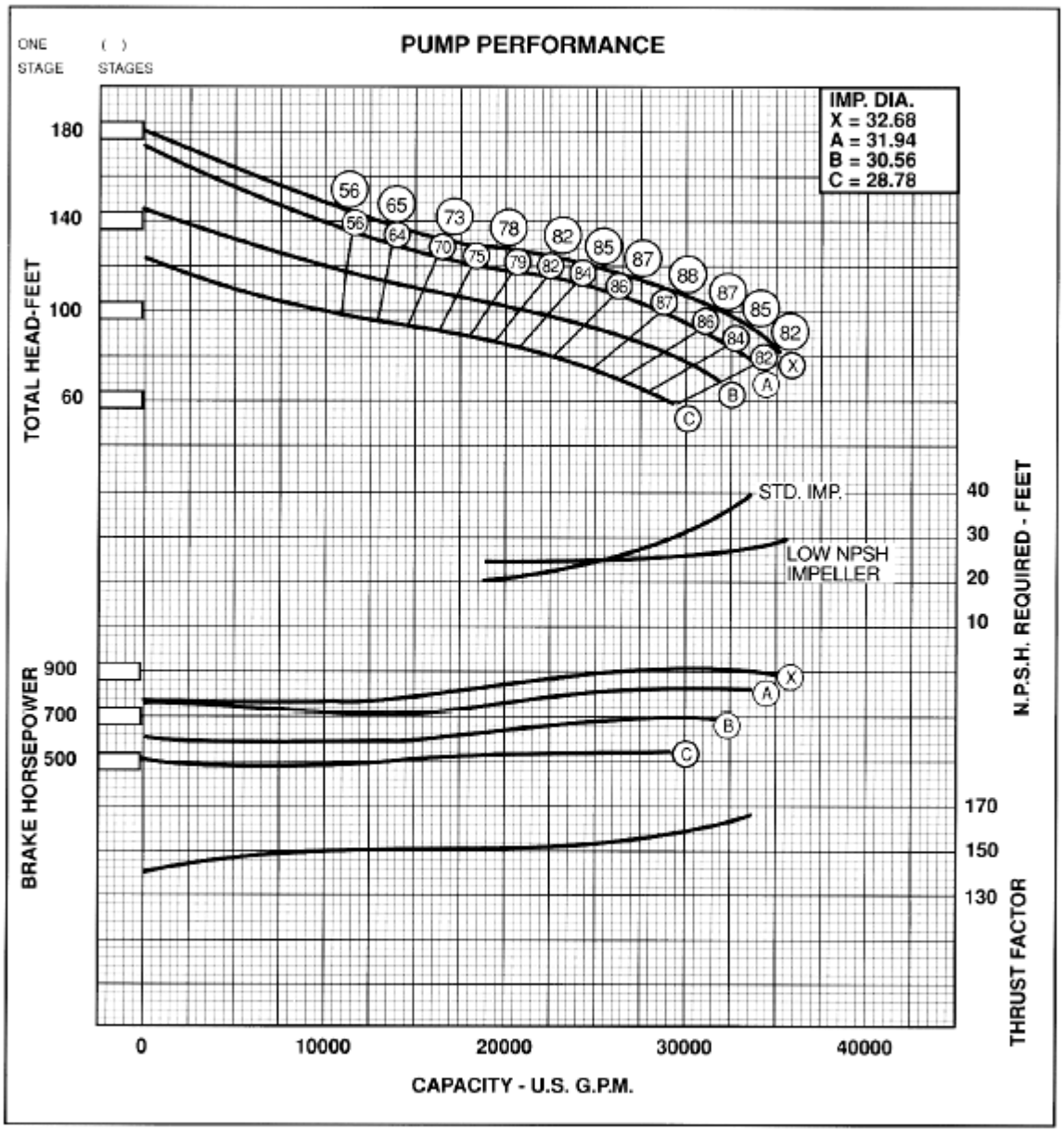
# CURVE data

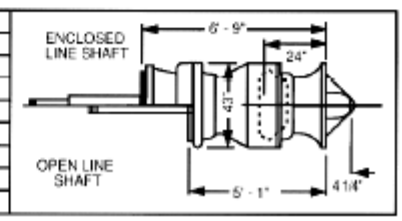
| No. Stages | Eff. Change | MATERIAL | Eff. Change |
|---|---|---|---|
| 1 | | IMP. – C.I. | |
| 2 | | IMP. – NI-RI | |
| 3 | | BOWL – BRZ. | |
| 4 | | BOWL – NI-R. | |

