Rentzel Pump Manufacturing

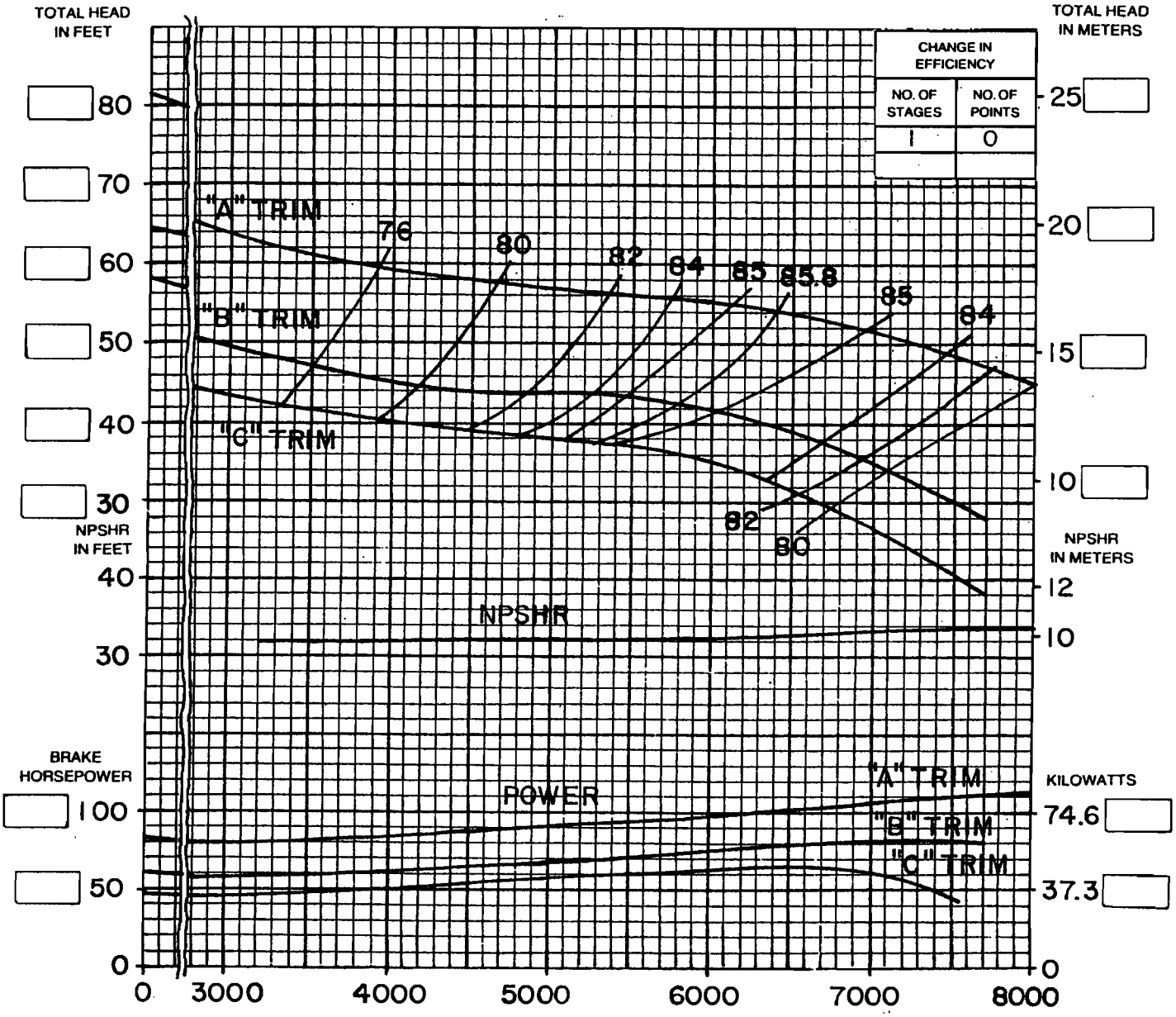
Section 7
Page 38
Curve No. 092438
Effective December 1991
Supersedes

870 RPM
SINGLE STAGE PERFORMANCE

MODEL 24BCH
STANDARD CONSTRUCTION

See reverse side for detailed information.

