



Section 5
Page 5
Curve No. 180805
Effective February 1992
Supersedes

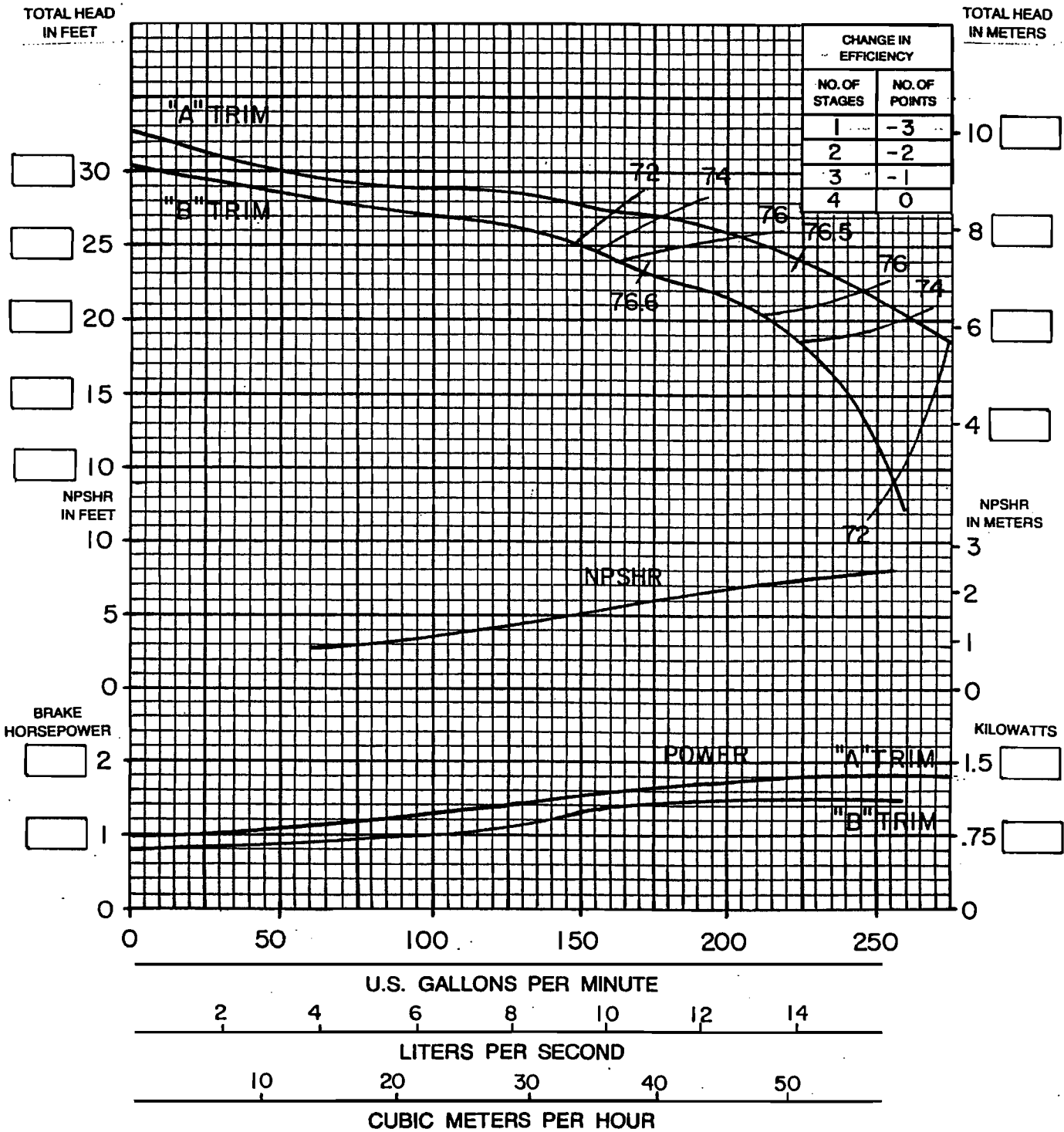
1770 RPM
SINGLE STAGE PERFORMANCE

MODEL 8BCAL

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 _____

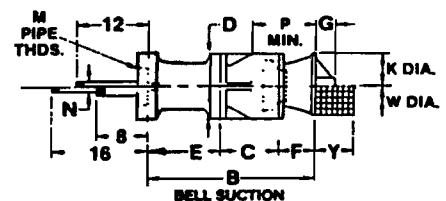
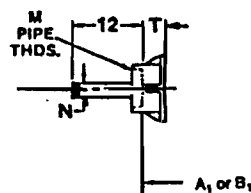
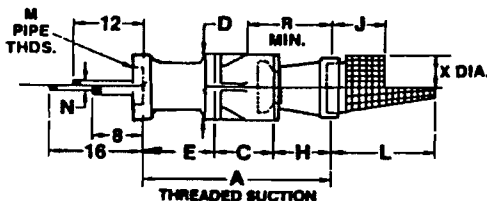
IMPELLER DATA

8BCAL
1770

IMPELLER NO. 408-3-3007 . TYPE ENCLOSED . DIAMETER: A 5.95 ", 151.13 mm,
B 5.50 ", 139.7 mm,
EFFECTIVE EYE AREA 11.79 sq. inches, 299.5 sq. mm. NUMBER OF VANES 6 .
THRUST CONSTANT K 4.57 lbs. / ft. 66.72 N / m of head. WEIGHT 4.00 lbs., 1.81 Kg.
WR² .10 lbs. / ft²., .05 Kg / m².
EYE FLUID VELOCITY CK .033 ft. / sec. / GPM, .158 m / sec. / LPS.
PERIPHERAL VELOCITY 7.72 ft. / sec. / inch, 2.35 m / sec. / mm of impeller dia. Ns 1475

BOWL DATA

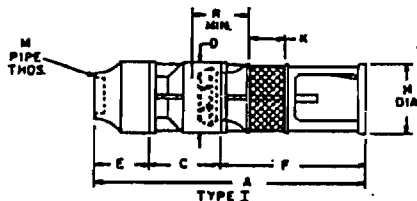
BOWL NO. 408-3-2020 . CONNECTION TYPE BOLTED . NOMINAL DIAMETER (E) 7.50 ", 190.5 mm.
MINIMUM DIAMETER (E) 7.50 ", 190.5 mm.
COLUMN PIPE SIZE 6 ", 152.4 mm, STANDARD, 6 ", 152.4 mm, MAXIMUM
