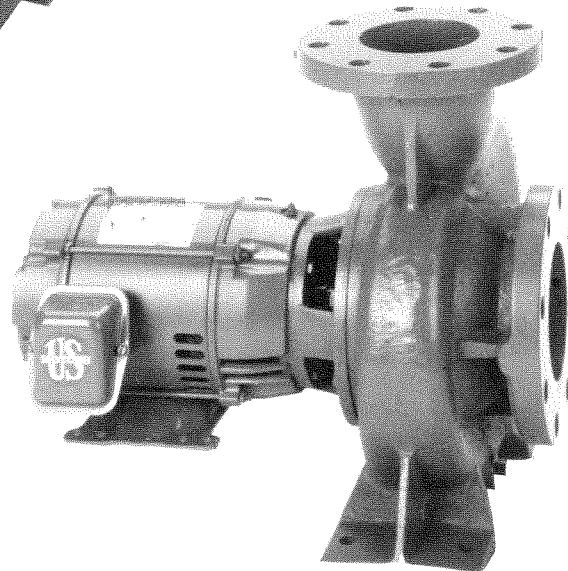
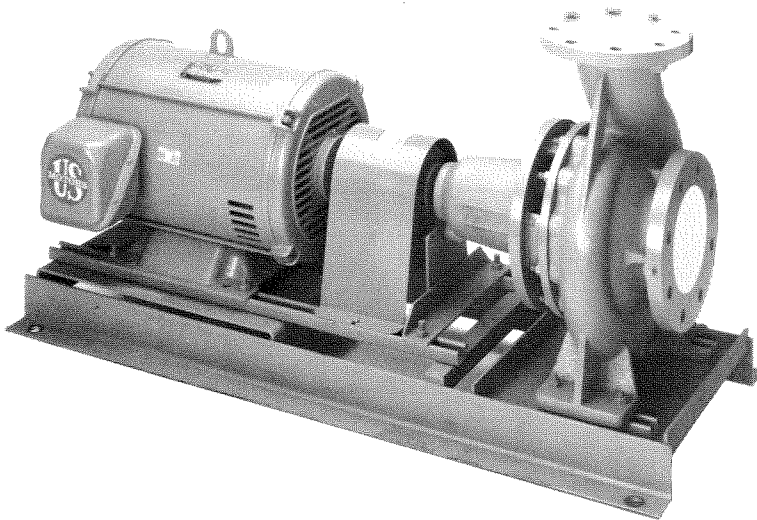




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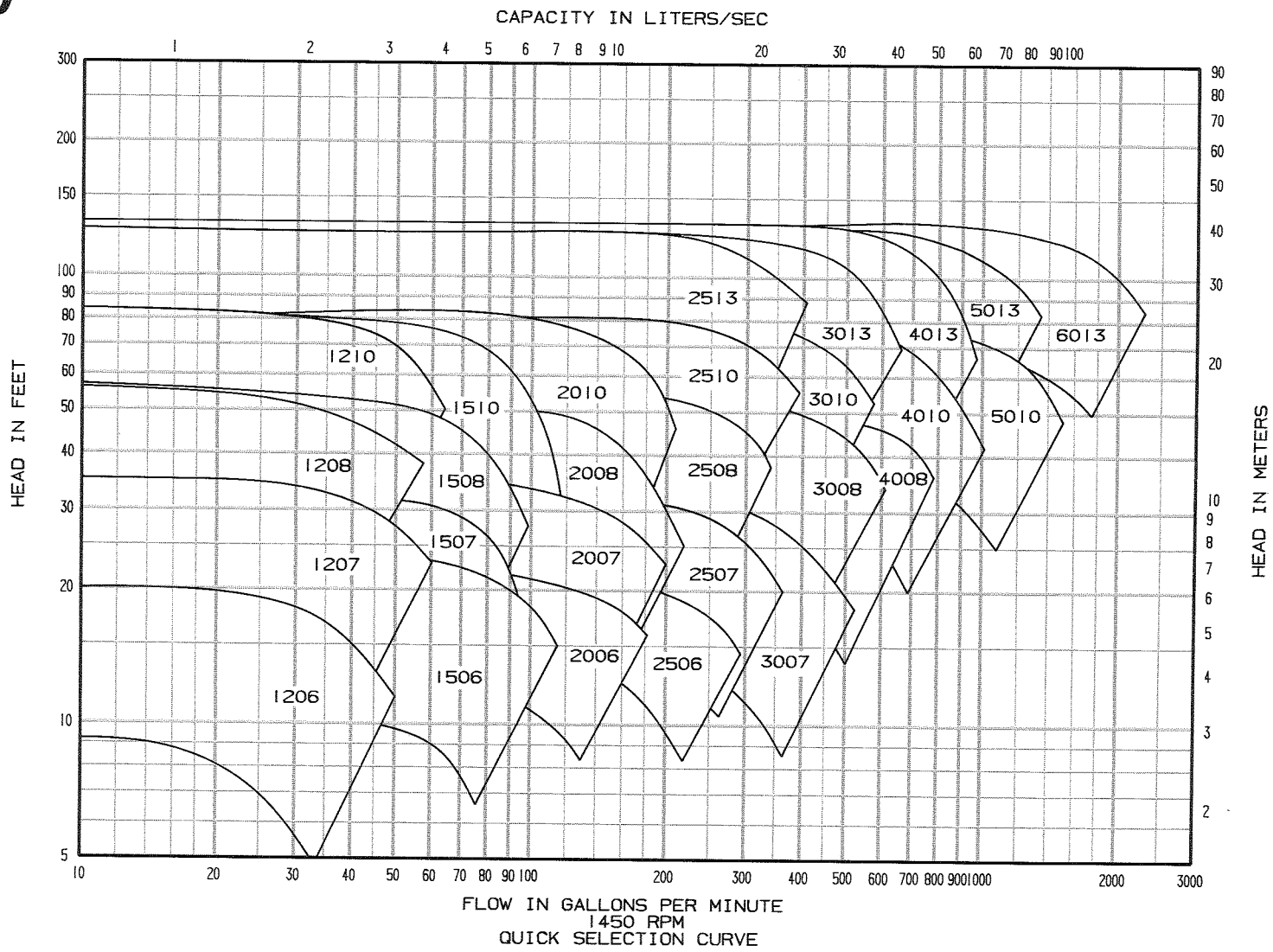
PERFORMANCE CURVES

50 HRZ

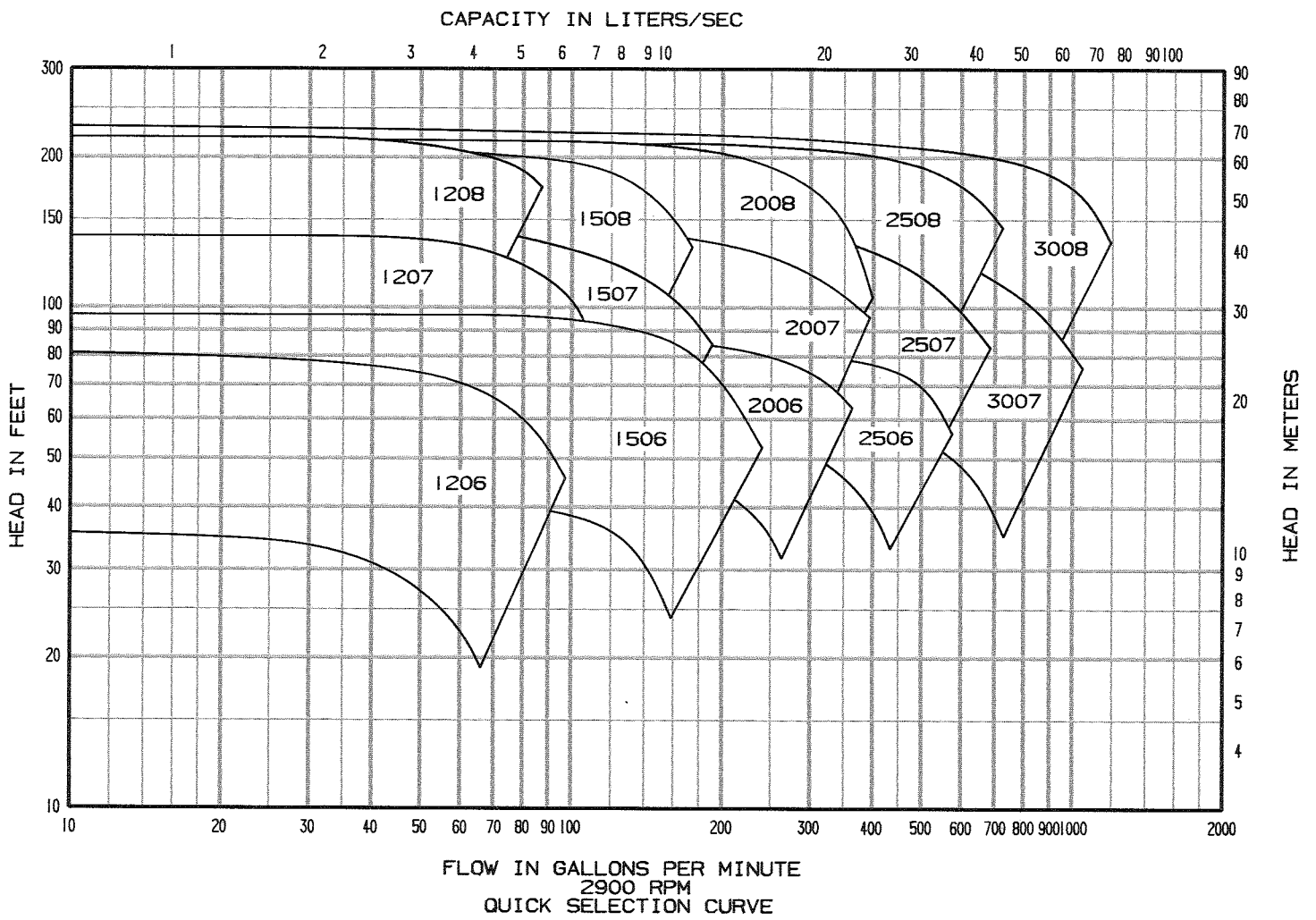


"CE" Close-Coupled End Suction Pump

"FE" Frame Mounted End Suction Pump



**Close-Coupled End Suction Pump
Frame Mounted End Suction Pump
Quick Selection Curve
1450 RPM**



**Close-Coupled End Suction Pump
Frame Mounted End Suction Pump
Quick Selection Curve
2900 RPM**

CORRECTION FACTORS
FOR OTHER SPEEDS

For speeds other than 1760, hydraulic performance and B.H.P. requirements must be corrected before a selection can be made. The following multipliers are used to correct performance and B.H.P.

	G.P.M.	Head	B.H.P.
1160 to 1760	1.52	2.31	
1760 to 1160			.28
1460 to 1760	1.21	1.46	
1760 to 1460			.58
2900 to 3500	1.19	1.42	
3500 to 2900			.58

Sizing Procedure

- 1. Using the proper multipliers correct G.P.M. and head.
- 2. Make pump selection as usual using corrected performance.
- 3. Determine max. B.H.P. requirement for pump selected.
- 4. Correct B.H.P. using multiplier to lower speed.
- 5. Select motor based on Step 4. Use service factor if applicable.

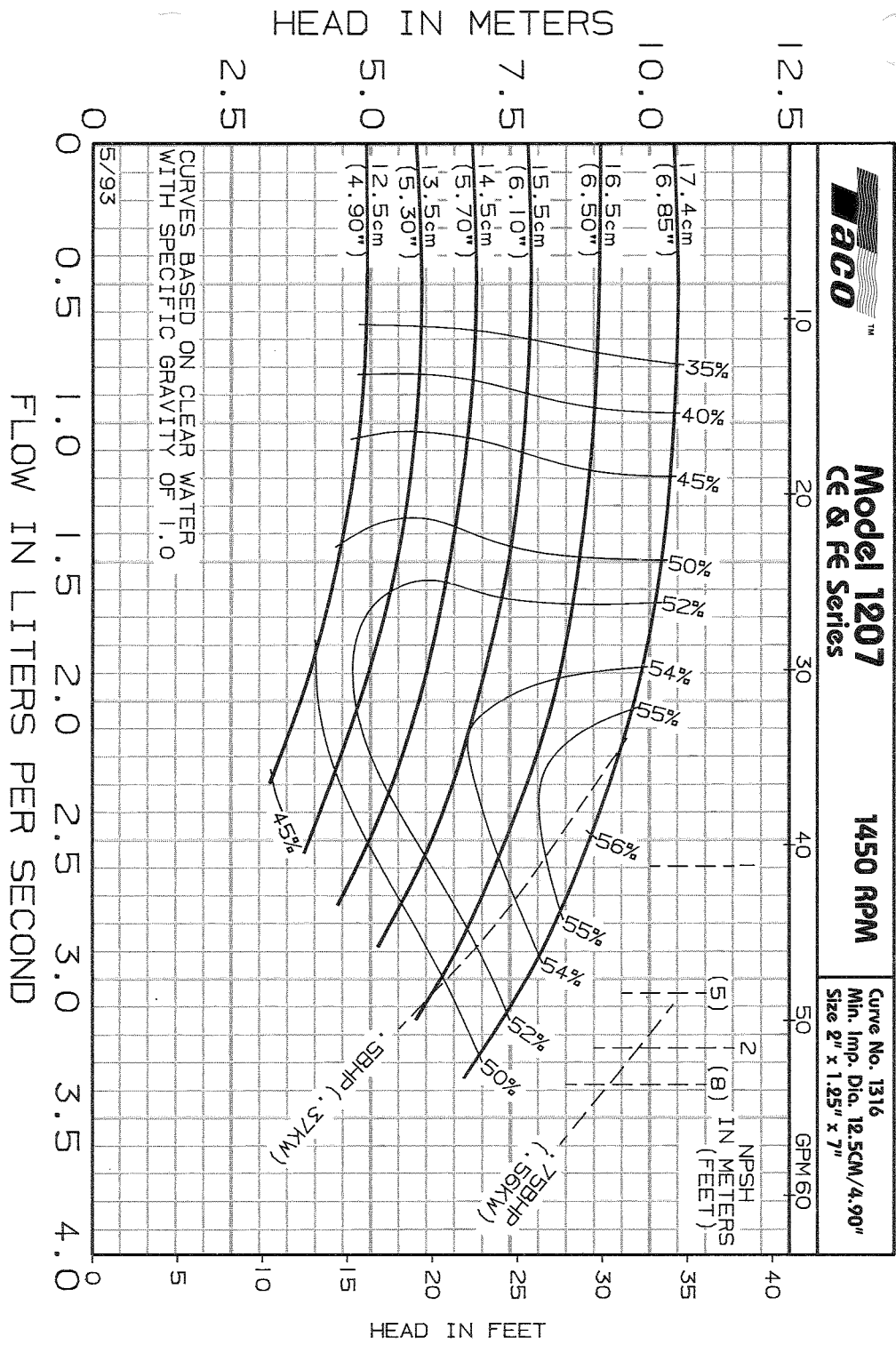
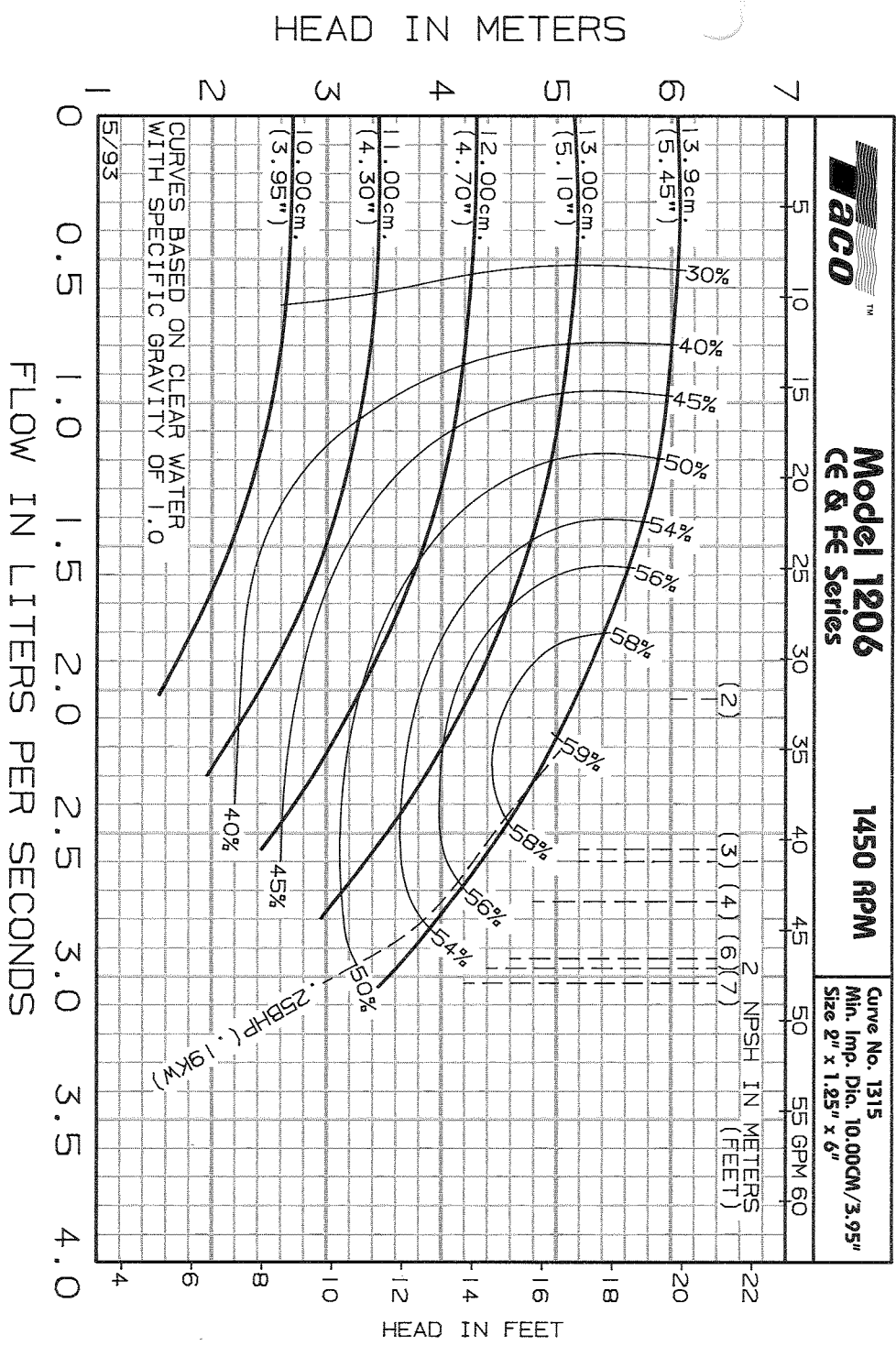
PUMP FORMULAS

