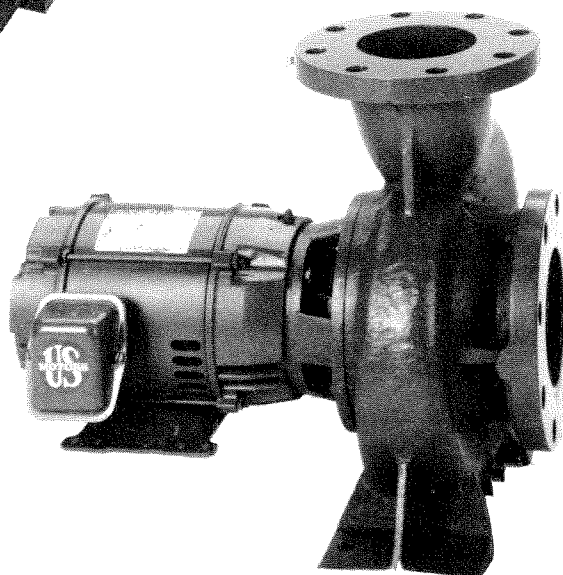
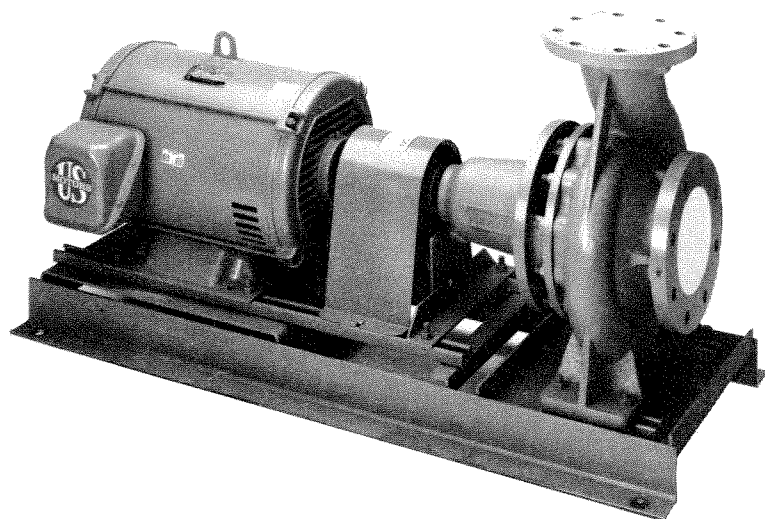




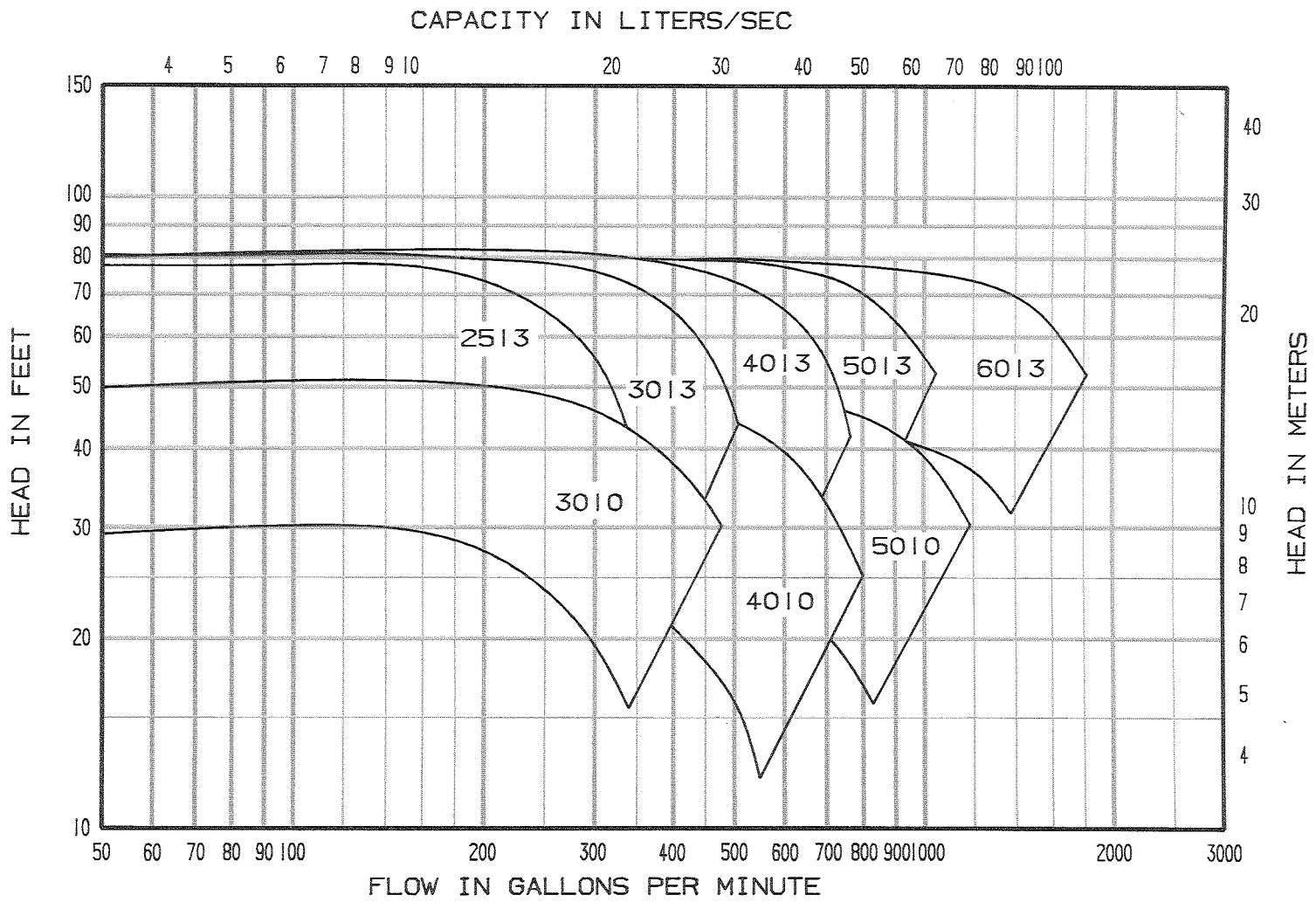
