



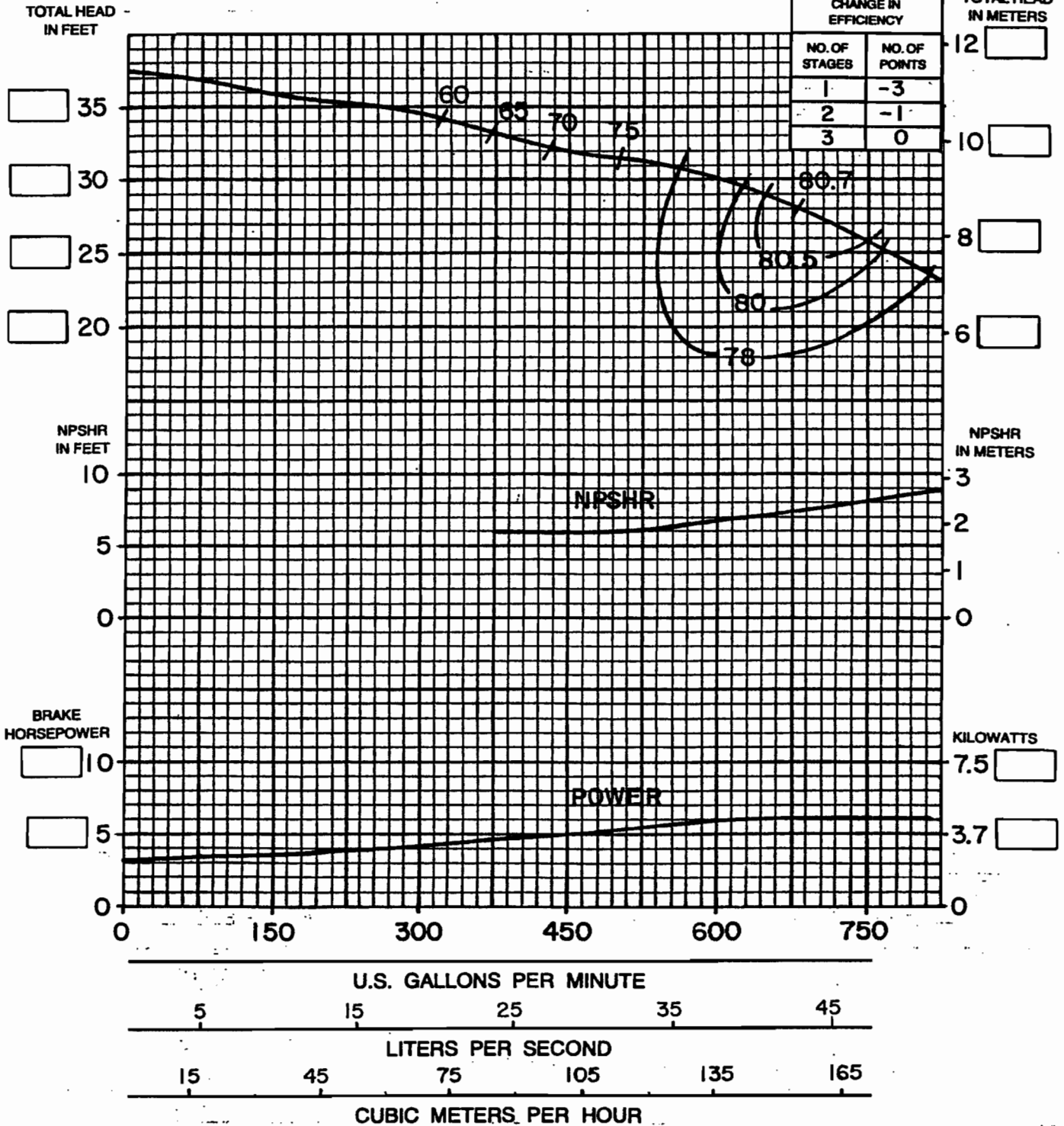
**1160 RPM
SINGLE STAGE PERFORMANCE**

MODEL 12HAH

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.: _____

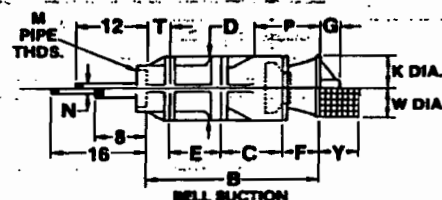
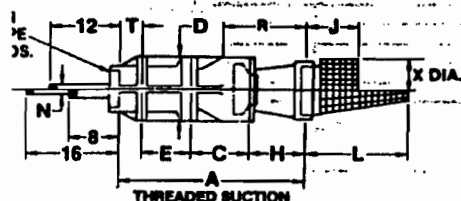
Capacity: _____ TDH _____ Bowl HP _____ Bowl Efficiency _____

IMPELLER DATA

IMPELLER NO. 412-3-3021 TYPE ENCLOSED DIAMETER: A 9.50 ", 241.3 mm,
B 3 ", 76.2 mm, C 1 ", 25.4 mm,
EFFECTIVE EYE AREA 21.16 sq. inches, 13649 sq. mm. NUMBER OF VANES 6
THRUST CONSTANT K 9.98 lbs. / ft. 145.6 N / m of head. WEIGHT 18 lbs., 8.16 Kg.
VR² 1.52 lbs. / ft², 7.42 Kg / m².
EYE FLUID VELOCITY CK .012 ft. / sec. / GPM, .058 m / sec. / LPS.
PERIPHERAL VELOCITY 5.06 ft. / sec. / inch, .061 m / sec. / mm of impeller dia. Ns 1444

BOWL DATA

BOWL NO. 412-3-0020 CONNECTION TYPE BOLTED NOMINAL DIAMETER (E) 11.62 ", 295.1 mm.
MINIMUM DIAMETER (E) 11.56 ", 293.6 mm.
COLUMN PIPE SIZE 8 ", 203.2 mm, STANDARD, 10 ", 254.0 mm, MAXIMUM
SUCTION PIPE SIZE 8 ", 203.2 mm, STANDARD, 10 ", 254.0 mm, MAXIMUM.
PUMP SHAFT DIAMETER 1.687 ", 42.8 mm, STANDARD 1.94 ", 49.3 mm MAXIMUM.
ATERAL 1 ", 25.4 mm, STANDARD, 1 ", 25.4 mm MAXIMUM.
BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.
MAXIMUM NUMBER OF STAGES 20 (std. construction).
MAXIMUM HEAD 577 ft., 175.9 m (std. construction). MAXIMUM SPHERE SIZE 1.19 ", 30.2 mm.
PROJECTIONS ABOVE COLUMN PIPE BUTT: **TUBE** 8",203.2mm; **SHAFT** 16",406.4mm. FOR ENCLOSED
INESHAFT. 12",304.8mm. FOR OPEN LINESHAFT.
WEIGHT: SINGLE STAGE 360 lbs., 163.3 Kgs. ADDITIONAL STAGE 115 lbs., 52.2 Kgs.



STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	W	X	Y
IN.	23 11/16	22 1/8	10 1/2	11 5/8	4 3/16	7	2 1/4	7 9/16	11	12	31 3/8	8	11 1/16	17 5/8	19	4 9/16	12 1/4	18	9
MM.	601.7	561.9	266.7	295.2	106.4	177.8	57.2	192.0	279.4	304.8	797.1	203.2	42.9	447.6	482.6	115.8	311.2	457.2	228.6