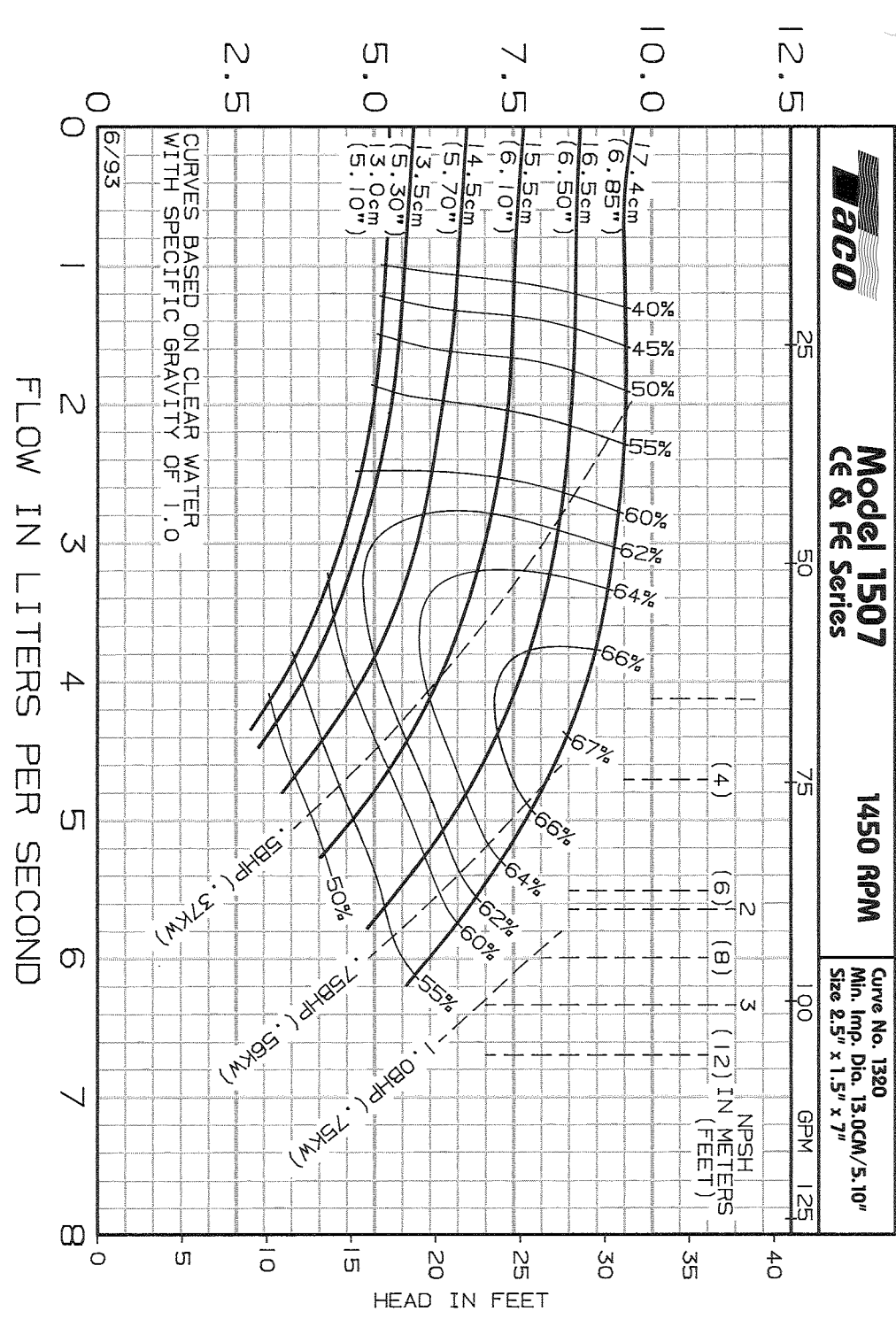
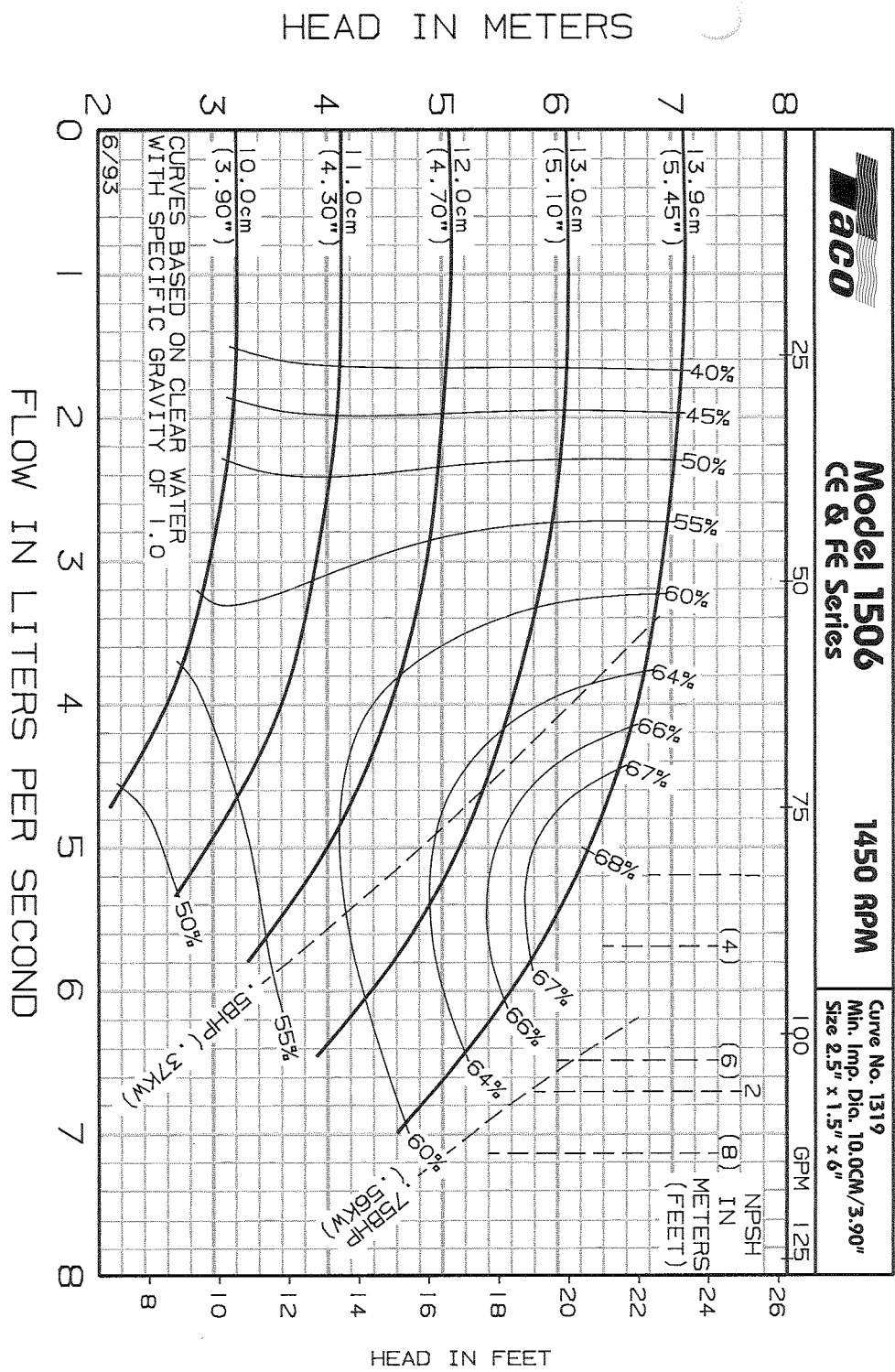
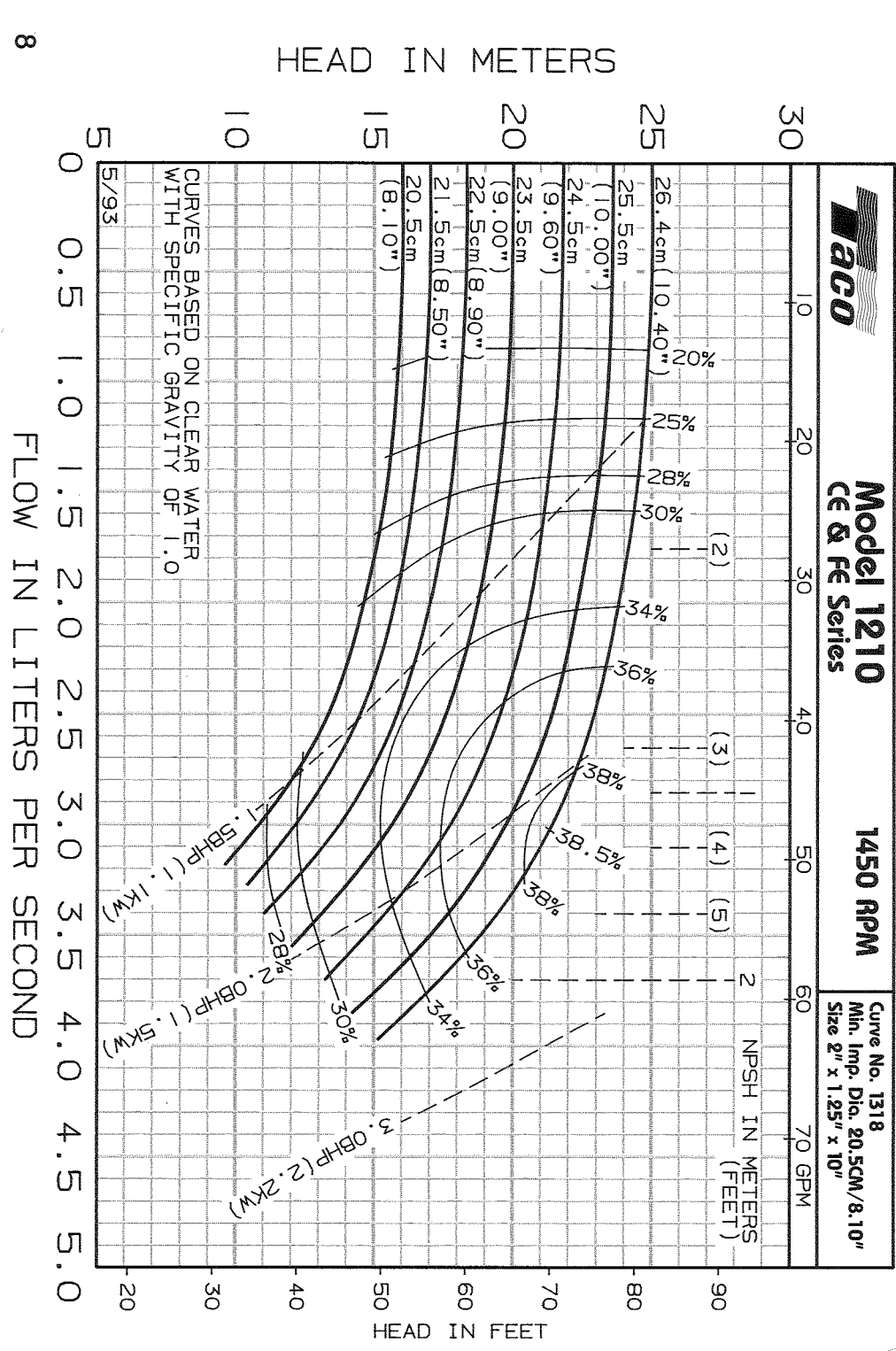
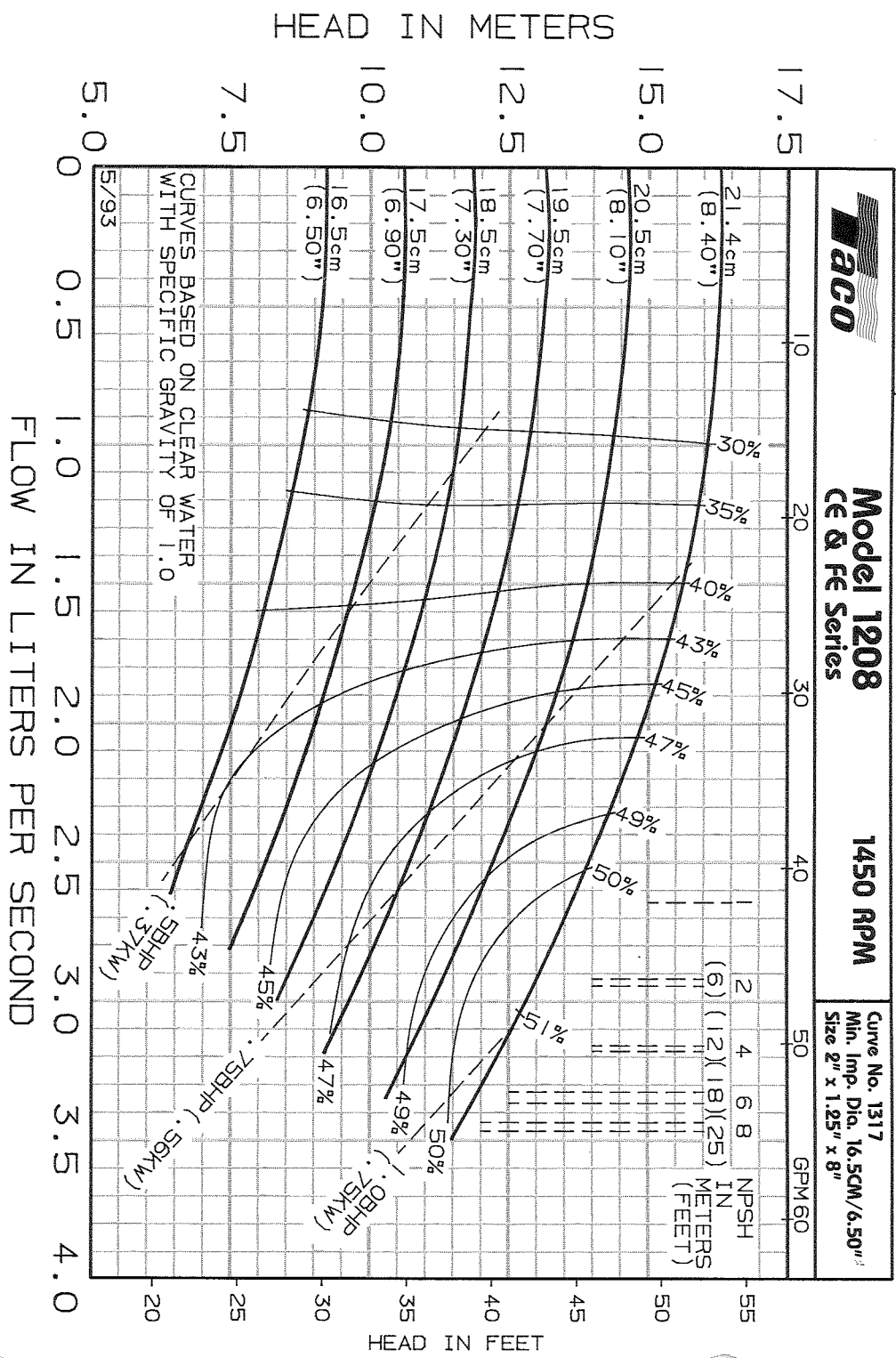
Pressure (PSI)	=	Head (Feet) x Specific Gravity
		2.31
Head (Feet)	=	Pressure (PSI) x 2.31
		Specific Gravity
Vacuum (Inches of Mercury)	=	Dynamic Suction Lift (Feet) x .883 x Specific Gravity
Horsepower (Brake)	=	GPM x Head (Feet) x Specific Gravity
		3960 x Pump Efficiency
Horsepower (Water)	=	GPM x Head (Feet) x Specific Gravity
		3960
Efficiency (Pump)	=	Horsepower (Water) x 100 Per Cent
		Horsepower (Brake)
NPSH (Available)	=	Positive Factors — Negative Factors

