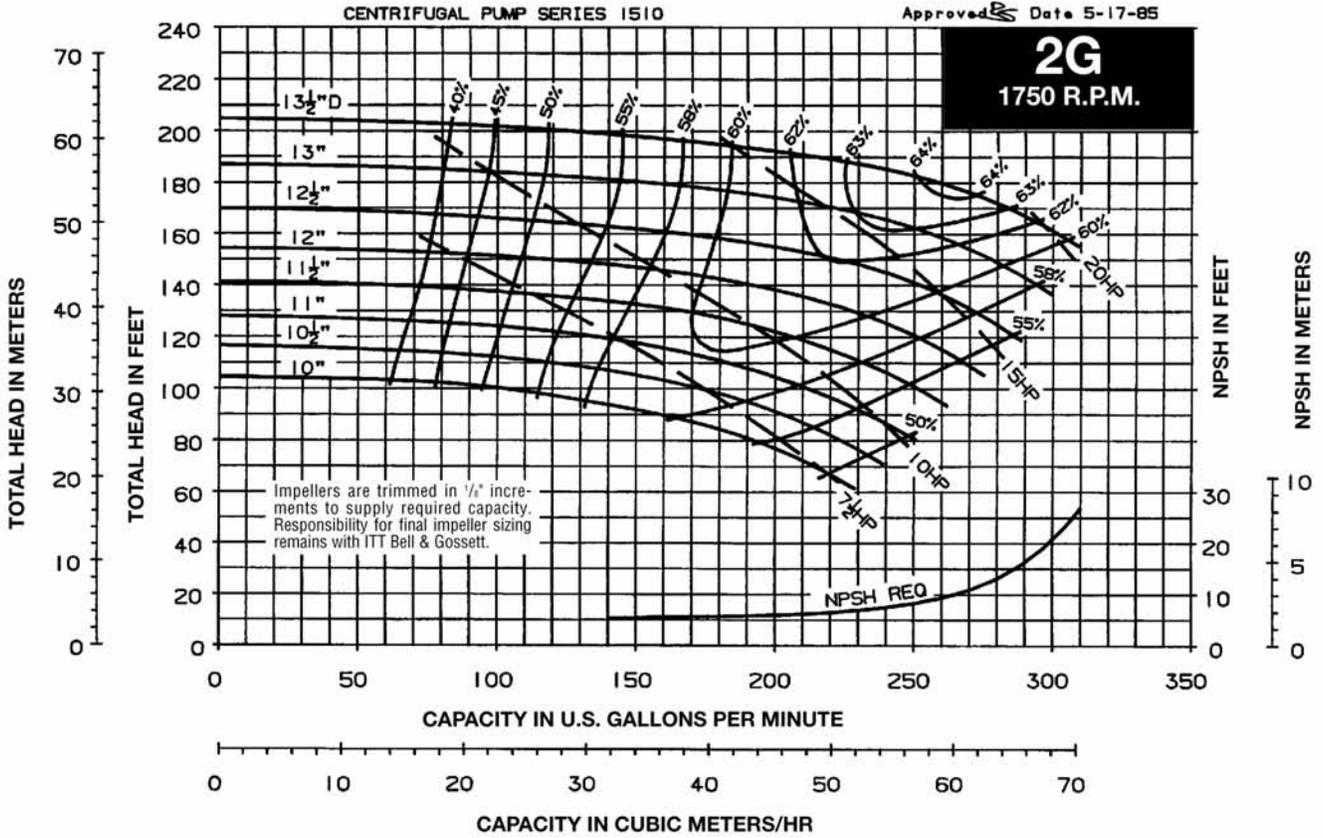
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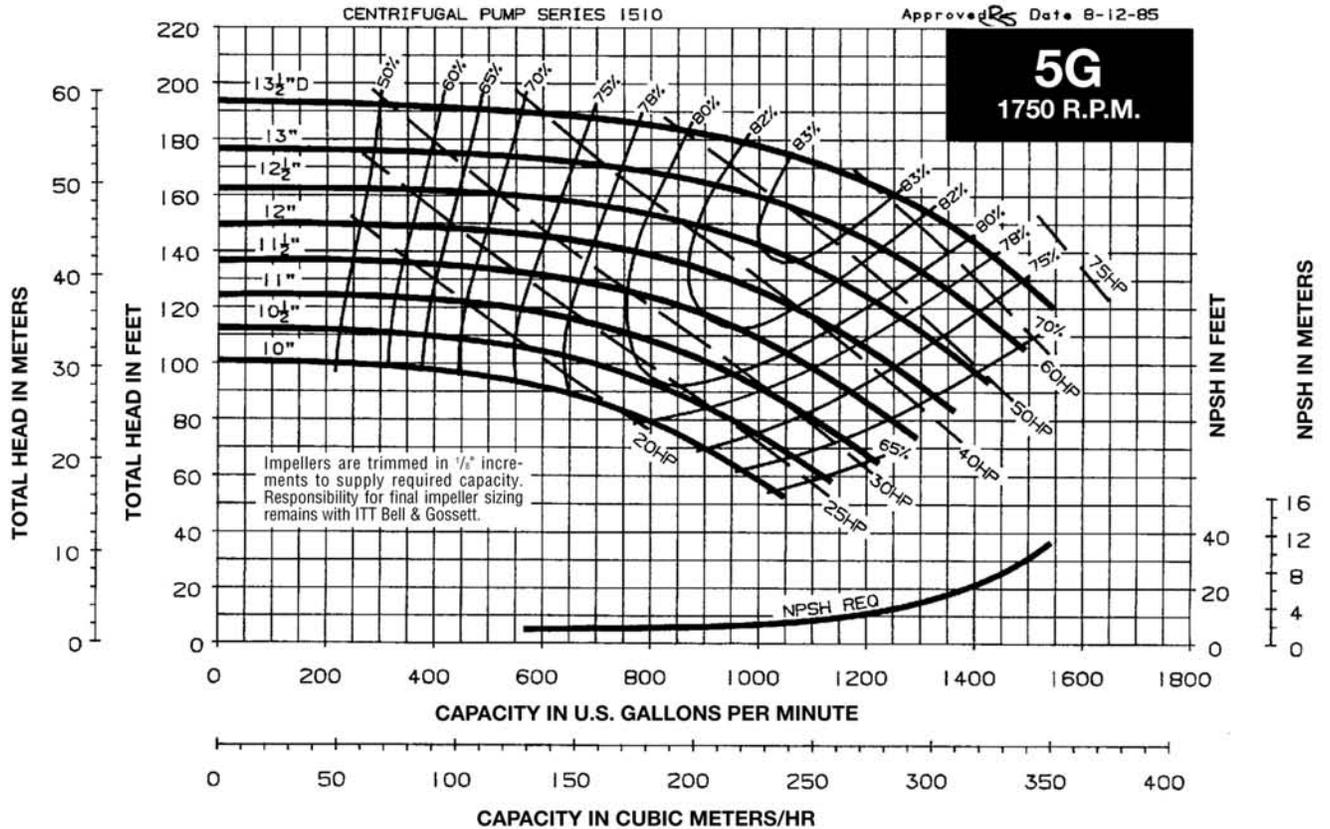
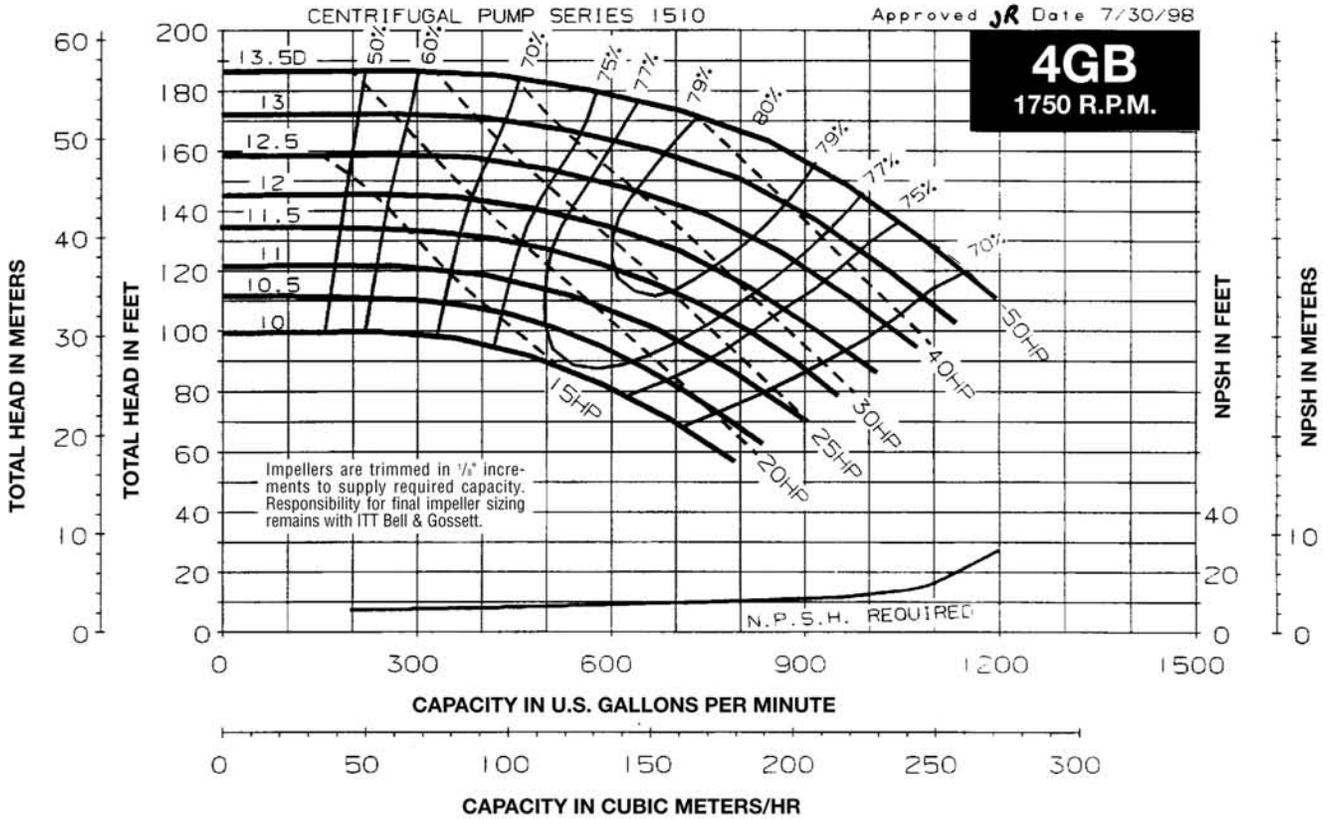
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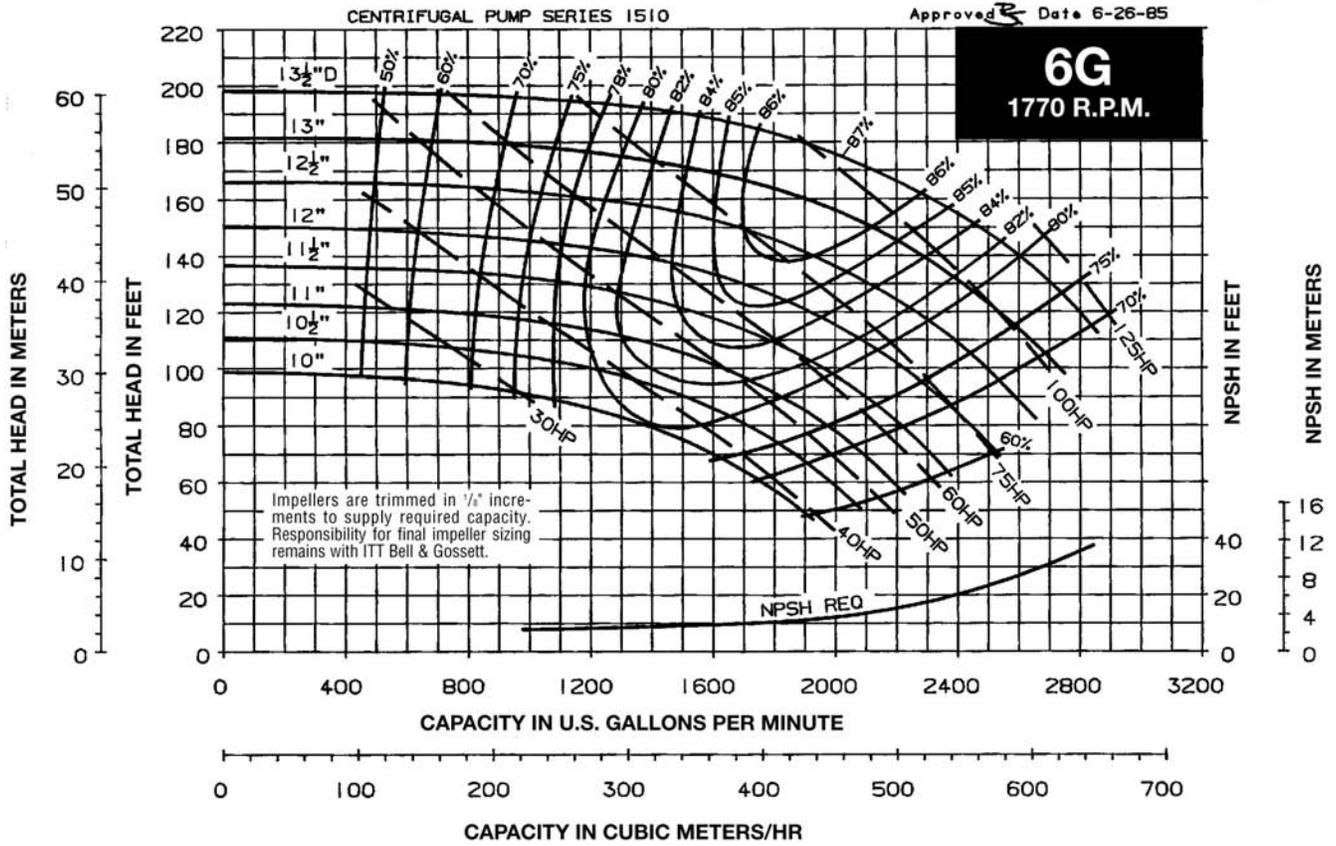
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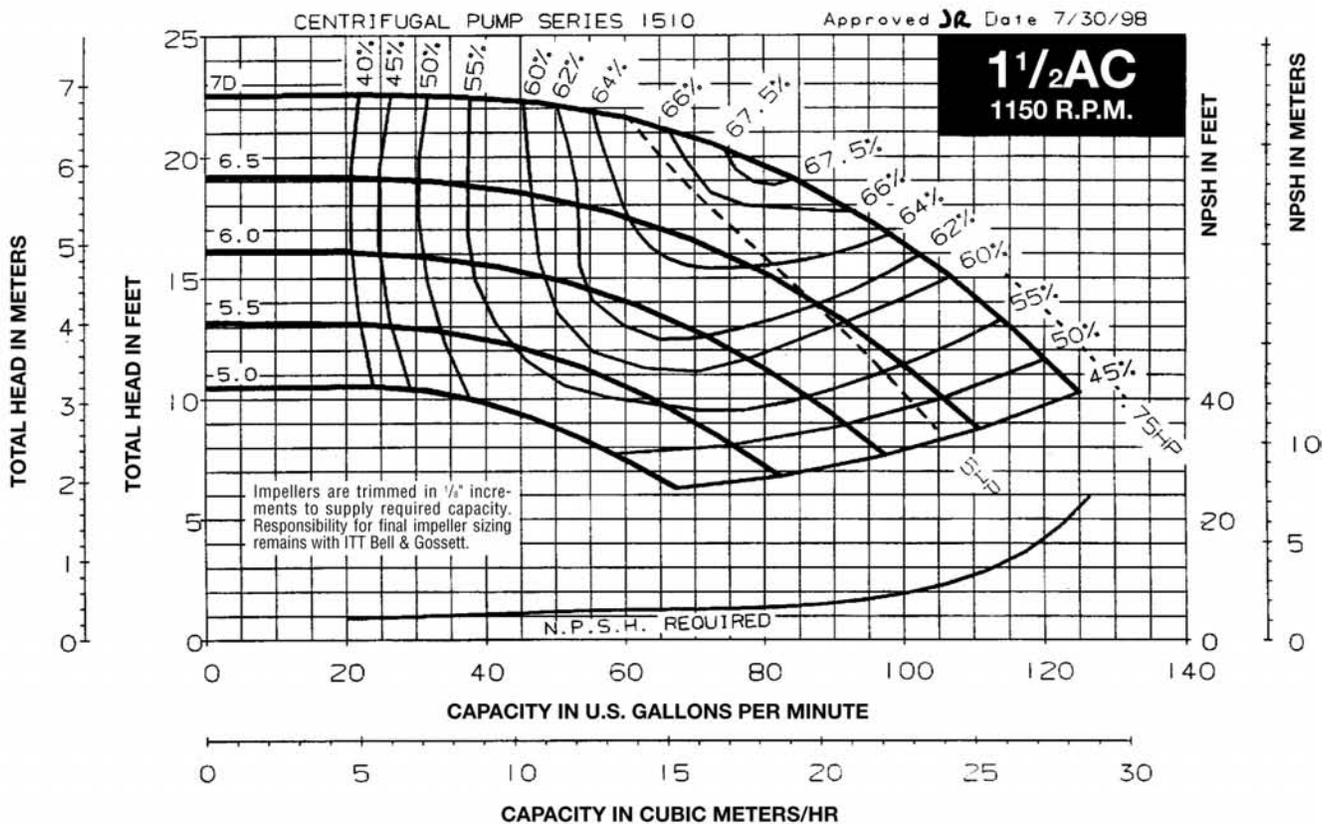
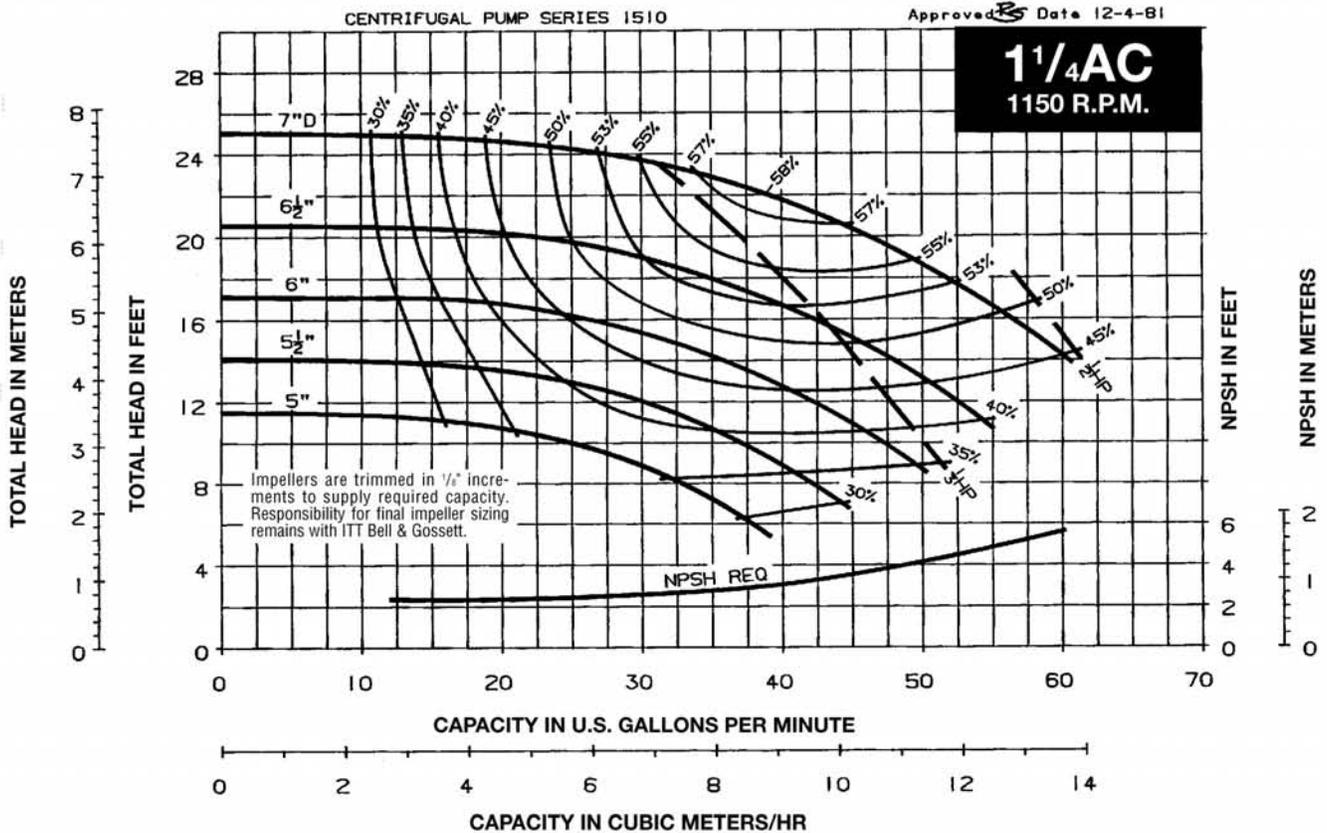
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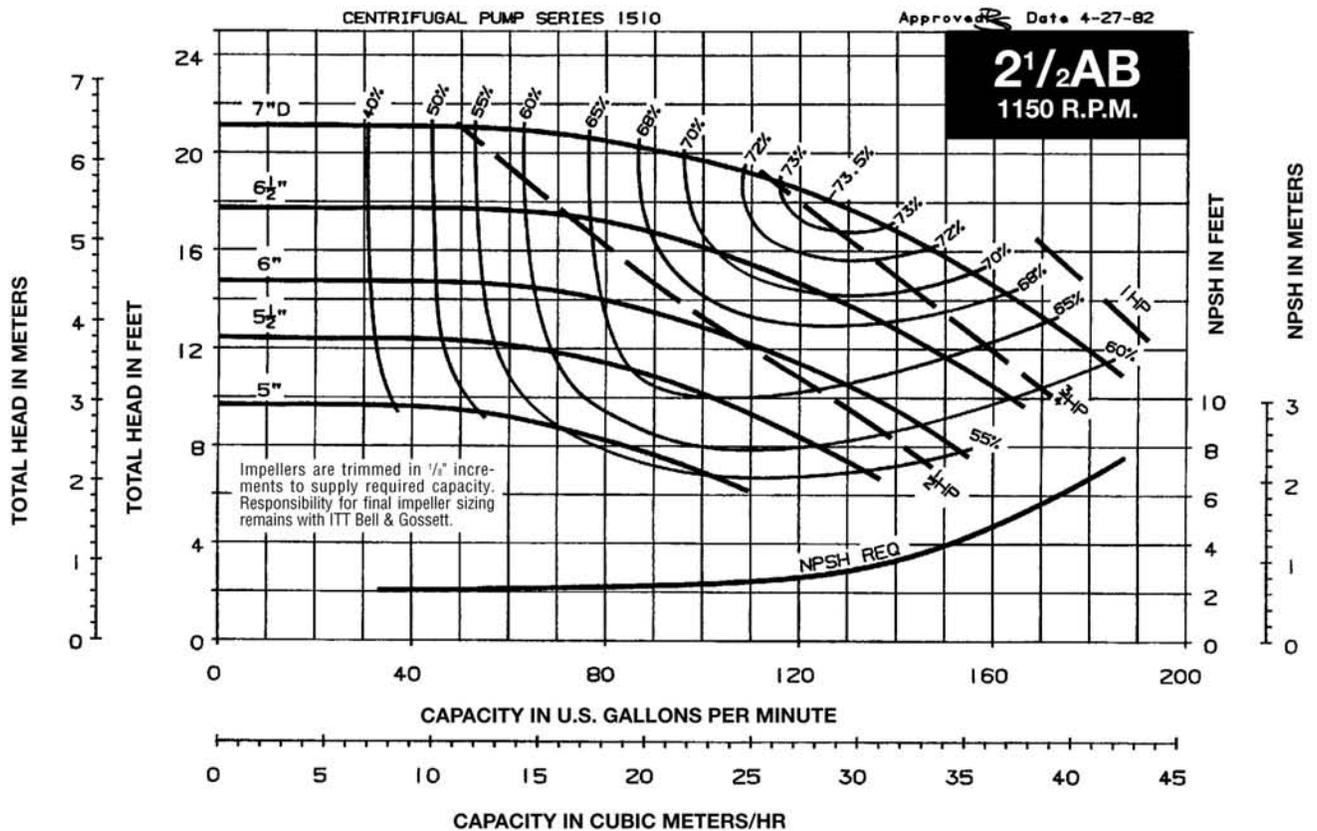
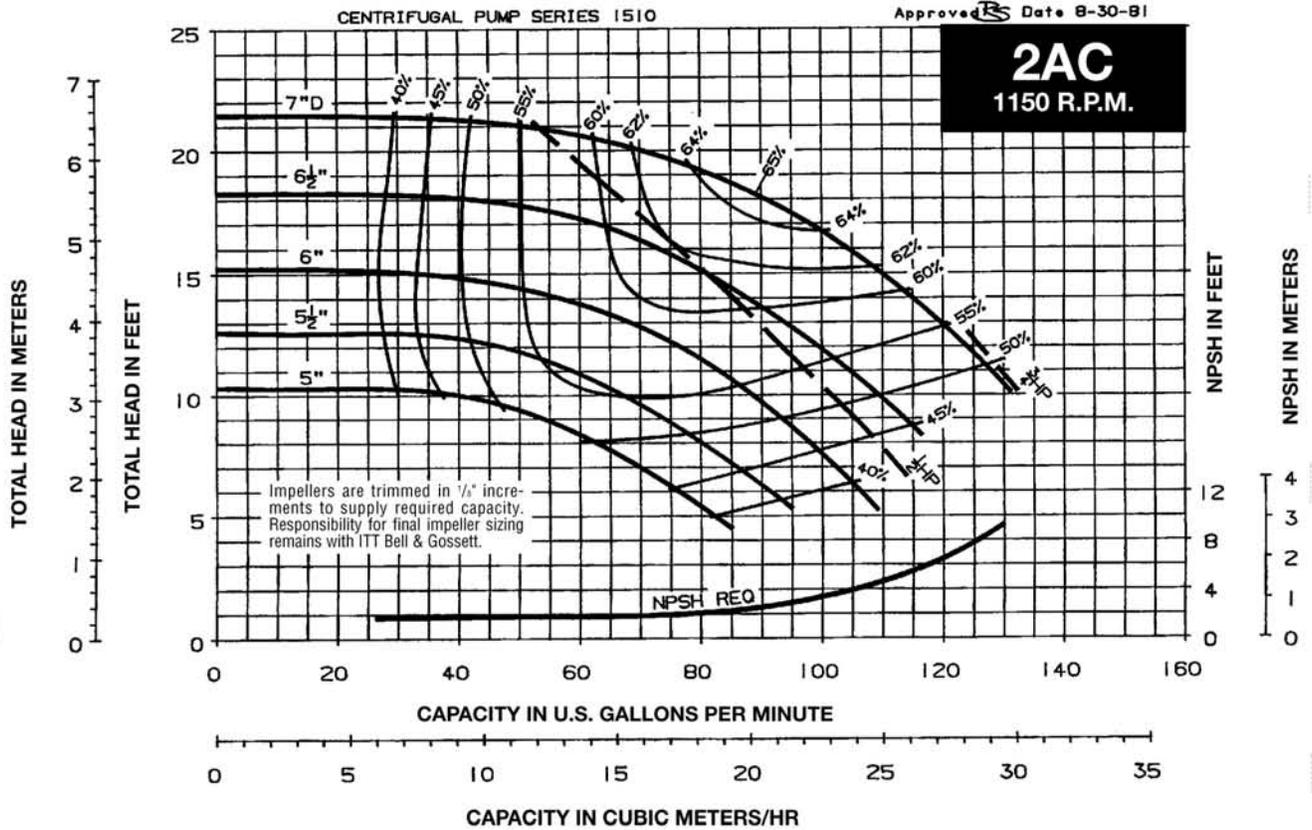
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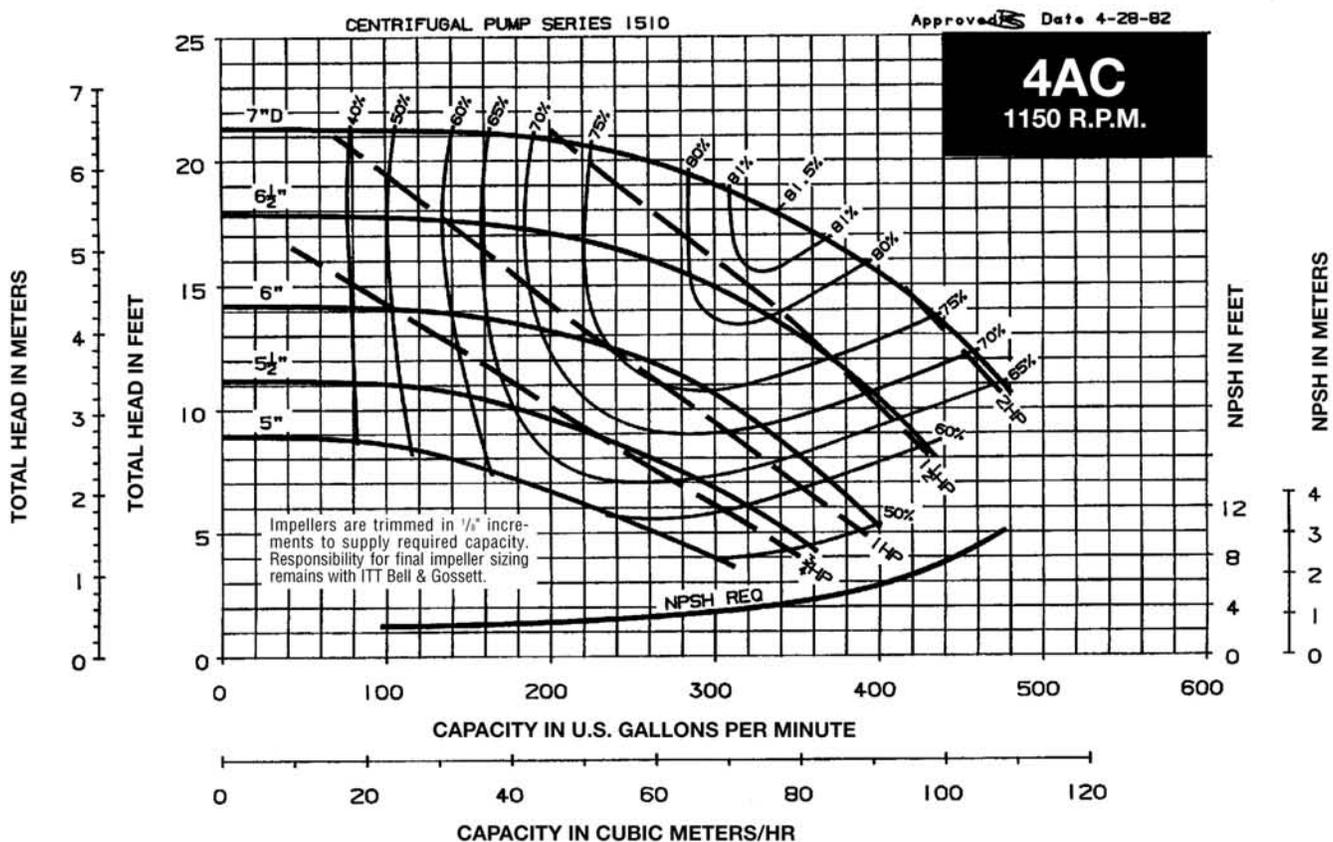
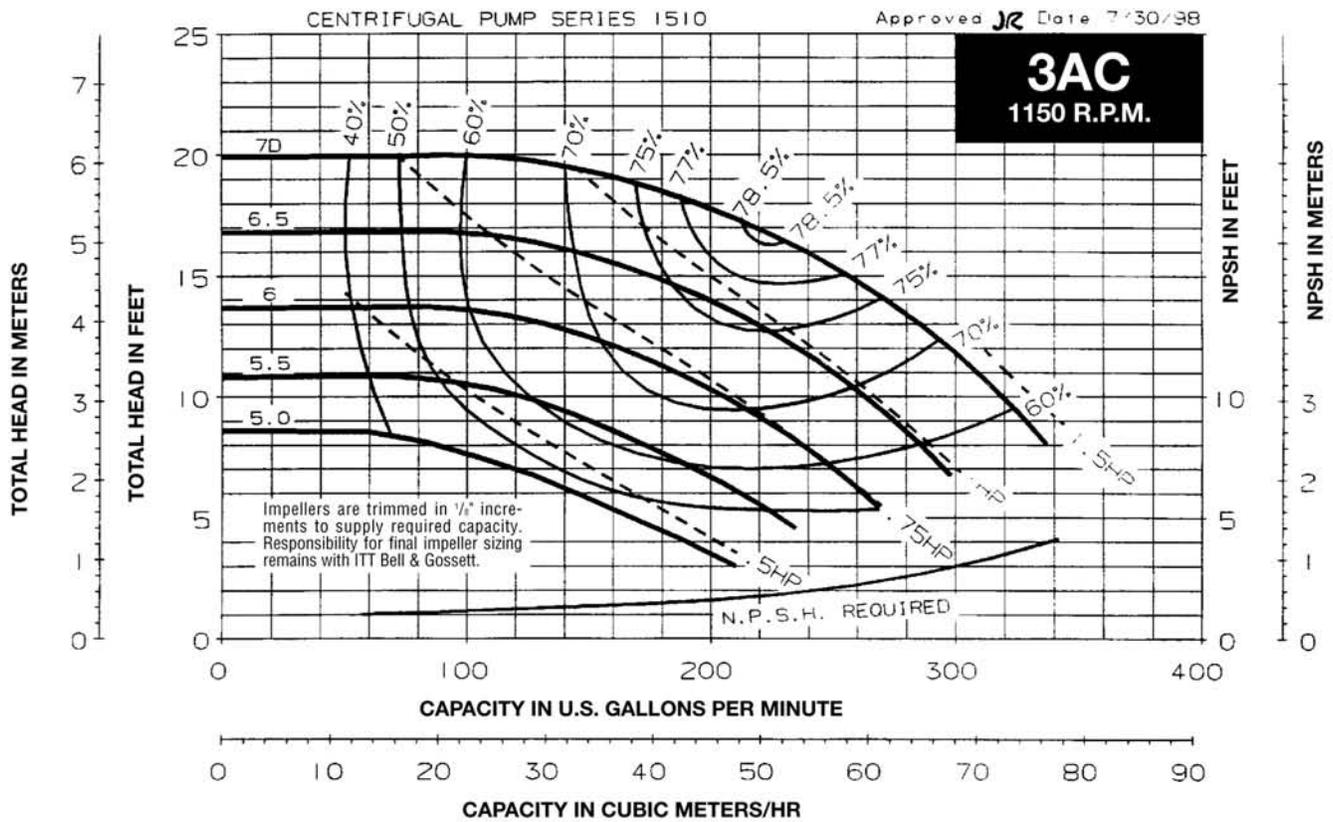
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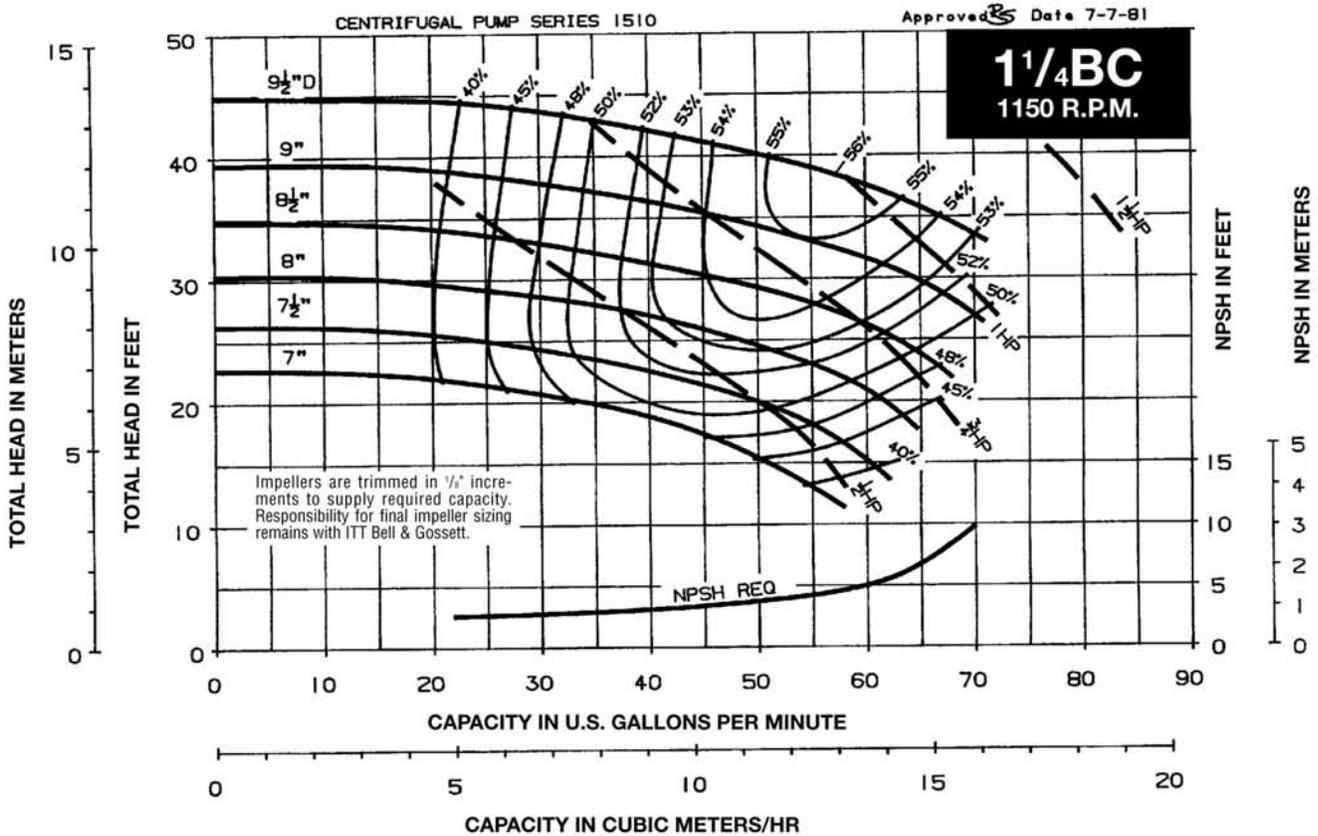
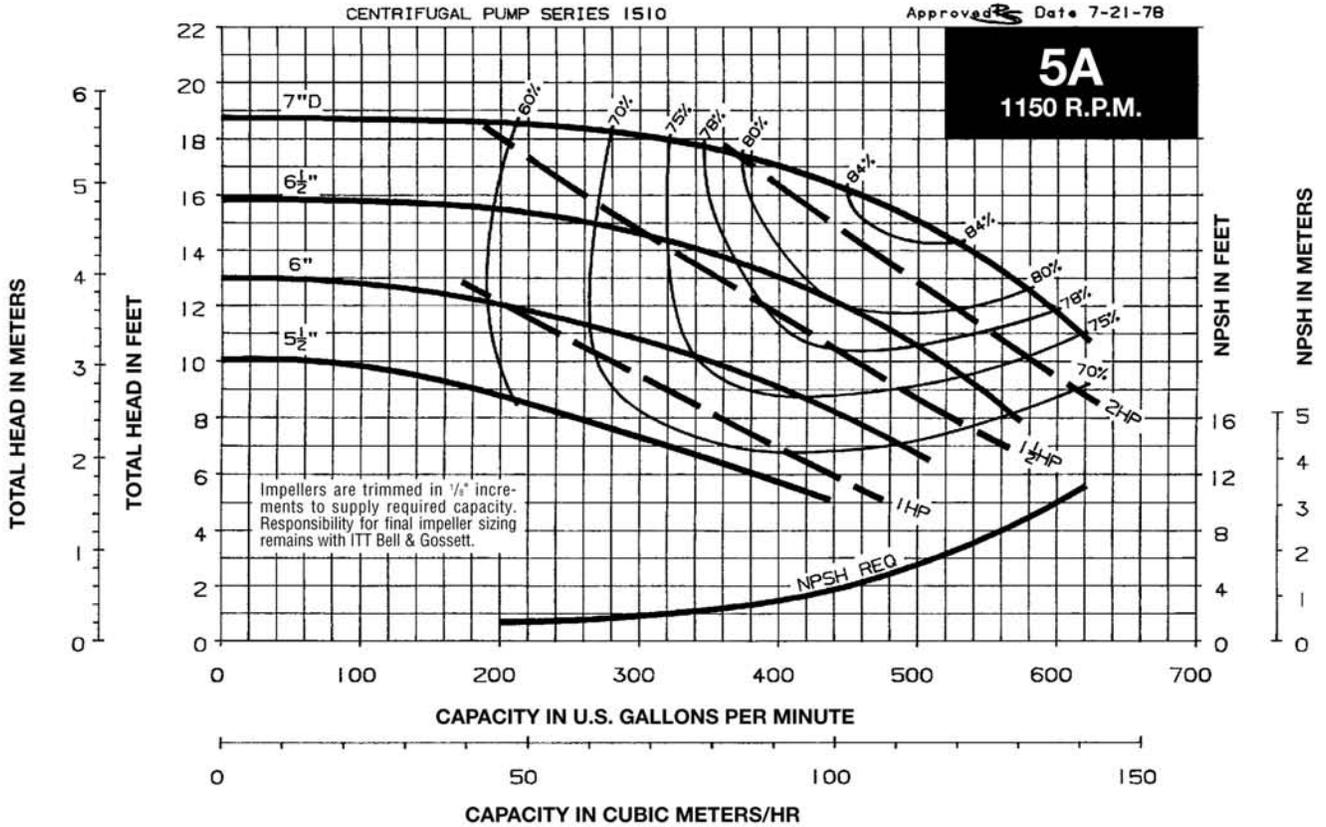
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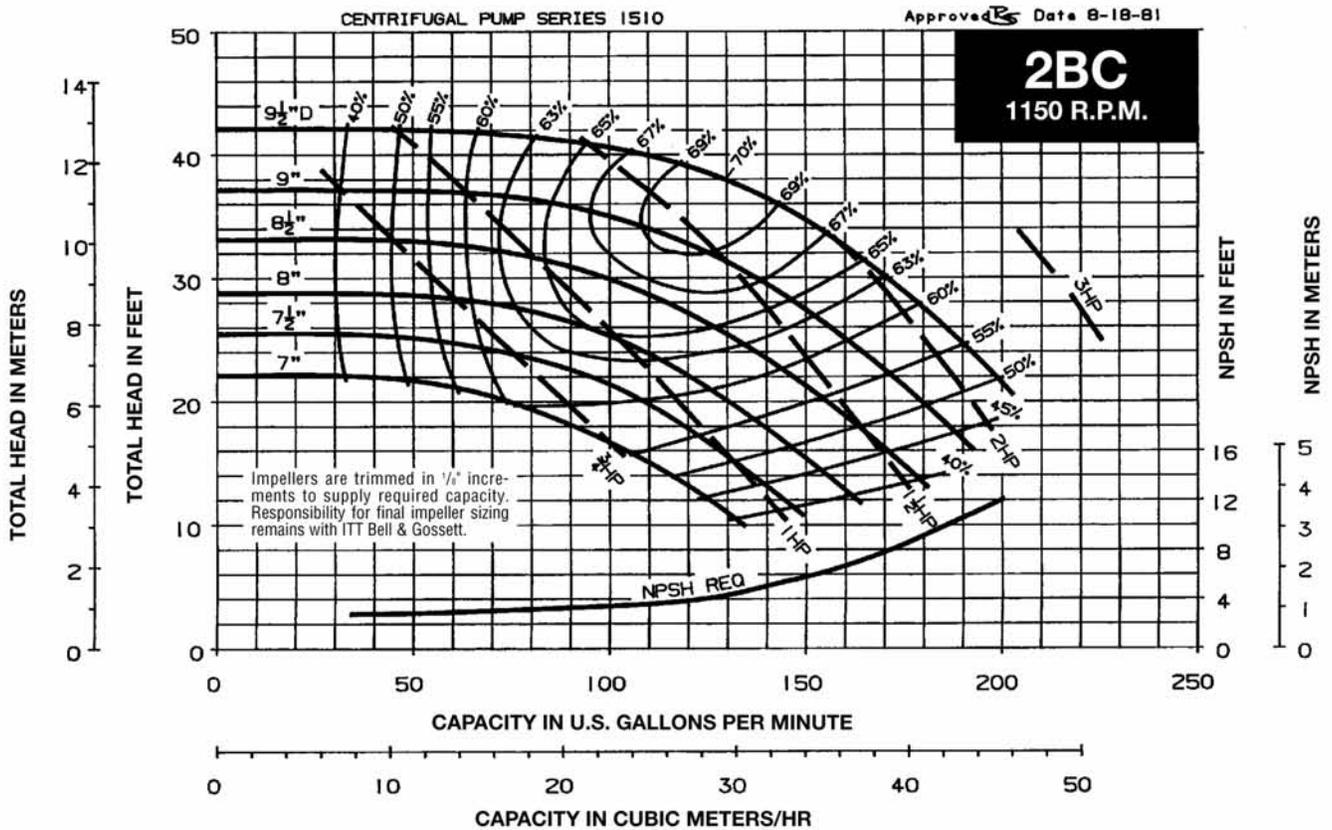
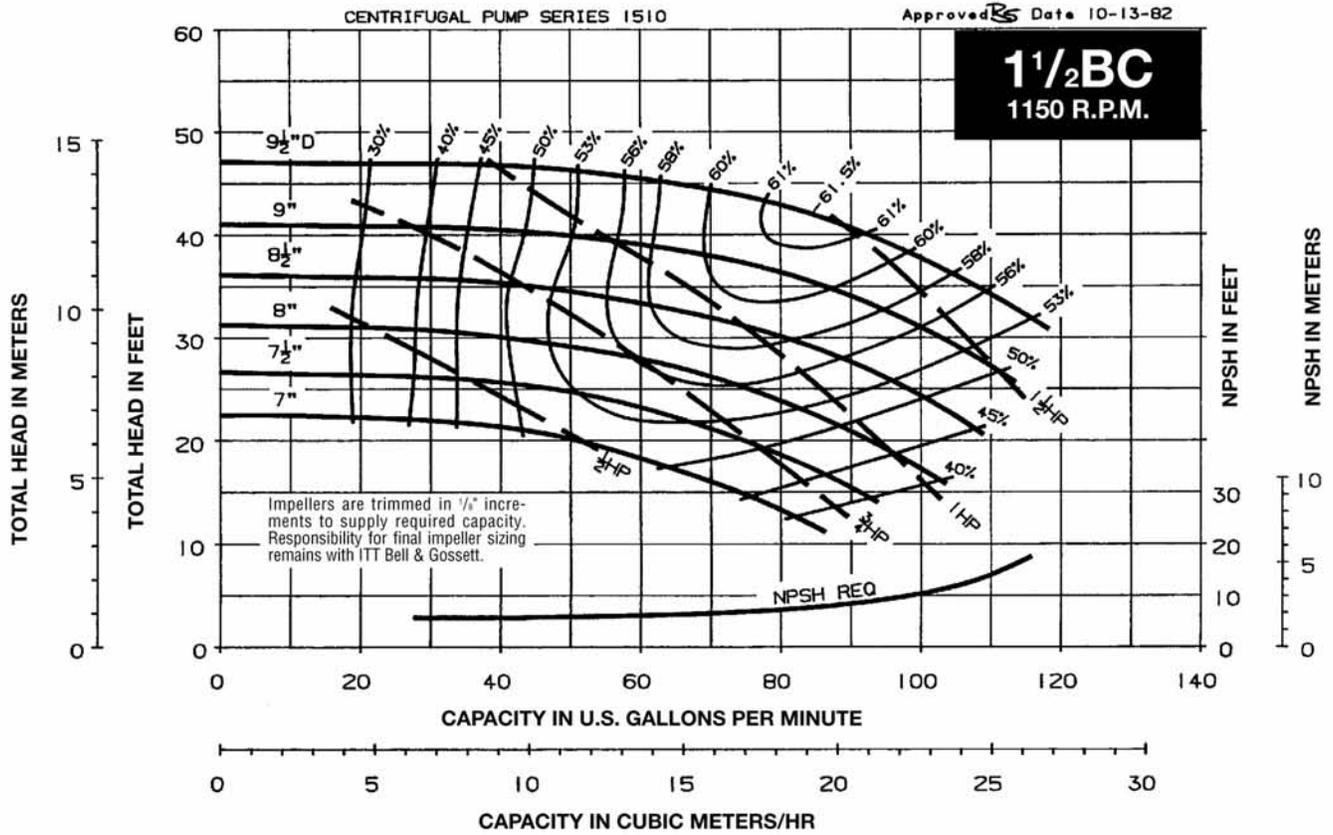
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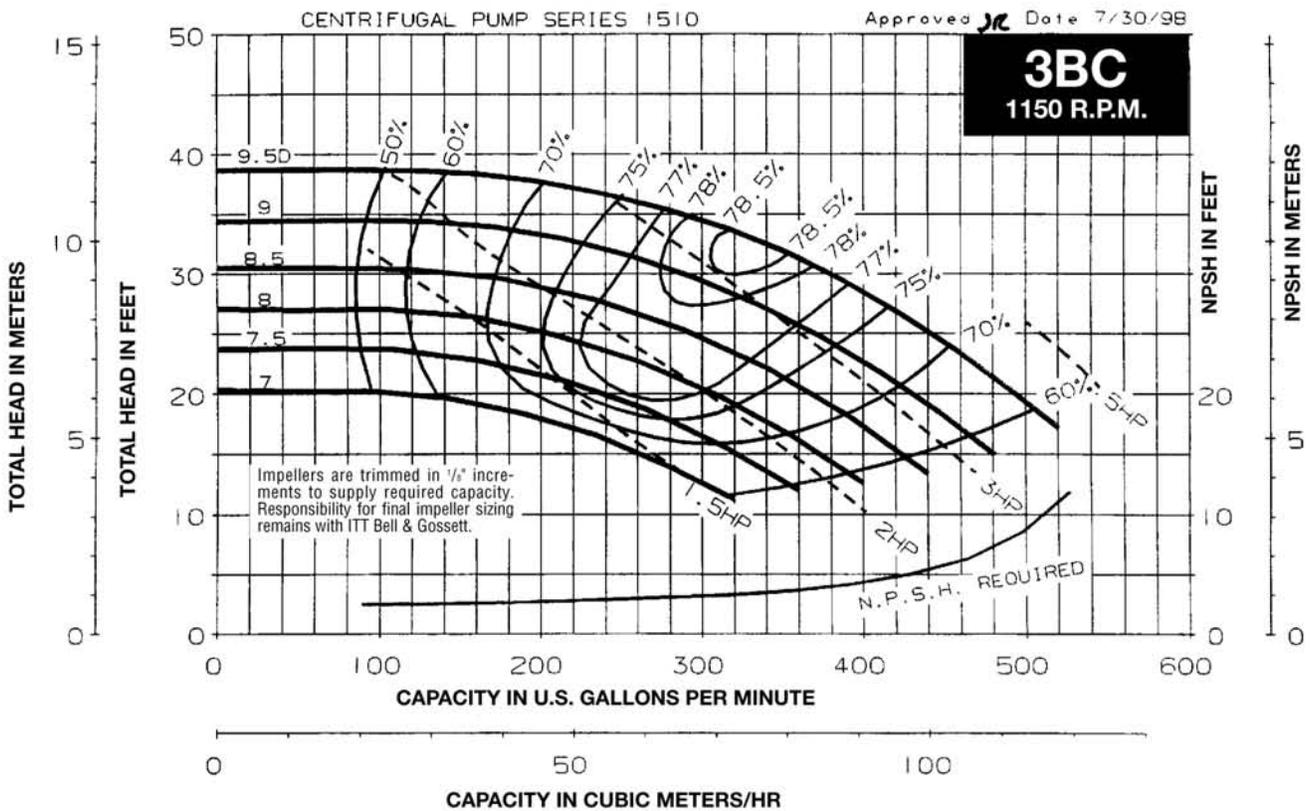
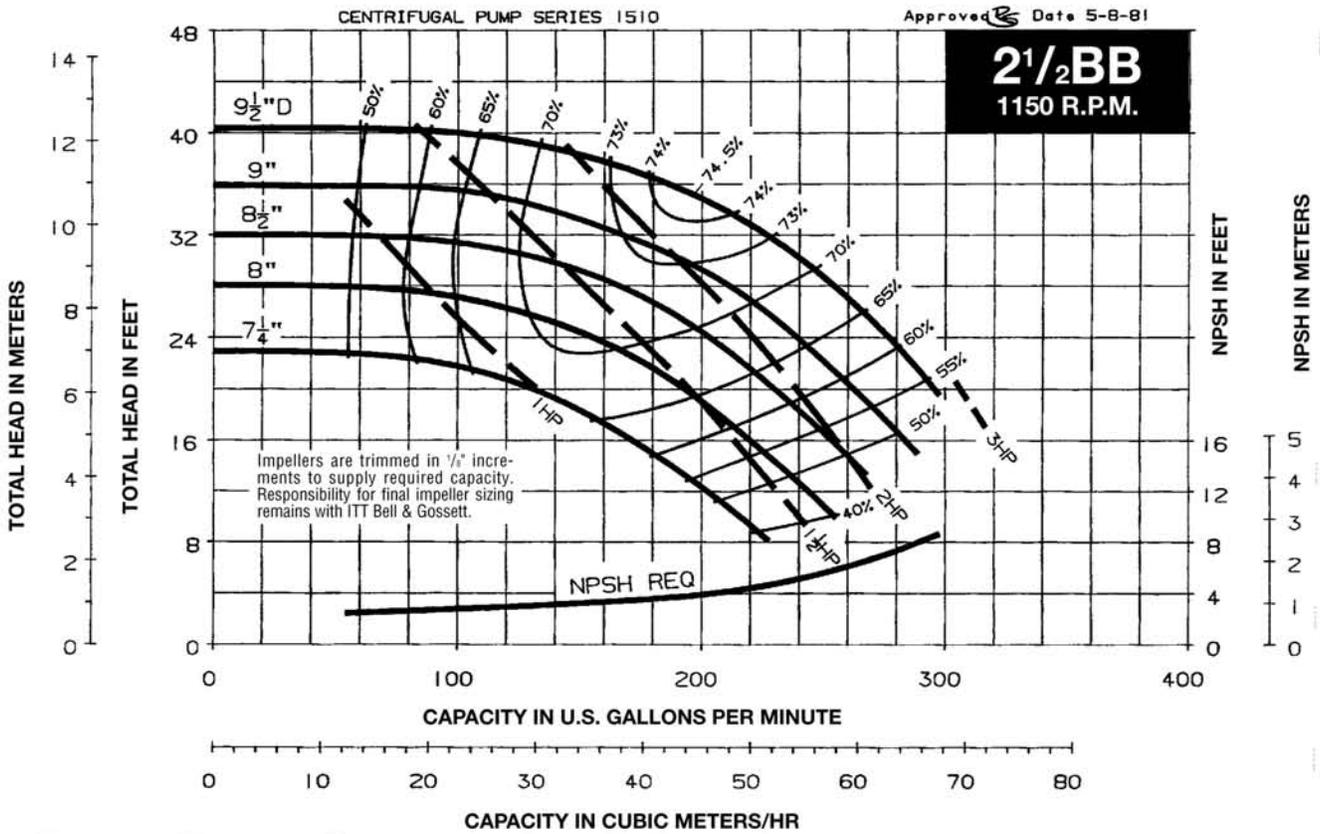
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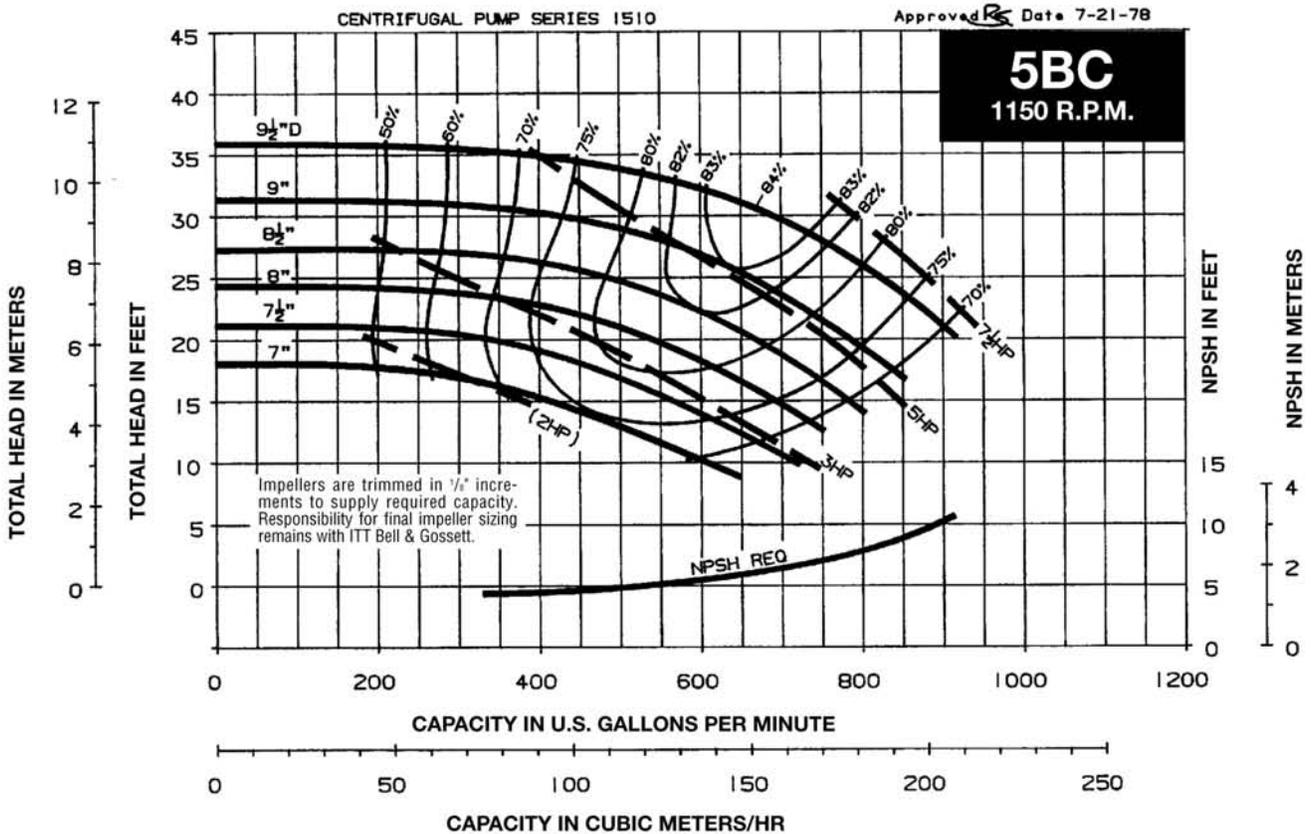
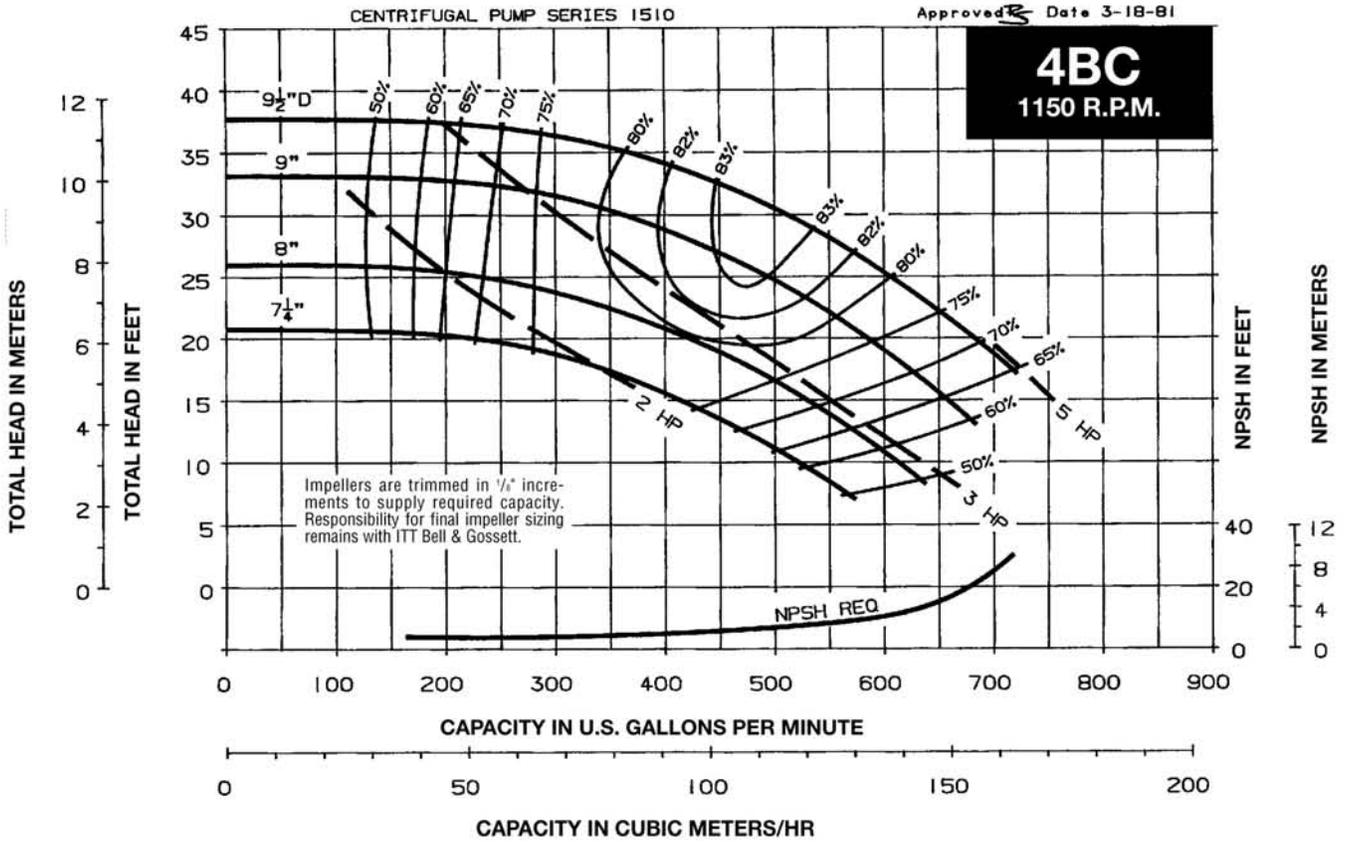
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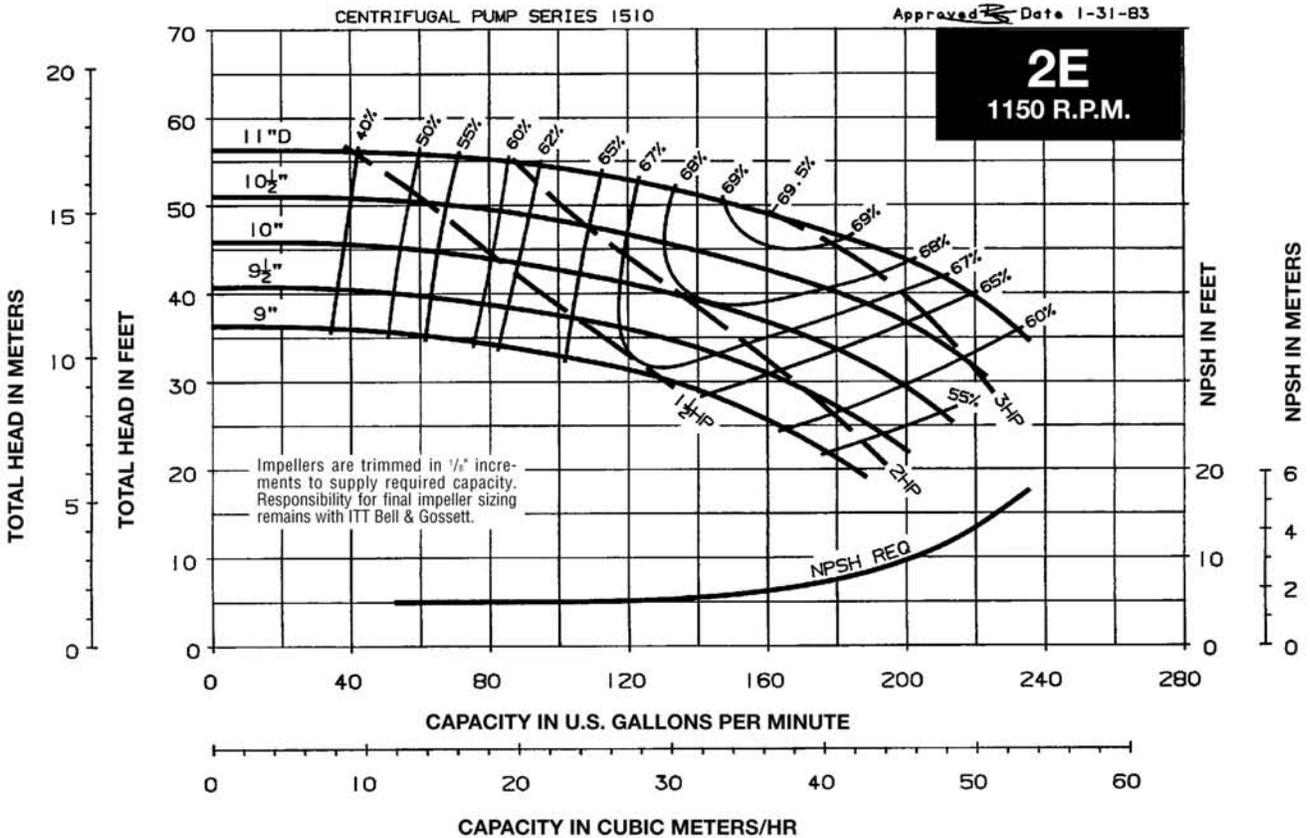
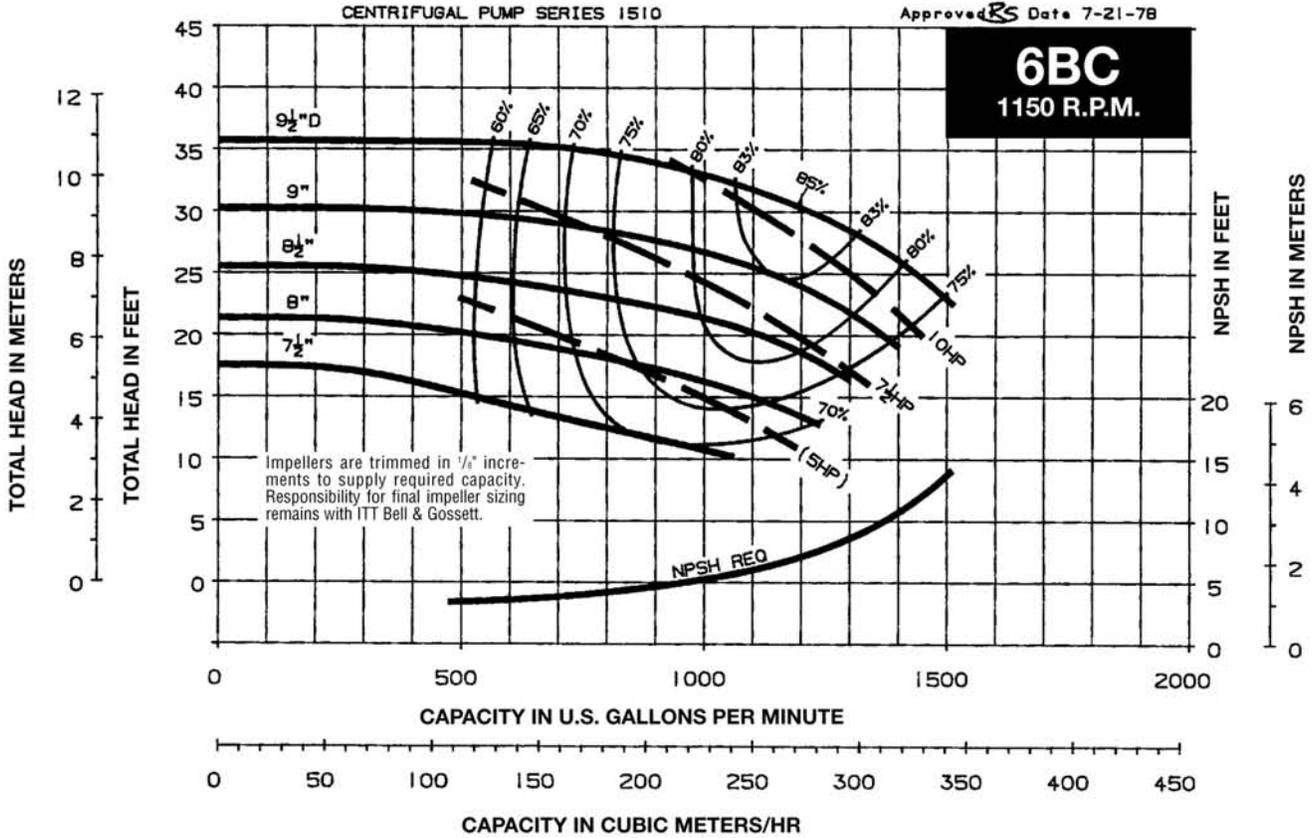
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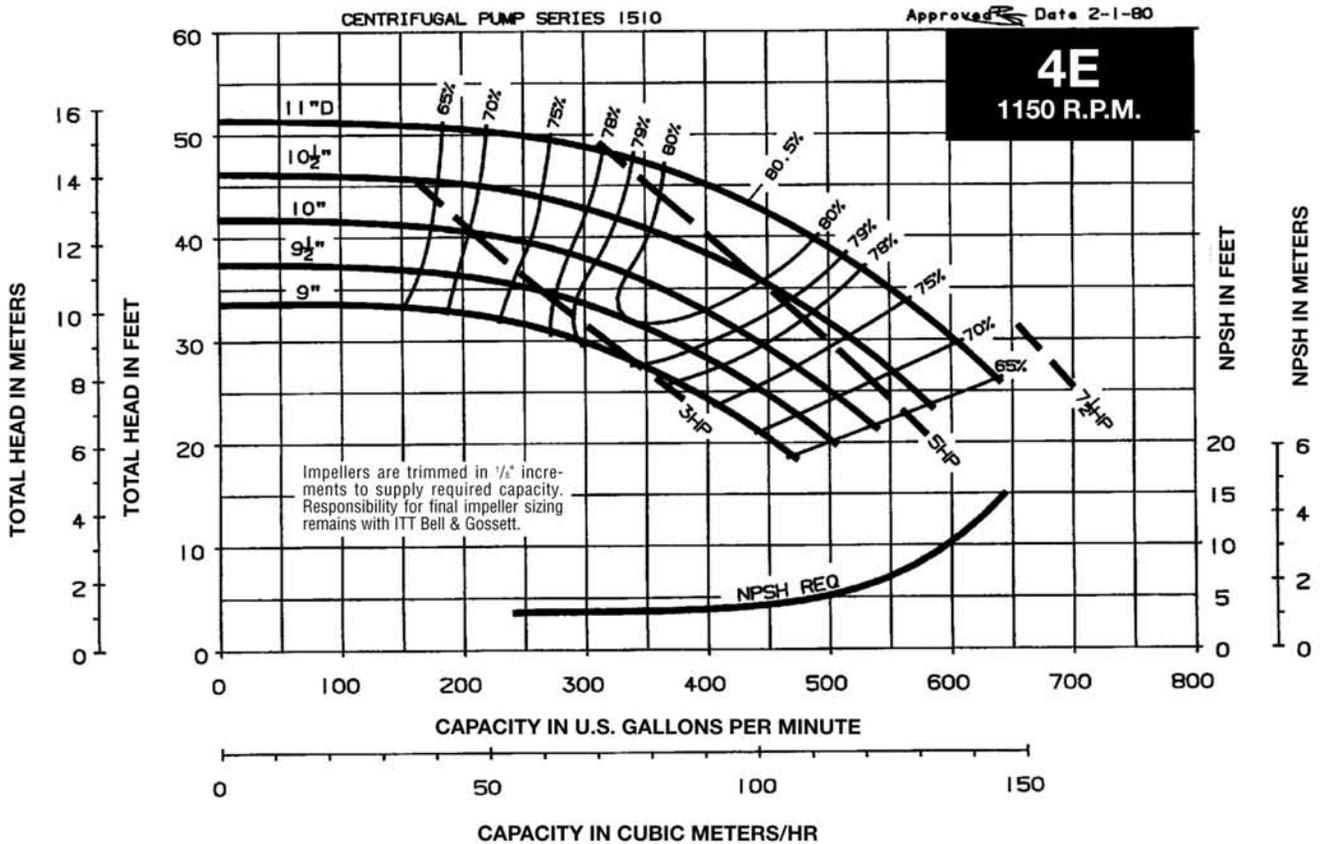
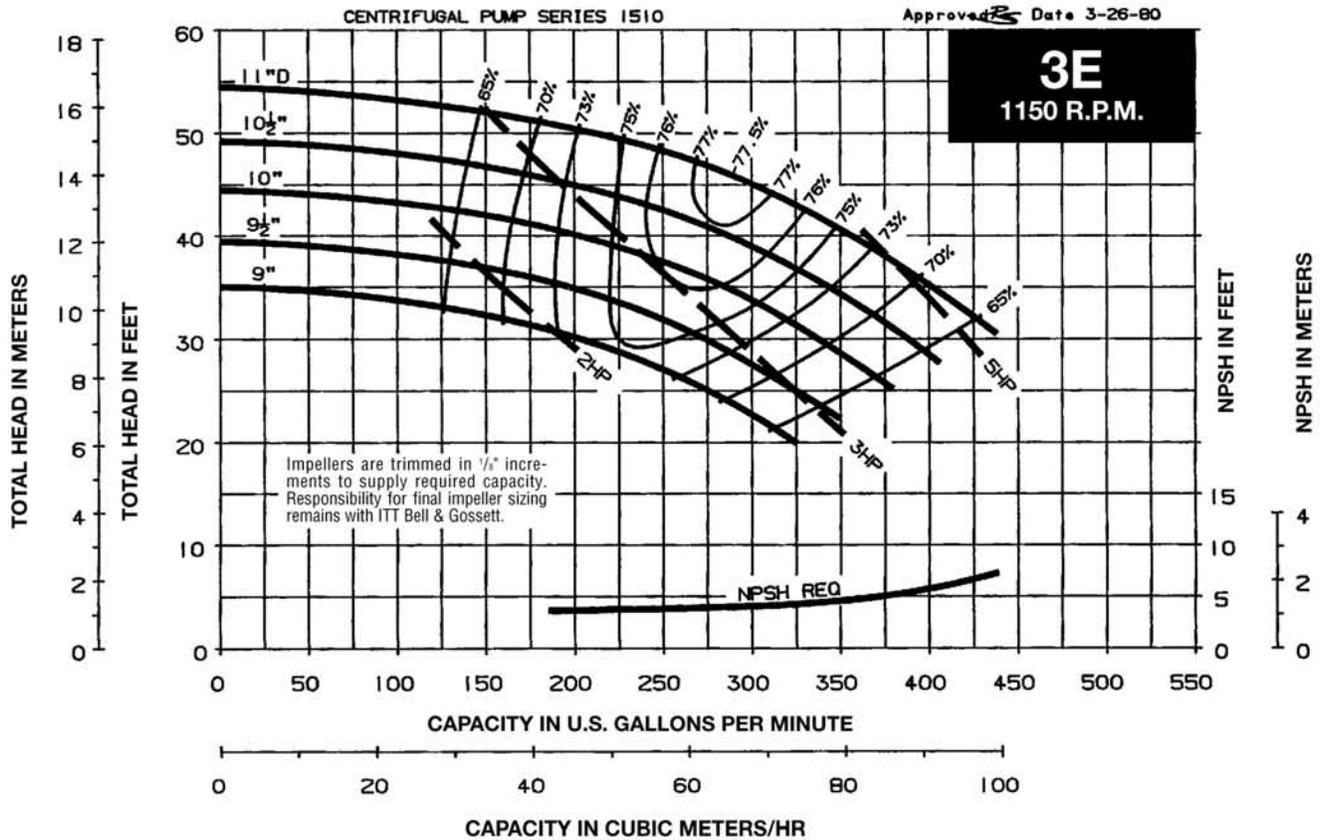
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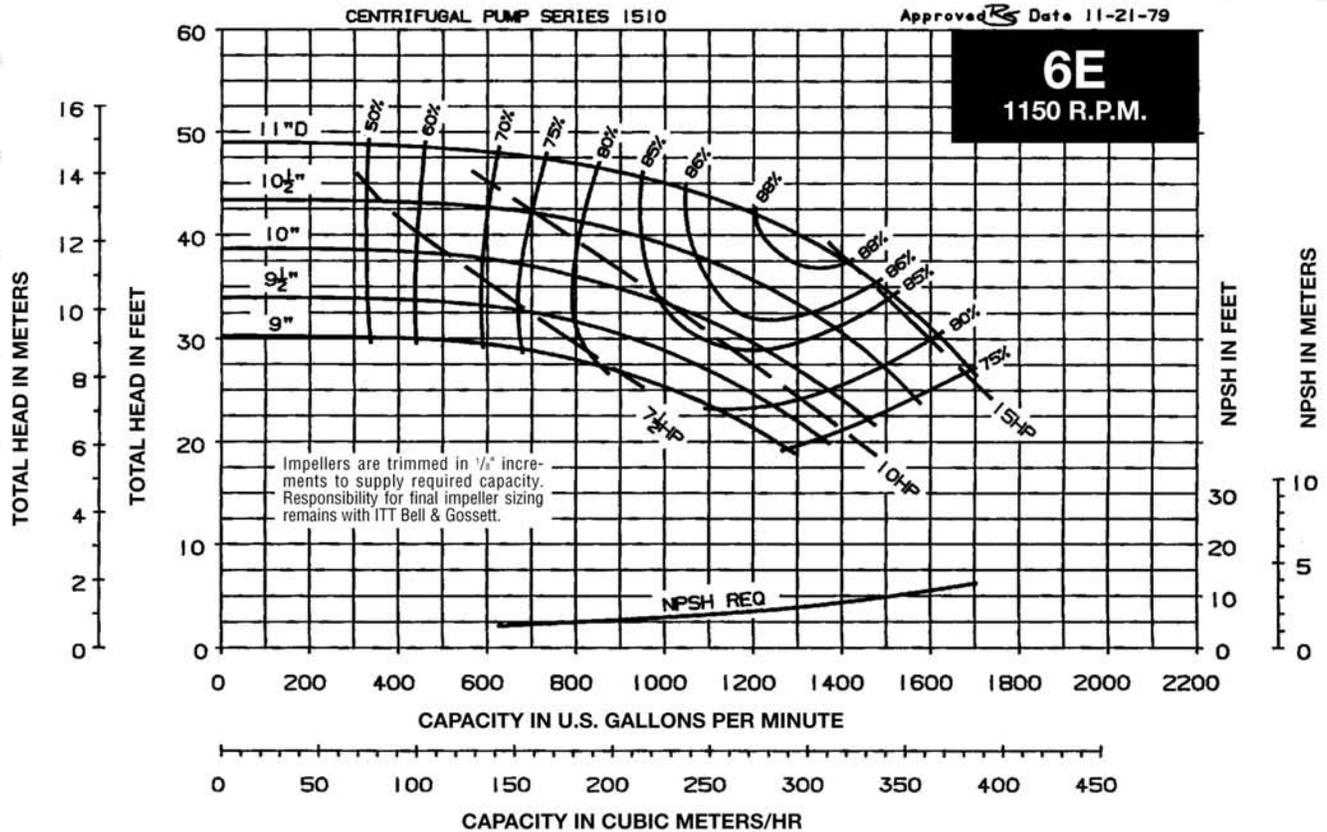
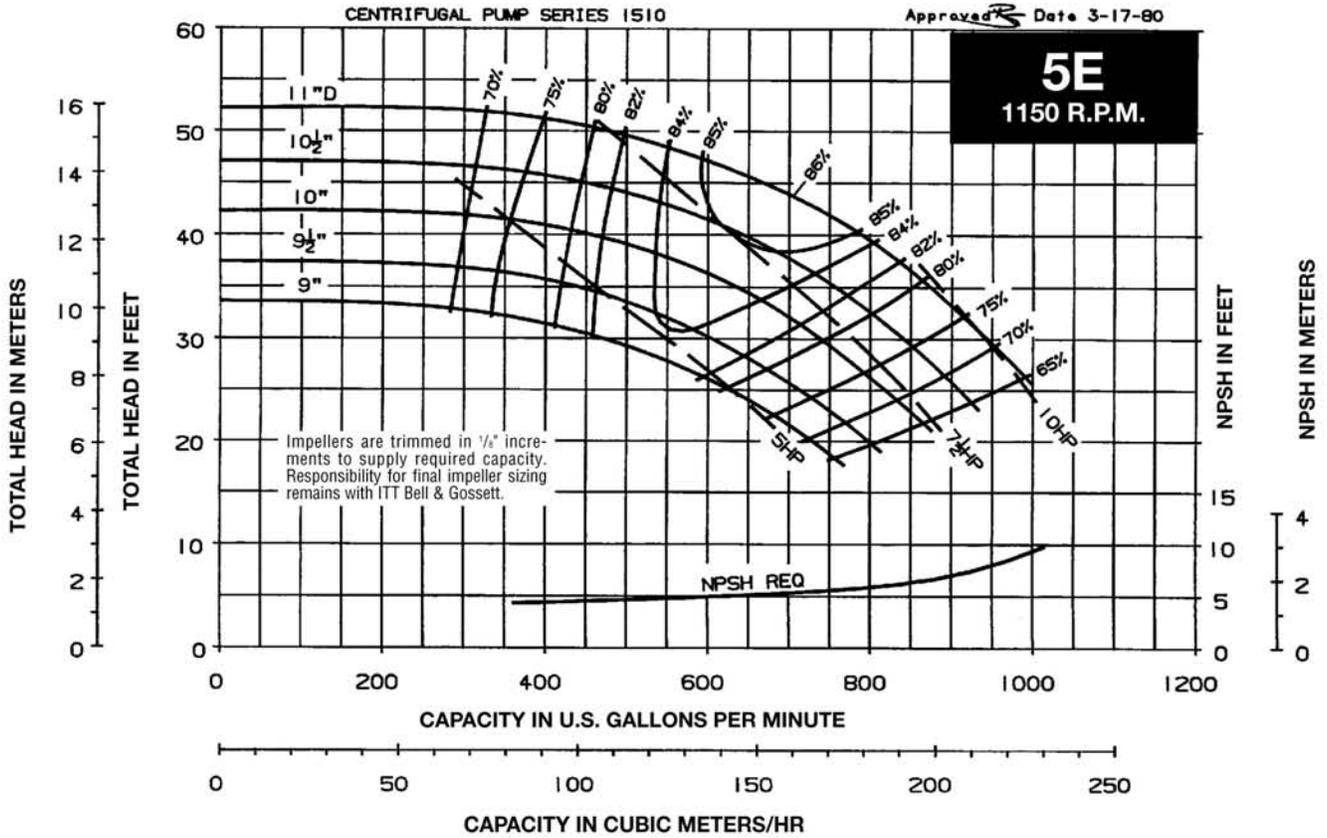
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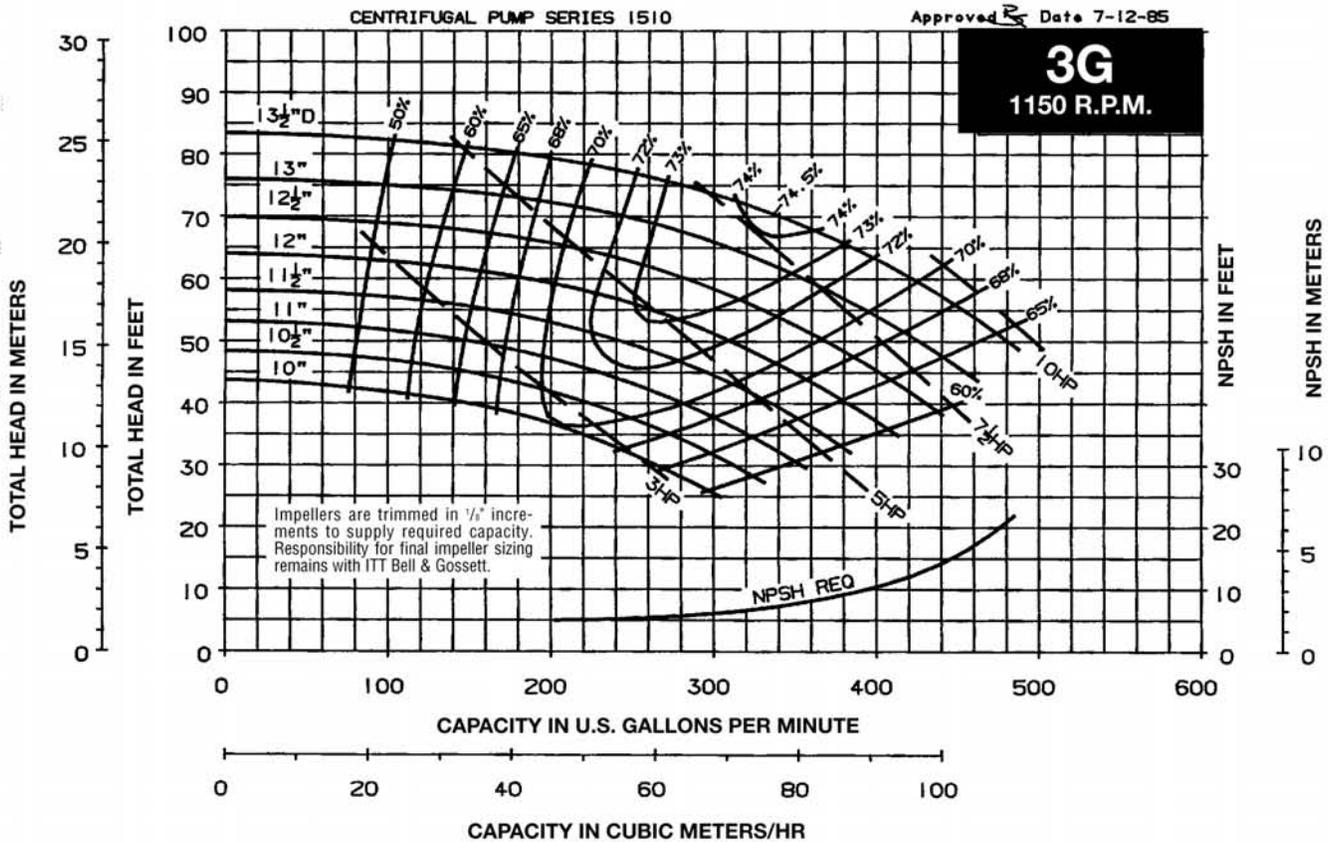
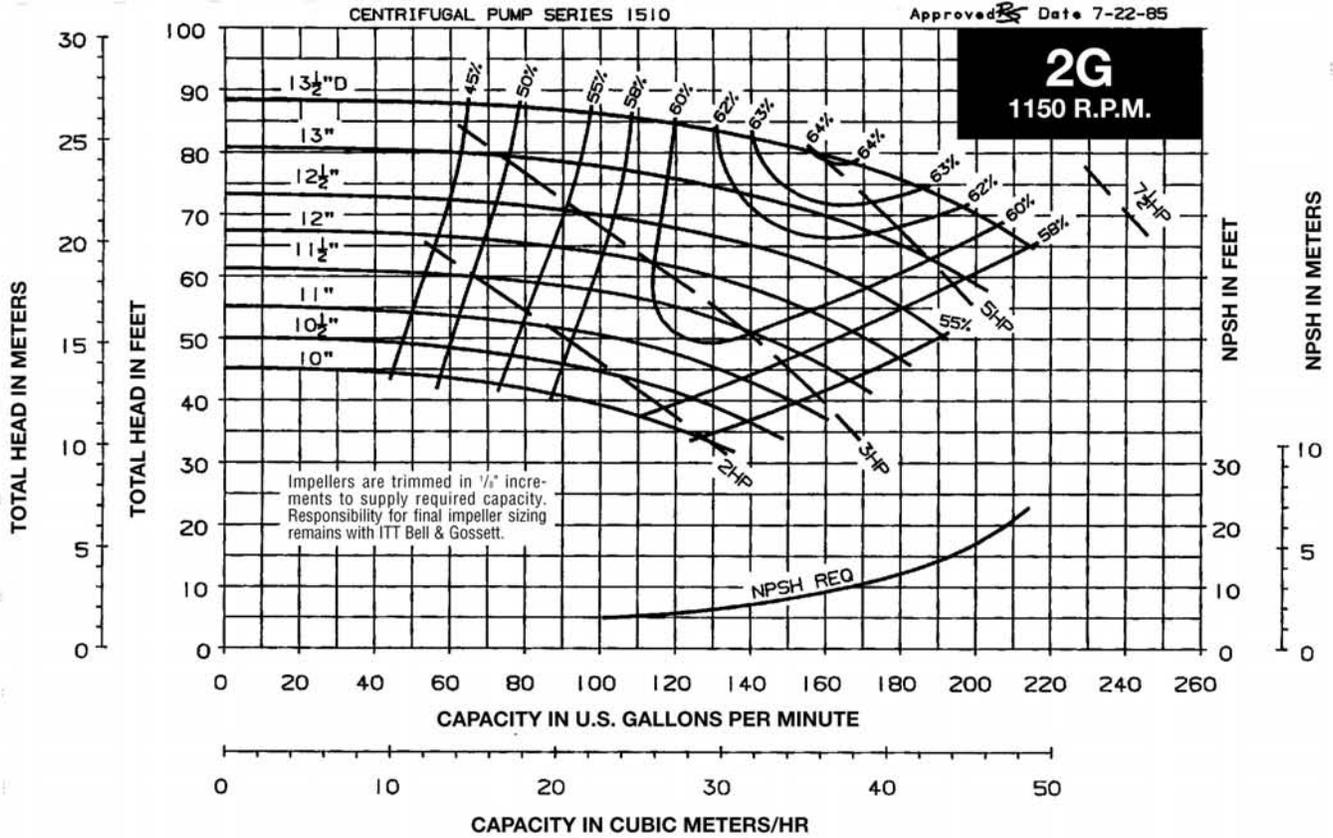
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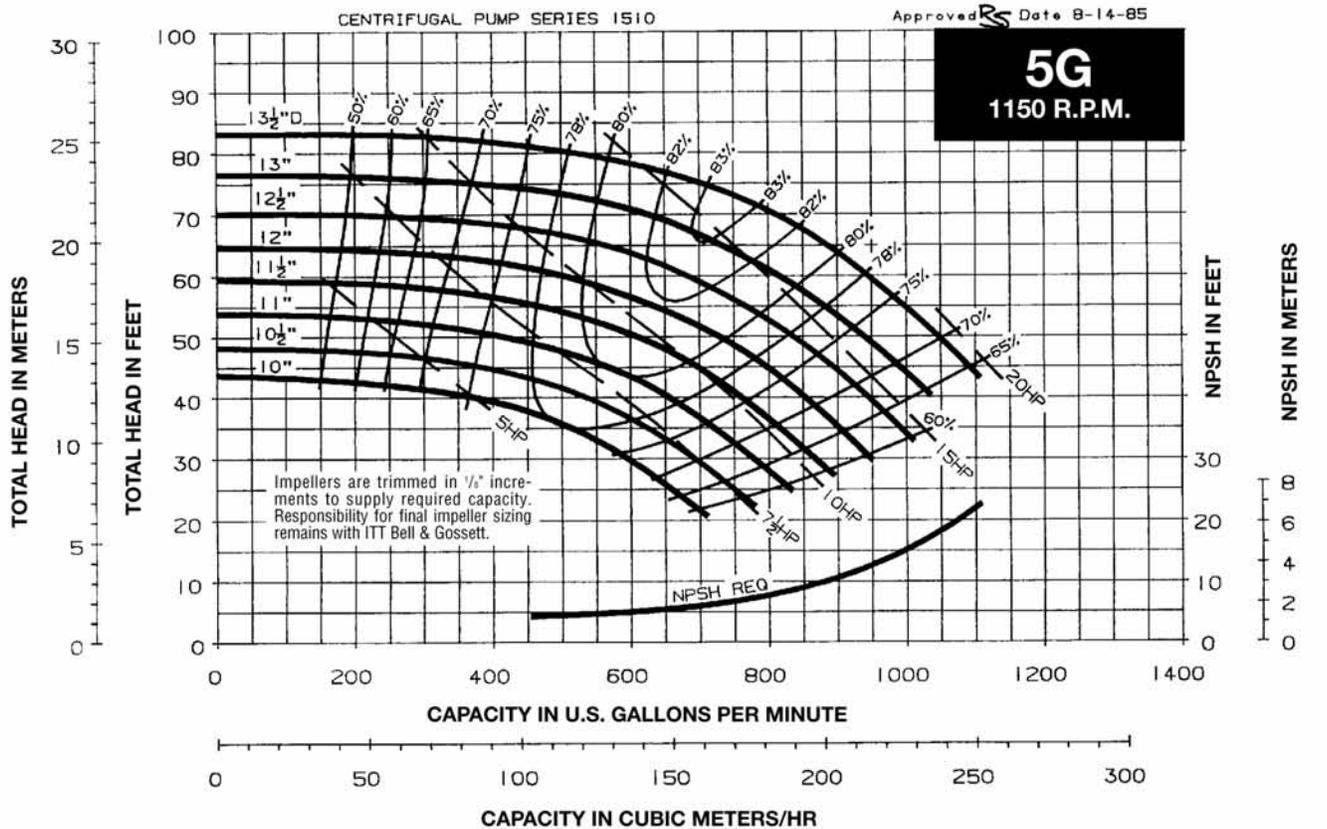