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PERFORMANCE CURVES

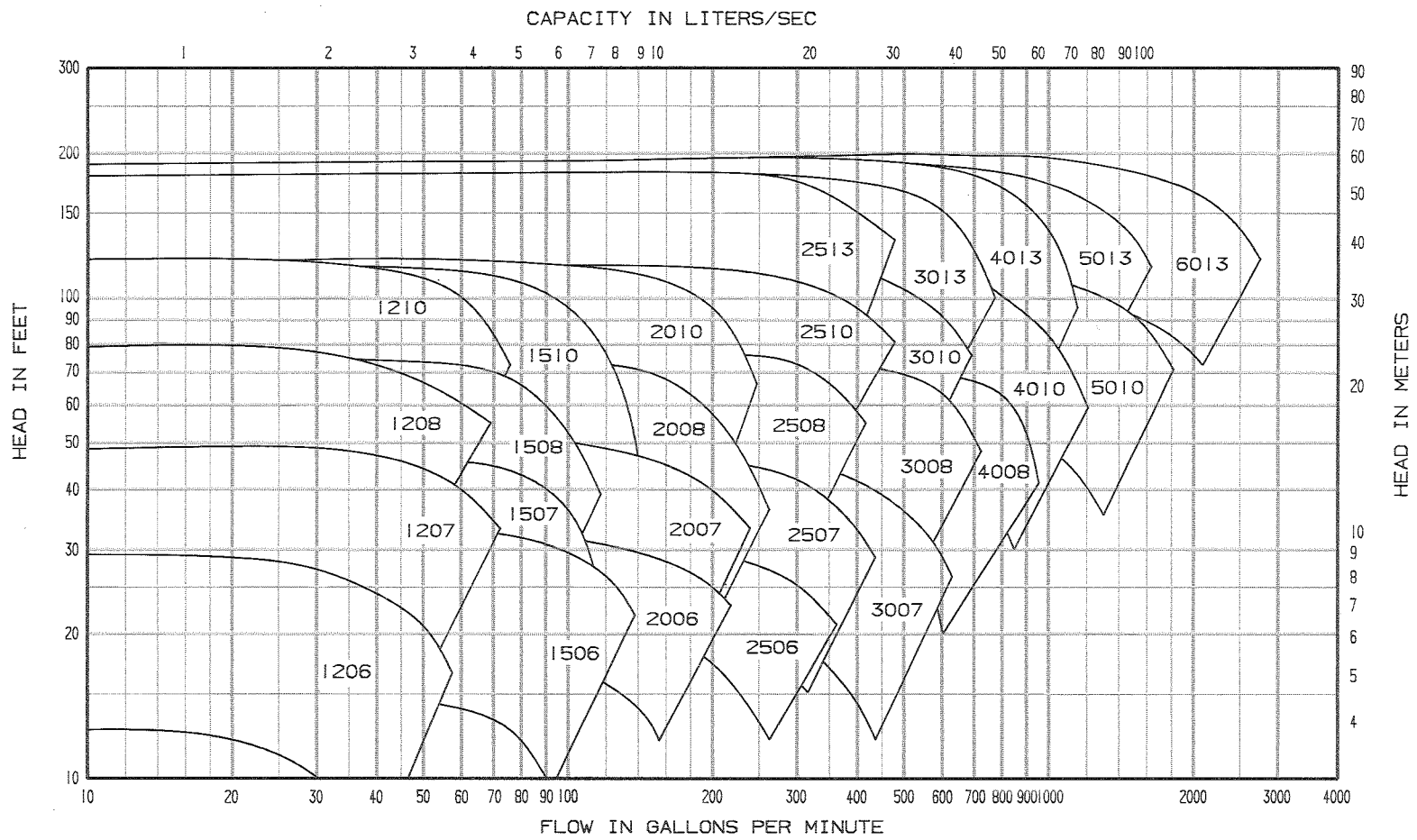


"CE" Close-Coupled End Suction Pump