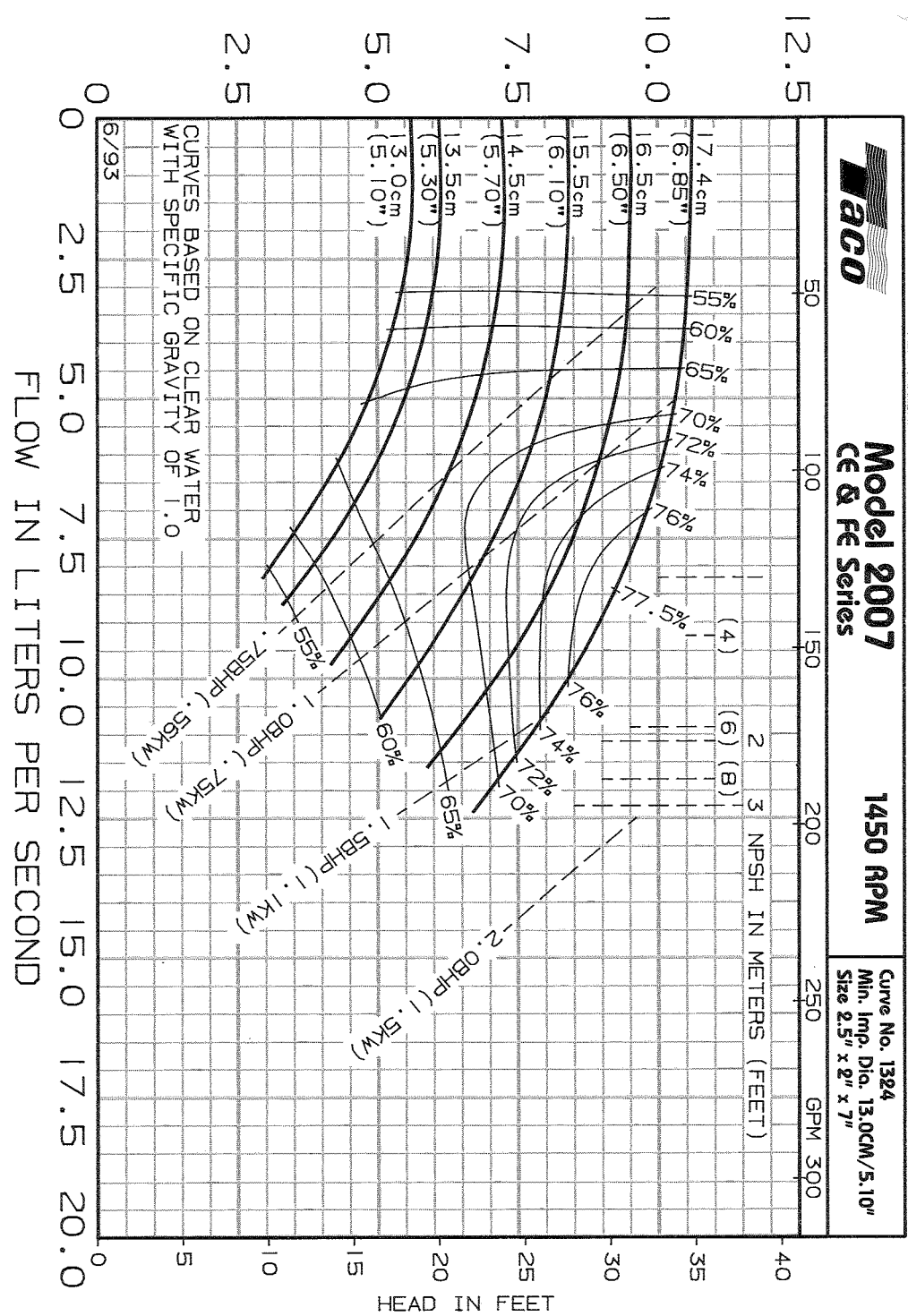
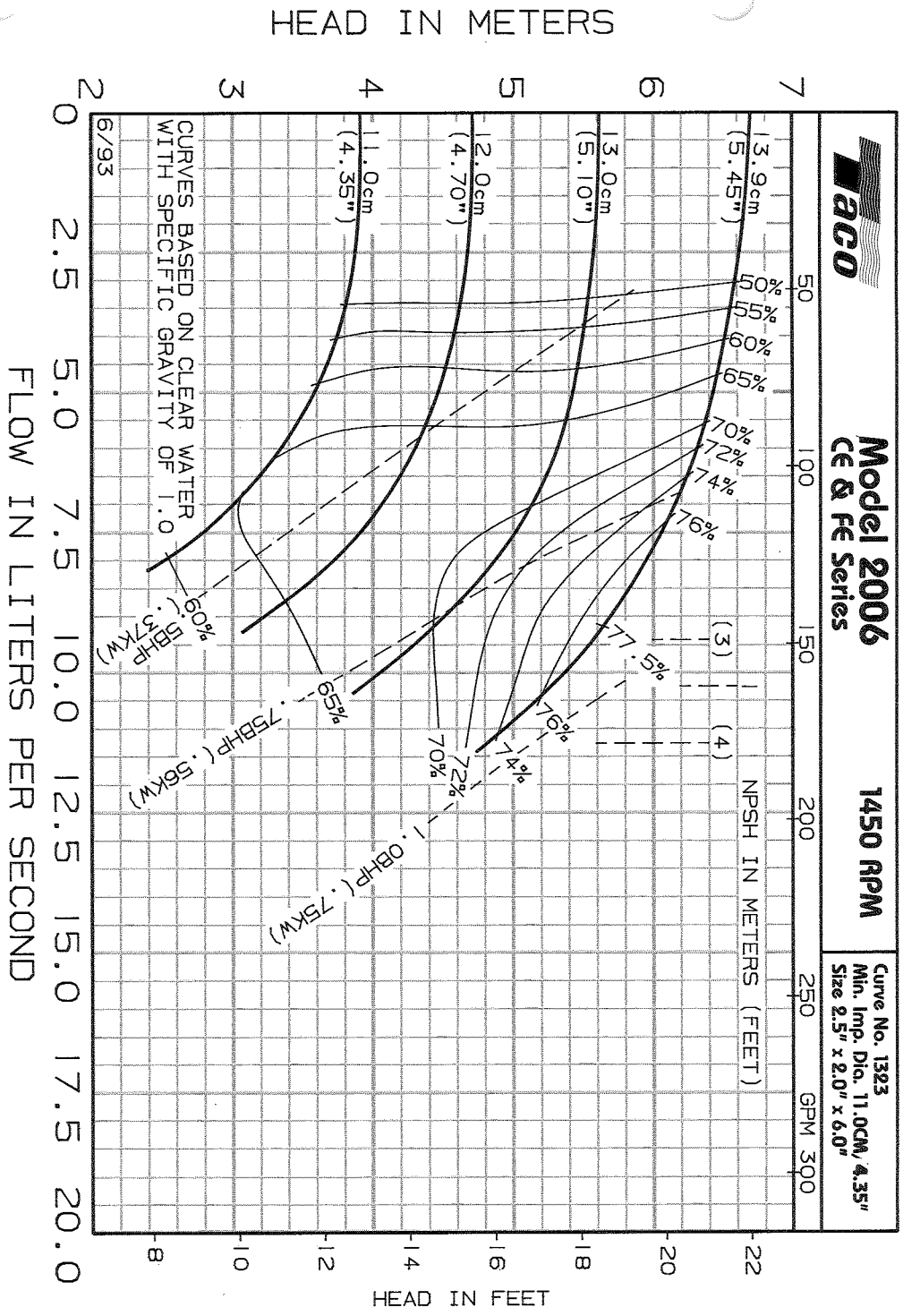
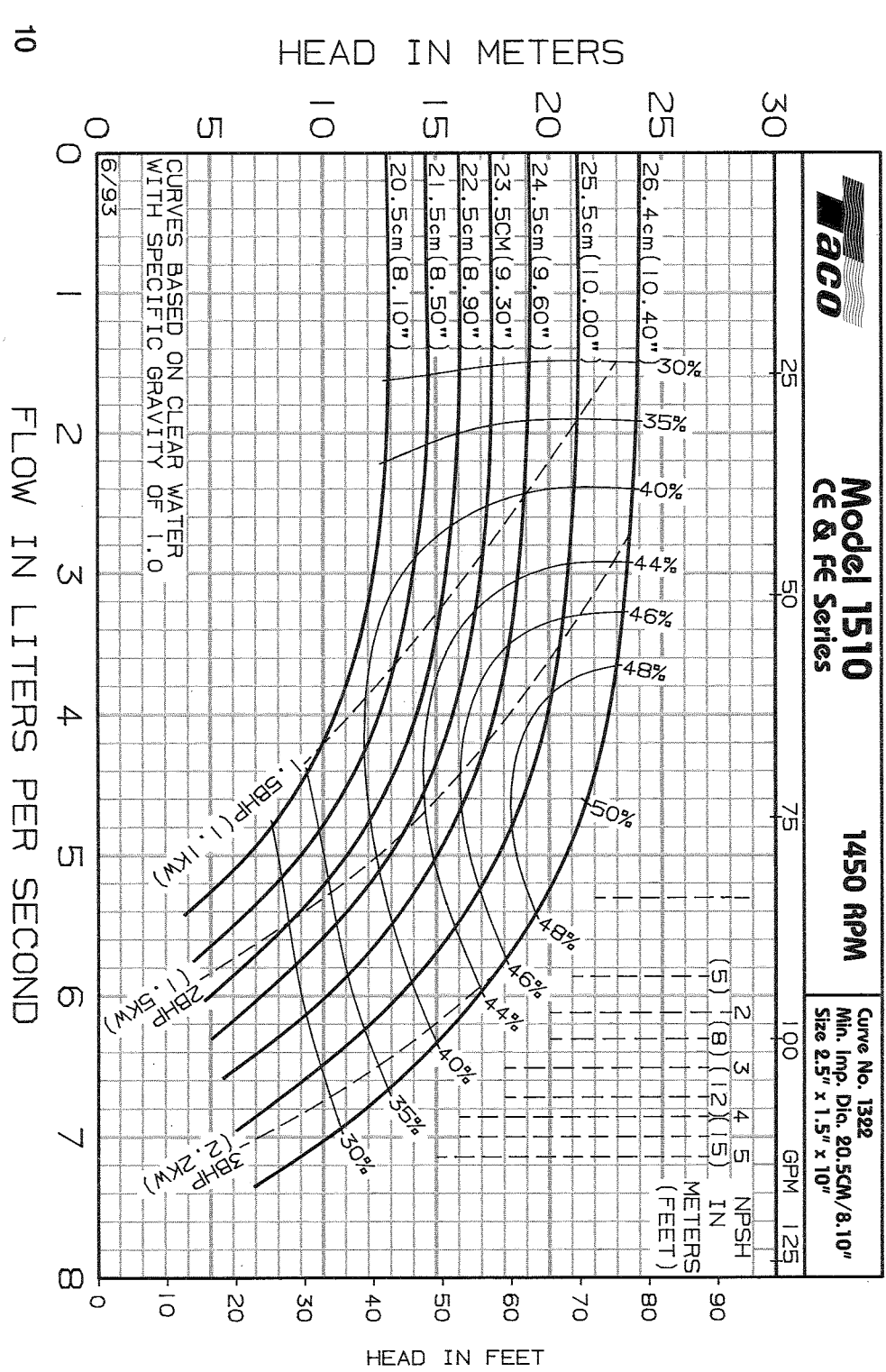
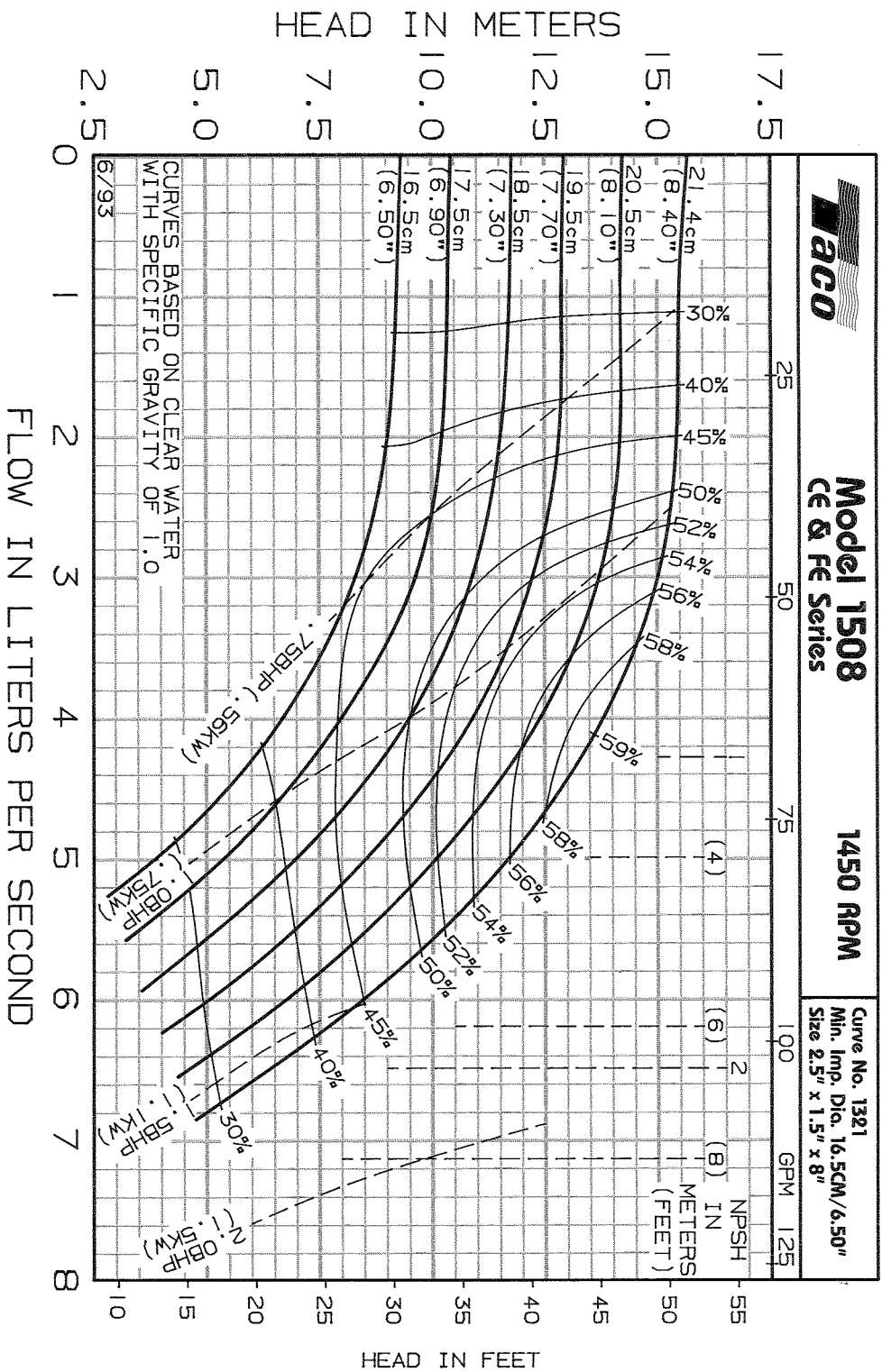
Affinity Laws: Effect of change of speed or
impeller diameter on centrifugal pumps.

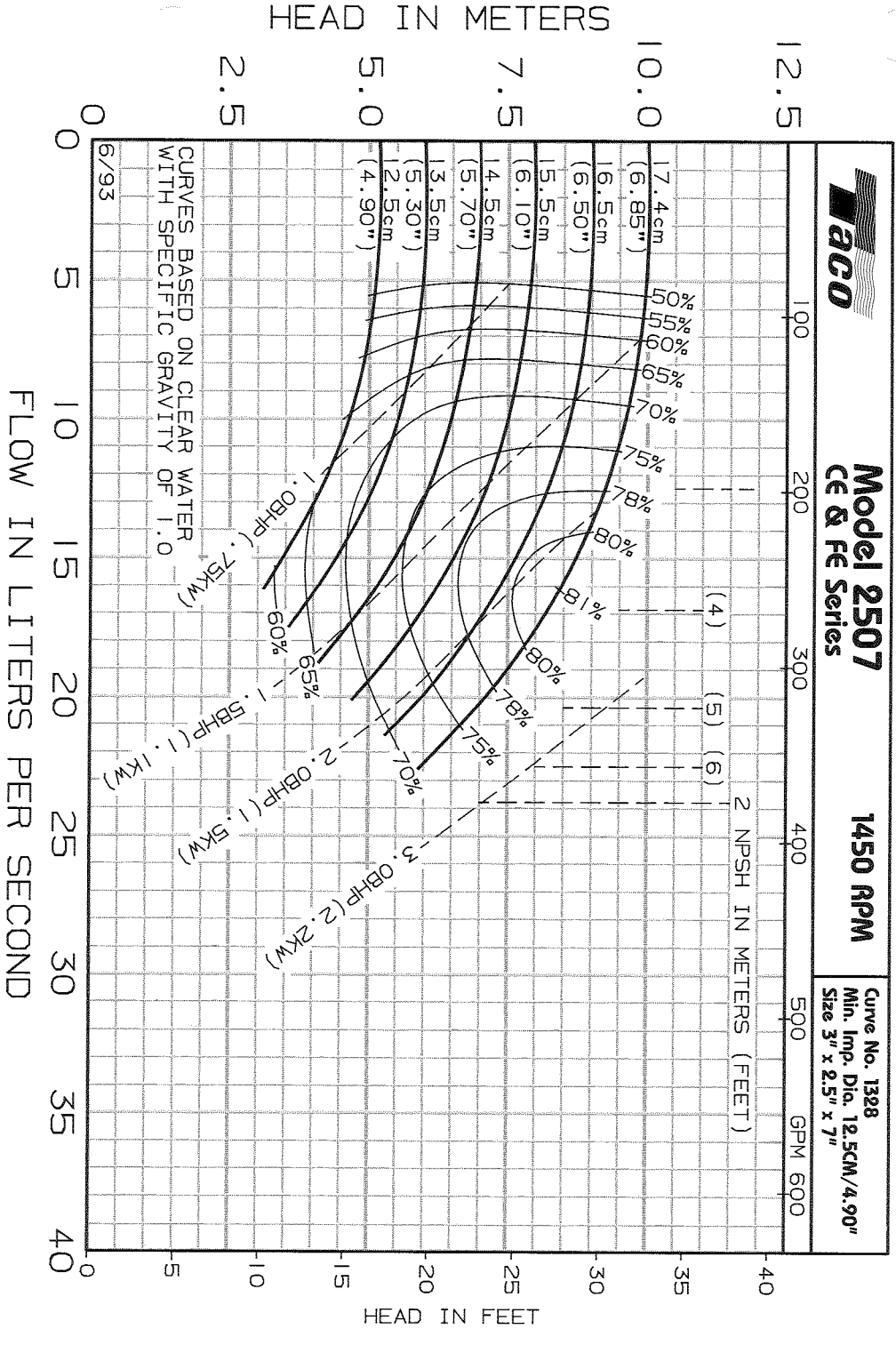
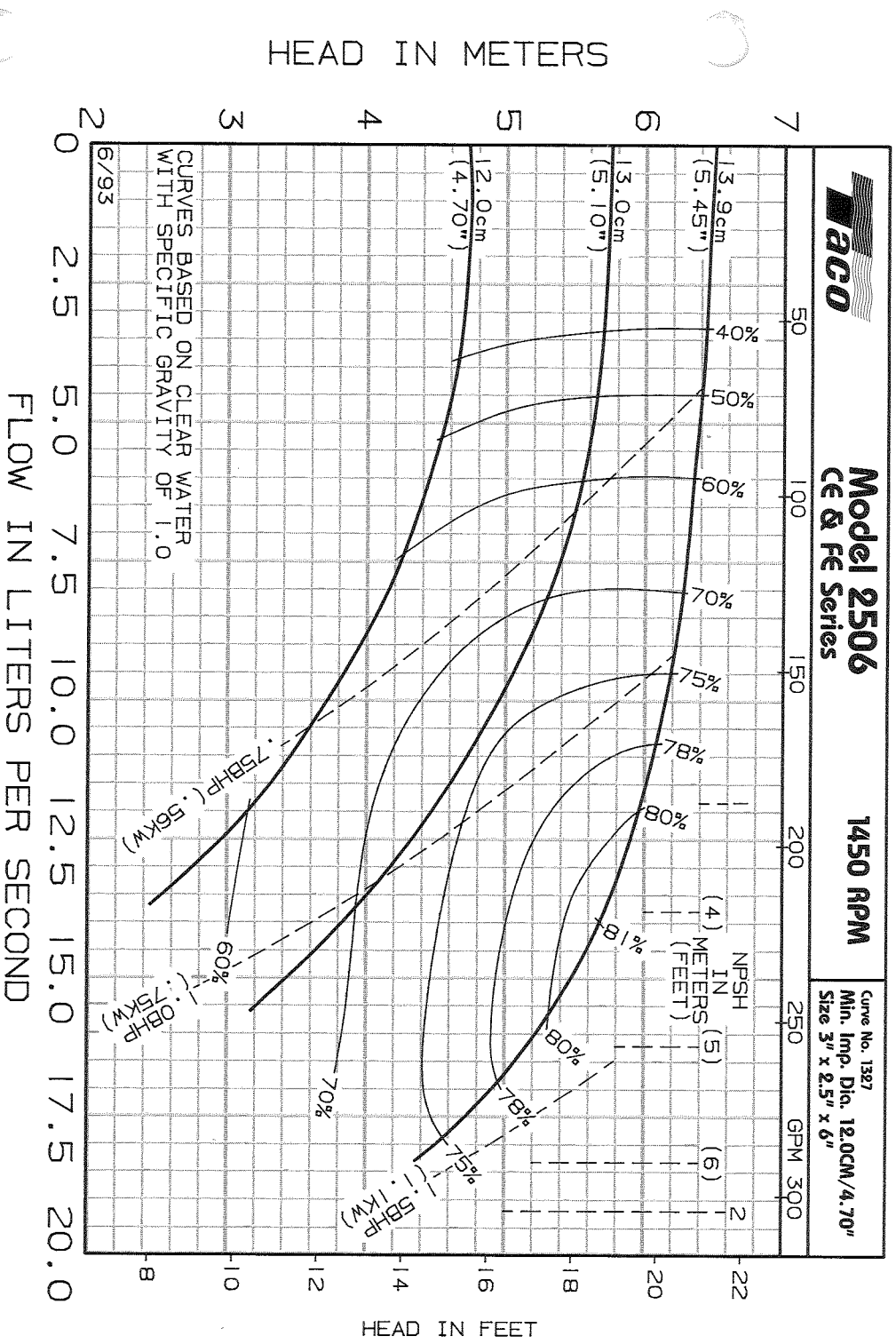
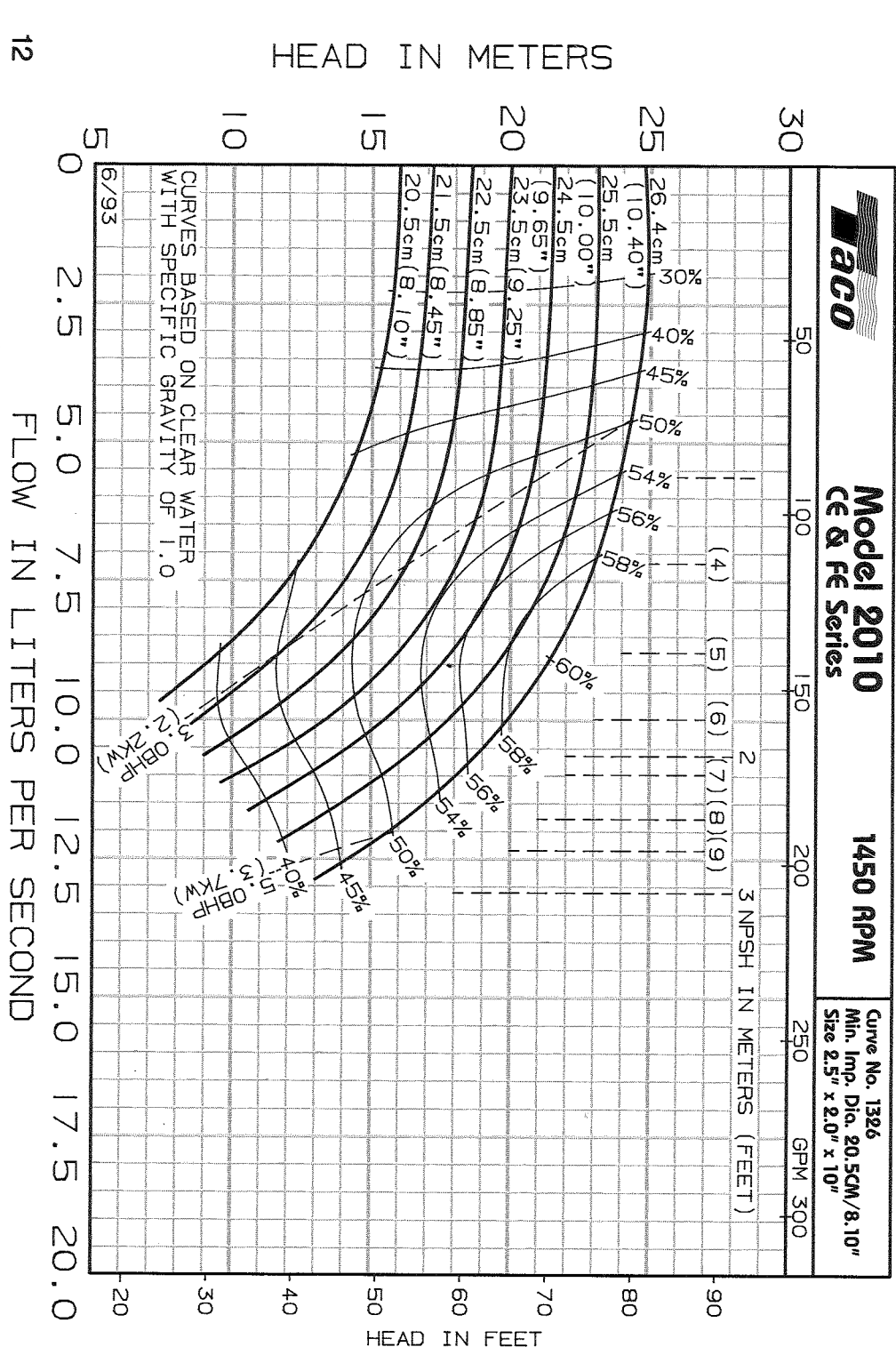
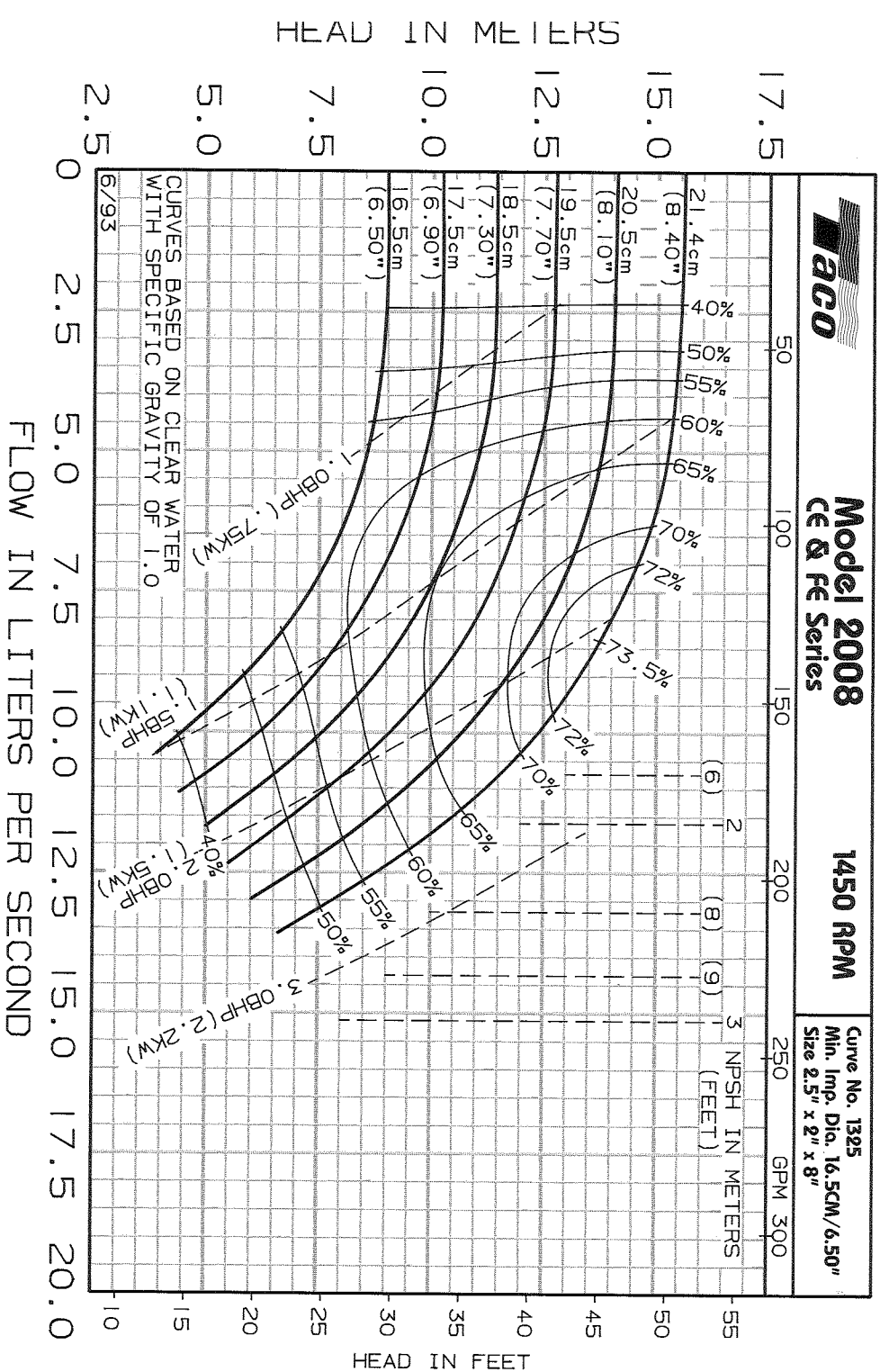
	GPM Capacity		Ft. Head		BHP
Impeller Diameter Change	$Q_2 = \frac{D_2^2}{D_1} Q_1$		$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$		$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{RPM_2}{RPM_1} Q_1$		$H_2 = \left(\frac{RPM_2}{RPM_1}\right)^2 H_1$		$P_2 = \left(\frac{RPM_2}{RPM_1}\right)^3 P_1$