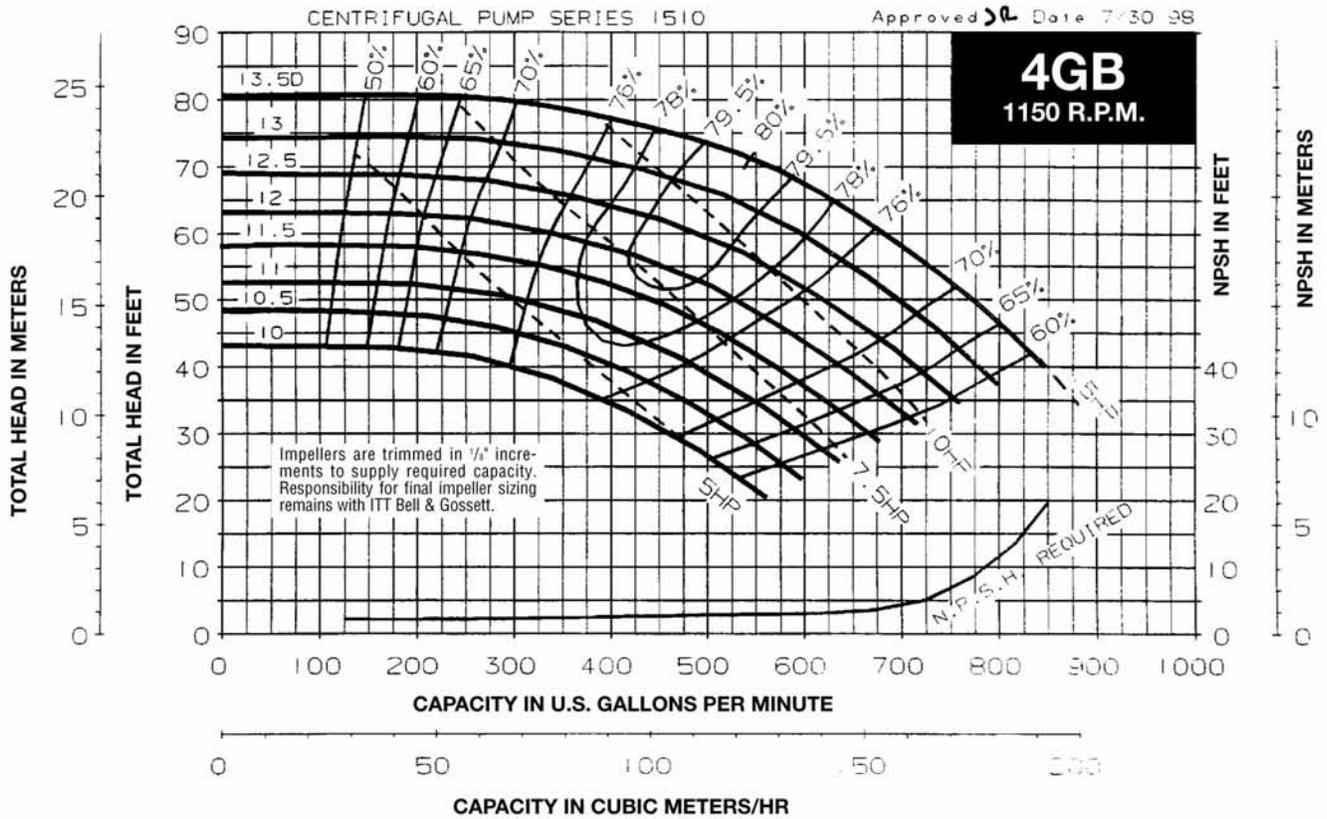
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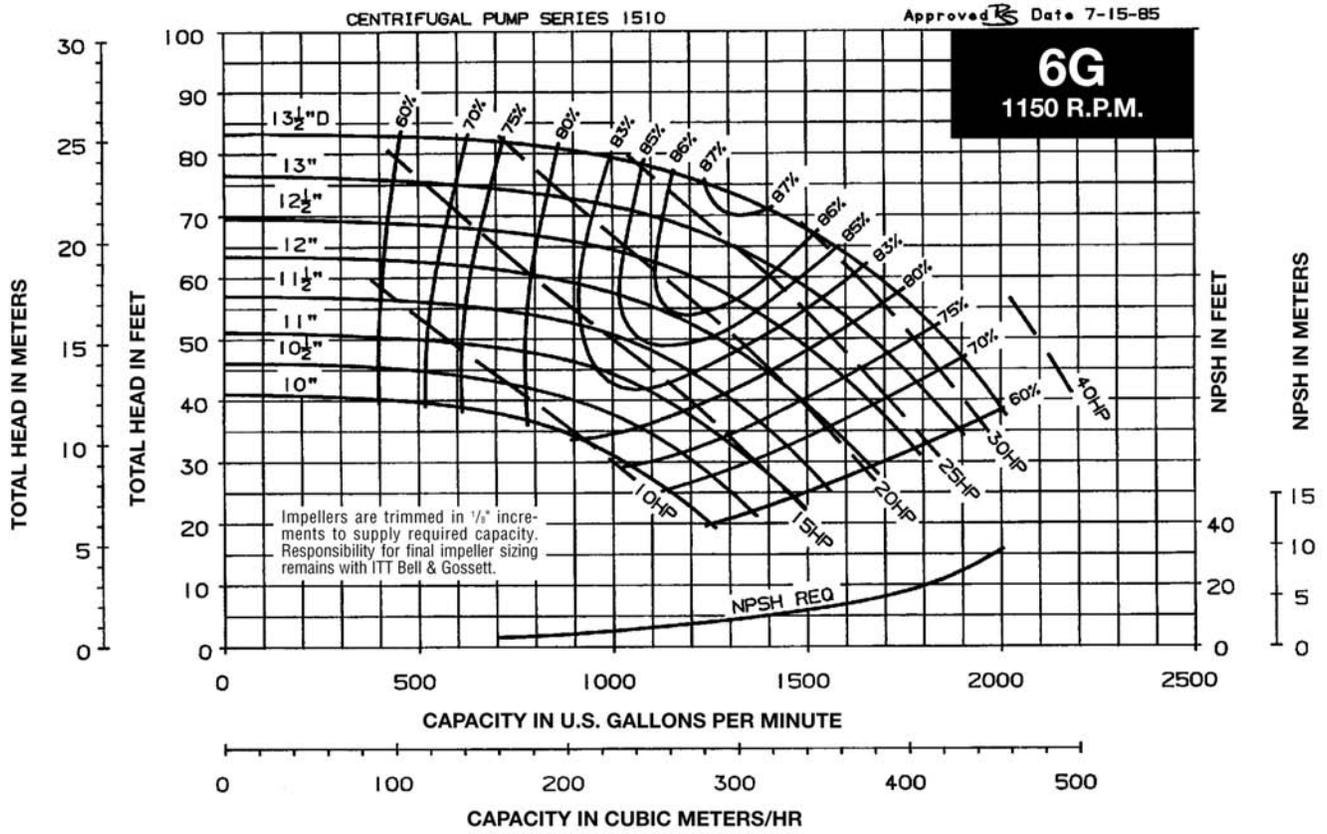
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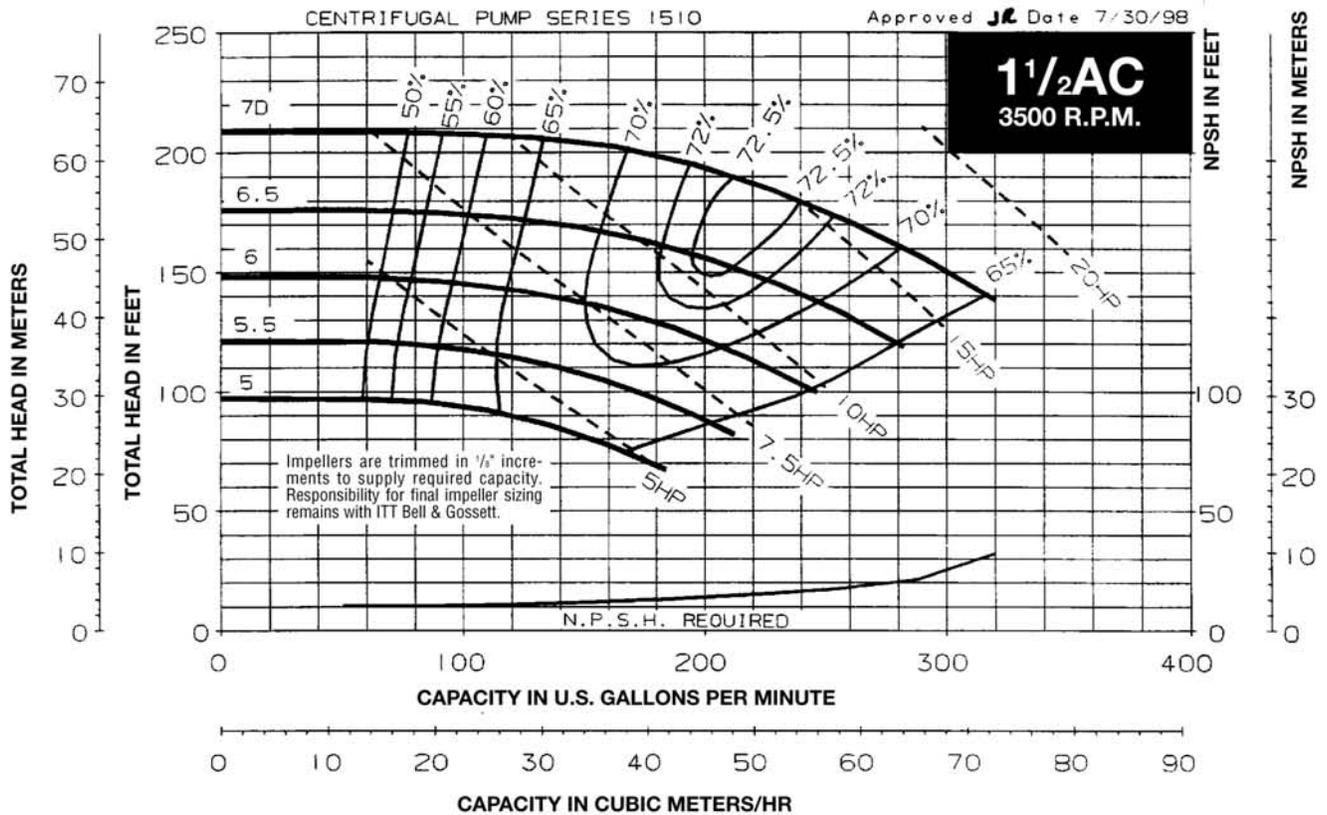
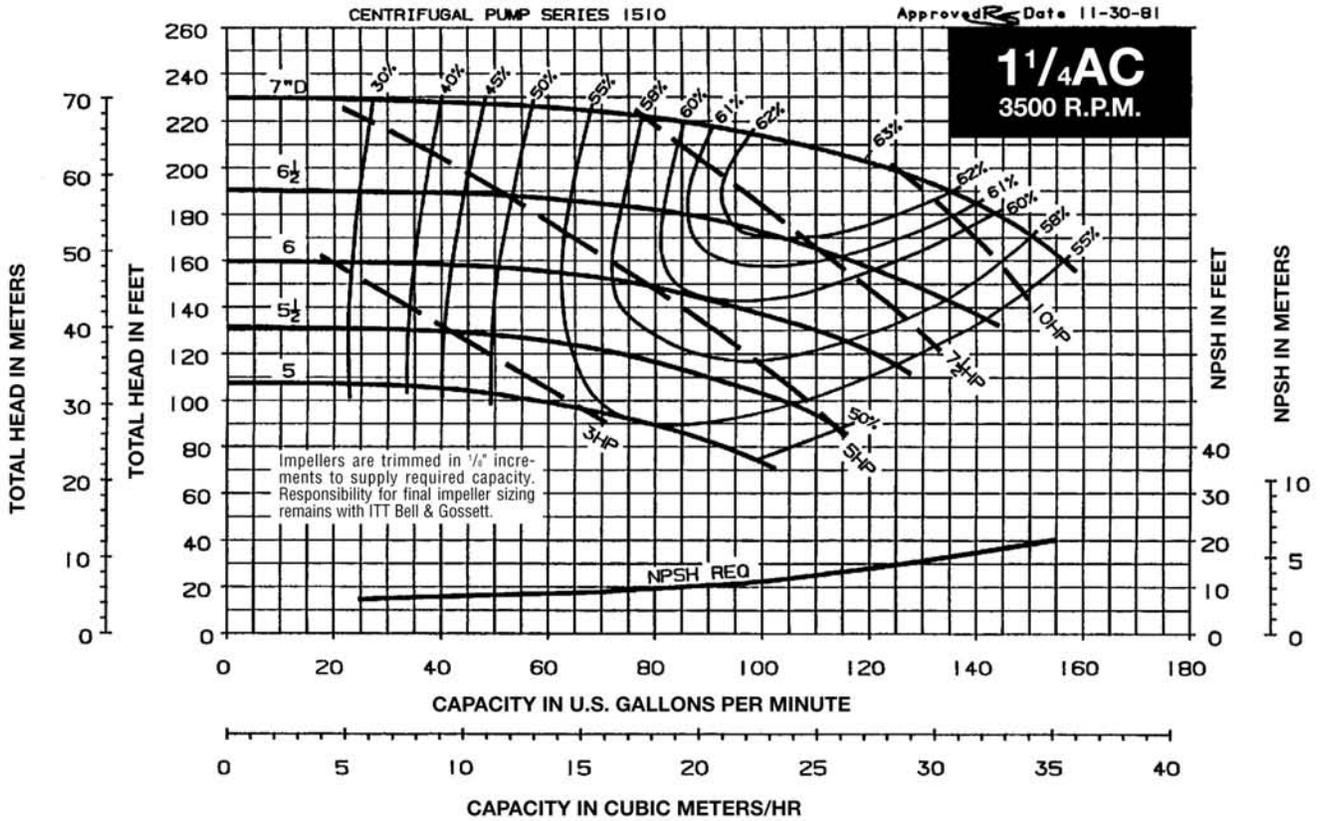
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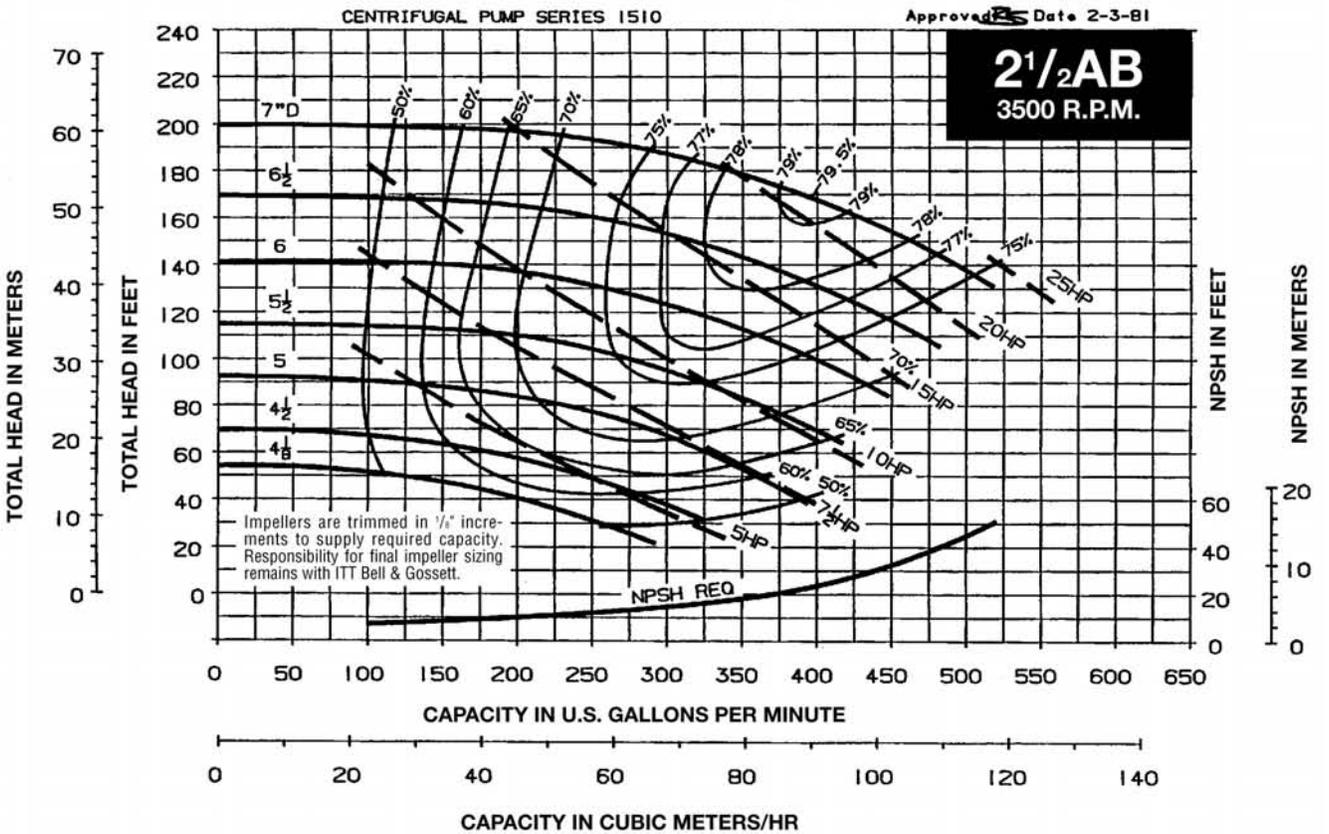
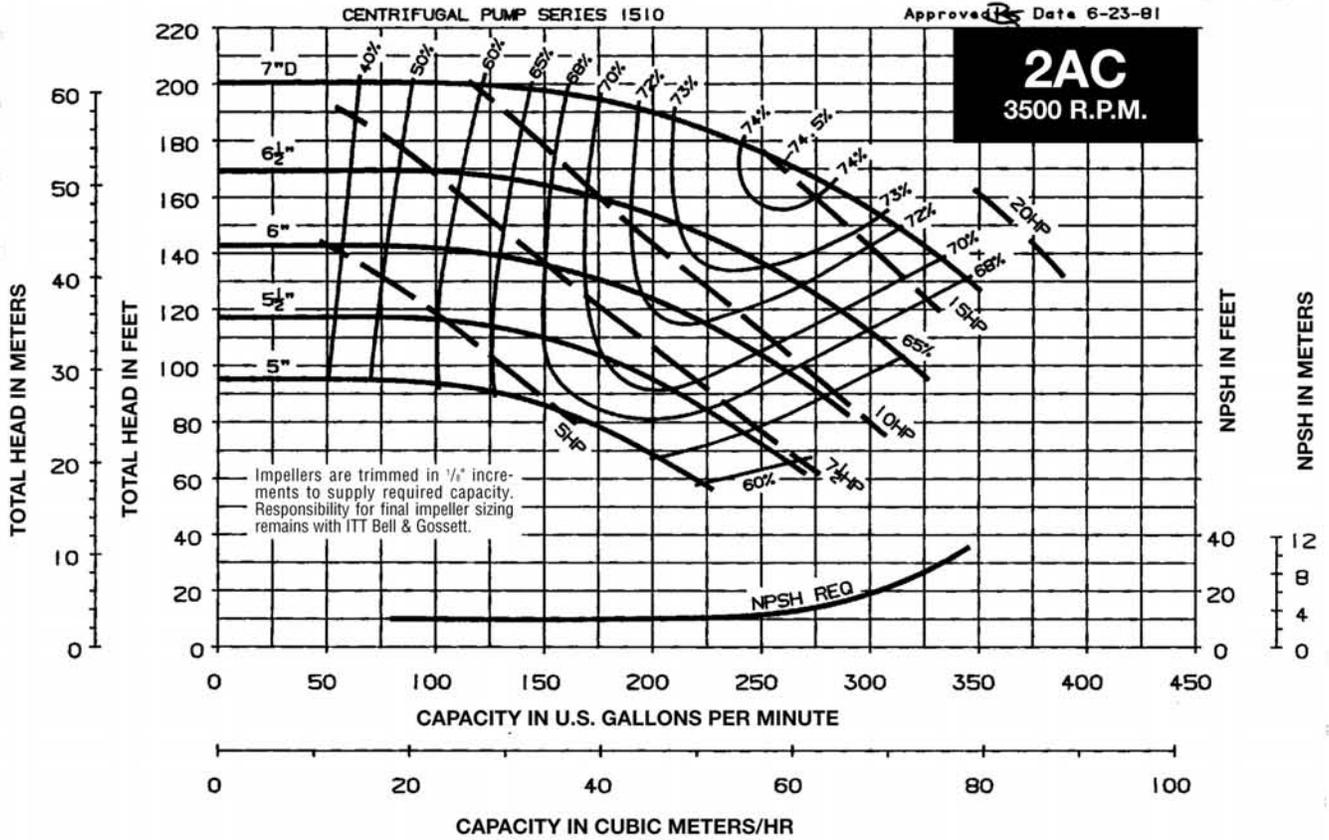
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3500 RPM PUMP CURVES



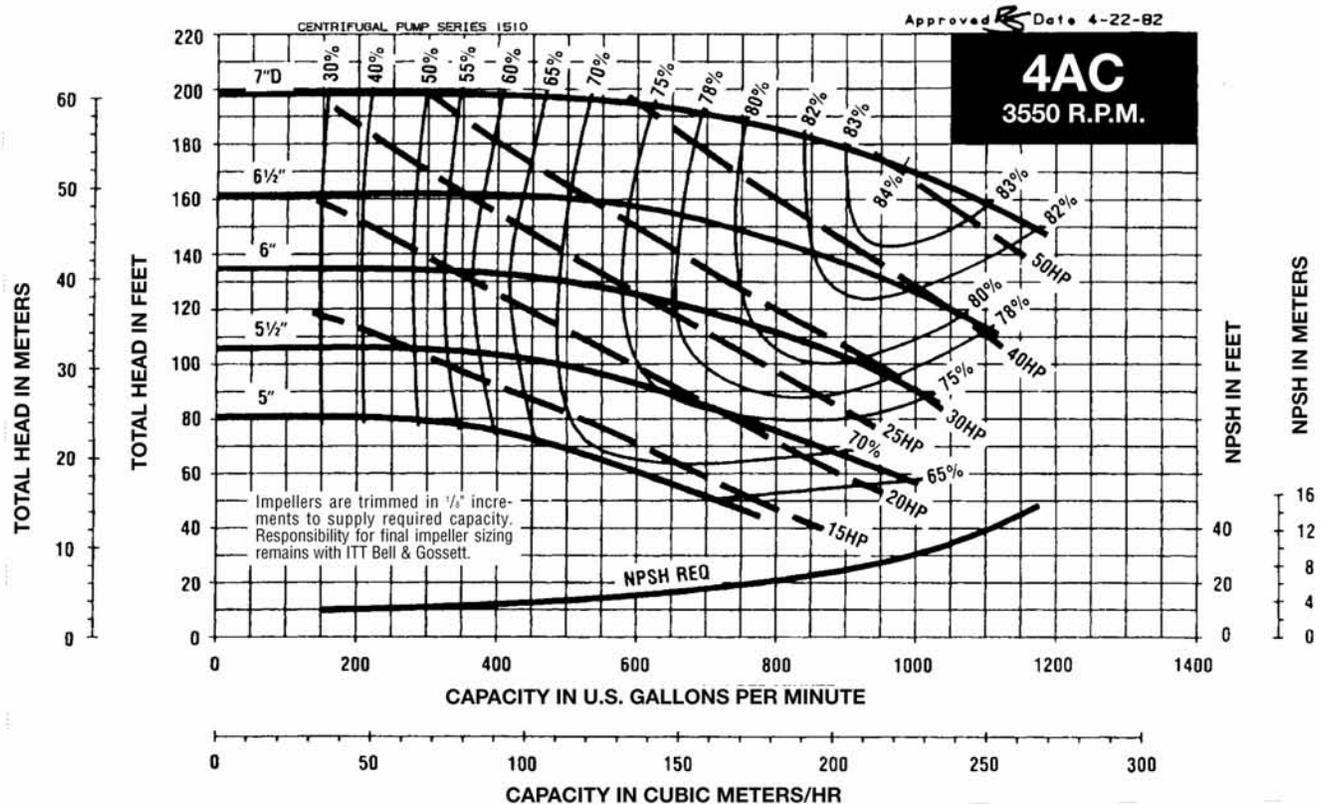
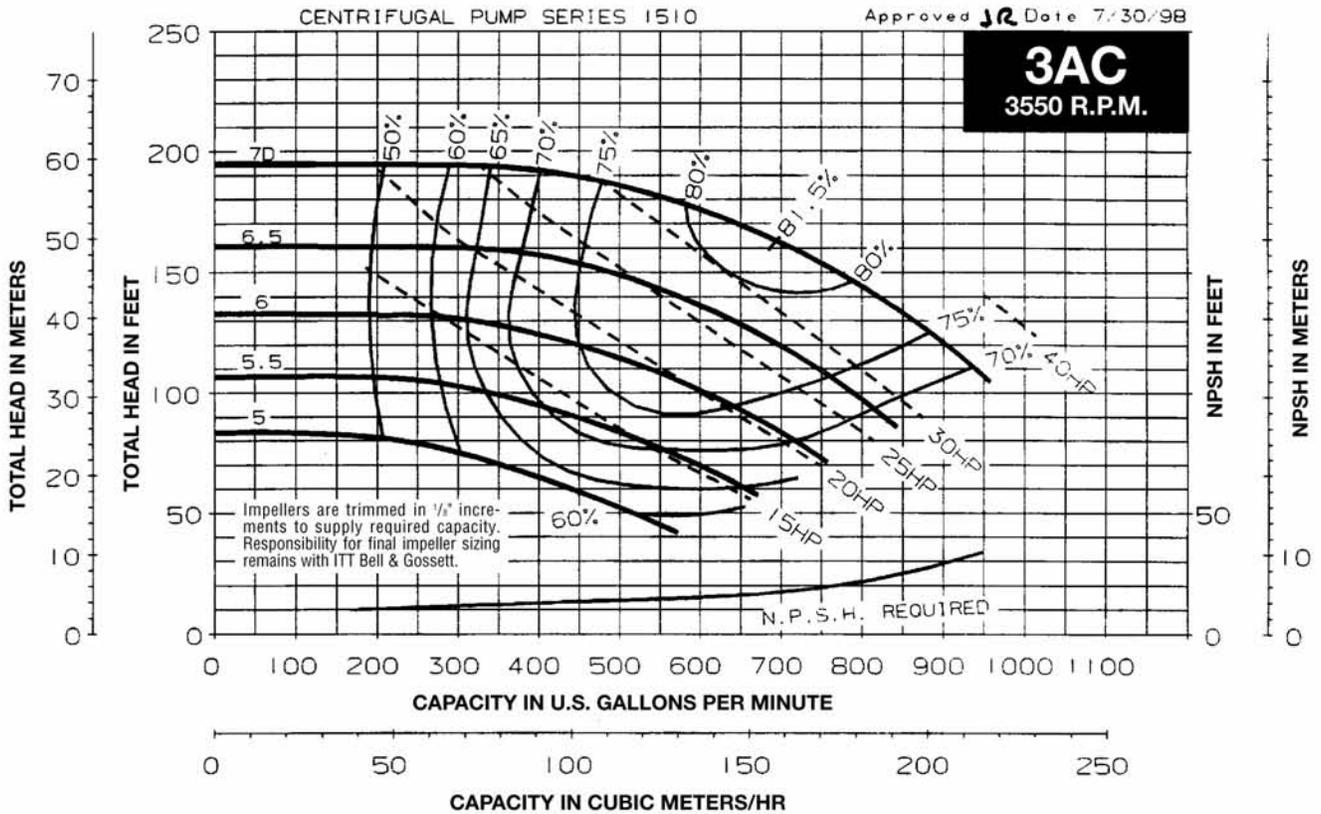
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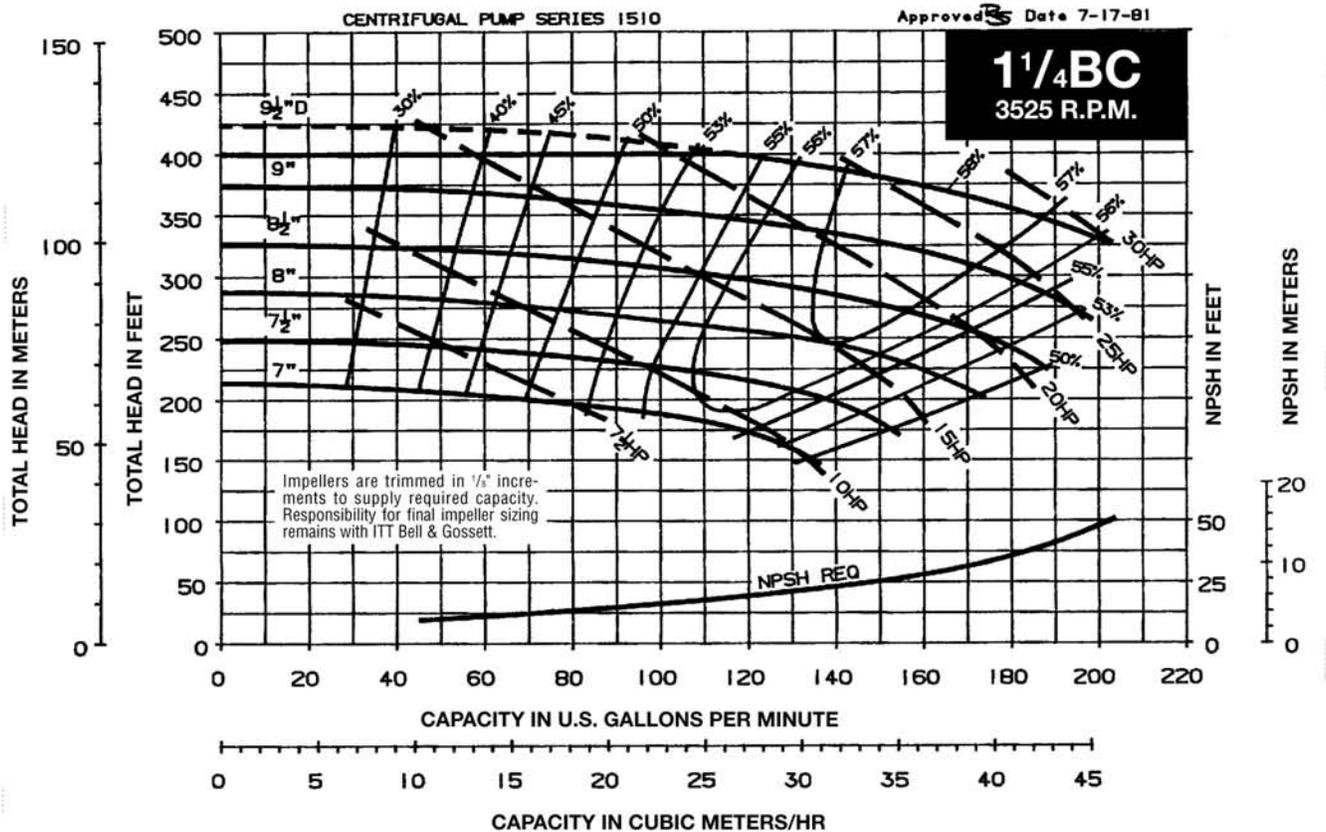
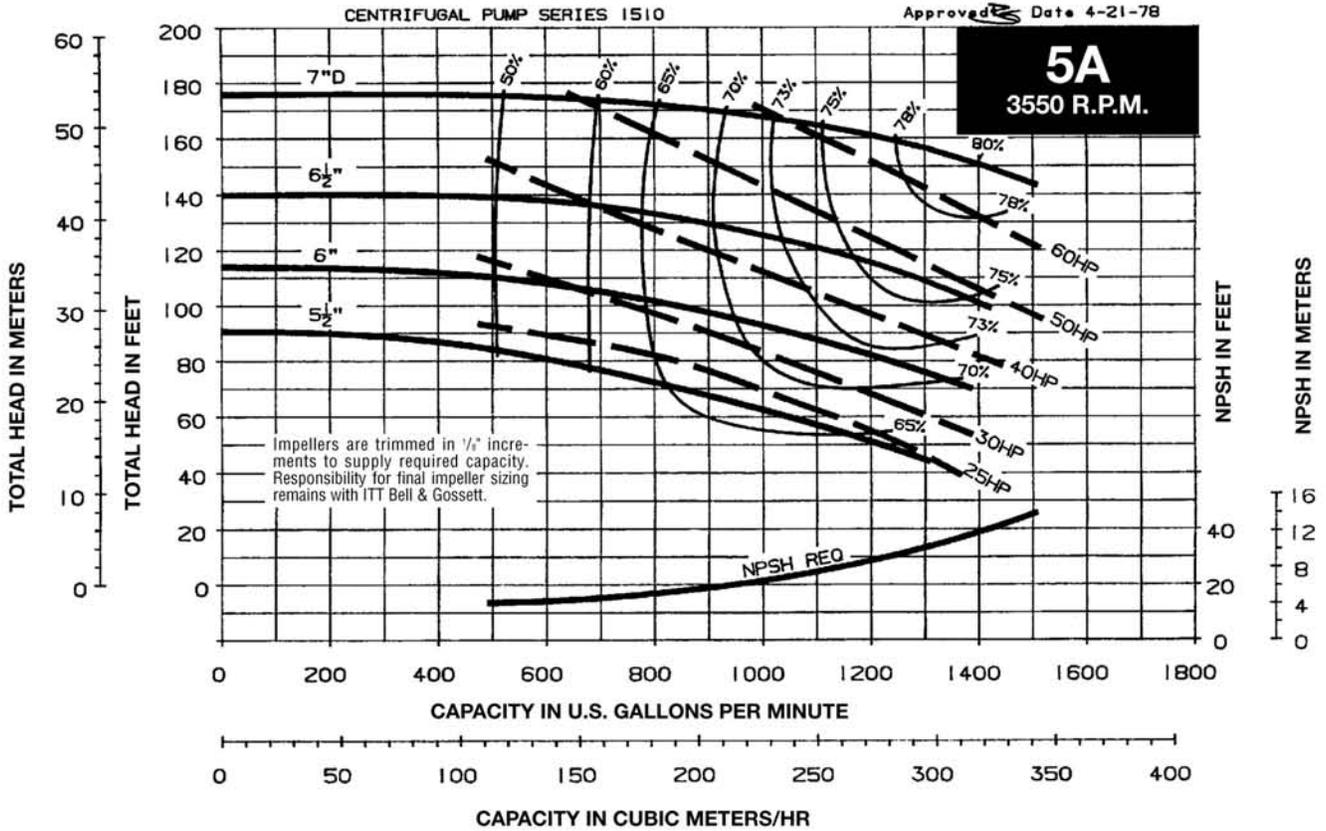
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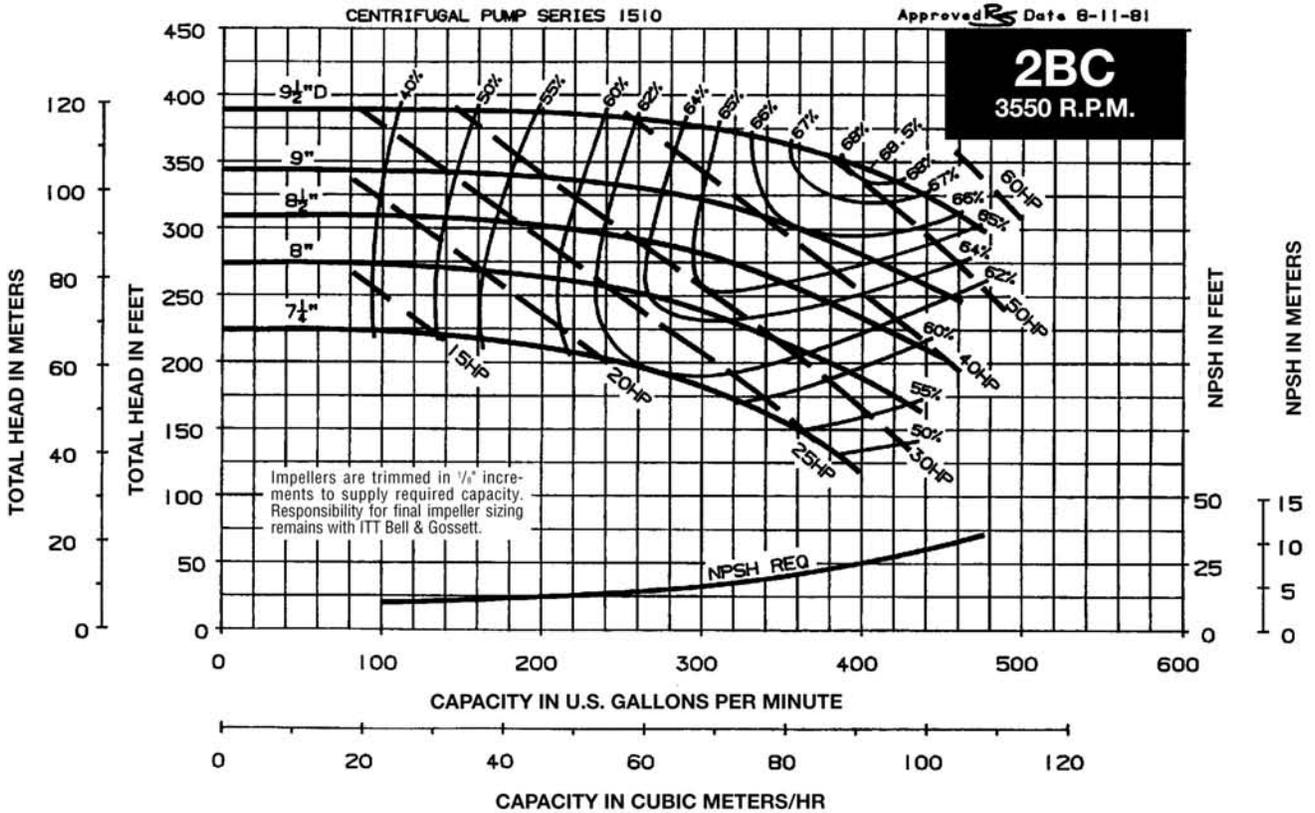
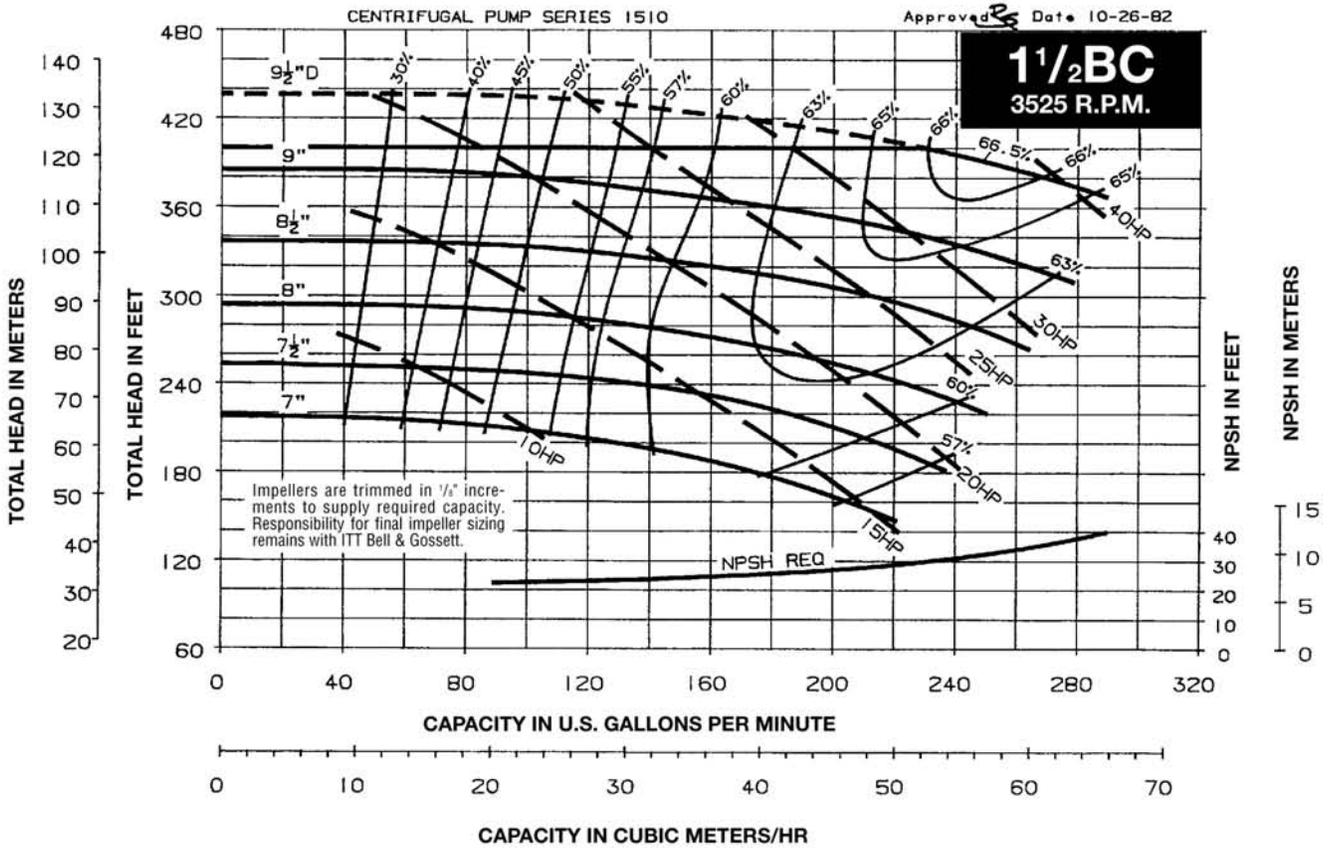
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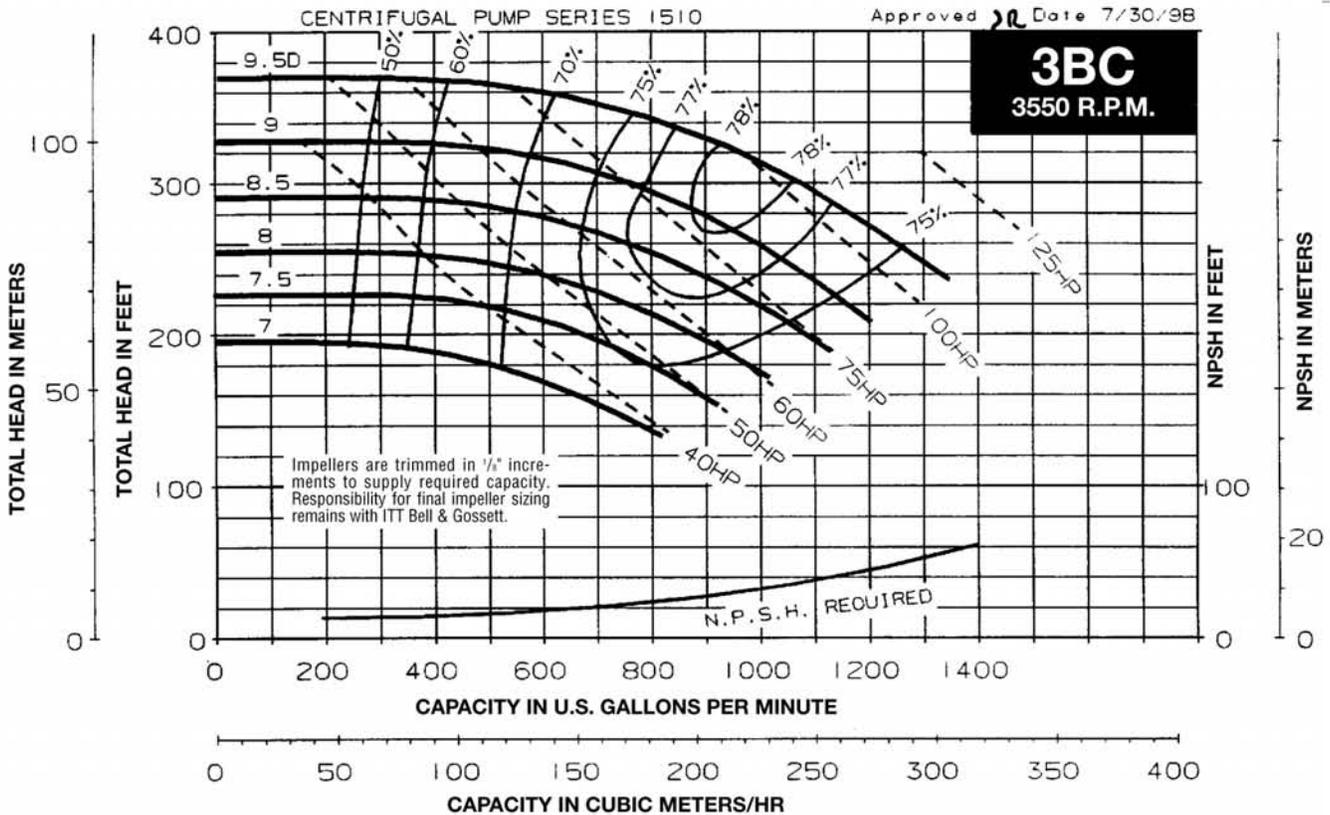
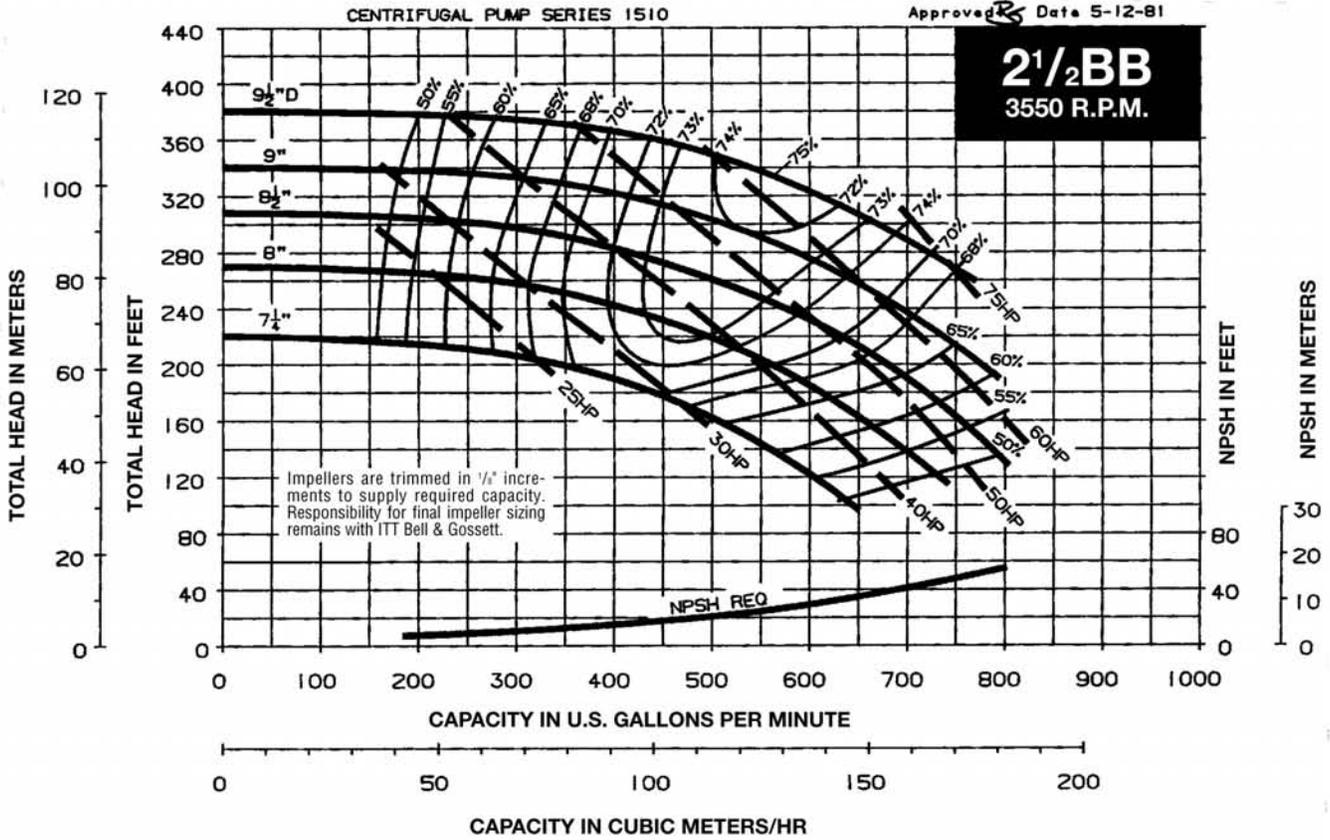
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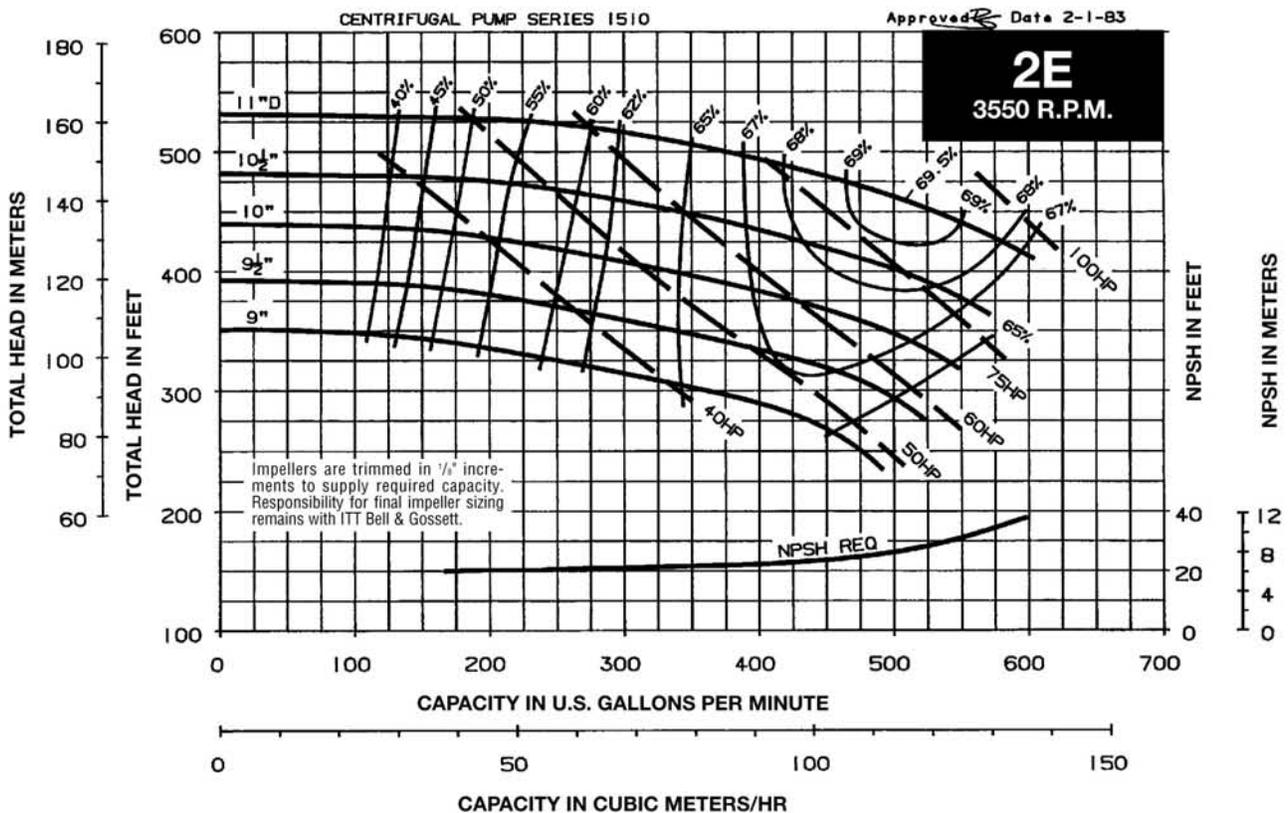
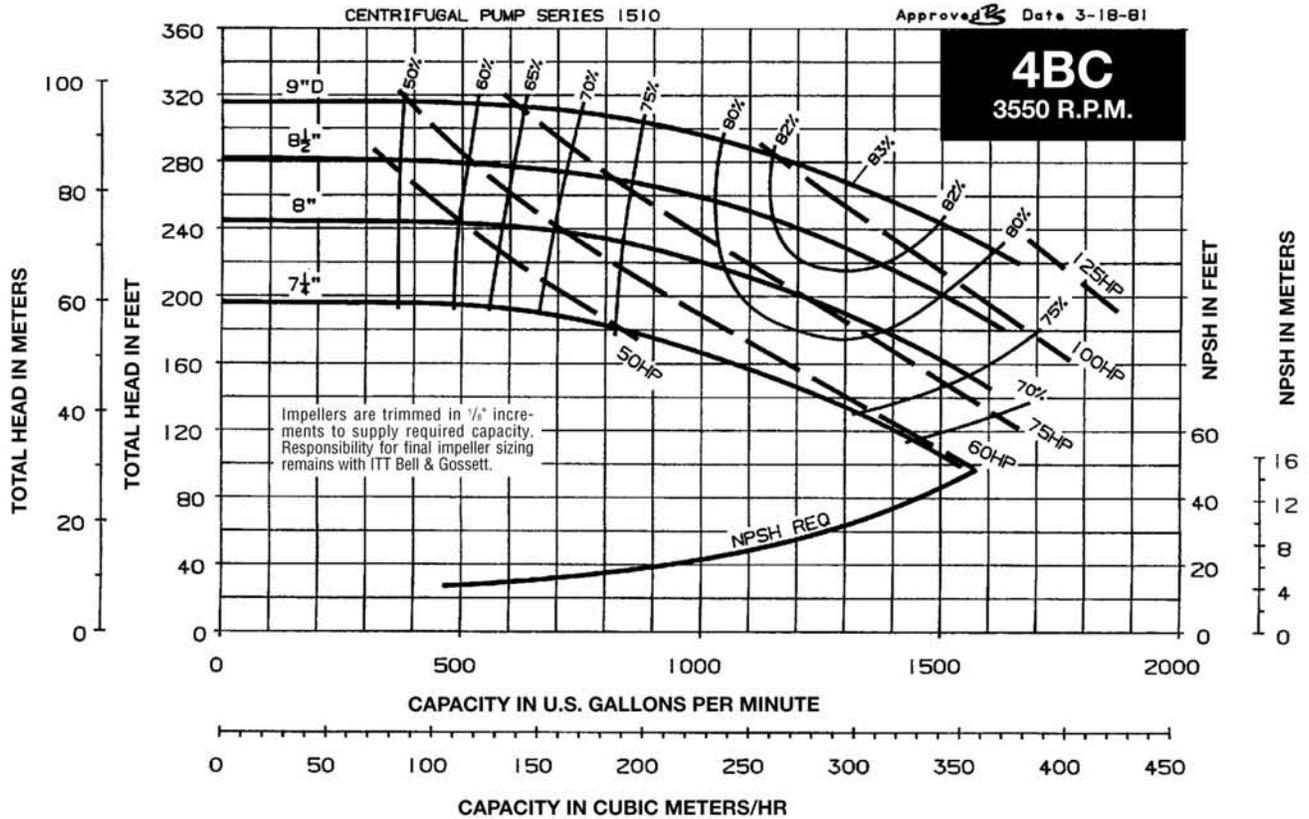
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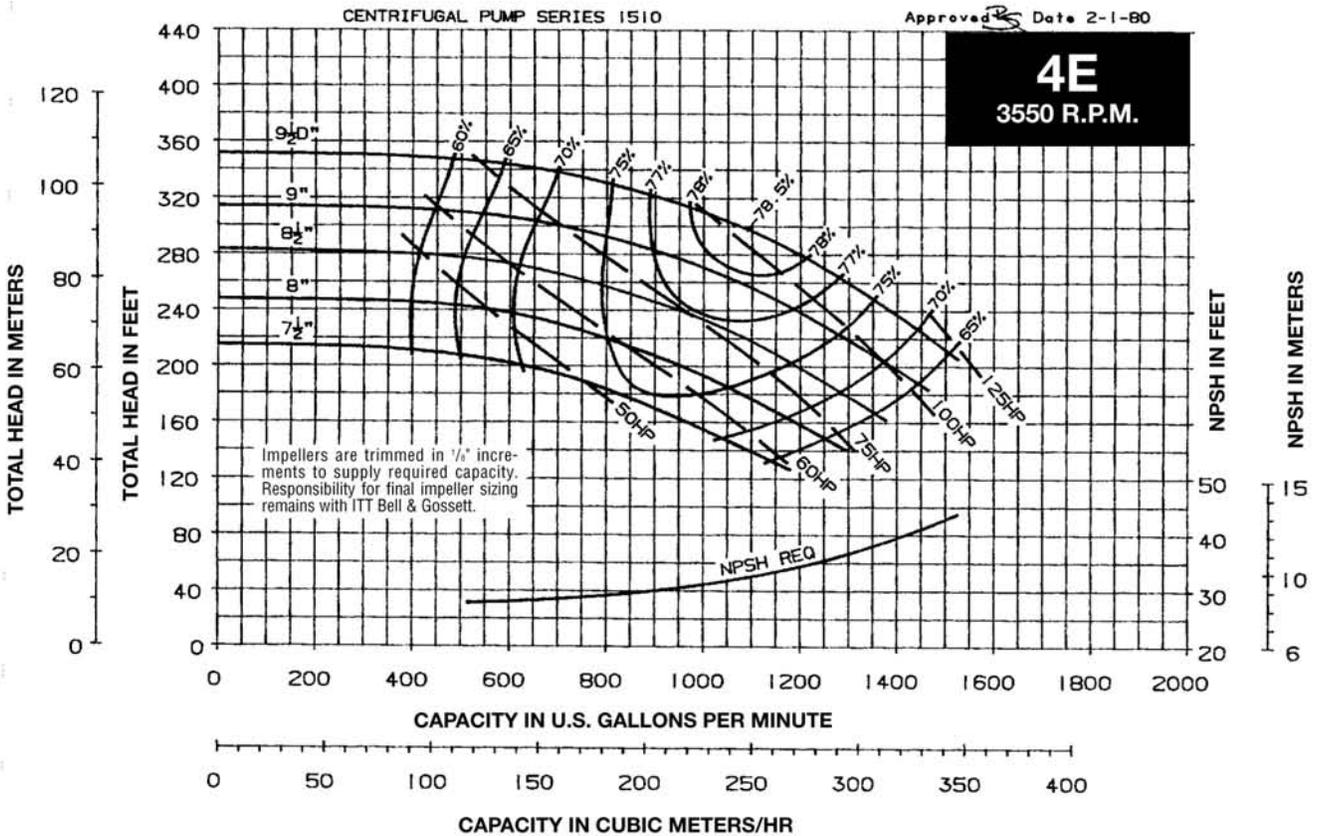
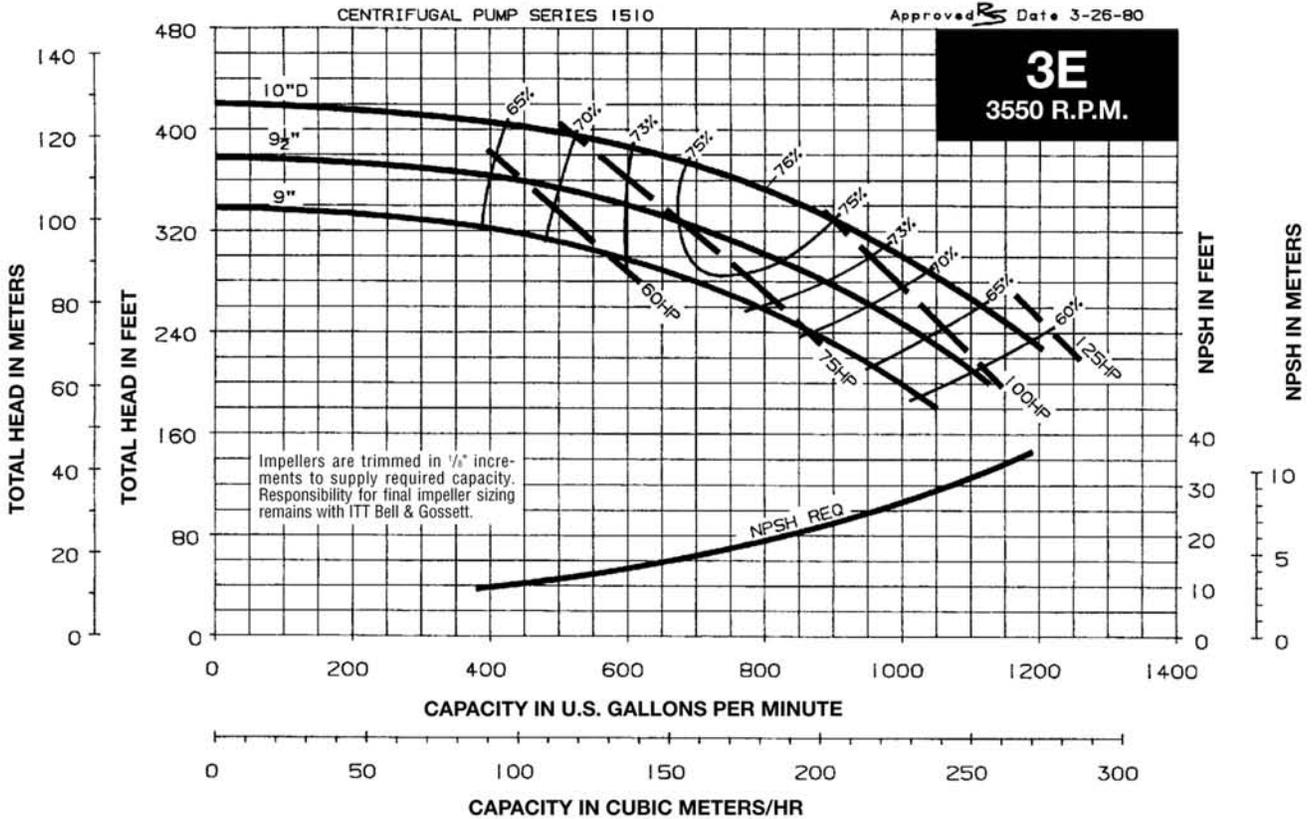
SERIES 1510

3500 RPM PUMP CURVES



SERIES 1510

3500 RPM PUMP CURVES



SERIES 1510

| DIMENSIONS – INCHES (MM) | | | STANDARD MECHANICAL SEAL PUMP MODEL 1510, 1510-F | | | | | | | | STUFFING BOX CONSTRUCTION PUMP MODEL 1510-PF, 1510-S | | | | | | | | | | | | | | |
|--|------------------|---|---|------------------|------------------|-----------------|-----------------|-----------------|----------------|------------------|---|------------------|------------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| PUMP SIZE DISCHARGE | SUCTION SIZE | MOTOR FRAME SIZE | HA | HB | HD | HL | HO | HP | Y | Z | HA | HB | HD | HL | HO | HP | Y | Z | | | | | | | |