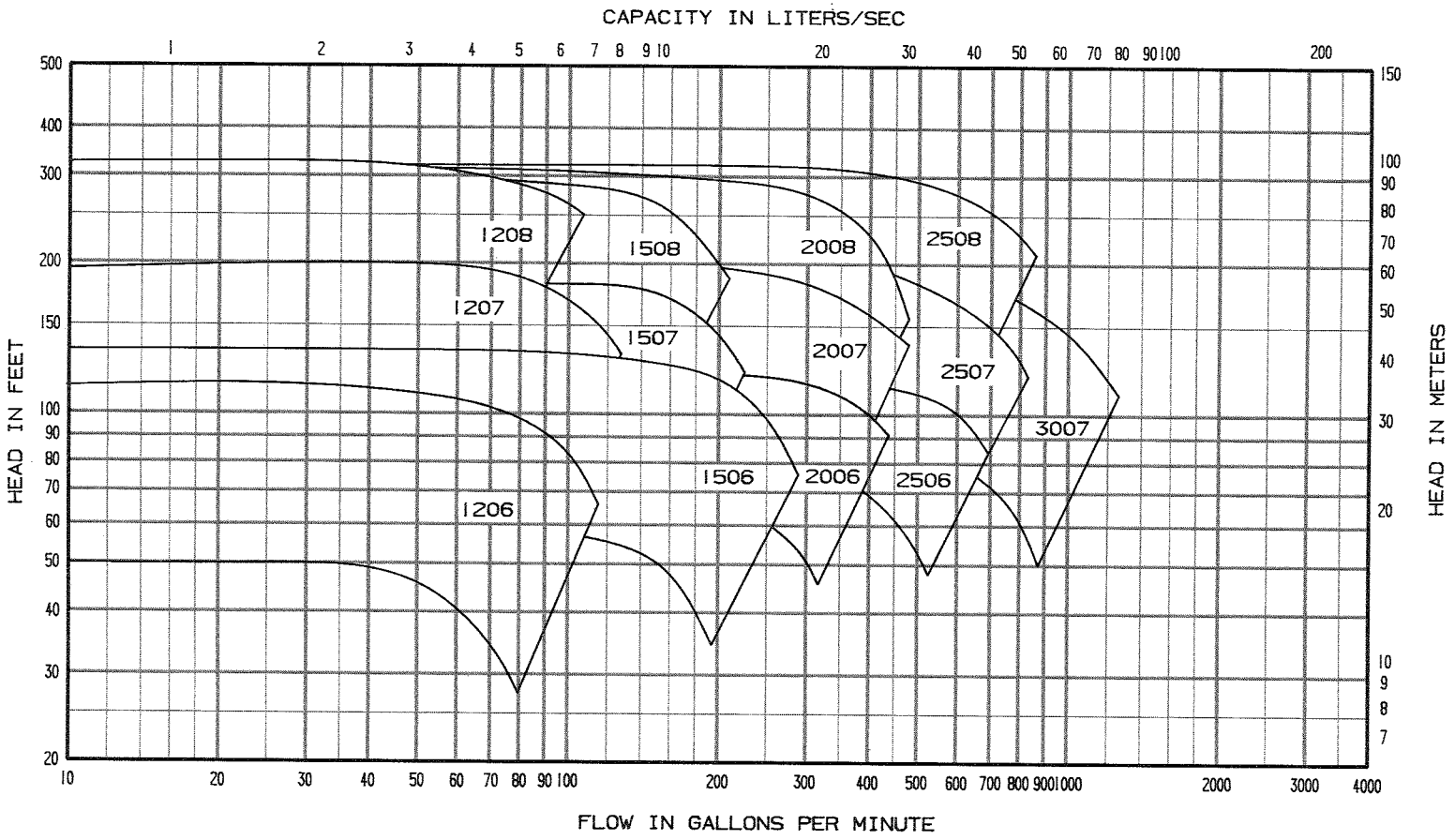
"FE" Frame Mounted End Suction Pump



**Close-Coupled End Suction Pump
Frame Mounted End Suction Pump
Quick Selection Curve