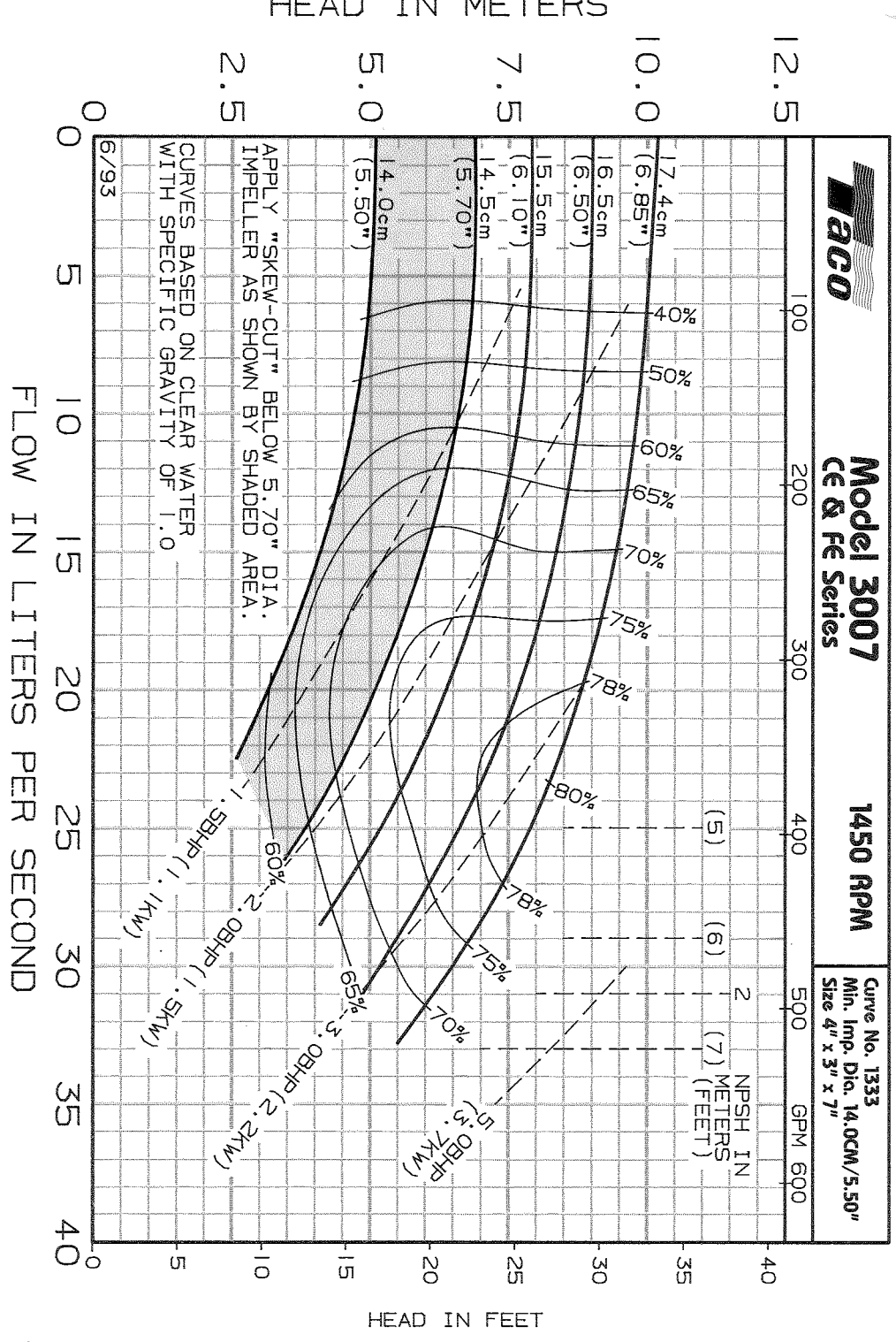
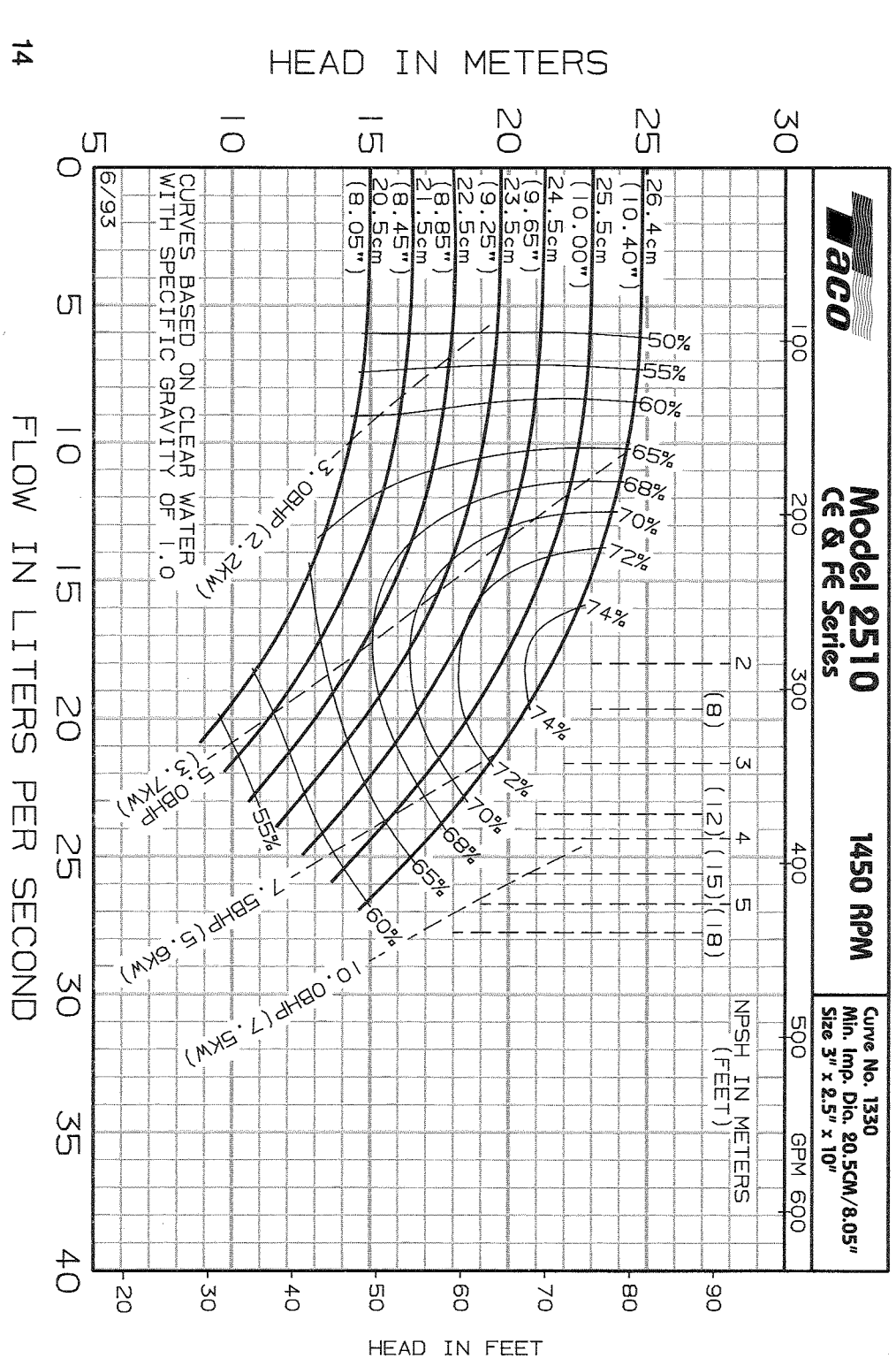
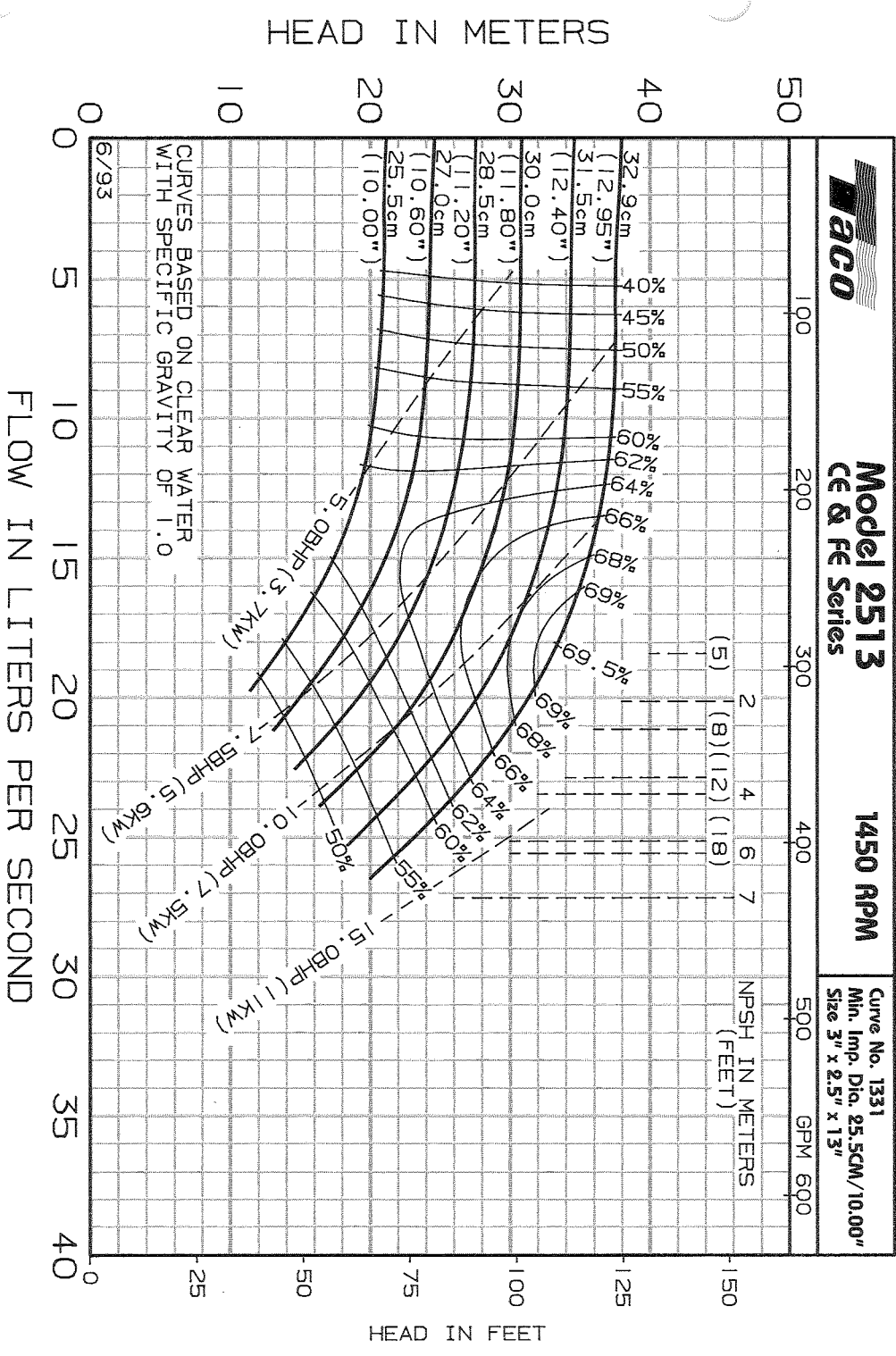
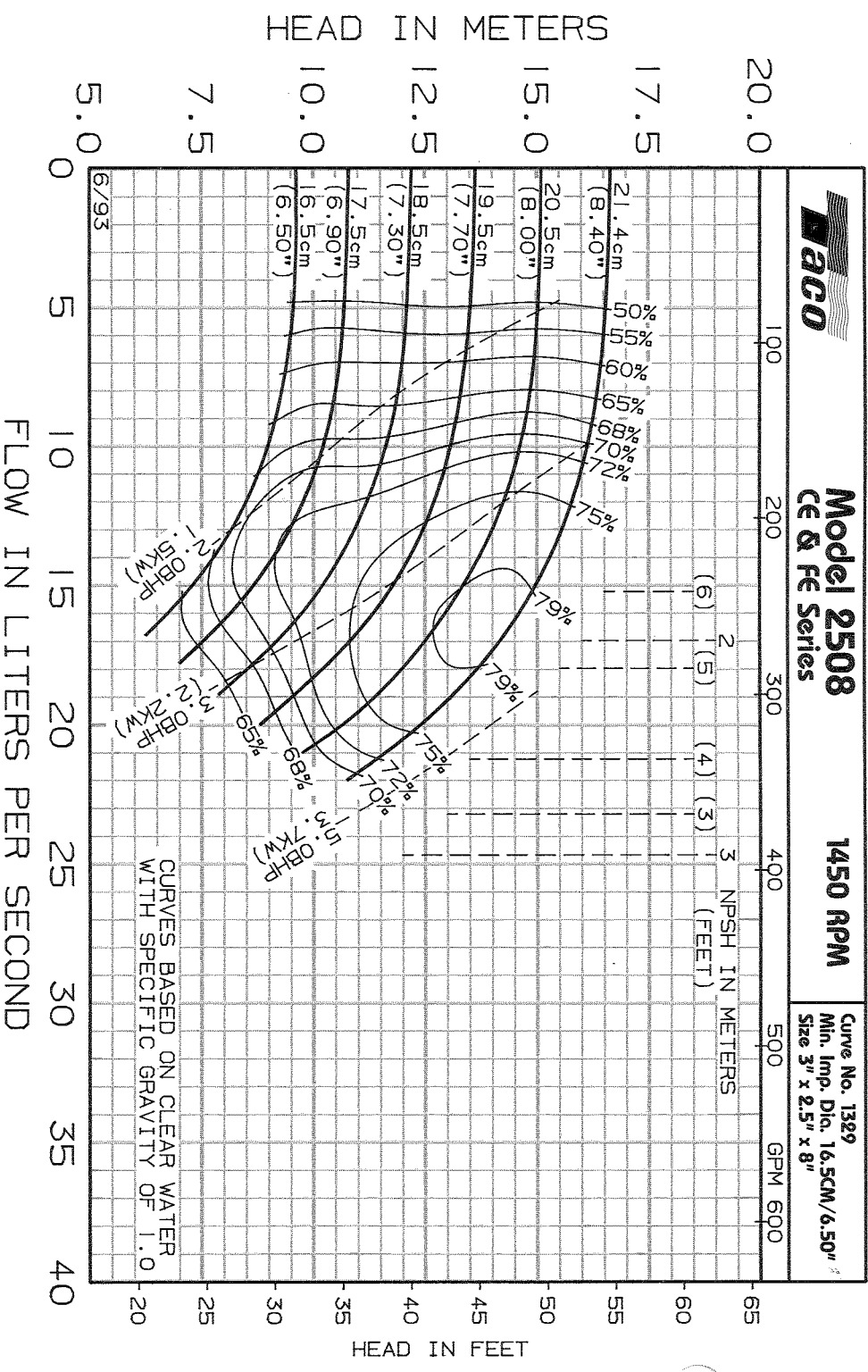
Where Q = GPM, H = Head, P = BHP, D = Impeller Dia., RPM = Pump Speed