| 3 BC | | 182T-184T | 14 1/2 (371) | 31(787) | 10 1/2 (273) | 3 1/2 (94) | 18 1/2 (464) | 3 (76) | 4 1/2 (121) | 6 1/2 (156) | 14 1/2 (371) | 34 1/2(879) | 10 1/2 (273) | 3 1/2 (94) | 18 1/2 (464) | 3 (76) | 4 1/2 (121) | 6 1/2 (156) | | | | | | | |
| | | 213T-215T | | 34 1/2(870) | | | | | | | 16 (406) | 46 1/2(1181) | 12(305) | 4 1/2 (122) | 19 1/2(495) | 19 1/2(495) | | | 5 (127) | | | | | | |
| | | 254T | | 39 1/2(1000) | | | | | | | | 16 (406) | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | | | 5 (127) | | | | | | |
| | | 284TS-286TS | | 46 1/2 (1181) | | | | | | | | | 13(330) | 4 1/2 (122) | 20 1/2(521) | 20 1/2(521) | | | 5 (127) | | | | | | |
| 324TS-326TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 3 Et | 4 | 184T | 16 (406) | 42 1/2 (1073) | 14 (356) | 6 1/2 (170) | 23 1/2 (597) | 5 (127) | 5 1/2 (140) | 7 1/2 (187) | 16 (406) | 42 1/2 (1073) | 14 (356) | 6 1/2 (170) | 23 1/2 (597) | 5 (127) | 5 1/2 (140) | 7 1/2 (187) | | | | | | | |
| | | 213T-215T | | 46 1/2(1181) | | | | | | | 16 (406) | 51 1/2 (1314) | 12(305) | 4 1/2 (110) | 19 1/2(495) | 19 1/2(495) | | | 5 (127) | | | | | | |
| | | 254T | | 51 1/2 (1314) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 4 1/2 (125) | 26 (660) | | | 6 (152) | | | | | | |
| | | 256T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 4 1/2 (125) | 26 (660) | 6 (152) | | | | | | | | | |
| 326TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 3 G† | | 184T | 16 (406) | 46 1/2 (1181) | 14 (356) | 4 1/2 (105) | 23 1/2 (597) | 5 (127) | 5 1/2 (143) | 8 (203) | 16 (406) | 46 1/2(1181) | 14 (356) | 4 1/2 (105) | 23 1/2 (597) | 5 (127) | 5 1/2 (143) | 8 (203) | | | | | | | |
| | | 213T-215T | | 39 1/2(1000) | | | | | | | 16 (406) | 51 1/2 (1314) | 12(305) | 4 1/2 (105) | 23 1/2 (597) | 23 1/2 (597) | | | 5 (127) | | | | | | |
