



1770 RPM
SINGLE STAGE PERFORMANCE

MODEL 14BCH
STANDARD CONSTRUCTION

See reverse side for detailed information.

☐ STAGES REQUIRED

TOTAL HEAD
IN FEET

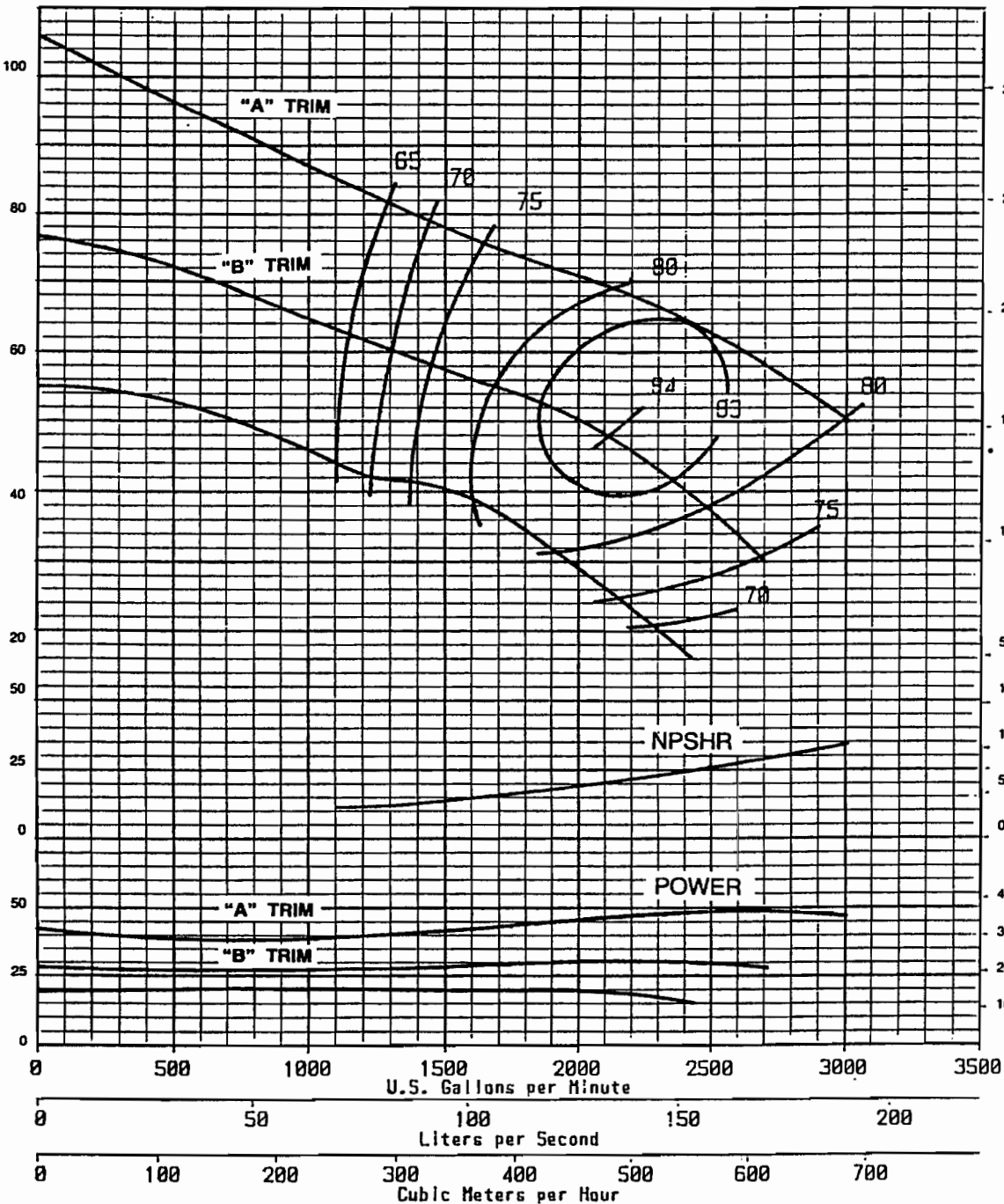
NPSH IN
FEET

BRAKE HP

TOTAL HEAD
IN METERS

NPSH IN
METERS

KILOWATTS



Pump hydraulic performance is based on handling cold clear, fresh nonaerated water, free of foreign materials.

Customer: _____
Item No.: _____

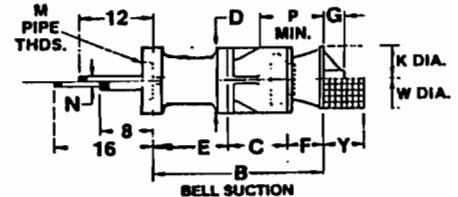
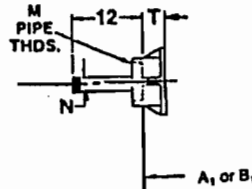
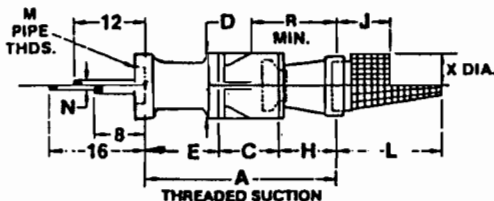
IMPELLER DATA

14 BCH
1770

IMPELLER NO. 414-3-3022 . 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. 2796 N / m of head. WEIGHT 17.625 lbs., 7.99 Kg.
WR² 1.329 lbs. / ft²., 6.49 Kg / m².
EYE FLUID VELOCITY CK .007 ft. / sec. / GPM, .035 m / sec. / LPS.
PERIPHERAL VELOCITY 7.73 ft. / sec. / inch, .093 m / sec. / mm of impeller dia. Ns 3852

BOWL DATA

BOWL NO. 414-3-2001 . CONNECTION TYPE Enclosed . 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.
SHAFT 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 430 lbs., 195.0 Kgs. ADDITIONAL STAGE 125 lbs., 56.7 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 $\frac{3}{4}$	31 $\frac{1}{2}$	24	12 $\frac{3}{4}$	13 $\frac{3}{8}$	11 $\frac{1}{2}$	7 $\frac{1}{4}$	4 $\frac{1}{4}$	10 $\frac{1}{2}$	16	14 $\frac{1}{4}$	31 $\frac{1}{2}$	12	1 $\frac{15}{16}$	32	36	4	14 $\frac{1}{4}$	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