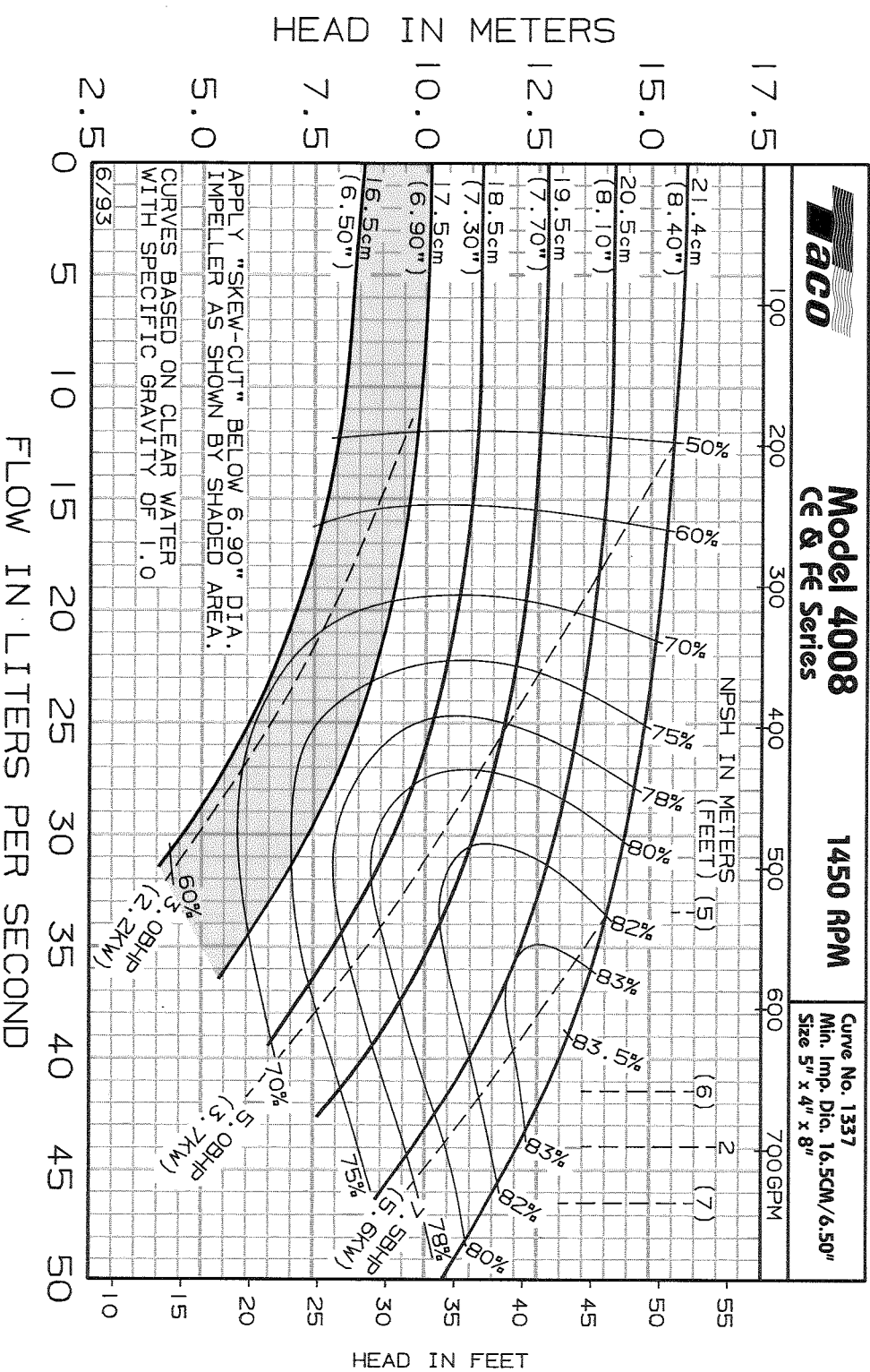
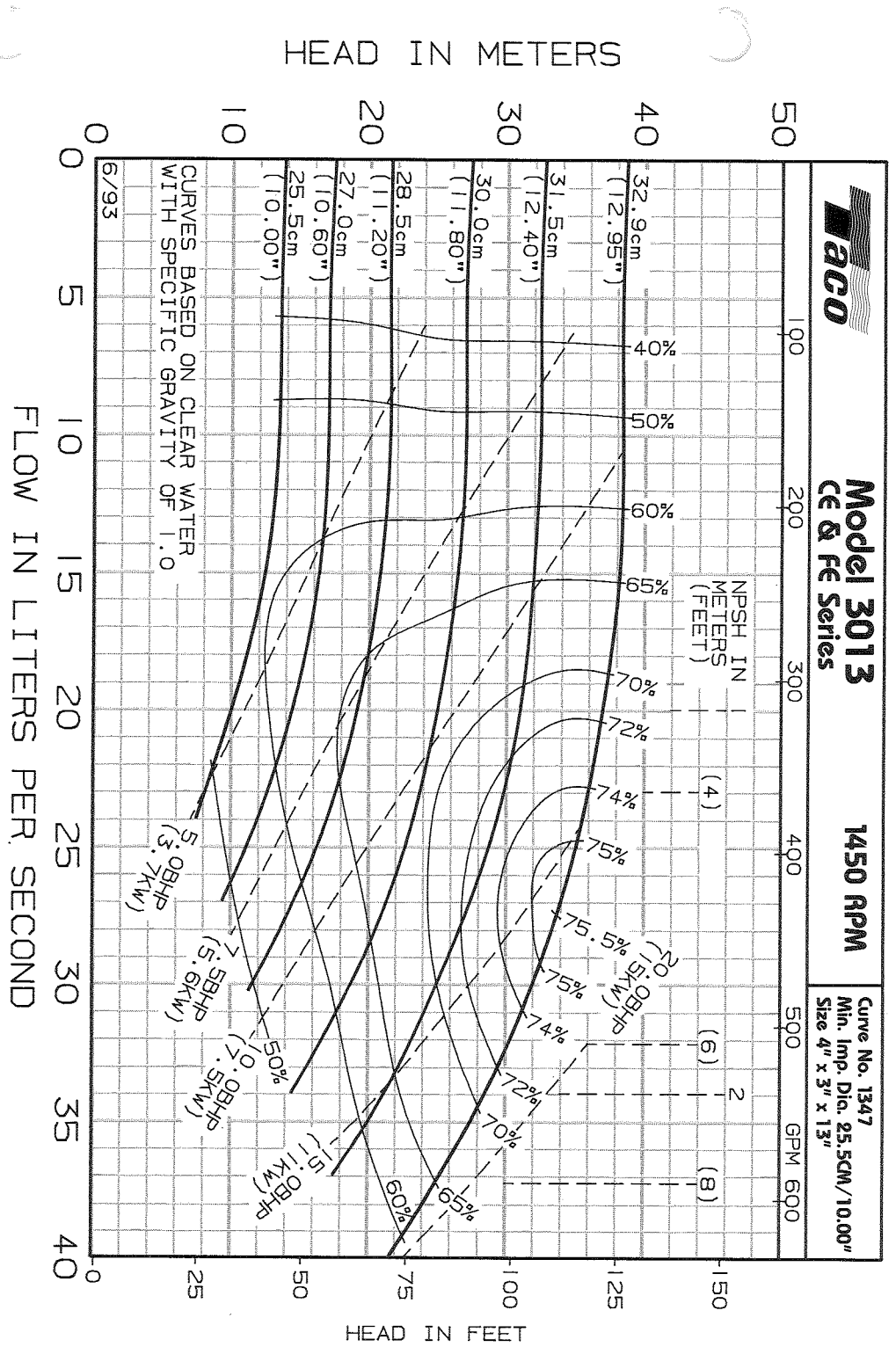
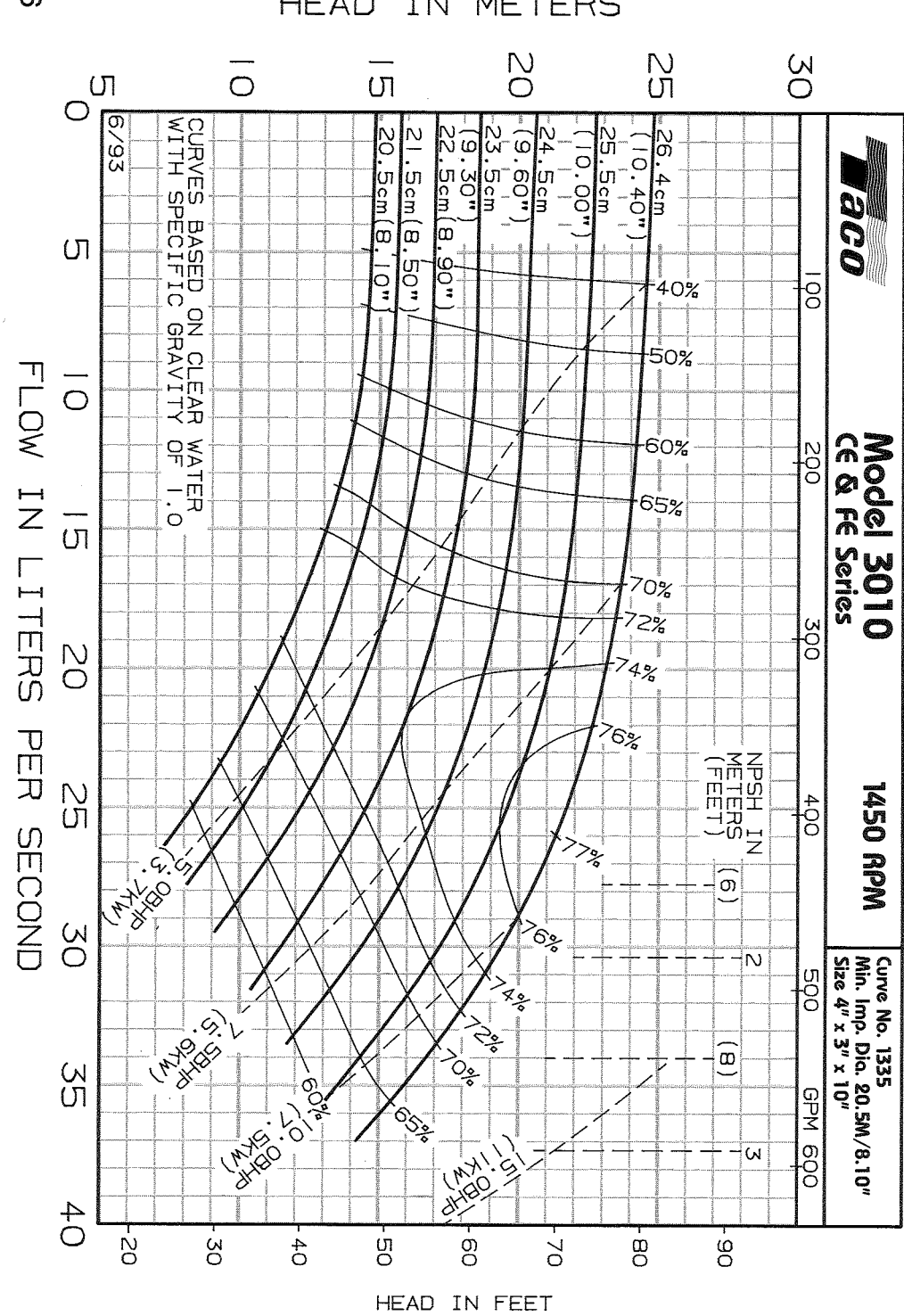
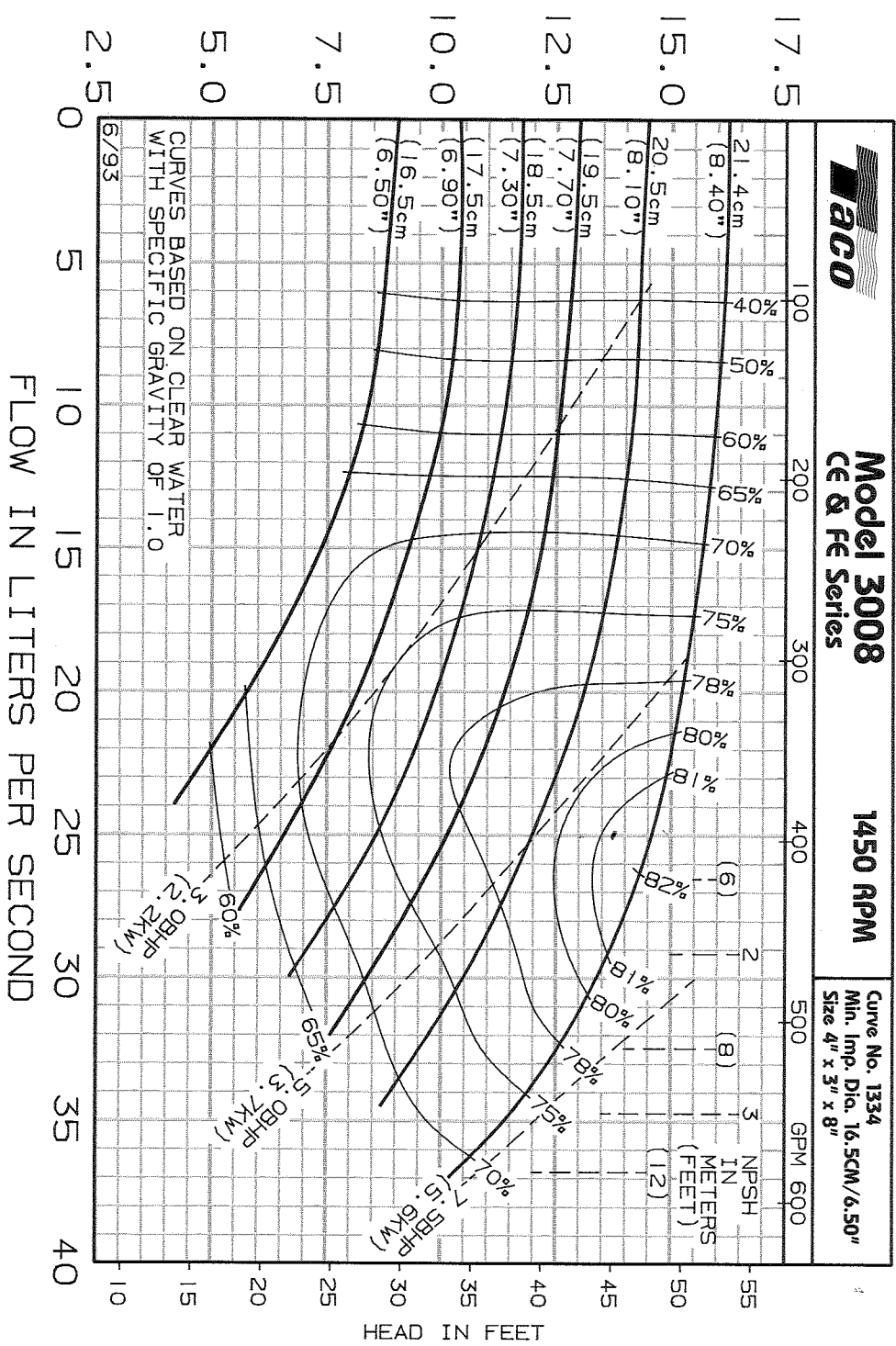


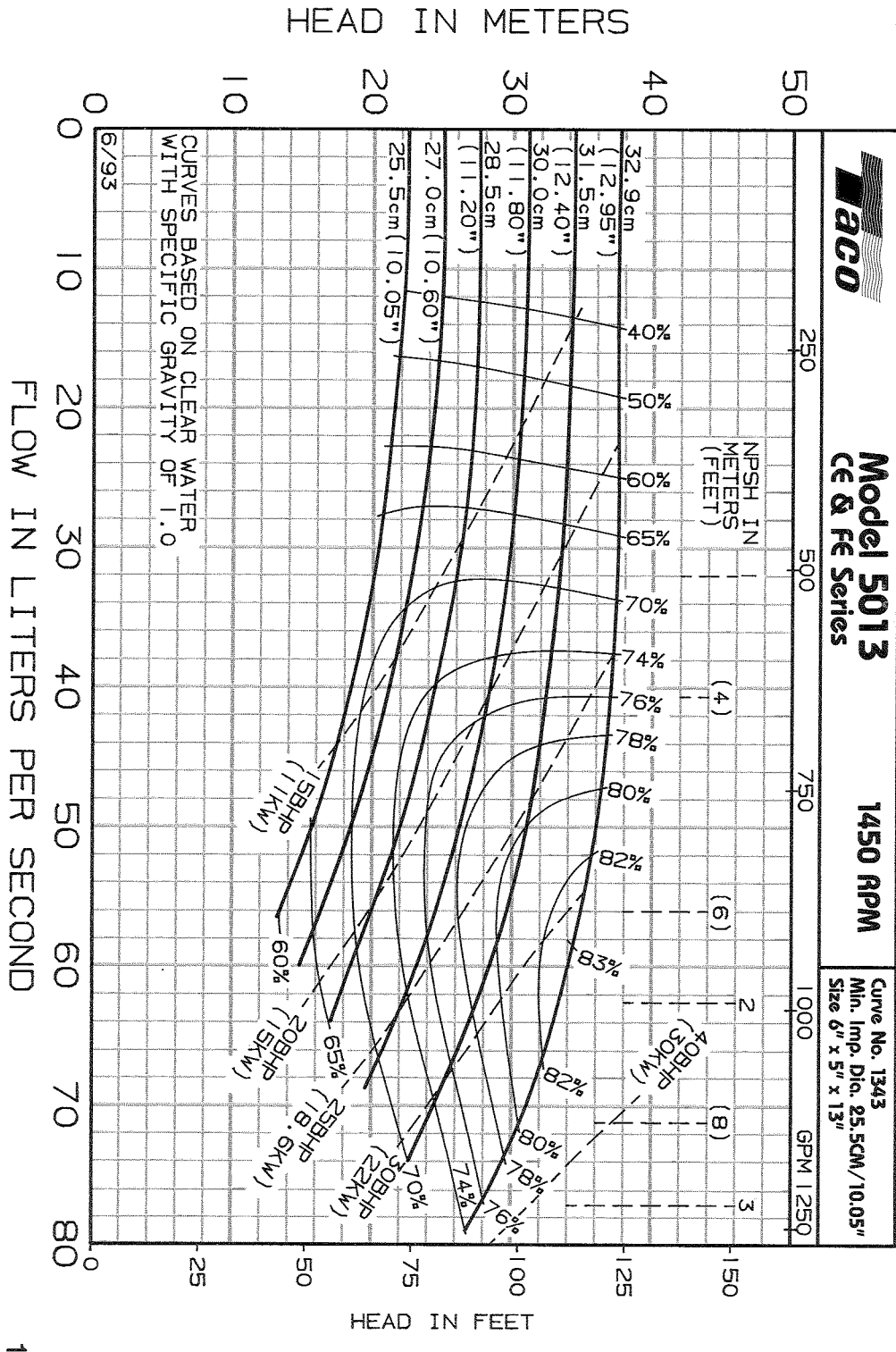
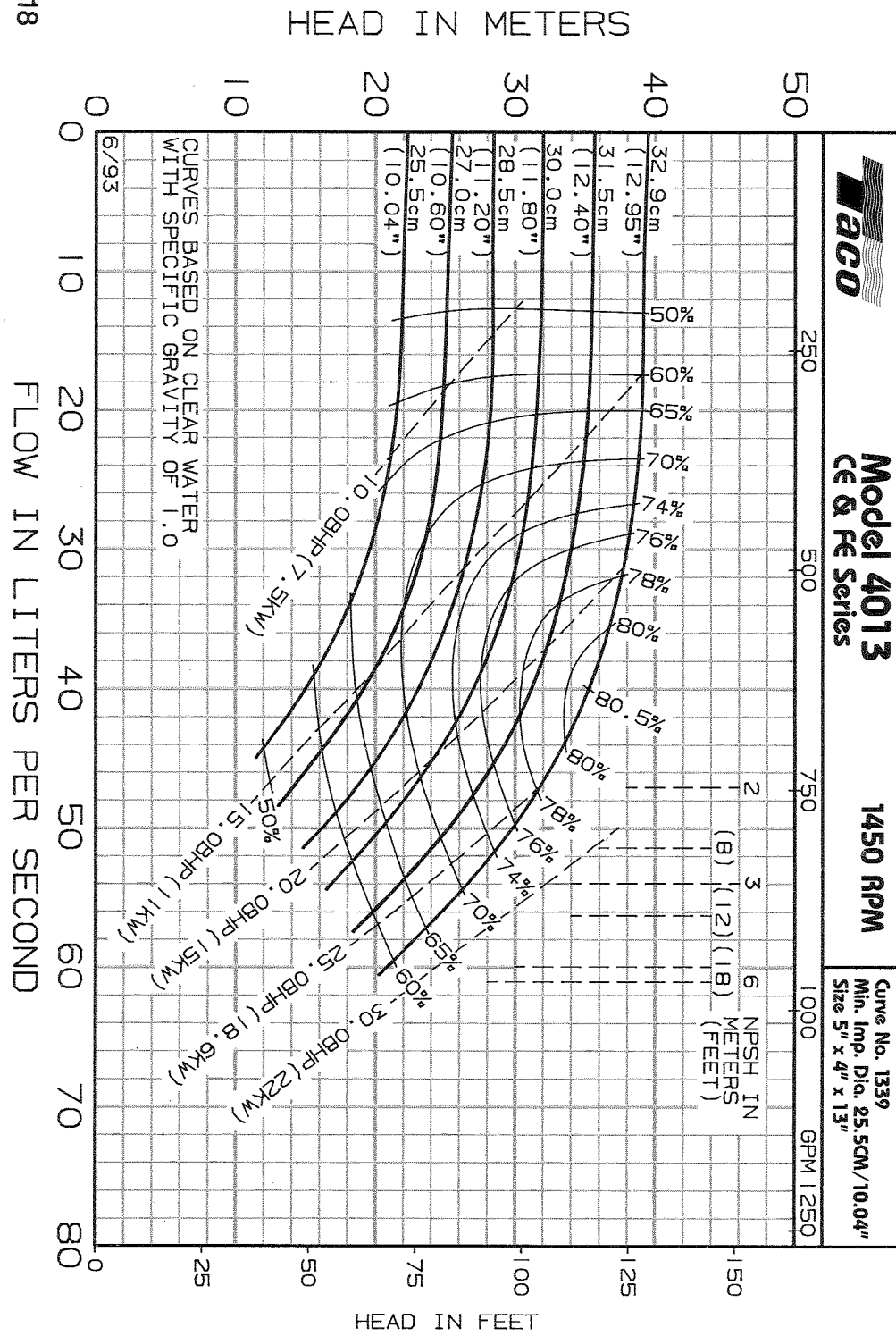
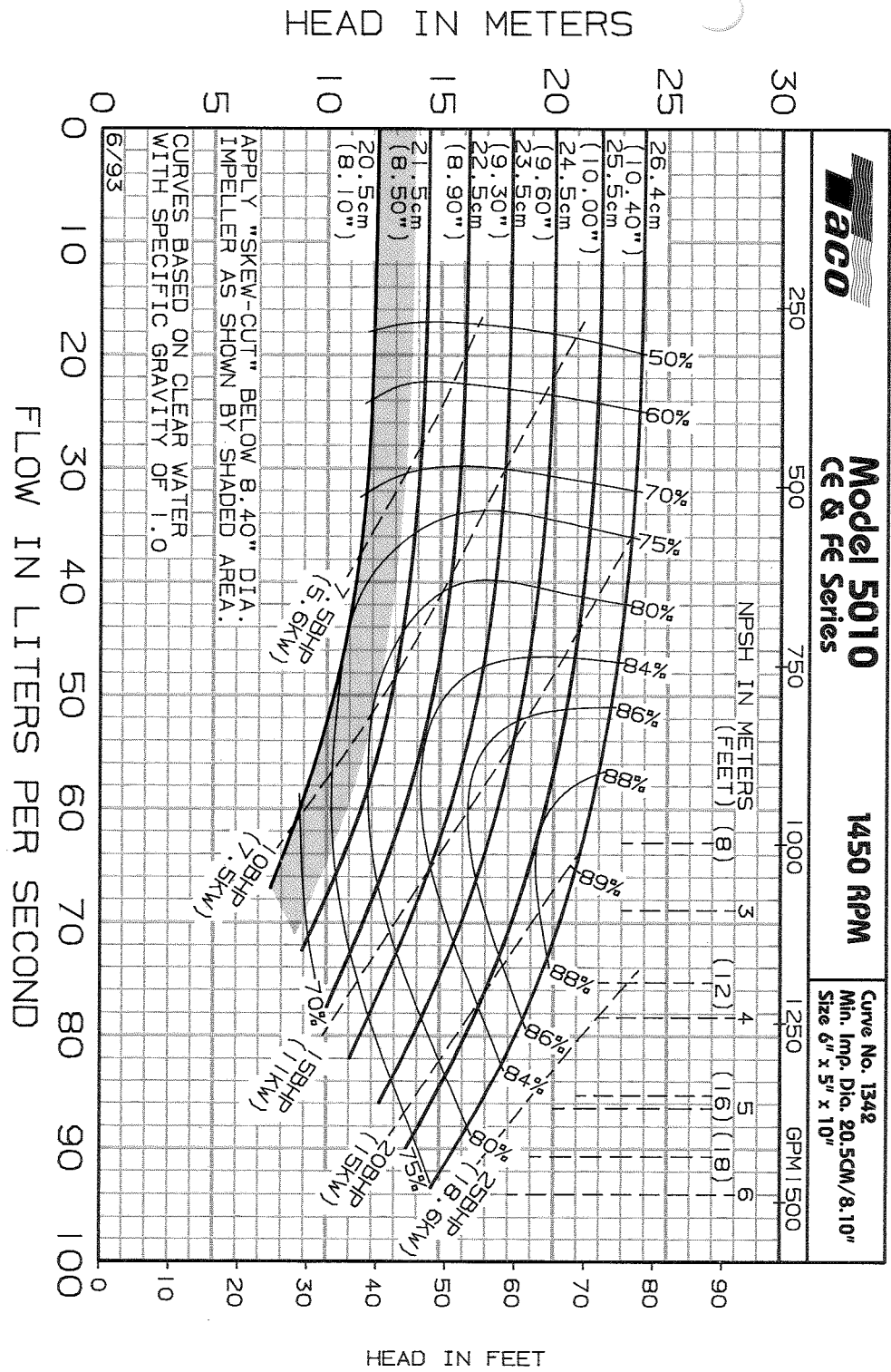
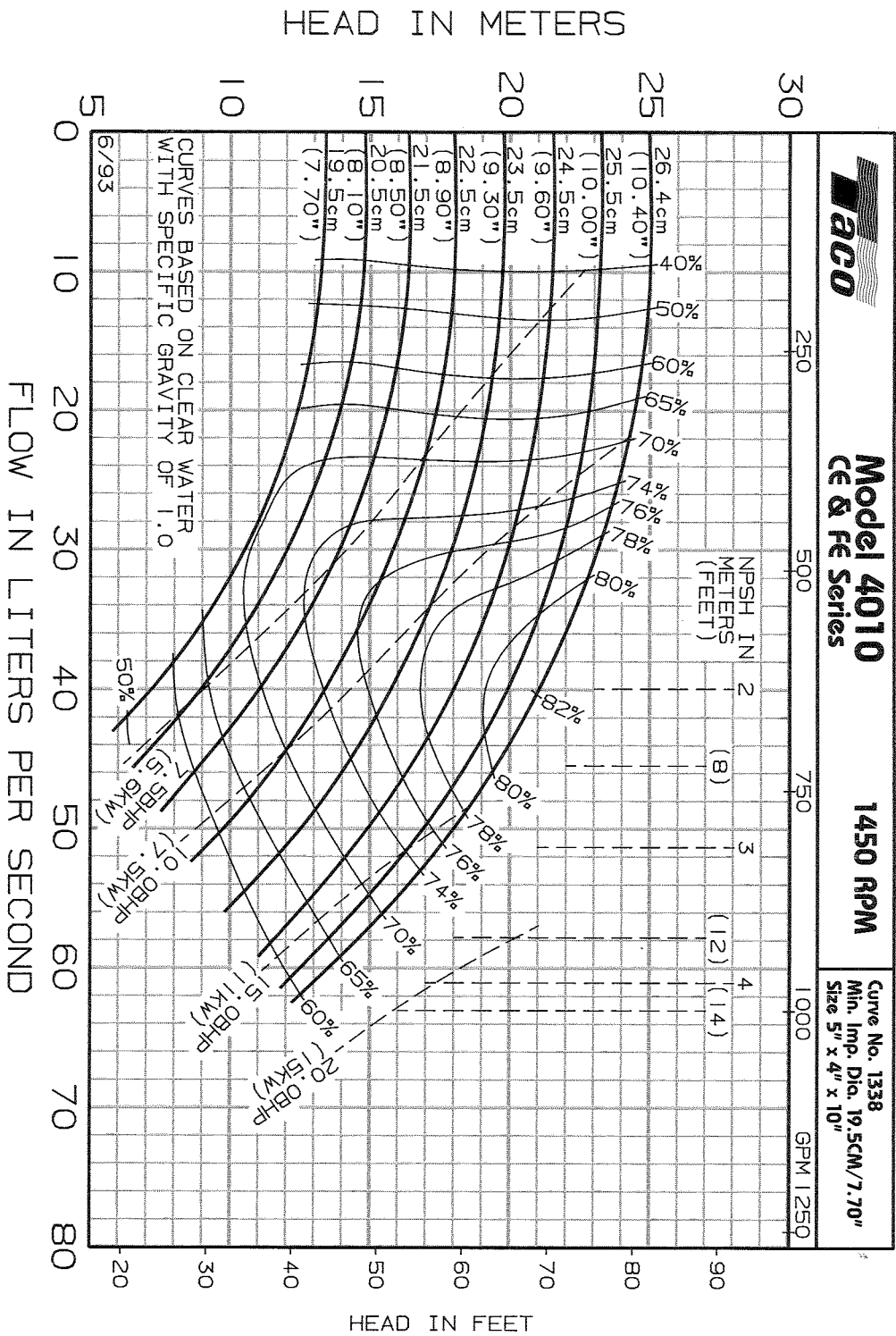