| | | 254T-256T | | 46 1/2 (1181) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 4 1/2 (125) | 26 (660) | | | 6 (152) | | | | | | |
| | | 284T-286T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 4 1/2 (125) | 26 (660) | 6 (152) | | | | | | | | | |
| 324T | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 4 AC† | | 145T | 14 1/2 (371) | 31 (787) | 10 1/2 (273) | 4 1/2 (110) | 18 1/2 (464) | 3 (76) | 4 1/2 (125) | 5 1/2 (146) | 14 1/2 (371) | 34 1/2 (879) | 10 1/2 (273) | 4 1/2 (110) | 18 1/2 (464) | 3 (76) | 4 1/2 (125) | 5 1/2 (146) | | | | | | | |
| | | 182T-184T | | 34 1/2(870) | | | | | | | 16 (406) | 46 1/2(1181) | 12(305) | 5 1/2 (138) | 20 1/2(521) | 20 1/2(521) | | | 5 (127) | | | | | | |
| | | 213T | | 39 1/2(1000) | | | | | | | | 16 (406) | 51 1/2 (1314) | 12(305) | 5 1/2 (138) | 20 1/2(521) | | | 20 1/2(521) | 5 (127) | | | | | |
| | | 254T-256T | | 46 1/2 (1181) | | | | | | | | | 13(330) | 5 1/2 (138) | 20 1/2(521) | 20 1/2(521) | | | 5 (127) | | | | | | |
| 284TS-286TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 4 BC | 5 | 213T-215T | 14 1/2 (371) | 34 1/2(870) | 12 1/2 (324) | 4 (102) | 20 1/2 (527) | 3 (76) | 5 (127) | 7 (178) | 16 (406) | 46 1/2(1181) | 14 (356) | 5 1/2 (130) | 22 (559) | 5 (127) | 5 (127) | 7 (178) | | | | | | | |
| | | 254T | 39 1/2(1000) | 16 (406) | 51 1/2 (1314) | 12(305) | 5 1/2 (146) | 24 1/2 (622) | | | 6 (152) | | | | | | | | | | | | | | |
| | | 256T | 46 1/2 (1181) | | 24 (610) | 56 (1422) | 16 1/2 (419) | 5 1/2 (146) | | | 24 1/2 (622) | 6 (152) | | | | | | | | | | | | | |
| | | 286TS | 51 1/2 (1314) | | | 16 1/2 (419) | 5 1/2 (146) | 24 1/2 (622) | | | 6 (152) | | | | | | | | | | | | | | |