SUCTION PIPE SIZE 6 ", 152.4 mm, STANDARD, 6 ", 152.4 mm, MAXIMUM.
PUMP SHAFT DIAMETER 1.19 ", 30.2 mm, STANDARD * ", * mm MAXIMUM.
LATERAL .47 ", 11.91 mm, STANDARD, * ", * mm MAXIMUM.
SHAFT BEARING CLEARANCE .010 ", .254 mm. IMPELLER SKIRT CLEARANCE .015 ", .381 mm.
MAXIMUM NUMBER OF STAGES 28 (std. construction).
MAXIMUM HEAD 687 ft., 209.4 m (std. construction). MAXIMUM SPHERE SIZE .56 ", 14.3 mm.
PROJECTIONS ABOVE COLUMN PIPE BUTT: **TUBE** 8",203.2mm; **SHAFT** 16",406.4mm. FOR ENCLOSED LINESHAFT. 12",304.8mm. FOR OPEN LINESHAFT.



* REFER TO FACTORY.

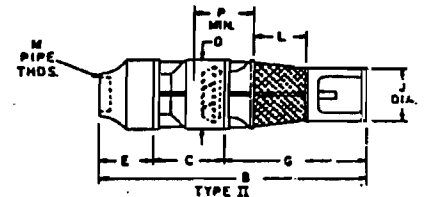
STANDARD DIMENSIONS

	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 / ₂	6	1 ³ / ₁₆	*	*	3	8 ¹ / ₄	10	5
MM.	635.0	457.2	505.0	327.2	152.4	190.5	254.0	98.6	76.2	228.6	203.2	196.9	412.8	152.4	30.2			76.2	209.6	254.0	127.0



STANDARD DIMENSIONS

	A	B	C	D	E	F	G	H	J	K	L	M	P	F
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	*	*
MM.	584.2	495.3	152.4	200.2	76.2	355.6	266.7	190.5	136.7	304.8	158.8	152.4		



WEIGHT: SINGLE STAGE 130 lbs., 59.0 Kgs. ADDITIONAL STAGE 35 lbs., 15.9 Kgs.