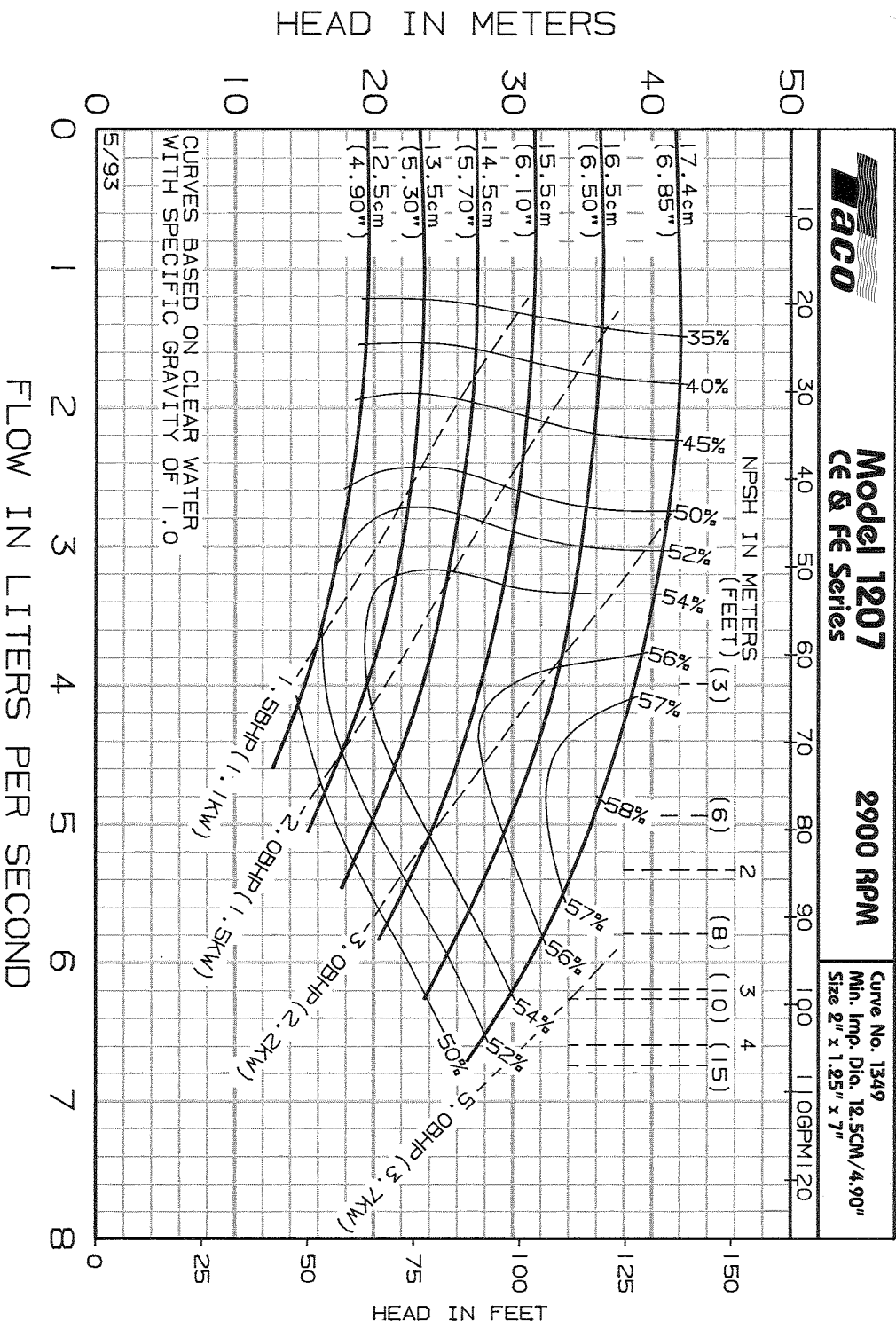
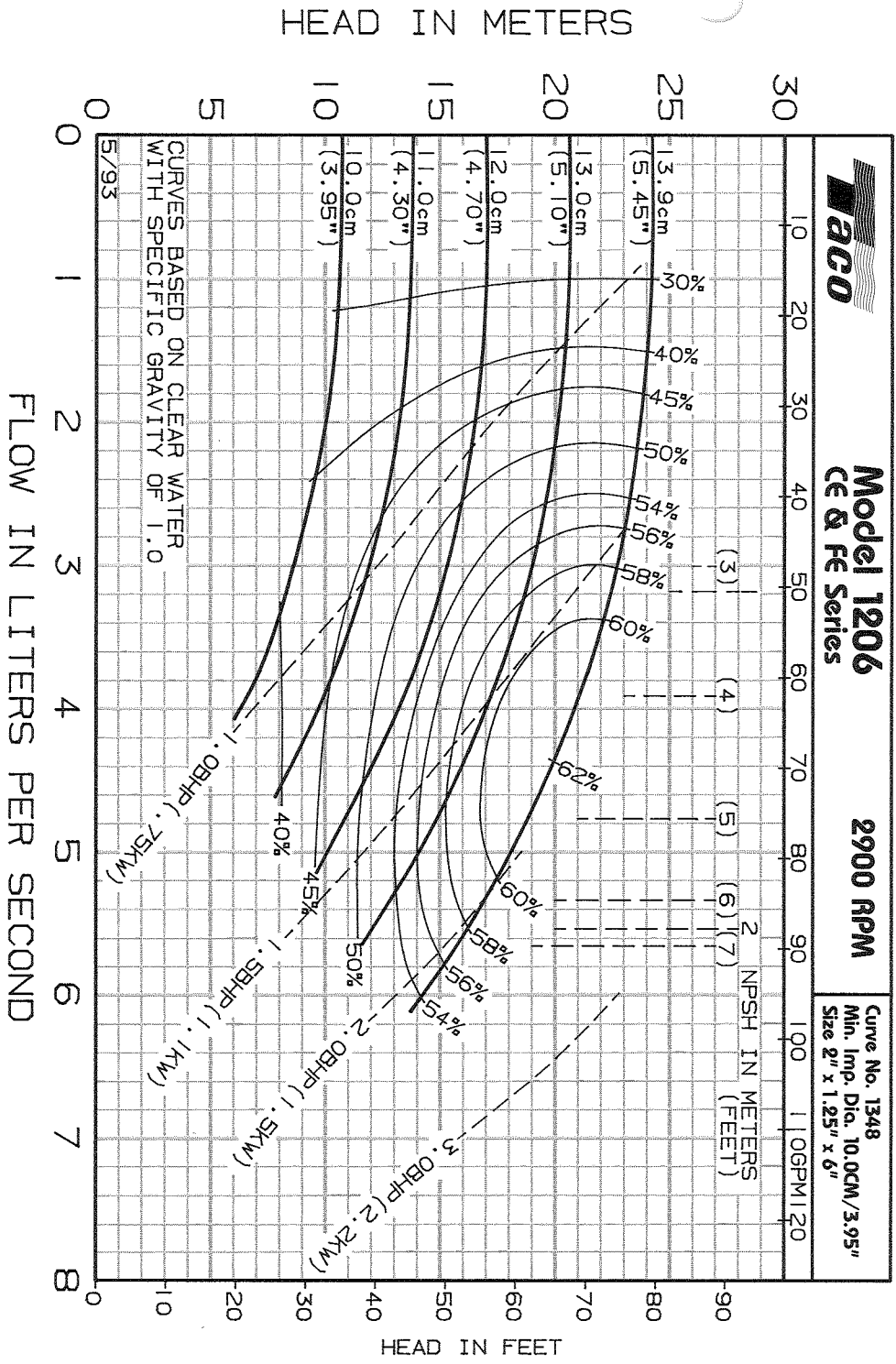
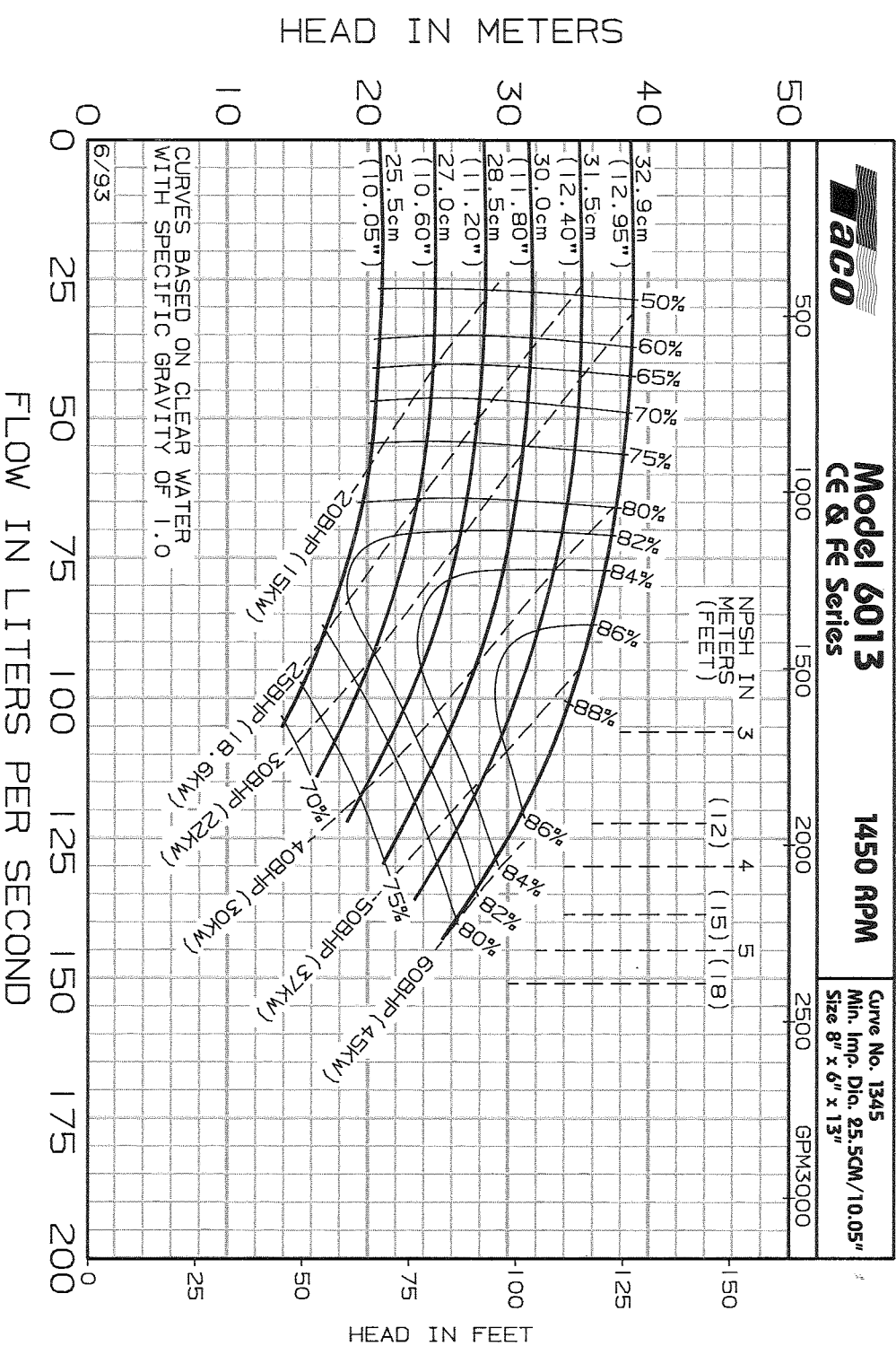


