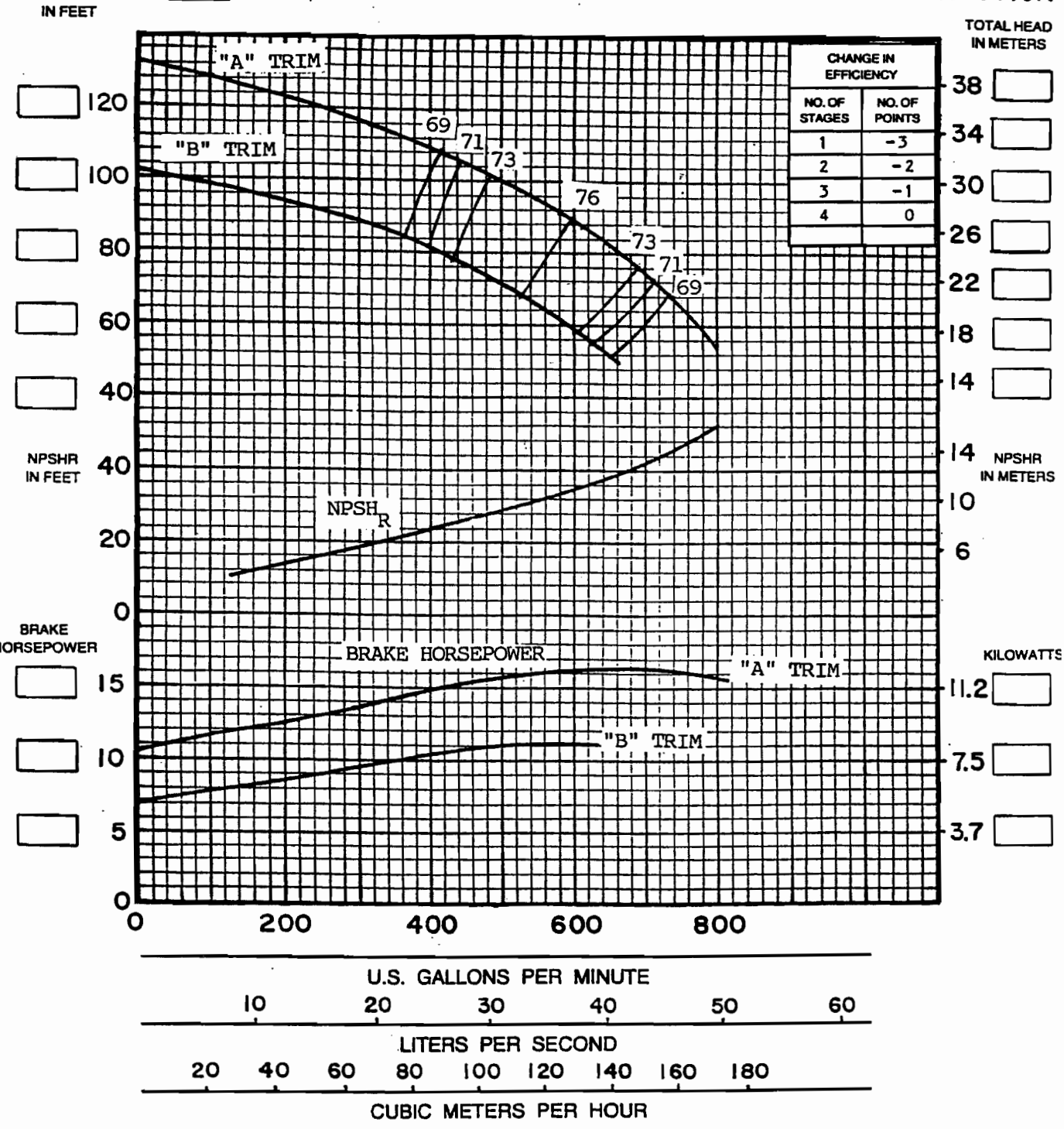
Rentzel Pump Manufacturing

3500 RPM SINGLE STAGE PERFORMANCE

MODEL 8BCAM ENCLOSED IMPELLER STANDARD CONSTRUCTION

☐ 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 _____

IMPELLER DATA

8 BCAM
3500

IMPELLER NO. 408-3-3006 . TYPE Closed . DIAMETER: A 5.950 ", 151.13 mm,

B 5.45 ", 131.45 mm

EFFECTIVE EYE AREA 11.79 sq. inches, 7606.4 sq. mm. NUMBER OF VANES 6 .

