Rentzel Pump Manufacturing

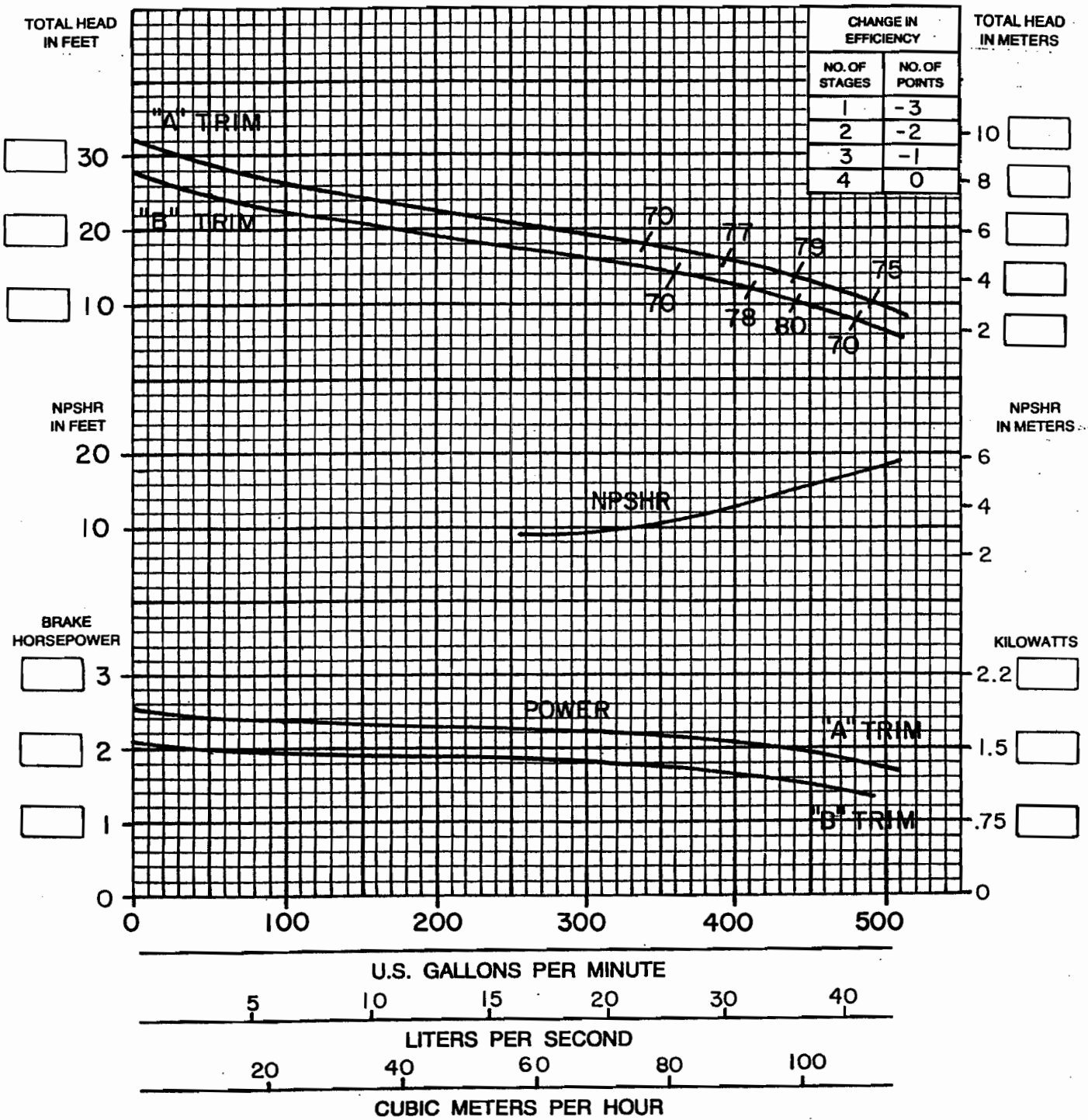
Section 5
Page 6.0
Curve No. 180808
Effective Oct., 1992
Supersedes June, 1992

# 1770 RPM
## SINGLE STAGE PERFORMANCE

# MODEL 8CCM
## STANDARD CONSTRUCTION

See reverse side for detailed information.

☐ STAGES REQUIRED




Pump hydraulic performance is based on handling cold clear, fresh nonaerated water, free of foreign materials.

Customer: _____

Item No.: _____

TDH _____ Bowl HP _____ Bowl Efficiency _____

# IMPELLER DATA

8CCM
1770

IMPELLER NO. 408-3-3022 . TYPE ENCLOSED . DIAMETER: A 6.19 ", 157.2 mm,

B 5.88 ", 149.4 mm,

EFFECTIVE EYE AREA 17.39 sq. inches, 11219.3 sq. mm. NUMBER OF VANES 5 .

