Rentzel Pump Manufacturing

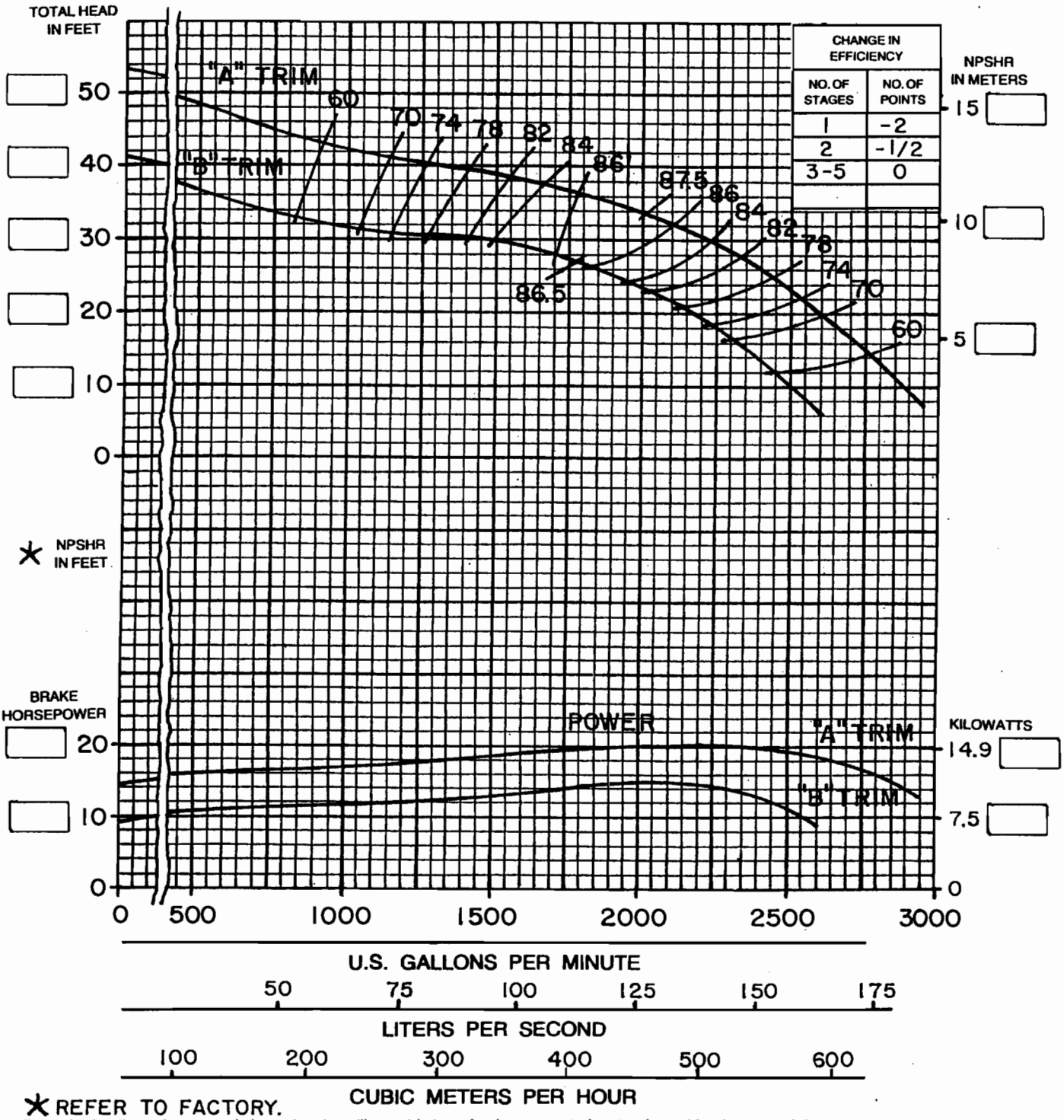
Section 7
Page 30
Curve No. 091830
Effective March 1992
Supersedes

870 RPM
SINGLE STAGE PERFORMANCE

MODEL 18ACL
STANDARD CONSTRUCTION

See reverse side for detailed information.

[ ] STAGES REQUIRED



* REFER TO FACTORY.

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 _____

18ACL
870

IMPELLER DATA

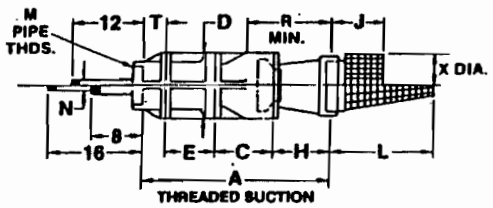
IMPELLER NO. 418-3-0004 . TYPE ENCLOSED . DIAMETER: A 13.86 ", 351.9 mm,
B 12.86 ", 326.5 mm, C _____ ", _____ mm,
EFFECTIVE EYE AREA 56.03 sq. inches, 36148 sq. mm. NUMBER OF VANES 7 .
THRUST CONSTANT K 28.0 lbs. / ft. 408.8 N / m of head. WEIGHT 48 lbs., 21.82 Kg.
WR^2 10.32 lbs. / ft^2., 50.39 Kg / m^2.
EYE FLUID VELOCITY CK .006 ft. / sec. / GPM, .029 m / sec. / LPS.
PERIPHERAL VELOCITY 3.80 ft. / sec. / inch, 1.15 m / sec. / mm of impeller dia. Ns 1540.7

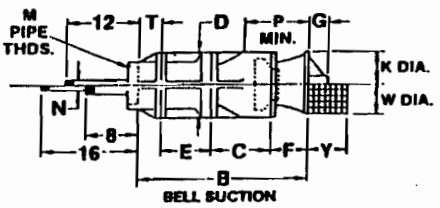
BOWL DATA

BOWL NO. 418-3-2001 . CONNECTION TYPE BOLTED . NOMINAL DIAMETER (E) 17.56 ", 446.1 mm.
MINIMUM DIAMETER (E) * ", * mm.
COLUMN PIPE SIZE 14 ", 355.6 mm, STANDARD, 10 ", 254.0 mm, MAXIMUM

SUCTION PIPE SIZE 14 ", 355.6 mm, STANDARD, 14 ", 355.6 mm, MAXIMUM.
PUMP SHAFT DIAMETER 2.19 ", 55.56 mm, STANDARD * ", * mm MAXIMUM.
LATERAL .62 ", 15.88 mm, STANDARD, * ", * mm MAXIMUM.
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.
MAXIMUM NUMBER OF STAGES 5 (std. construction).
MAXIMUM HEAD 708 ft., 215.9 m (std. construction). MAXIMUM SPHERE SIZE 1.12 ", 28.6 mm.
PROJECTIONS ABOVE COLUMN PIPE BUTT: **TUBE** 8",203.2 mm; **SHAFT** 16",406.4 mm. FOR ENCLOSED LINESHAFT. 12",302.8mm. FOR OPEN LINESHAFT.
* REFER TO FACTORY.

WEIGHT: SINGLE STAGE 690 lbs., 313.3 Kgs. ADDITIONAL STAGE 280 lbs., 127.1 Kgs.





STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	W	X	Y
IN.	31 1/4	31	12 1/2	17 9/16	7 1/8	7 3/4	4 3/4	7 7/8	16	17 9/16	41 7/8	14	2 3/16	10 7/8	8 1/2	3 5/8	18 3/16	20	10
MM.	793.6	787.4	317.5	446.0	180.9	196.9	120.7	200.2	406.4	446.0	1063.8	355.6	55.6	276.4	215.9	92.0	462.0	508.0	254.0