[ ] STAGES REQUIRED



U.S. GALLONS PER MINUTE

200 300 400

LITERS PER SECOND

700 900 1100 1300 1500 1700

CUBIC METERS PER HOUR

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 _____

24BCH
870

IMPELLER DATA

IMPELLER NO. 424-3-3000 . TYPE ENGLOSED . DIAMETER: A 18.88 ", 479.6 mm,
B 16.38 ", 416.05 mm, C 15.75 ", 400.05 mm,
EFFECTIVE EYE AREA 125.04 sq. inches, 80670.8 sq. mm. NUMBER OF VANES 6 .
THRUST CONSTANT K 54.25 lbs. / ft. 792.05 N / m of head. WEIGHT 108 lbs., 48.99 Kg.
WR^2 * lbs. / ft^2., * Kg / m^2.
EYE FLUID VELOCITY CK .307 ft. / sec. / GPM, .094 m / sec. / LPS.
PERIPHERAL VELOCITY 3.80 ft. / sec. / inch, 1.15 m / sec. / mm of impeller dia. Ns 1719

BOWL DATA

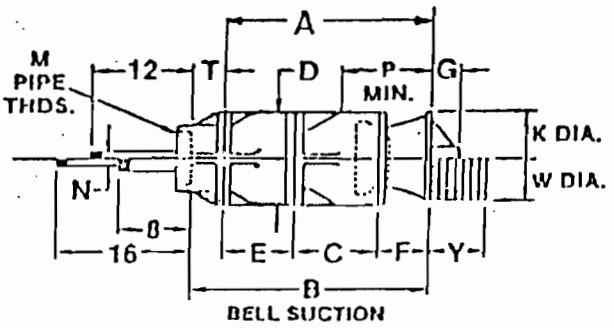
BOWL NO. 424-3-2000. CONNECTION TYPE BOLTED . NOMINAL DIAMETER (E) 21.75 ", 552.5 mm.
MINIMUM DIAMETER (E) 21.75 ", 552.5 mm.
COLUMN PIPE SIZE 16 ", 406.4 mm, STANDARD, * ", * mm, MAXIMUM

SUCTION PIPE SIZE N/A ", N/A mm, STANDARD, N/A ", N/A mm, MAXIMUM.
PUMP SHAFT DIAMETER 2.19 ", 55.63 mm, STANDARD 2.44 ", 62.0 mm MAXIMUM.
LATERAL 1.03 ", 26.2 mm, STANDARD, * ", * mm MAXIMUM.
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.
MAXIMUM NUMBER OF STAGES 8 (std. construction).
MAXIMUM HEAD 460 ft., 140.2 m (std. construction). MAXIMUM SPHERE SIZE 2.75 ", 69.85 mm.
PROJECTIONS ABOVE COLUMN PIPE BUTT: **TUBE** 8",203.2 mm; **SHAFT** 16",406.4mm. FOR ENCLOSED LINESHAFT. 12",304.8mm. FOR OPEN LINESHAFT.

*REFER TO FACTORY.
WEIGHT: SINGLE STAGE 999 lbs., 453.14 Kgs. ADDITIONAL STAGE 500 lbs., 226.8 Kgs.

One stage pump
column adaptor

One stage pump
column adaptor



STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	W	X	Y
	53 1/4	53 5/16	23 1/4	21 3/4	19	11	7/8	N/A	N/A	24	N/A	16	2 3/16	15 3/8	N/A	1/16	25 1/4	N/A	12
MM	1352.6	1354.1	599.6	552.5	482.6	279.4	22.2	—	—	609.6	—	406.4	55.6	390.7	—	1.6	641.4	—	304.8