

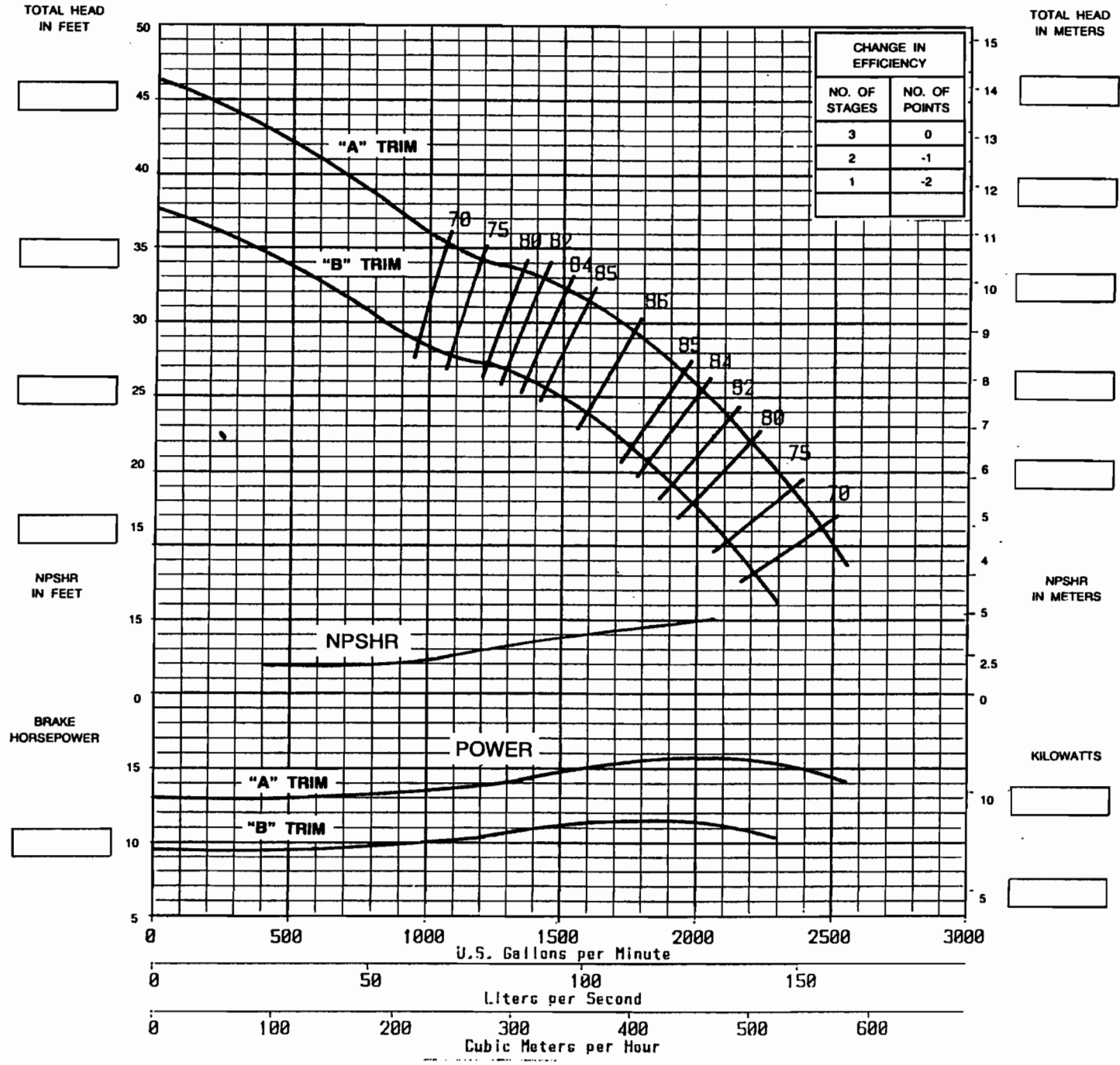


Section 6
Page 22.3
Curve No. 121404
Effective September 1989
Supersedes New

1180 RPM
SINGLE STAGE PERFORMANCE

MODEL 14BCHH
(Formerly Berkeley 1403HH)
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 _____