| 324TS-326TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 4 E | | 213T-215T | 16 (406) | 42 1/2 (1073) | 14 (356) | 6 1/2 (170) | 23 1/2 (603) | 5 (127) | 5 1/2 (141) | 7 1/2 (184) | 16 (406) | 42 1/2 (1073) | 14 (356) | 6 1/2 (170) | 23 1/2 (603) | 5 (127) | 5 1/2 (141) | 7 1/2 (184) | | | | | | | |
| | | 254T | | 46 1/2(1181) | | | | | | | 16 (406) | 51 1/2 (1314) | 12(305) | 4 1/2 (110) | 19 1/2(495) | 19 1/2(495) | | | 5 (127) | | | | | | |
| | | 256T | | 51 1/2 (1314) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 4 1/2 (125) | 26 1/2 (667) | | | 6 (152) | | | | | | |
| | | 284T-286T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 4 1/2 (125) | 26 1/2 (667) | 6 (152) | | | | | | | | | |
| 324TS-326TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 4 GB | | 213T-215T | 16 (406) | 46 1/2 (1181) | 15 (381) | 5 1/2 (137) | 25 (635) | 5 (127) | 6 (152) | 8 1/2 (217) | 16 (406) | 46 1/2(1181) | 15 (381) | 5 1/2 (137) | 25 (635) | 5 (127) | 6 (152) | 8 1/2 (217) | | | | | | | |
| | | 254T-256T | | 51 1/2 (1314) | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 5 1/2 (137) | 25 (635) | 5 (127) | | | | | | | | | |
| | | 284T-286T | | 51 1/2 (1314) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 5 1/2 (137) | 25 (635) | | | 5 (127) | | | | | | |
| | | 324T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 5 1/2 (137) | 25 (635) | 5 (127) | | | | | | | | | |
| 5 A† | | 182T-184T | 14 1/2 (371) | 31(787) | 12 1/2 (324) | 5 1/2 (146) | 21 1/2 (540) | 3 (76) | 5 1/2 (148) | 6 1/2 (159) | 14 1/2 (371) | 34 1/2(879) | 12 1/2 (324) | 5 1/2 (146) | 21 1/2 (540) | 3 (76) | 5 1/2 (148) | 6 1/2 (159) | | | | | | | |
| | | 213T-215T | | 34 1/2(870) | | | | | | | 16 (406) | 46 1/2(1181) | 14 (356) | 6 1/2 (175) | 22 1/2 (572) | 22 1/2 (572) | | | 5 (127) | | | | | | |
| | | 254T-256T | | 46 1/2 (1181) | | | | | | | | 16 (406) | 51 1/2 (1314) | 14 (356) | 6 1/2 (175) | 22 1/2 (572) | | | 22 1/2 (572) | 5 (127) | | | | | |