THRUST CONSTANT K 4.57 lbs. / ft. 6.2 N / m of head. WEIGHT 4 lbs., 1.81 Kg.

WR^2 _____ lbs. ft^2., _____ Kg / m^2.

EYE FLUID VELOCITY CK .027 ft. / sec. / GPM, .008 m / sec. / LPS.

PERIPHERAL VELOCITY 15.3 ft. / sec. / inch, .184 m / sec. / mm of impeller dia. Ns 1264.8

BOWL DATA

BOWL NO. 408-3-2020 . CONNECTION TYPE Flanged . NOMINAL DIAMETER (E) 7.5 ", 190.5 mm.

MINIMUM DIAMETER (E) 7.5 ", 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 1.25", 31.75 mm MAXIMUM.

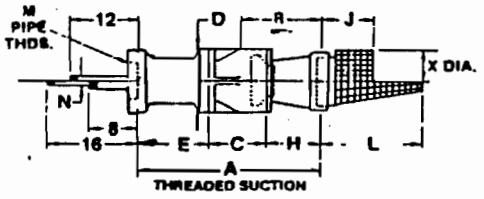
LATERAL .469 ", 11.91 mm

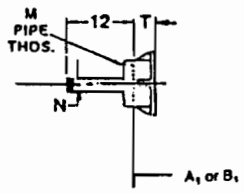
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.

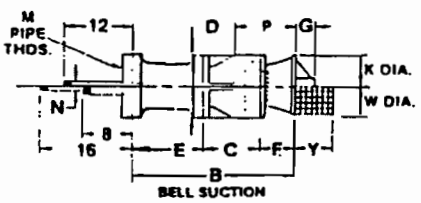
MAXIMUM NUMBER OF STAGES 6 (std. construction).

MAXIMUM HEAD 687 ft., 209.4 m (std. construction). MAXIMUM SPHERE SIZE .56 , 14.2 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.

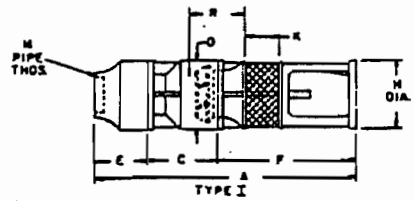


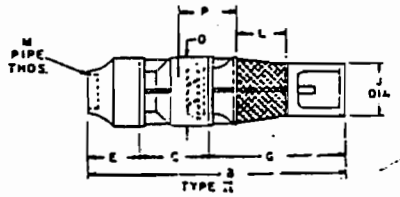




STANDARD DIMENSIONS

	A	A_1	B	B_1	C	D	E	F	G	H	J	K	L	M	N	P	R	T	W	X	Y
IN.	25	18	19 7/8	12 7/8	6	7 1/2	10	3 7/8	3	9	8	7 3/4	16 1/4	6	1 3/16	5 3/8	11 9/16	3	8 1/4	10	5
MM.	635	457.2	505.0	327.2	154.2	190.5	254	98.55	76.2	228.6	203.2	196.9	412.8	152.4	30.2	136.7	294.4	76.2	209.6	254	127





STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	P	R
IN.	23	19 1/2	6	7 7/8	3	14	10 1/2	7 1/2	5 3/8	12	6 1/4	6	2 1/4	2 3/8
MM.	584.2	495.3	152.4	200	76.2	355.6	266.7	190.5	136.65	304.8	158.75	152.4	57.15	60.45