THRUST CONSTANT K 7.52 lbs. / ft. 10.2 N / m of head. WEIGHT 5 lbs., 2.3 Kg.

$WR^2$ .599 lbs. / $ft^2$., 2.92 Kg / $m^2$.

EYE FLUID VELOCITY CK .018 ft. / sec. / GPM, .005 m / sec. / LPS.

PERIPHERAL VELOCITY 7.72 ft. / sec. / inch, 2.35 m / sec. / mm of impeller dia. Ns 3536.0

# BOWL DATA

BOWL NO. 408-3-2023 . CONNECTION TYPE BOLTED . NOMINAL DIAMETER (E) 7.50 ", 190.5 mm.

MINIMUM DIAMETER (E) 7.50 ", 190.5 mm.

COLUMN PIPE SIZE 6 ", 150 mm, STANDARD, 6 ", 150 mm, MAXIMUM

SUCTION PIPE SIZE 6 ", 150 mm, STANDARD, 6 ", 150 mm, MAXIMUM.

PUMP SHAFT DIAMETER 1.19 ", 30.2 mm, STANDARD 1.44 ", 36.6 mm MAXIMUM.

LATERAL .28 ", 7.11 mm, STANDARD, * ", * mm MAXIMUM.

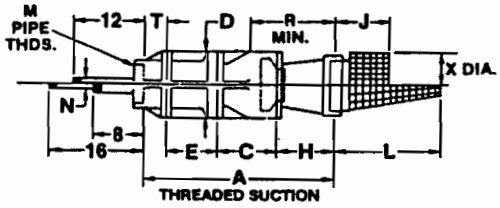
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.

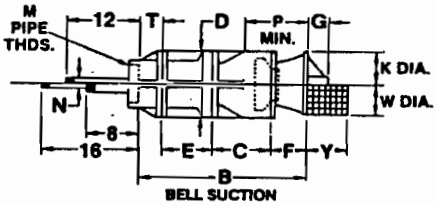
MAXIMUM NUMBER OF STAGES 20 (std. construction).

MAXIMUM HEAD 832 ft., 253.6 m (std. construction). MAXIMUM SPHERE SIZE .69 ", 17.5 mm.

PROJECTIONS ABOVE COLUMN PIPE BUTT: **TUBE** 8",203.2 mm; **SHAFT** 16",406.4 mm. FOR ENCLOSED LINESHAFT. 12",304.8mm. FOR OPEN LINESHAFT.

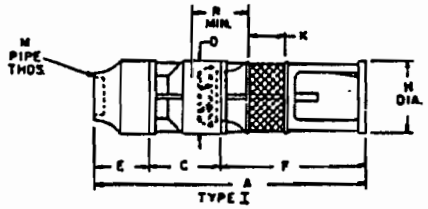
* REFER TO FACTORY.

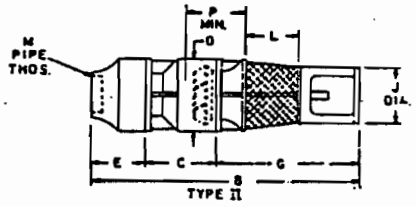



## STANDARD DIMENSIONS

| | A | B | C | D | E | F | G | H | J | K | L | M | N | P | R | T | W | X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IN. | 25 1/4 | 20 1/8 | 7 1/2 | 7 1/2 | 8 3/4 | 3 7/8 | 3 1/4 | 9 | 9 | 7 3/4 | 16 1/4 | 6 | 1 3/16 | 11 5/8 | 12 3/4 | — | 8 1/4 | 10 | 5 |
| MM. | 641.4 | 511.1 | 190.5 | 190.5 | 222.3 | 98.4 | 82.6 | 228.6 | 228.6 | 196.9 | 412.8 | 152.4 | 30.2 | 295.3 | 323.9 | — | 209.6 | 254.0 | 127.0 |




## STANDARD DIMENSIONS

| | A | B | C | D | E | F | G | H | J | K | L | M | P | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IN. | 30 1/4 | 26 3/4 | 7 1/2 | 7 1/2 | 8 3/4 | 14 | 10 1/2 | 9 | 5 3/8 | 12 | 6 1/4 | 6 | 11 5/8 | 12 3/4 |
| MM. | 768.4 | 679.5 | 190.5 | 190.5 | 222.3 | 355.6 | 266.7 | 228.6 | 136.6 | 304.8 | 158.8 | 152.4 | 295.2 | 323.9 |

WEIGHT: SINGLE STAGE 140 lbs., 63.6 Kgs. ADDITIONAL STAGE 50 lbs., 22.7 Kgs.