| | | 284TS-286TS | | 51 1/2 (1314) | | | | | | | | | 15 (381) | 6 1/2 (164) | 25 (635) | 25 (635) | | | 5 (127) | | | | | | |
| 324TS-326TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 5 BC† | | 213T-215T | 16 (406) | 46 1/2 (1181) | 15 (381) | 4 1/2 (116) | 25 (635) | 5 (127) | 6 (152) | 7 1/2 (191) | 16 (406) | 46 1/2(1181) | 15 (381) | 6 1/2 (164) | 25 (635) | 5 (127) | 6 (152) | 7 1/2 (191) | | | | | | | |
| | | 254T | | 51 1/2(1314) | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 4 1/2 (113) | 25 1/2 (648) | 25 1/2 (648) | | | 5 (127) | | | | | | |
| | | 256T | | 46 1/2(1181) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 4 1/2 (113) | 25 1/2 (648) | | | 25 1/2 (648) | 5 (127) | | | | | |
| | | 284T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 4 1/2 (113) | 25 1/2 (648) | 25 1/2 (648) | | | 5 (127) | | | | | | |
| 324TS-326TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 5 Et | 6 | 213T-215T | 16 (406) | 46 1/2 (1181) | 15 (381) | 4 1/2 (116) | 25 (635) | 5 (127) | 5 1/2 (138) | 7 1/2 (202) | 16 (406) | 46 1/2(1181) | 15 (381) | 6 1/2 (164) | 25 (635) | 5 (127) | 5 1/2 (138) | 7 1/2 (202) | | | | | | | |
| | | 254T-256T | | 51 1/2(1314) | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 4 1/2 (113) | 25 1/2 (648) | 25 1/2 (648) | | | 5 (127) | | | | | | |
| | | 284T-286T | | 46 1/2(1181) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 4 1/2 (113) | 25 1/2 (648) | | | 25 1/2 (648) | 5 (127) | | | | | |
| | | 324T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 4 1/2 (113) | 25 1/2 (648) | 25 1/2 (648) | | | 5 (127) | | | | | | |
| 364TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 5 G† | | 254T-256T | 24 (610) | 56 (1422) | 16 1/2 (419) | 5 1/2 (138) | 29 1/2 (749) | 6 (152) | 6 (152) | 9 (229) | 24 (610) | 56 (1422) | 16 1/2 (419) | 5 1/2 (138) | 29 1/2 (749) | 6 (152) | 6 (152) | 9 (229) | | | | | | | |
