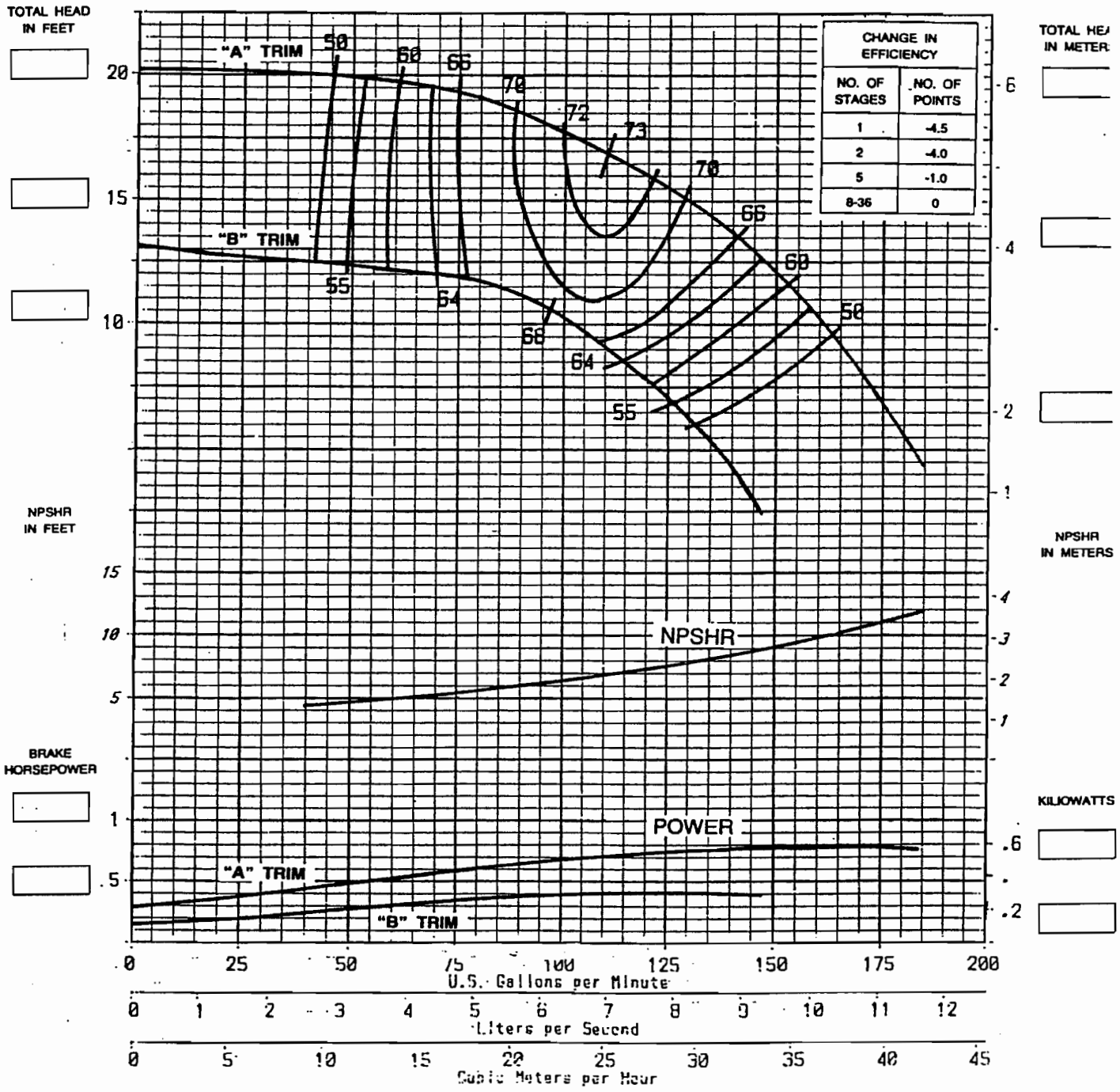
Rentzel Pump Manufacturing

1770 RPM
SINGLE STAGE PERFORMANCE

[ ] STAGES REQUIRED

MODEL 6BCH
ENCLOSED IMPELLER
STANDARD CONSTRUCTION

See reverse side for detailed information.



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 _____

IMPELLER DATA

6 BCH
1770

IMPELLER NO. 406-3-3004 . TYPE Enclosed . DIAMETER: A 4.50 ", 114.3 mm,

B 3.83 ", 97.3 mm

EFFECTIVE EYE AREA 4.27 sq. inches, 2755 sq. mm. NUMBER OF VANES 6 .

THRUST CONSTANT-K 1.5 lbs. / ft. 21.9 N / m of head. WEIGHT 2.10 lbs., .953 Kg.

WR^2 .050 lbs. / ft^2., .244 Kg / m^2.

EYE FLUID VELOCITY CK .075 ft. / sec. / GPM, .363 m / sec. / LPS.

PERIPHERAL VELOCITY 7.73 ft. / sec. / inch, .093 m / sec. / mm of impeller dia. Ns 2139

BOWL DATA

BOWL NO. 406-3-2001 . CONNECTION TYPE Threaded . NOMINAL DIAMETER (E) 5 1/16 ", 144.46 mm.

MINIMUM DIAMETER (E) 5 1/16 ", 144.46 mm.

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

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

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

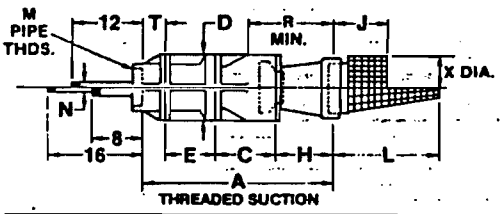
LATERAL 0.125 ", 3.175 mm, STANDARD, ", mm MAXIMUM.

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

MAXIMUM NUMBER OF STAGES 36 (std. construction).

MAXIMUM HEAD 1337 ft., 408 m (std. construction). MAXIMUM SPHERE SIZE 3/8 ", 9.5 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.	20 15/16	—	4 15/16	5 1/16	9 3/16	—	—	7 1/2	7	—	12 1/4	4	1	—	8 1/2	3 3/8	—	8	—
MM.	531.8	—	115.9	144.5	233.4	—	—	190.5	177.8	—	323.8	101.6	25.4	—	215.9	92.1	—	203.2	—

WEIGHT: SINGLE STAGE 65 LBS., 29.4 KGS. ADDITIONAL STAGE 22 LBS., 9.97 KGS.