1160 RPM**



**Close-Coupled End Suction Pump
Frame Mounted End Suction Pump
Quick Selection Curve
1760 RPM**



**Close-Coupled End Suction Pump
 Frame Mounted End Suction Pump
 Quick Selection Curve
 3500 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	.28
1760 to 1160			
1460 to 1760	1.21	1.46	.58
1760 to 1460			
2900 to 3500	1.19	1.42	.58
3500 to 2900			

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.

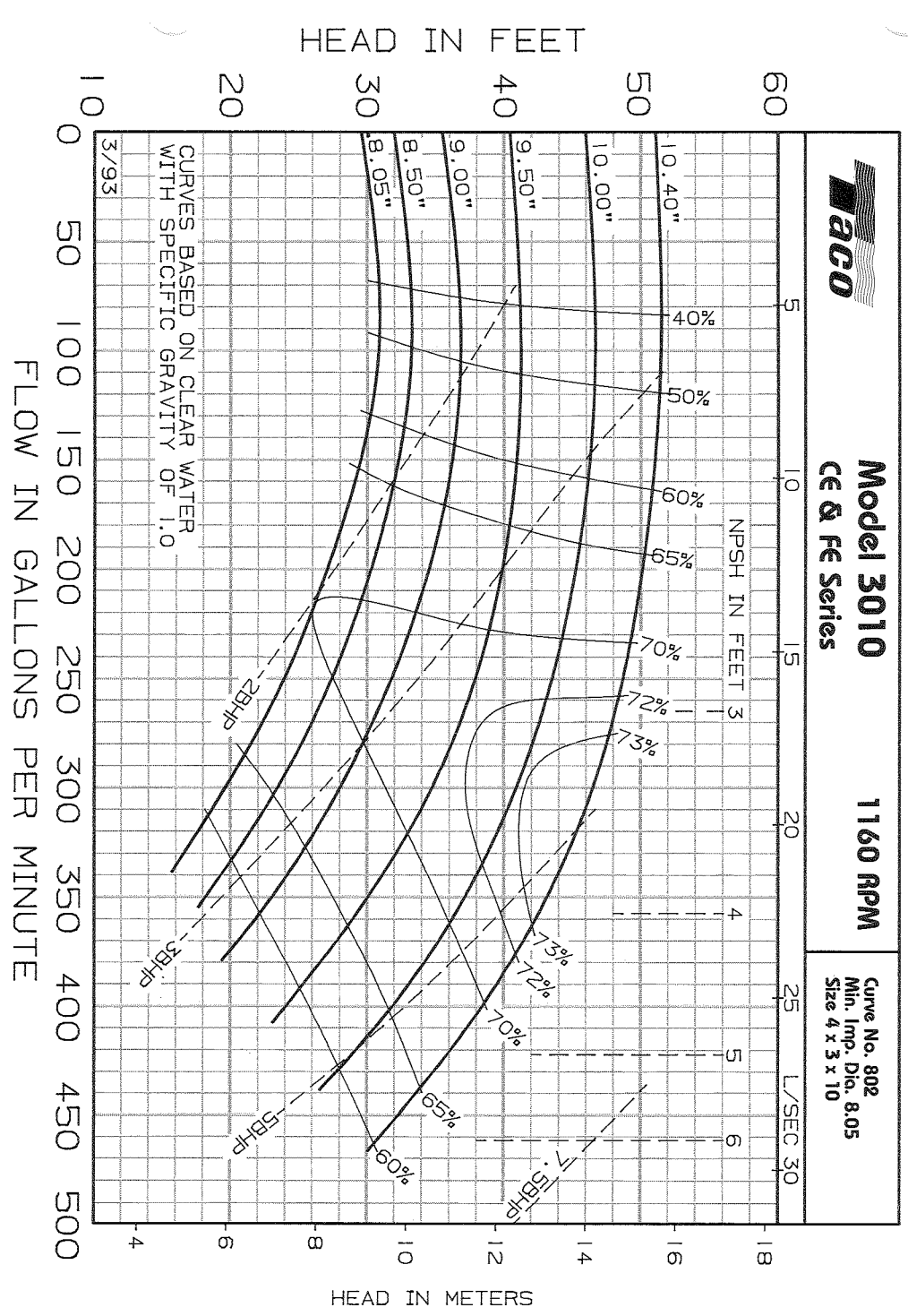