| | | 284T-286T | | 56 (1422) | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 5 1/2 (138) | 29 1/2 (749) | 29 1/2 (749) | | | 6 (152) | | | | | | |
| | | 324T-326T | | 56 (1422) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 5 1/2 (138) | 29 1/2 (749) | | | 29 1/2 (749) | 6 (152) | | | | | |
| | | 364T-365T | | 56 (1422) | | | | | | | | | 16 1/2 (419) | 5 1/2 (138) | 29 1/2 (749) | 29 1/2 (749) | | | 6 (152) | | | | | | |
| 6 BC† | | 254T-256T | 16 (406) | 46 1/2(1181) | 15 (381) | 8 1/2 (213) | 25 1/2 (648) | 5 (127) | 7 (178) | 8 1/2 (210) | 16 (406) | 46 1/2(1181) | 15 (381) | 8 1/2 (213) | 25 1/2 (648) | 5 (127) | 7 (178) | 8 1/2 (210) | | | | | | | |
| | | 284T-286T | | 51 1/2(1314) | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | 27 1/2 (699) | | | 6 (152) | | | | | | |
| | | 324T-326T | | 51 1/2 (1314) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | | | 27 1/2 (699) | 6 (152) | | | | | |
| | | 364T-365T | | 51 1/2 (1314) | | | | | | | | | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | 27 1/2 (699) | | | 6 (152) | | | | | | |
| 404TS | 51 1/2 (1314) | 12(305) | 19 1/2(495) | 19 1/2(495) | 5 (127) | | | | | | | | | | | | | | | | | | | | |
| 6 E | | 284T-286T | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | 6 (152) | 6 1/2 (156) | 8 1/2 (216) | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | 6 (152) | 6 1/2 (156) | 8 1/2 (216) | | | | | | | |
| | | 324T-326T | | 56 (1422) | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | 27 1/2 (699) | | | 6 (152) | | | | | | |
| | | 364T | | 56 (1422) | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | | | 27 1/2 (699) | 6 (152) | | | | | |
| | | 404TS | | 56 (1422) | | | | | | | | | 16 1/2 (419) | 6 (152) | 27 1/2 (699) | 27 1/2 (699) | | | 6 (152) | | | | | | |