**44 GHC** **715** R.P.M.

SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 1 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 1 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.




| | | | |
|---|---|---|---|
| EYE AREA - SQ. IN. | = 378 | IMPELLER WT. - LBS. | = 707 |
| WR² PER IMPELLER LB.-FT.² | = 480 LB.-FT² | ONE STAGE WT. - LBS. | = 8411 |
| MAX. SPHERE SIZE | = — IN | ADD'L STAGE WT. - LBS. | = 4657 |
| MAX. NO. STD. STAGES | = 2 | IMPELLER NUMBER | = — |
| MAX. OPERATING - P.S.I. | = 350 | DISCH. - SIZES | = 30 |
| STD. LATERAL - IN. | = 1.50 IN | SUCTION - SIZES | = 43" BELL |
| STD. SHAFT DIA. - IN. | = 3.687 IN | INTERMEDIATE | = — IN |
| MAX. SHAFT DIA. - IN. | = — IN | BOWL CONN. FLANGED-KEYED | |
| MIN. SUBMERGENCE - IN. | = 43 IN | ADD 3' - 5" PER ADDITIONAL STAGE. | |




Curves reflect typical performance, refer to factory for certification.

CURVE NO.

| CHANGE EFFICIENCY AS FOLLOWS | NUMBER OF POINTS | FOR NUMBER OF STAGES |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

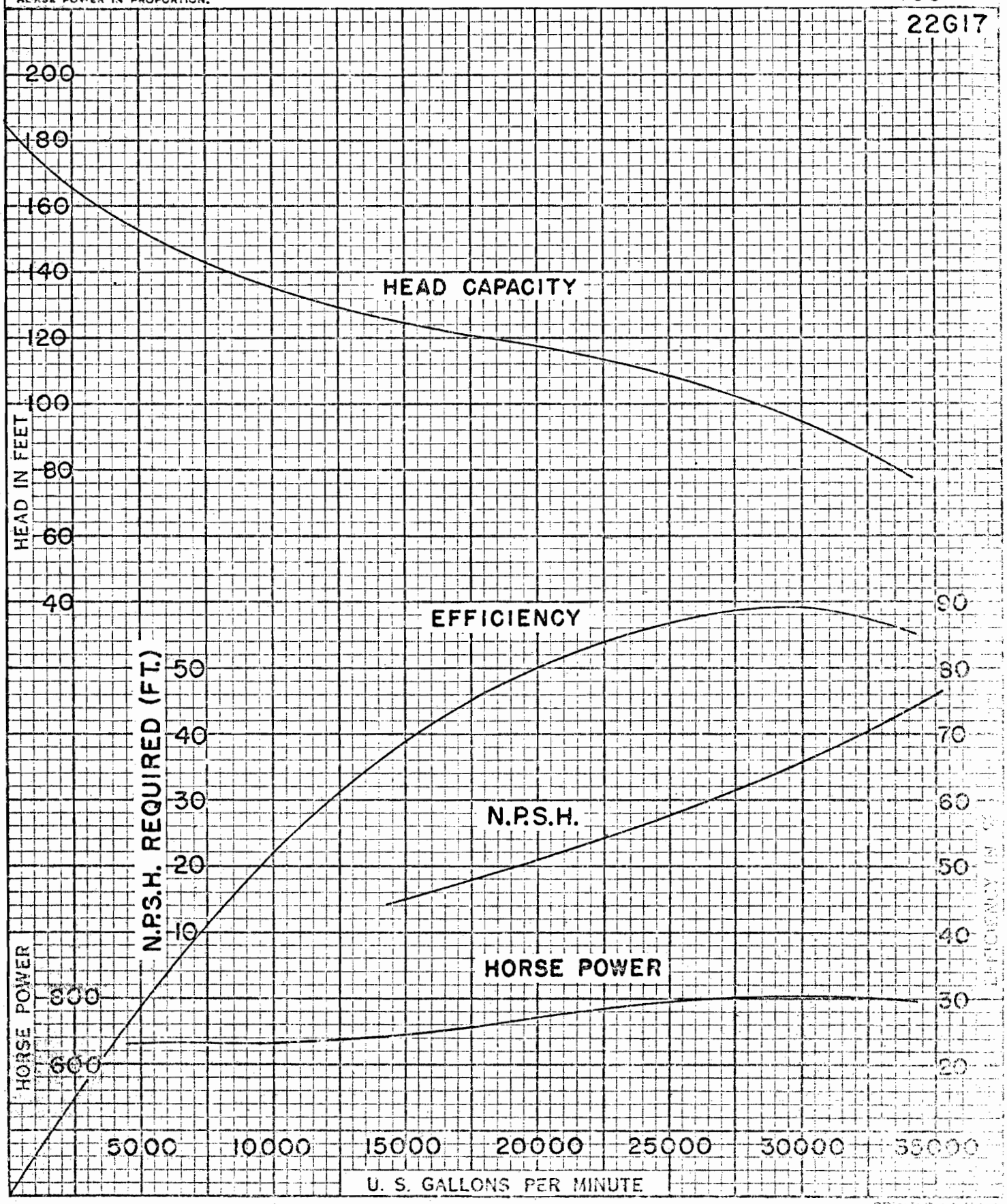
NOTE: ANY CHANGE IN EFFICIENCY CHANGES EITHER THE HEAD OR HORSE POWER IN PROPORTION.