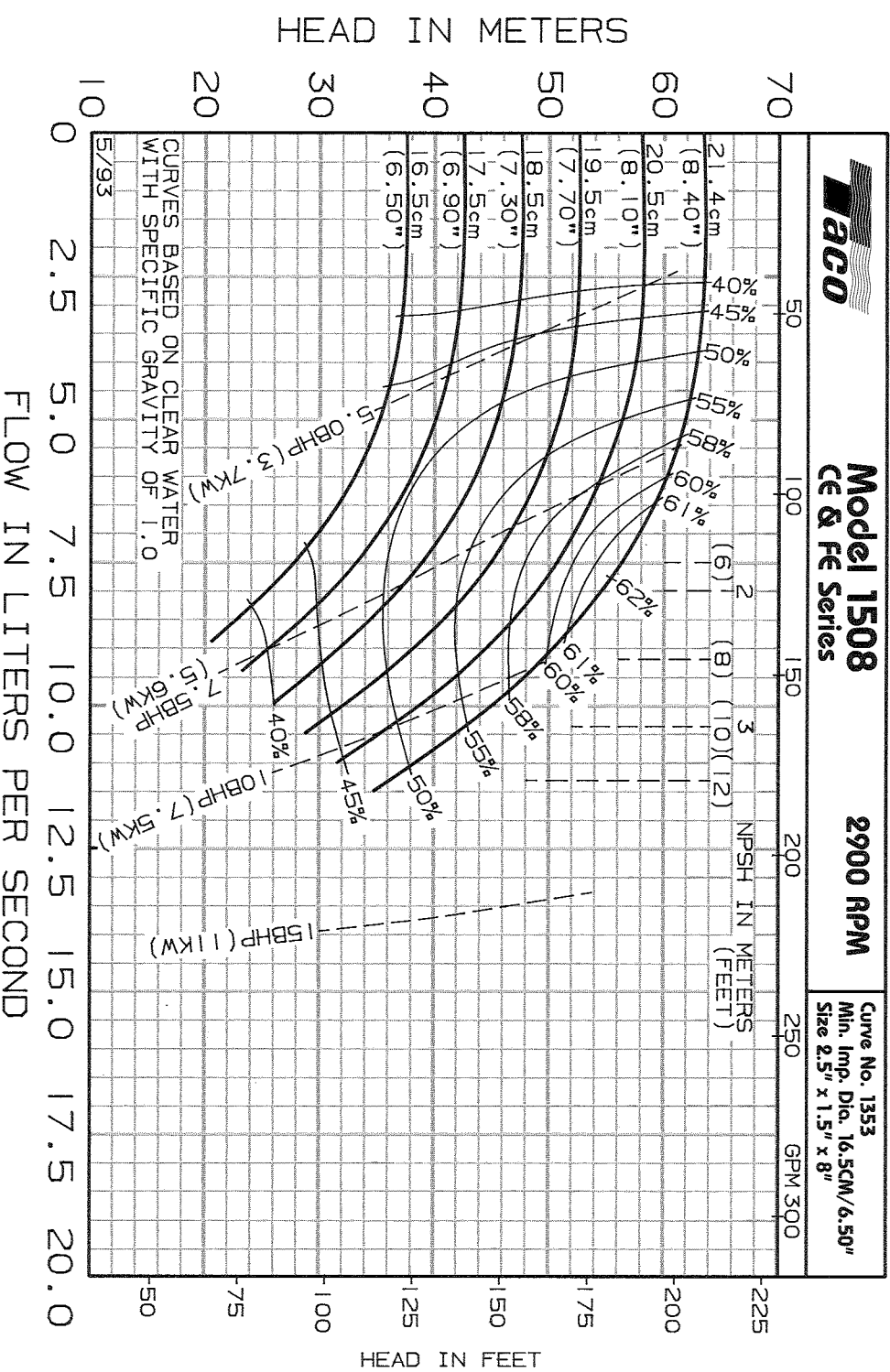
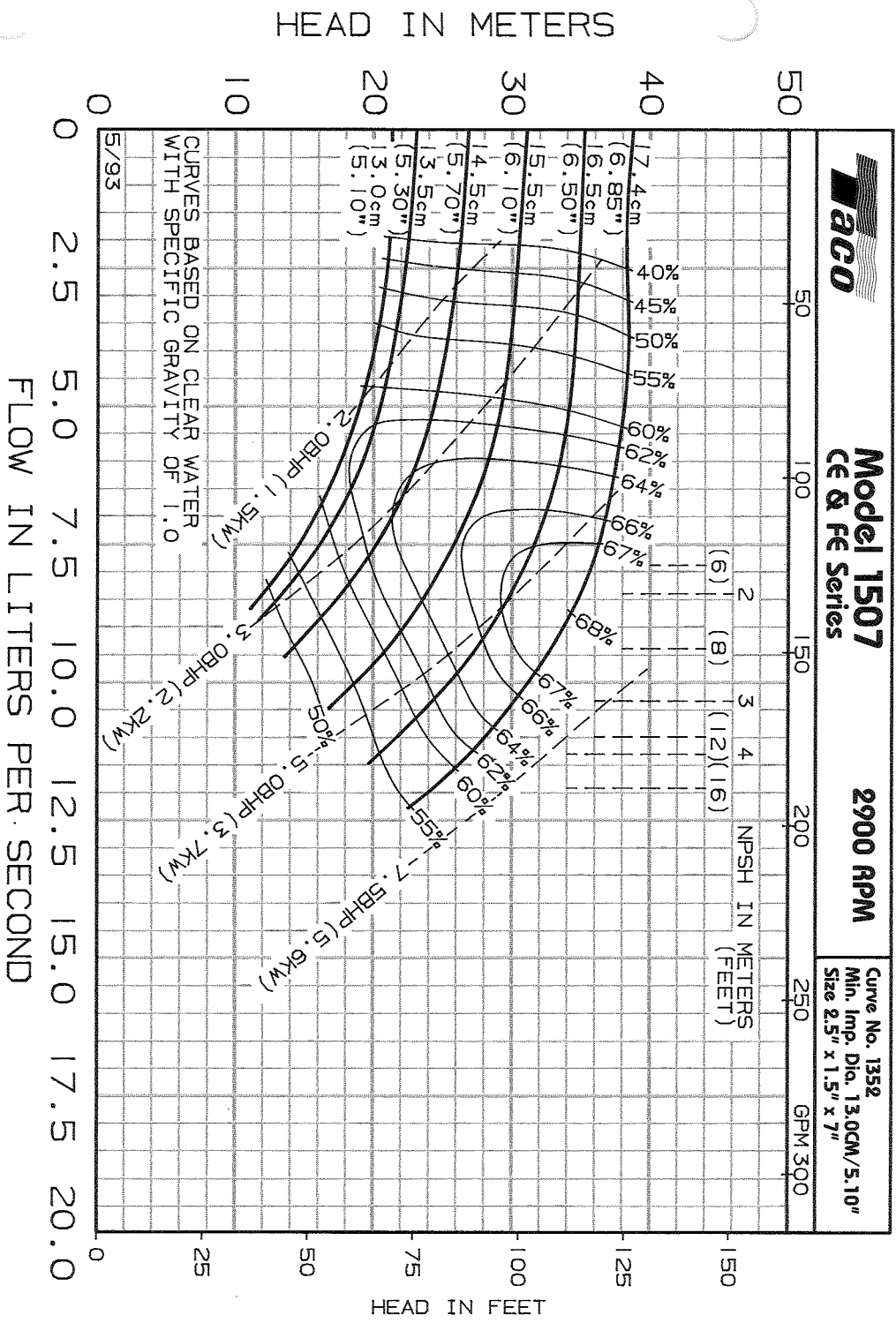
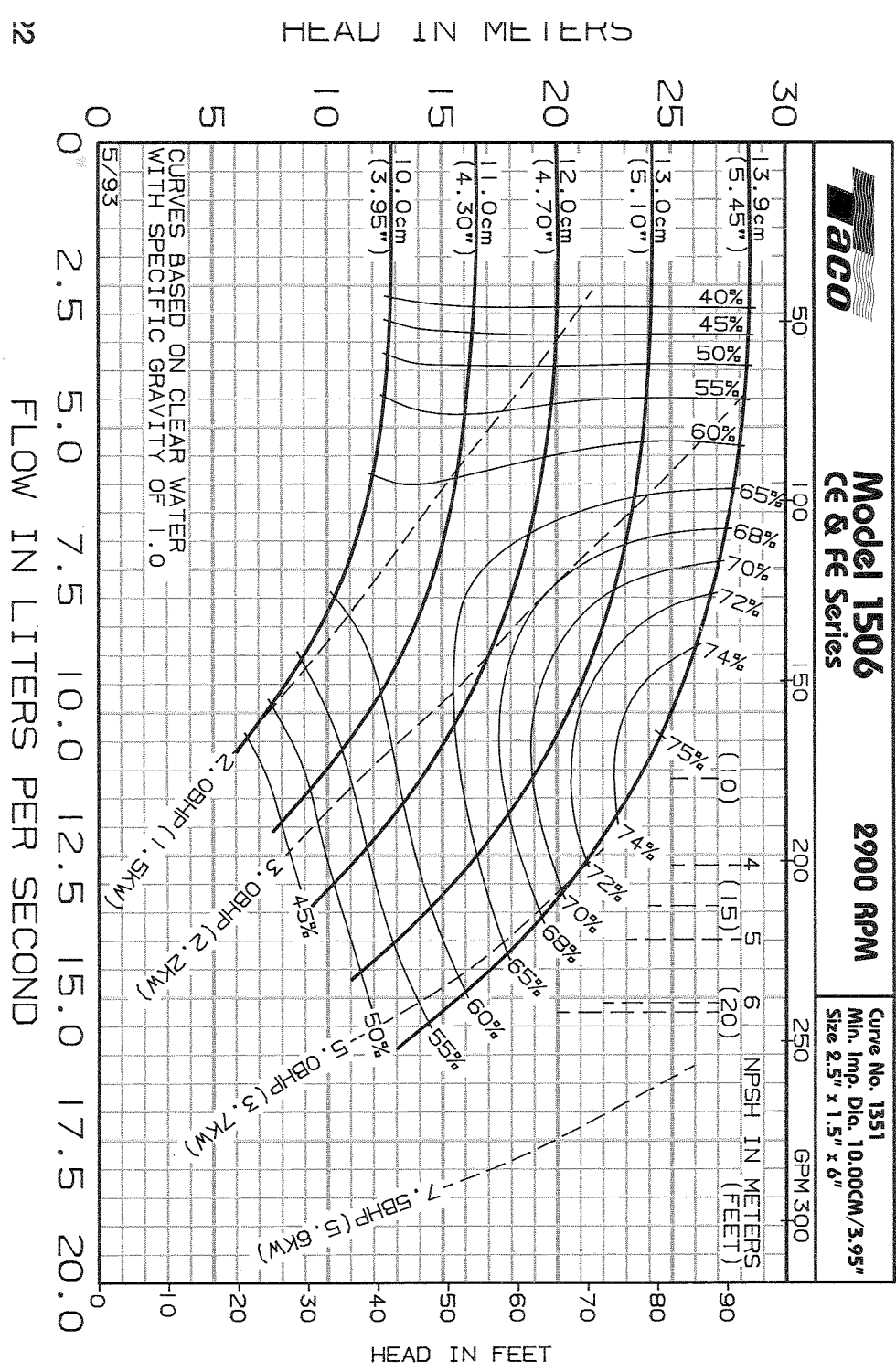
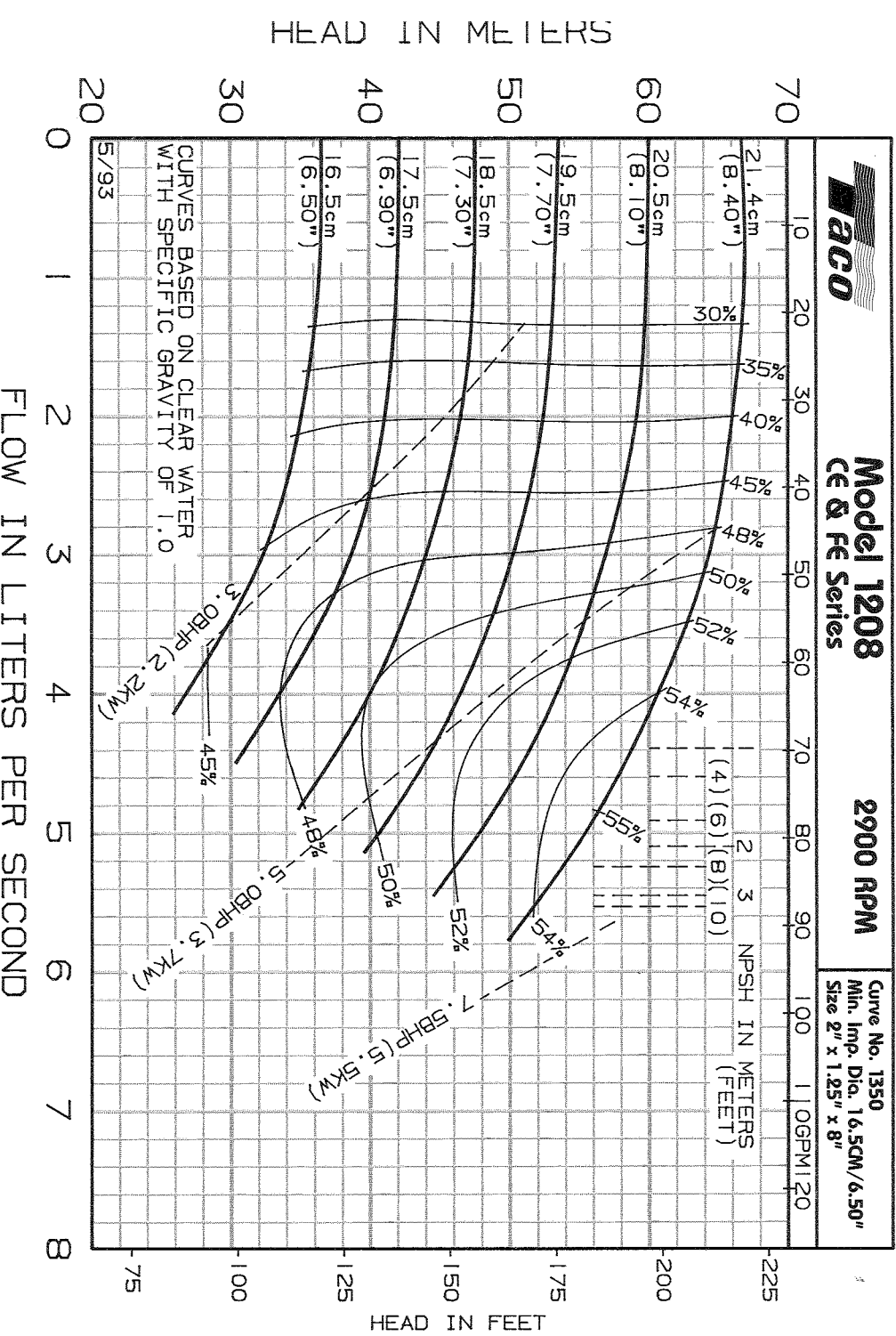


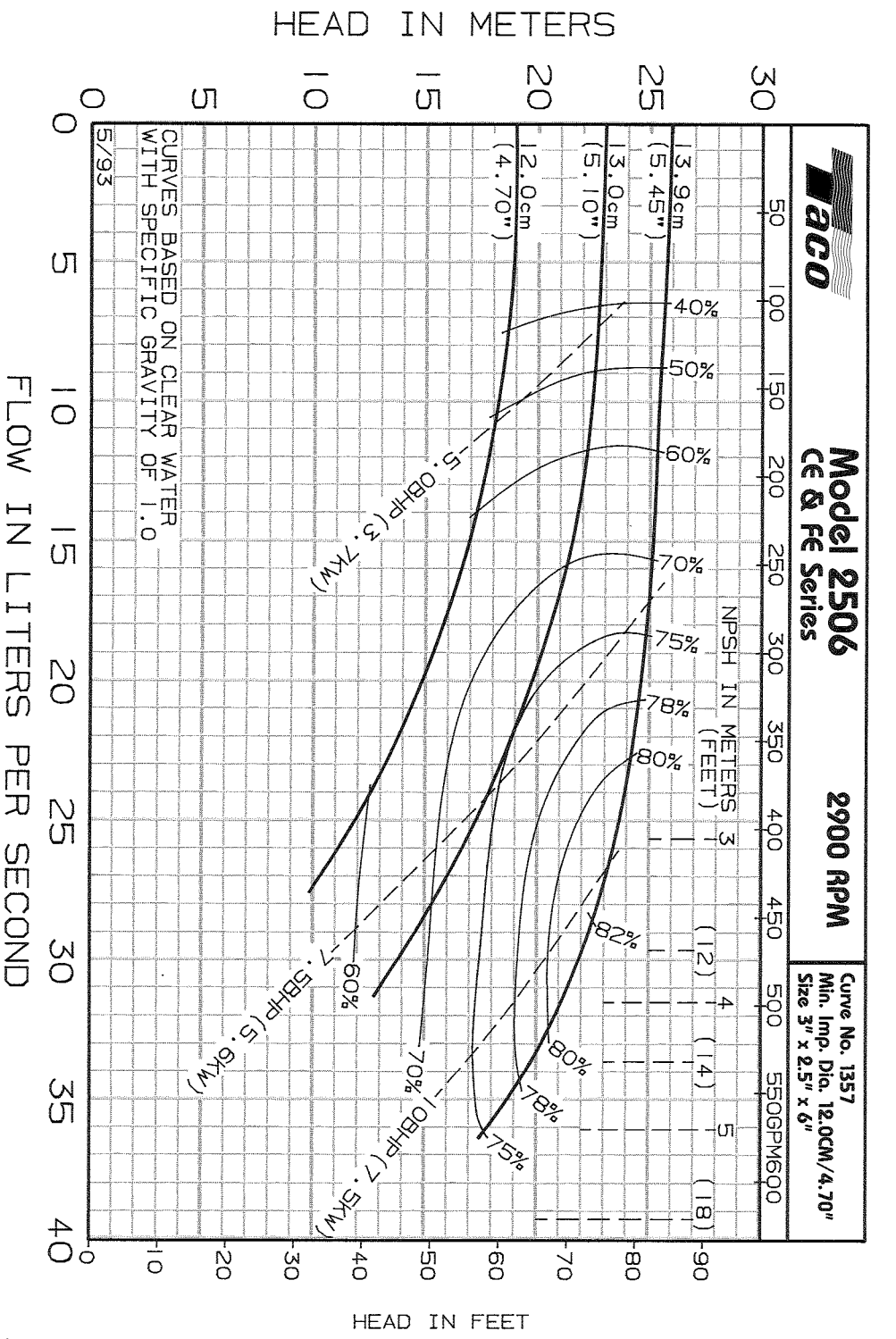
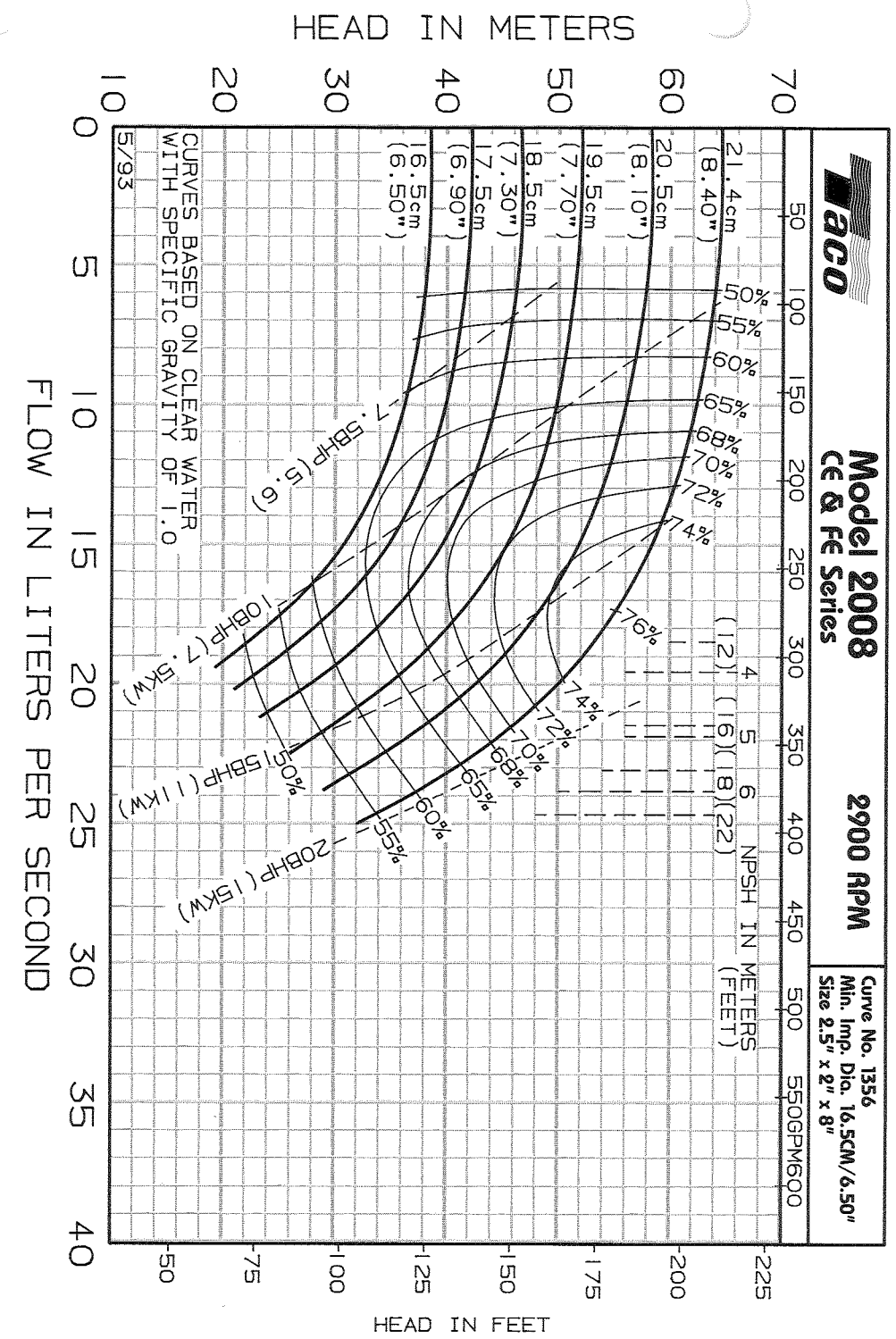
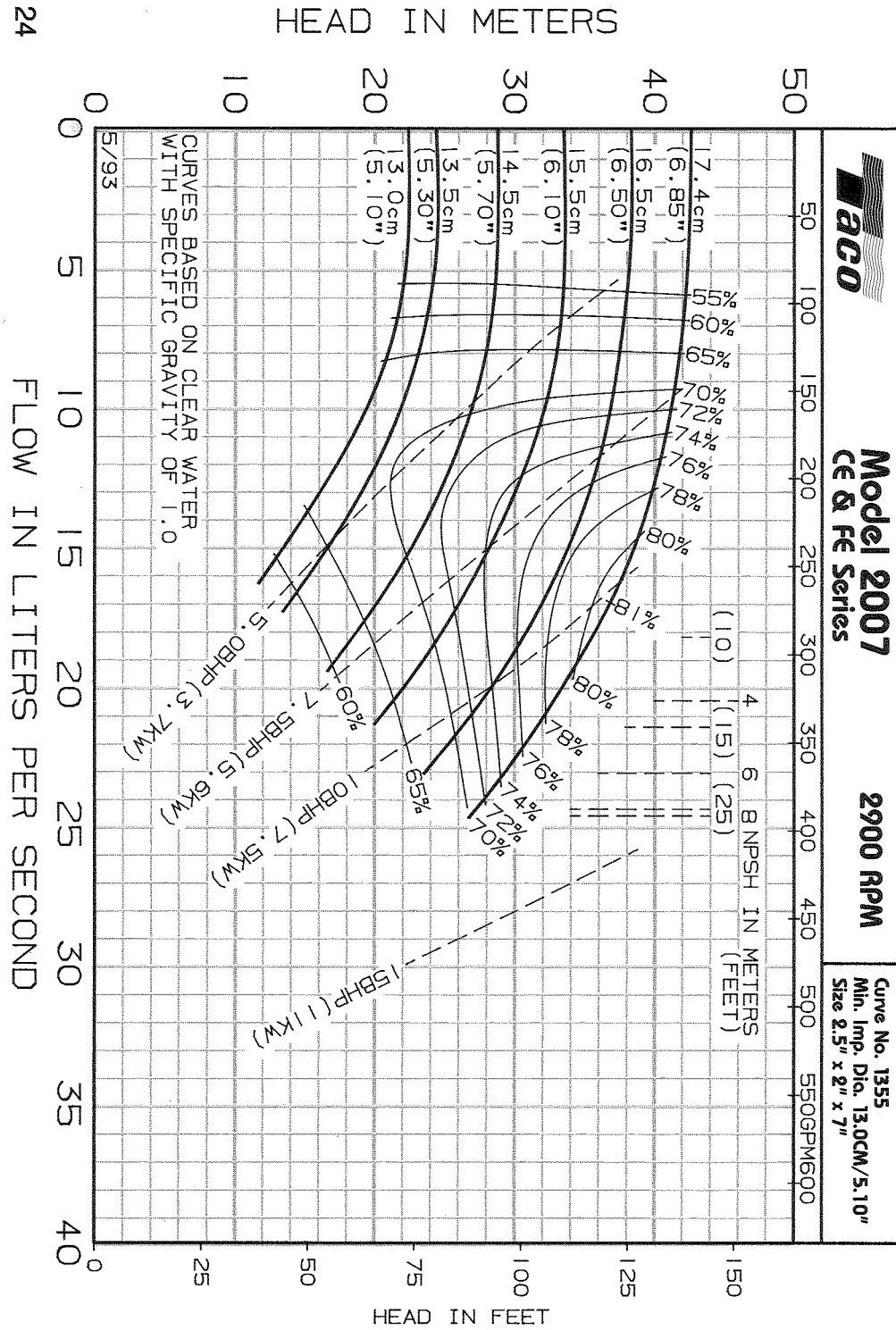
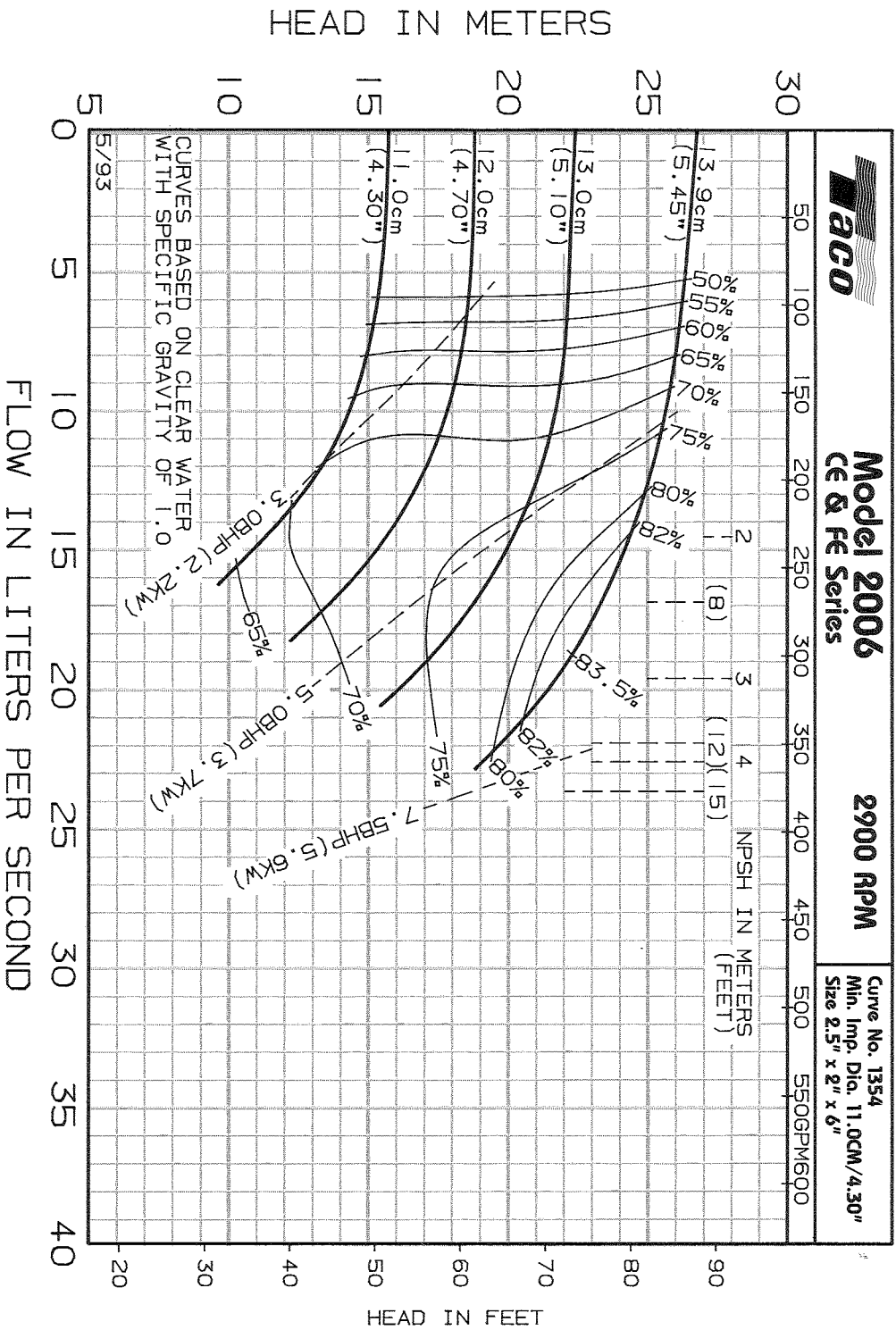


