Rentzel Pump Manufacturing

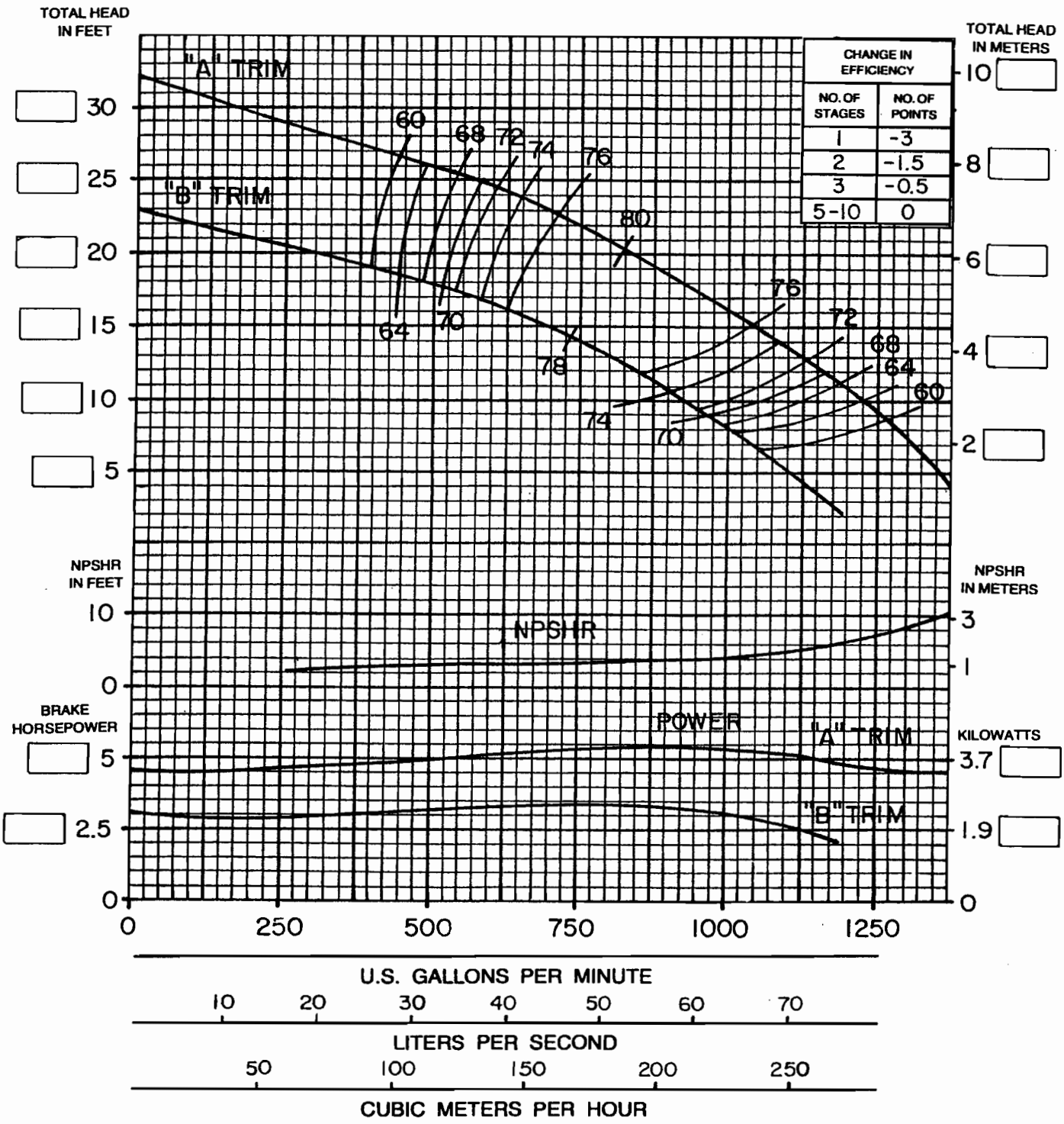
Section 7
Page 18
Curve No. 091518
Effective February 1992
Supersedes

870 RPM
SINGLE STAGE PERFORMANCE

MODEL 15BCL
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.: _____

Capacity: _____ TDH _____ Bowl HP _____ Bowl Efficiency _____

15BCL
870

IMPELLER DATA

IMPELLER NO. 415-3-3001 . TYPE ENCLOSED . DIAMETER: A 11.50 ", 292.1 mm,

B 10.38 ", 263.5 mm, C _____ ", _____ mm,

EFFECTIVE EYE AREA 35.6 sq. inches, 22968 sq. mm. NUMBER OF VANES 4 .

THRUST CONSTANT K 19.6 lbs. / ft. 286.2 N / m of head. WEIGHT 30.3 lbs., 13.8 Kg.

WR^2 4.15 lbs. / ft^2., 20.26 Kg / m^2.

EYE FLUID VELOCITY CK .009 ft. / sec. / GPM, .043 m / sec. / LPS.

PERIPHERAL VELOCITY 3.80 ft. / sec. / inch, 1.15 m / sec. / mm of impeller dia. Ns 1663.8

BOWL DATA

BOWL NO. 415-3-2001 . CONNECTION TYPE BOLTED . NOMINAL DIAMETER (E) 14.38 ", 365.1 mm.

MINIMUM DIAMETER (E) 14.38 ", 365.1 mm.

COLUMN PIPE SIZE 10 ", 254.0 mm, STANDARD, 12 ", 365.1 mm, MAXIMUM

SUCTION PIPE SIZE 10 ", 254.0 mm, STANDARD, 12 ", 365.1 mm, MAXIMUM.

PUMP SHAFT DIAMETER 1.94 ", 49.2 mm, STANDARD 2.19 ", 55.6 mm MAXIMUM.

LATERAL 1.12 ", 28.6 mm, STANDARD, * ", * mm MAXIMUM.

SHAFT BEARING CLEARANCE 0.10 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.

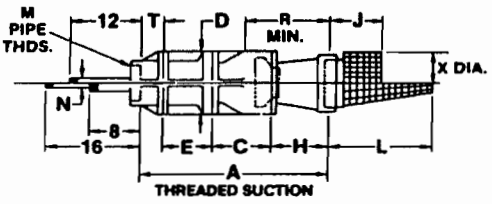
MAXIMUM NUMBER OF STAGES 10 (std. construction).

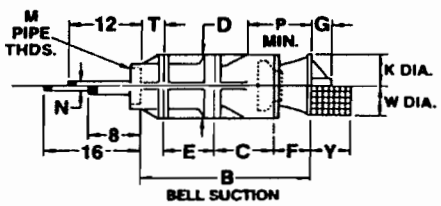
MAXIMUM HEAD 646 ft., 196.9 m (std. construction). MAXIMUM SPHERE SIZE 1.62 ", 41.2 mm.

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

*REFER TO FACTORY.

WEIGHT: SINGLE STAGE 613 lbs., 278.3 Kgs. ADDITIONAL STAGE 189 lbs., 85.8 Kgs.





STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	W	X	Y
IN.	30 3/4	30 7/8	14 1/4	14 3/8	5 3/8	7 5/8	4 3/4	7 1/2	10	14 1/8	31 3/8	10	1 15/16	*	*	3 5/8	14 5/8	18	10
MM.	781.0	784.2	361.9	365.1	136.6	193.7	120.7	190.5	254.0	358.7	796.9	254.0	49.2			92.0	371.5	457.2	254.0