Rentzel Pump Manufacturing

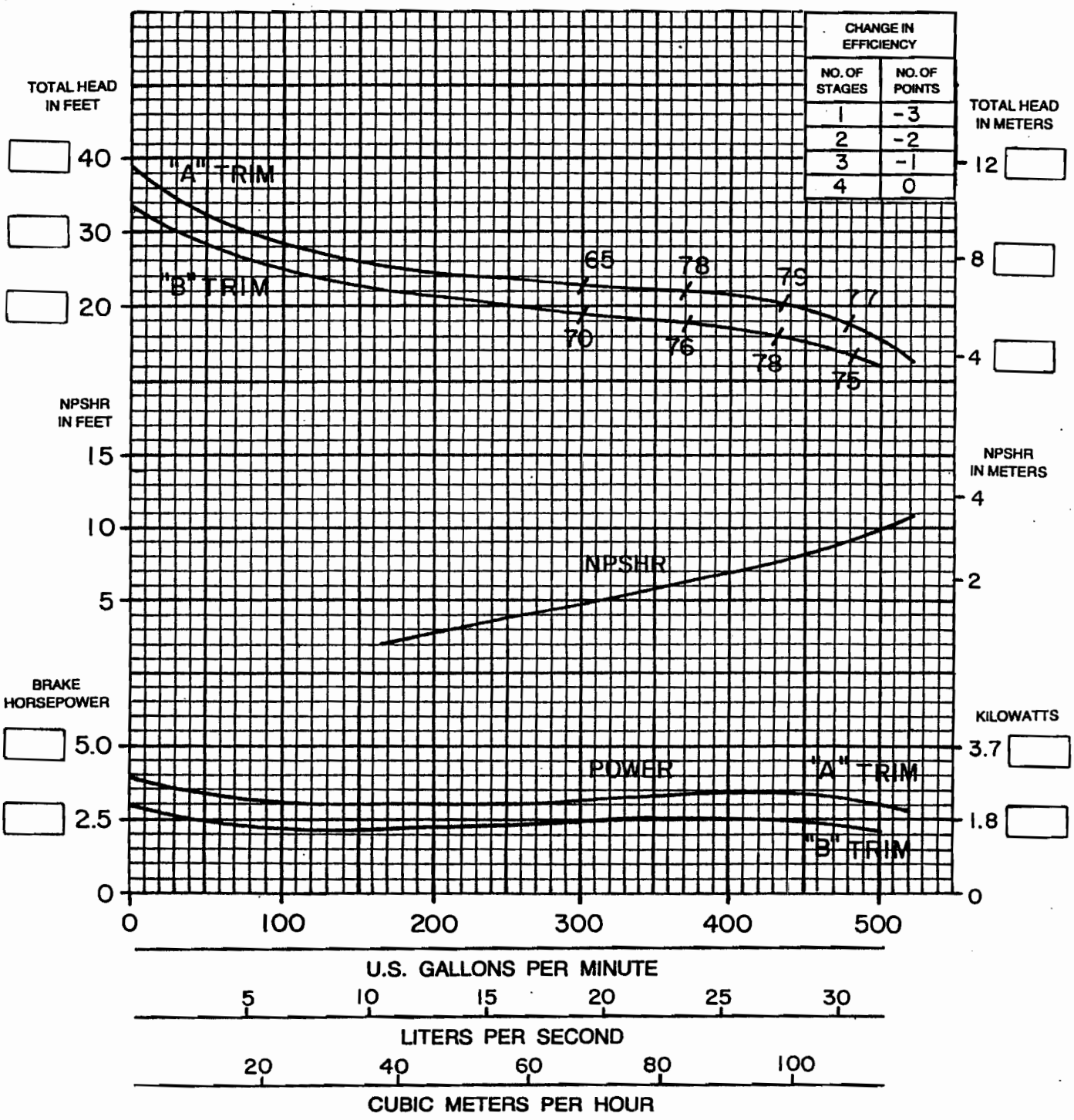
Section 5
Page 6.1
Curve No. 180809
Effective Oct., 1992
Supersedes June, 1992

1770 RPM
SINGLE STAGE PERFORMANCE

MODEL 8CCH
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

8CCH
1770

IMPELLER NO. 408-3-3025 . 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 6 .

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 2461.1

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.

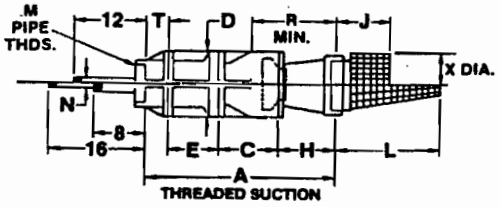
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.

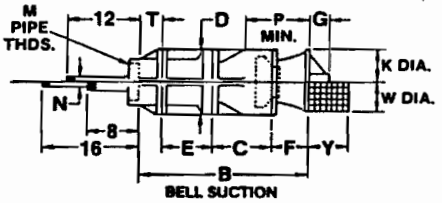
MAXIMUM NUMBER OF STAGES 20 (std. construction).

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

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

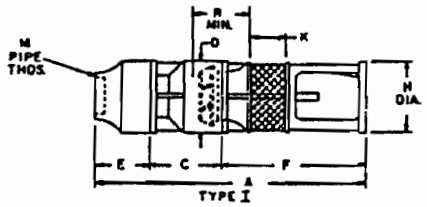
* REFER TO FACTORY.

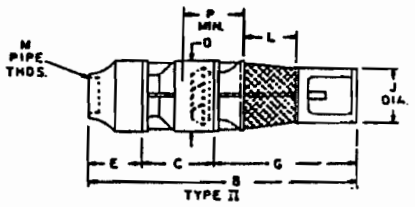




STANDARD DIMENSIONS

	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	288.6	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/
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.

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