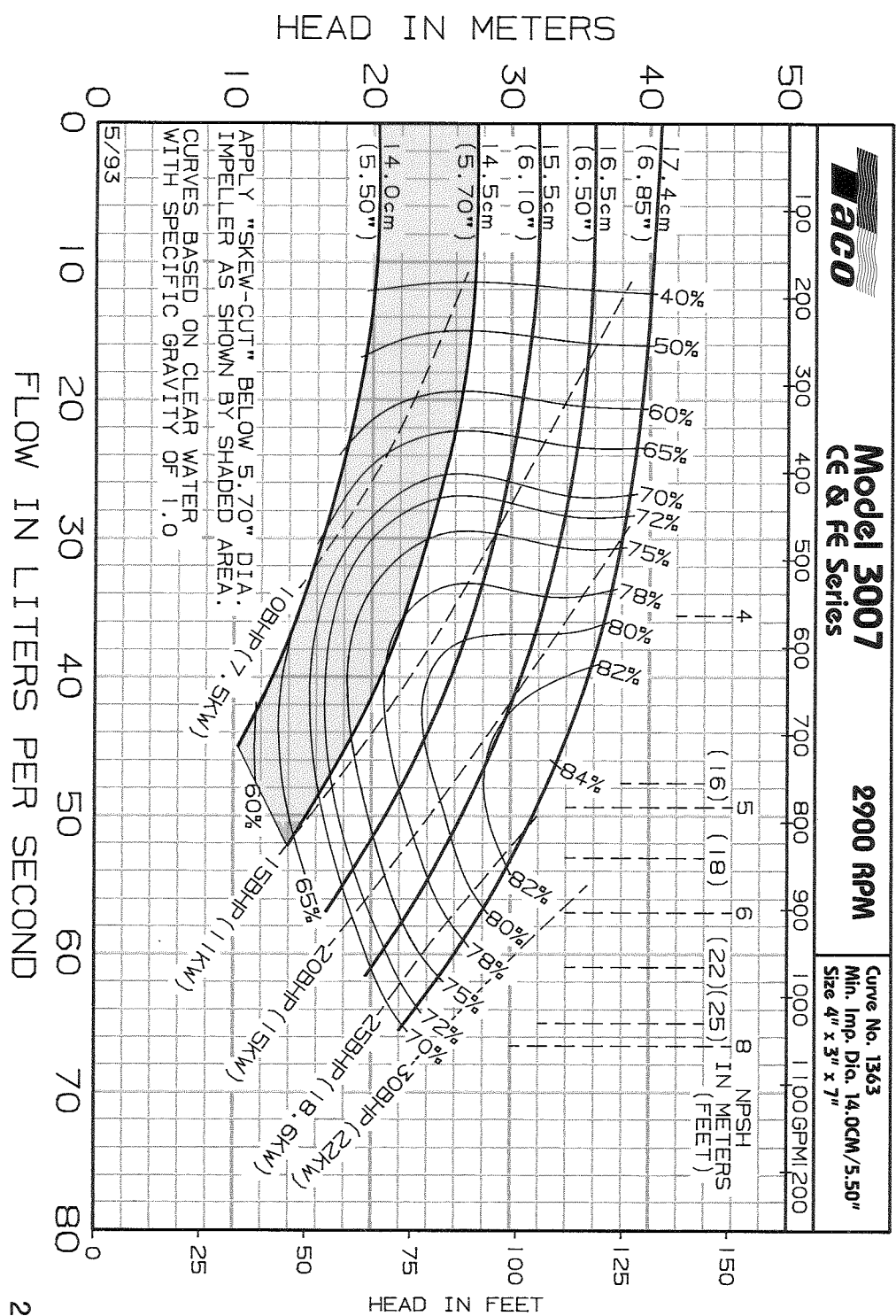
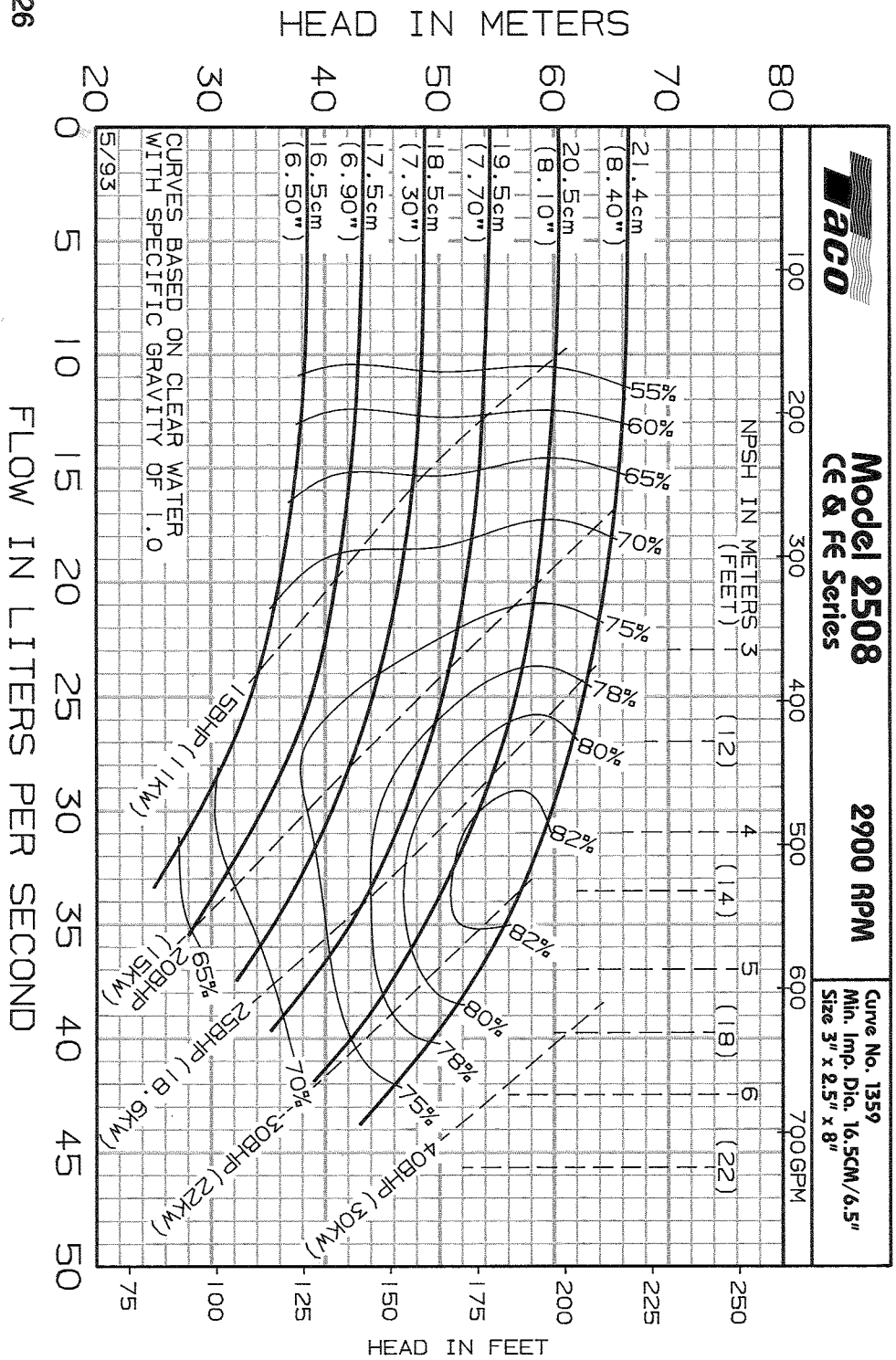
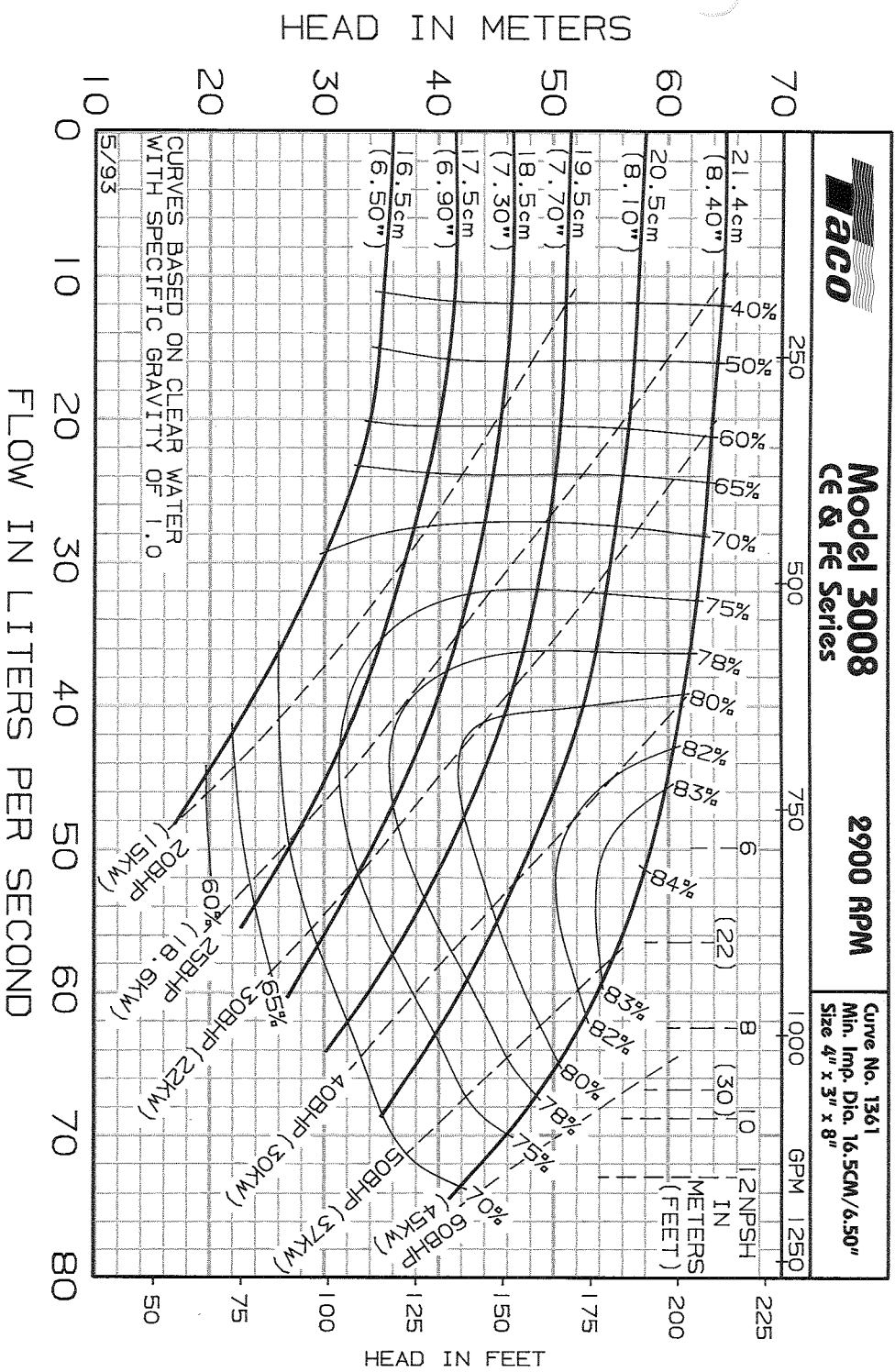
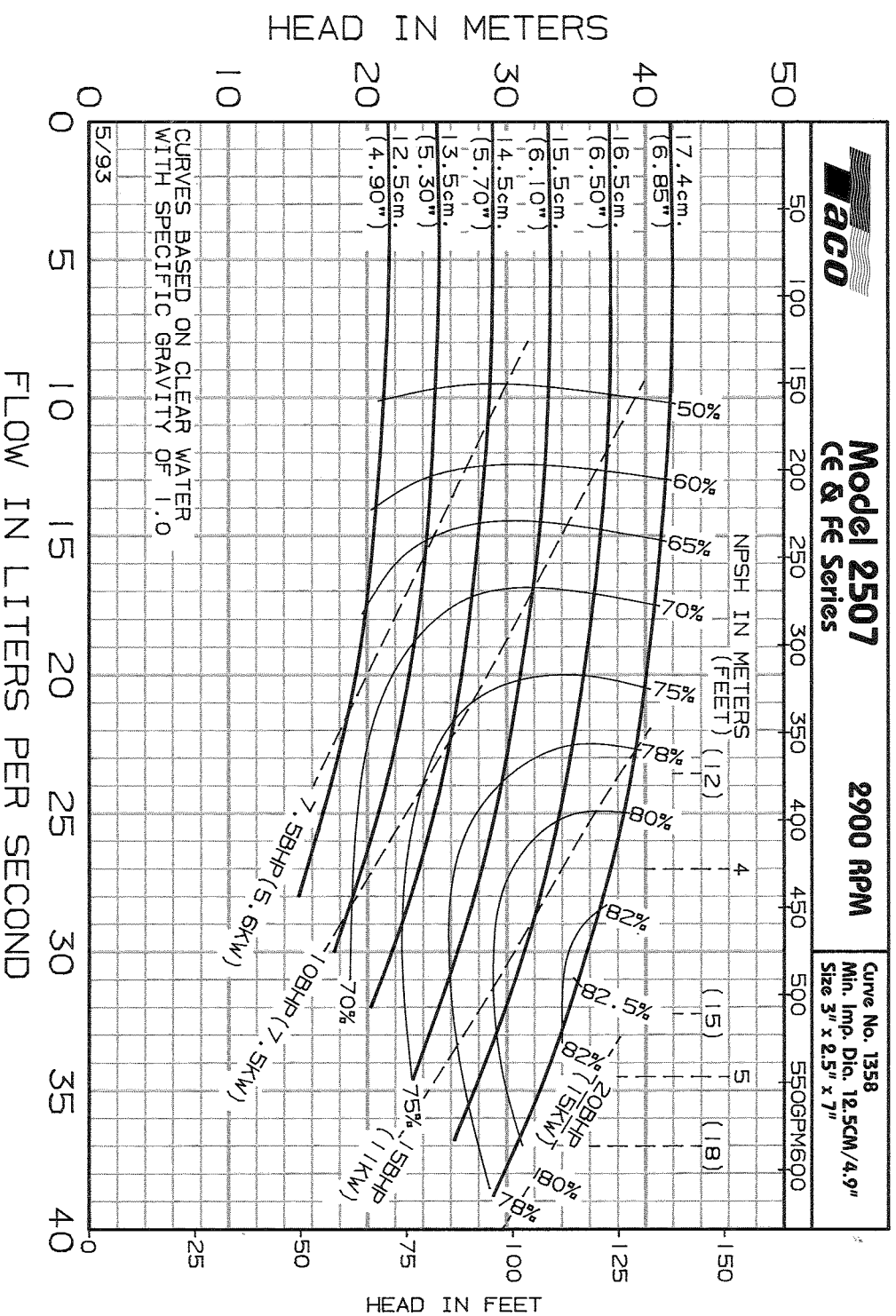














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TACO, Inc., 1160 Cranston St., Cranston, Rhode Island 02920 Telephone (401) 942-8000 Fax: (401) 942-2360

TACO, (Canada) Limited, 6180 Ordan Drive Mississauga, Ontario L5T 2B3 Telephone (905) 564-9422 Fax: (905) 564-9436