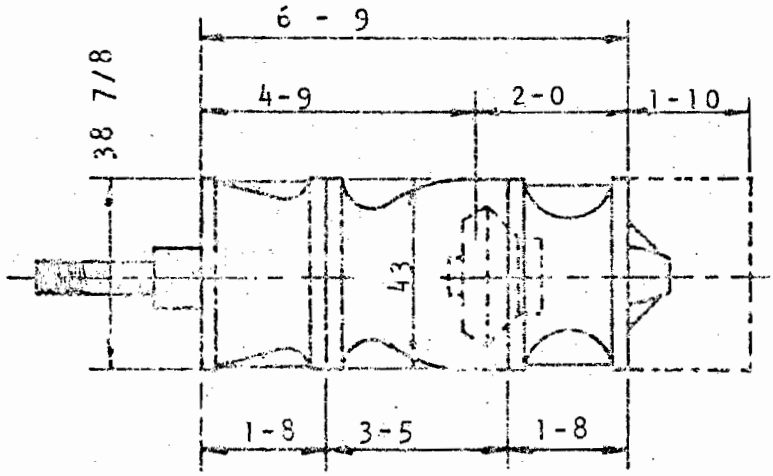
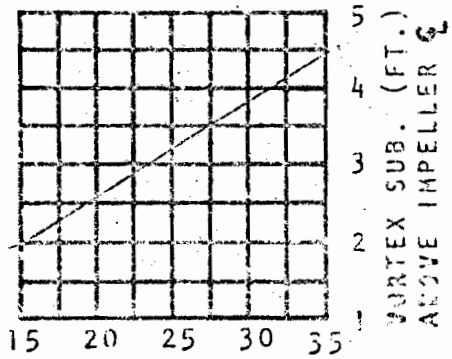
LAYNE & BOWLER, INC.
Memphis, Tenn.

44" GHC
710 RPM

SINGLE STAGE LABORATORY
HEAD & HORSE POWER
THRUST "K" = 160

22617



# 44"GHC - 710 RPM

| | |
|---|---|
| IMPELLER (PATTERN NO.) | 22G17 |
| INTERMEDIATE (PATTERN NO.) | 22G8 |
| SHAFT SIZE (INCHES) | 3 11/16 - 1918 HP |
| TUBE SIZE (INCHES) | 6 |
| STANDARD LATERAL (INCHES) | 1 1/2 |
| DISCHARGE CONNECTION (FLANGED)(INCHES) | 30 |
| SUCTION CONNECTION | BELL |
| IMPELLER FULL DIAMETER (INCHES) | 31 15/16 |
| IMPELLER EYE AREA (INCHES SQUARED) | 378 |
| IMPELLER EYE DIAMETER (INCHES) | 22 |
| IMPELLER WEIGHT (LB) | 707 |
| IMPELLER $WR^2$ (LB FT. SQUARED) | 480 |
| MAXIMUM DIAMERER SOLID (INCHES) | 3 3/4 |
| MAXIMUM WORKING PRESSURE (PSI) | 365 |
| MAXIMUM HYDROSTATIC PRESSURE(PSI) | 486 |
| MAXIMUM PRESSURE (STANDARD STUDS)(PSI) | 389 |
| MAXIMUM STAGES (BOWL PRESSURE) | 4 |
| MAXIMUM STAGES (SHAFT) | 2 |
| BOWL WEIGHT (ONE STAGE) (LB)(NET) | 8411 |
| BOWL WEIGHT (ADDITIONAL STAGES) (LB)(NET) | 4657 |