| 6 G†* | 8 | *L* FRAME – TO AND INCLUDING 12 1/2" IMPELLER | | | | | | | | | | | | | | | | | | | | | | | |
| | | 256T | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 1/2 (159) | 30 1/2 (775) | 6 (152) | 6 1/2 (165) | 9 1/2 (237) | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 1/2 (159) | 30 1/2 (775) | 6 (152) | 6 1/2 (165) | 9 1/2 (237) | | | | | | | |
| | | 284T-286T | | 56 (1422) | | | | | | | | | | | | | | | 16 (406) | 56 (1422) | 16 1/2 (419) | 6 1/2 (159) | 30 1/2 (775) | 30 1/2 (775) | 6 (152) |
| | | 324T-326T | | 56 (1422) | | | | | | | | | | | | | | | | 24 (610) | 56 (1422) | 16 1/2 (419) | 6 1/2 (159) | 30 1/2 (775) | 30 1/2 (775) |
| 364T-365T | 56 (1422) | 16 1/2 (419) | | 6 1/2 (159) | | | | | | | | | | | | | | | | | 30 1/2 (775) | 30 1/2 (775) | 6 (152) | | |
| 404TS | 56 (1422) | 16 1/2 (419) | 6 1/2 (159) | 30 1/2 (775) | 30 1/2 (775) | 6 (152) | | | | | | | | | | | | | | | | | | | |
| *XL* FRAME – 12 1/2" IMPELLER AND LARGER | | | | | | | | | | | | | | | | | | | | | | | | | |
| 365TS | 26 (660) | 59 1/4 (1505) | 17 (432) | 6 1/2 (165) | 31 (787) | 6 (152) | 6 1/2 (165) | 9 1/2 (237) | 26 (660) | 59 1/4 (1505) | 17 (432) | 6 1/2 (165) | 31 (787) | 6 (152) | 6 1/2 (165) | 9 1/2 (237) | | | | | | | | | |
| 404TS-405TS | | 59 1/4 (1505) | | | | | | | | | | | | | | | 17 (432) | 6 1/2 (165) | 31 (787) | 6 (152) | 6 1/2 (165) | 9 1/2 (237) | | | |

These dimensions are not to be used for installation purposes unless certified.
 *13 1/2" impeller for 1150 & 1450 RPM service with "L" frame.

†250 psi (17 bar) available

Maximum Working Pressure 175 psi (12 bar)

SERIES 1510

NOTES

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www.xyleminc.com/brands/bellgossett



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