Rentzel Pump Manufacturing

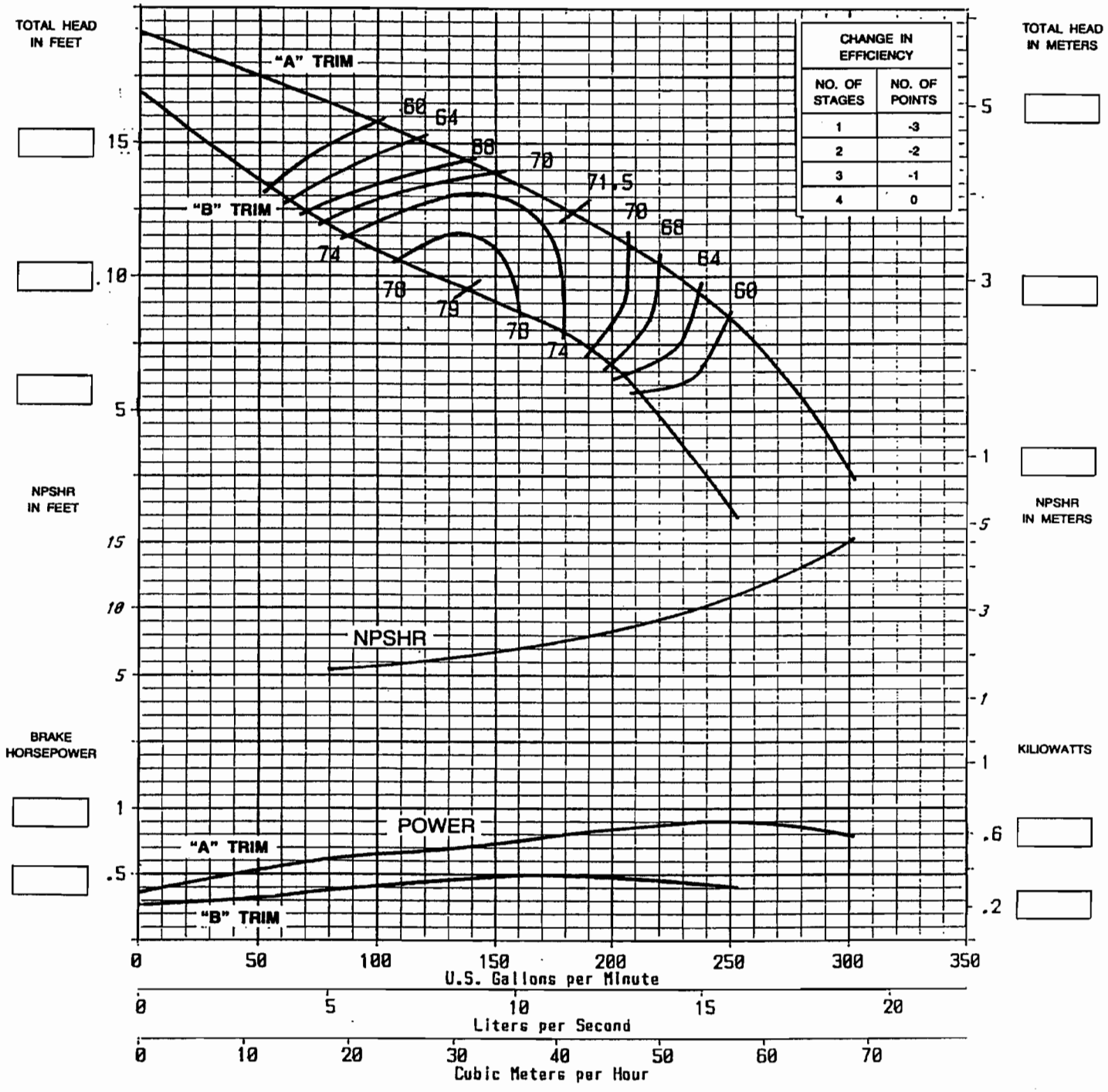
Section 5
Page 3.1
Curve No. 180608
Effective September 1984
Supersedes

1770 RPM
SINGLE STAGE PERFORMANCE

[ ] STAGES REQUIRED

MODEL 6CCH
ENCLOSED IMPELLER
STANDARD CONSTRUCTION

See reverse side for detailed information.



CHANGE IN EFFICIENCY	
NO. OF STAGES	NO. OF POINTS
1	-3
2	-2
3	-1
4	0

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

Customer: _____

Item No.: _____

Capacity: _____ TDH _____ Bowl HP _____ Bowl Efficiency _____

6 CCH
1770

IMPELLER DATA

IMPELLER NO. 406-3-3009 . TYPE Enclosed . DIAMETER: A 4.62 ", 117.5 mm,

B 4.03 ", 102.4 mm

EFFECTIVE EYE AREA 5.67 sq. inches, 3658 sq. mm. NUMBER OF VANES 7 .

THRUST CONSTANT K 1.2 lbs. / ft. 17.5 N / m of head. WEIGHT 2.25 lbs., 1.02 Kg.

WR^2 .081 lbs. / ft^2., .395 Kg / m^2.

EYE FLUID VELOCITY CK .057 ft. / sec. / GPM, .273 m / sec. / LPS.

PERIPHERAL VELOCITY 7.73 ft. / sec. / inch, .093 m / sec. / mm of impeller dia. Ns 3667

BOWL DATA

BOWL NO. 406-3-2004 . CONNECTION TYPE Threaded . NOMINAL DIAMETER (E) 5½ ", 139.7 mm.

MINIMUM DIAMETER (E) 5 7/16 ", 138.1 mm.

COLUMN PIPE SIZE 4 ", 101.6 mm, STANDARD, 4 ", 101.6 mm, MAXIMUM

SUCTION PIPE SIZE 4 ", 101.6 mm, STANDARD, 4 ", 101.6 mm, MAXIMUM.

PUMP SHAFT DIAMETER 1.0 ", 25.4 mm, STANDARD 1¼ ", 31.8 mm MAXIMUM.

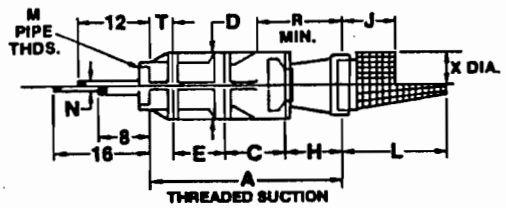
LATERAL 15/32 ", 11.9 mm, STANDARD, _____ ", _____ mm MAXIMUM.

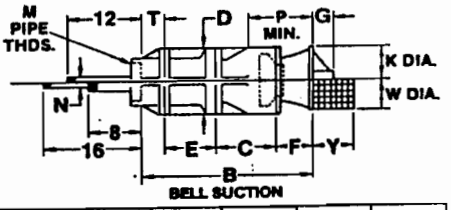
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.

MAXIMUM NUMBER OF STAGES 20 (std. construction).

MAXIMUM HEAD 1155 ft., 352 m (std. construction). MAXIMUM SPHERE SIZE 1 ", 25.4 mm.

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





STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	W	X	Y
IN.	17 9/16	15 1/16	5 9/16	5½	6½	3	3¼	5½	7	5¾	12¾	4	1	12	14½	3½	6¼	8	5¼
MM.	446.1	382.6	141.3	139.7	165.1	76.2	82.8	139.7	177.8	146.1	323.9	101.6	25.4	304.8	368.3	88.9	158.8	203.2	133.4

WEIGHT: SINGLE STAGE 58 LBS., 26.3 KGS. ADDITIONAL STAGE 17½ LBS., 7.9 KGS.