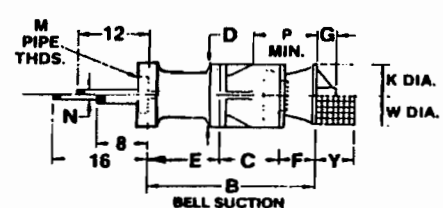
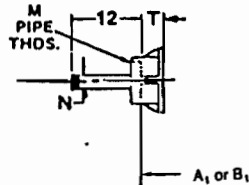
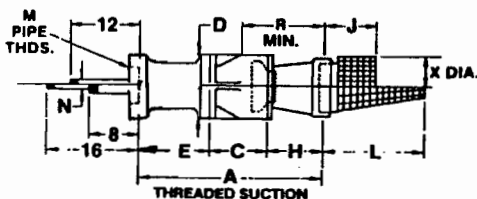
IMPELLER DATA

14 BCHH
1180

IMPELLER NO. 414-3-3023 . TYPE Enclosed . DIAMETER: A 10 $\frac{7}{8}$ ", 276.2 mm,
B 9 $\frac{7}{8}$ ", 250.8 mm, C 8 $\frac{7}{8}$ ", 225.4 mm,
EFFECTIVE EYE AREA 44.04 sq. inches, 28416 sq. mm. NUMBER OF VANES 6 .
THRUST CONSTANT K 19.15 lbs. / ft. 279.6 N / m of head. WEIGHT 20.5 lbs., 9.16 Kg.
WR² 1.551 lbs. / ft²., 7.57 Kg / m².
EYE FLUID VELOCITY CK .007 ft. / sec. / GPM, .035 m / sec. / LPS.
PERIPHERAL VELOCITY 5.07 ft. / sec. / inch, .061 m / sec. / mm of impeller dia. Ns 4000

BOWL DATA

BOWL NO. 414-3-2001 . CONNECTION TYPE Bolted . NOMINAL DIAMETER (E) 13 $\frac{3}{8}$ ", 339.7 mm.
MINIMUM DIAMETER (E) 13 $\frac{3}{8}$ ", 339.7 mm.
COLUMN PIPE SIZE 10 ", 254.0 mm, STANDARD, 12 ", 304.8 mm, MAXIMUM
SUCTION PIPE SIZE 10 ", 254.0 mm, STANDARD, 12 ", 304.8 mm, MAXIMUM.
PUMP SHAFT DIAMETER 1 $\frac{15}{16}$ ", 49.2 mm, STANDARD 2 $\frac{3}{16}$ ", 55.6 mm MAXIMUM.
LATERAL .75 ", 19.1 mm, STANDARD, .875 ", 22.2 mm MAXIMUM.
AFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.
MAXIMUM NUMBER OF STAGES 6 (std. construction).
MAXIMUM HEAD 636 ft., 193.9 m (std. construction). MAXIMUM SPHERE SIZE 1 $\frac{1}{2}$ ", 38.1 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.
WEIGHT: SINGLE STAGE 433 lbs., 196.0 Kgs. ADDITIONAL STAGE 128 lbs., 58.1 Kgs.



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.	34 $\frac{1}{4}$	26 $\frac{7}{8}$	31 $\frac{3}{8}$	24	12 $\frac{1}{2}$	13 $\frac{3}{8}$	11 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	10 $\frac{1}{2}$	16	14 $\frac{1}{8}$	31 $\frac{1}{2}$	12	1 $\frac{15}{16}$	32	36	4	14 $\frac{1}{8}$	18	10
MM.	870.0	682.6	796.2	609.6	314.3	339.7	288.9	196.7	120.7	266.7	406.4	358.8	796.9	304.8	49.2	812.8	914.4	101.6	365.1	457.2	254.0