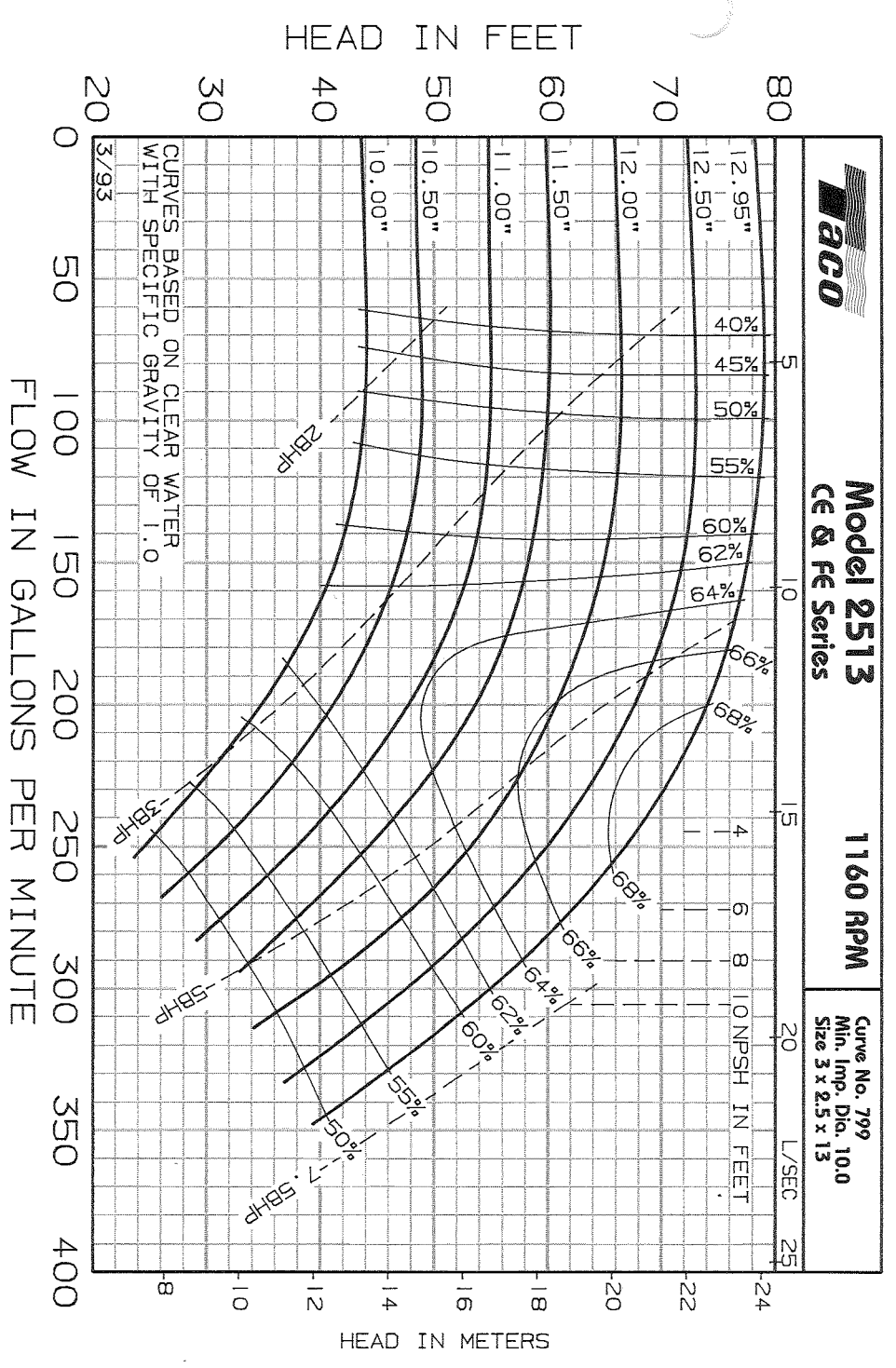
PUMP FORMULAS

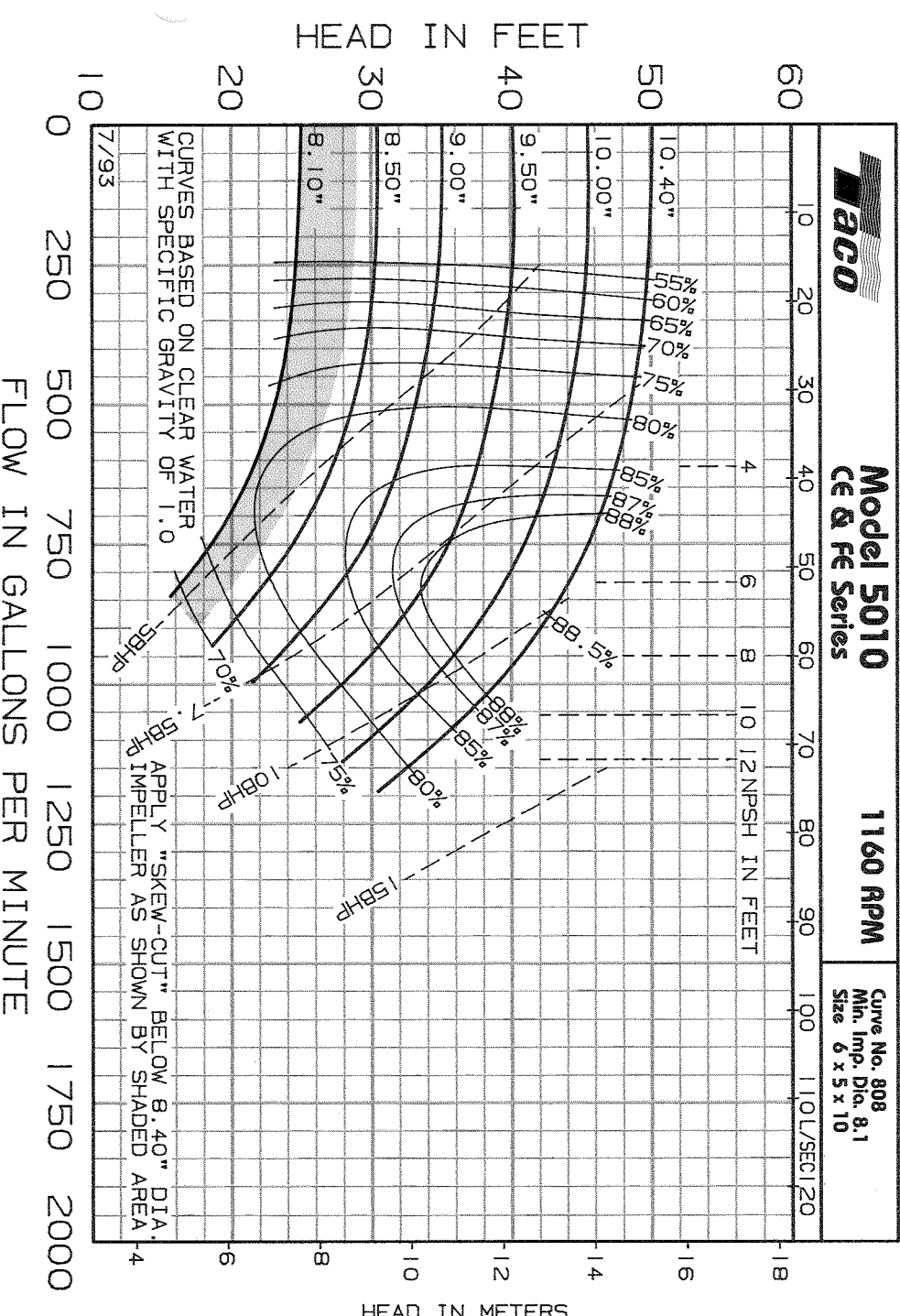
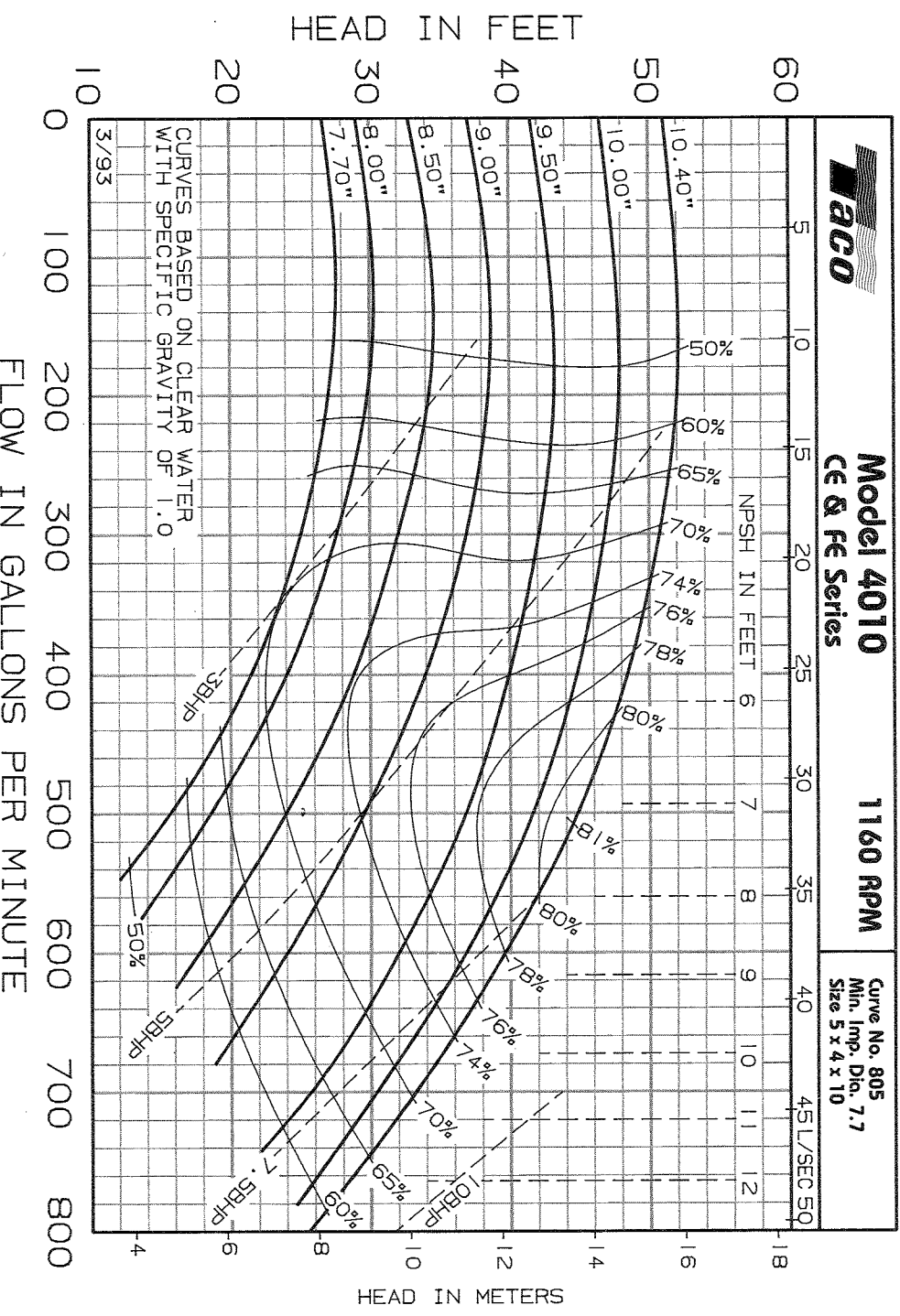
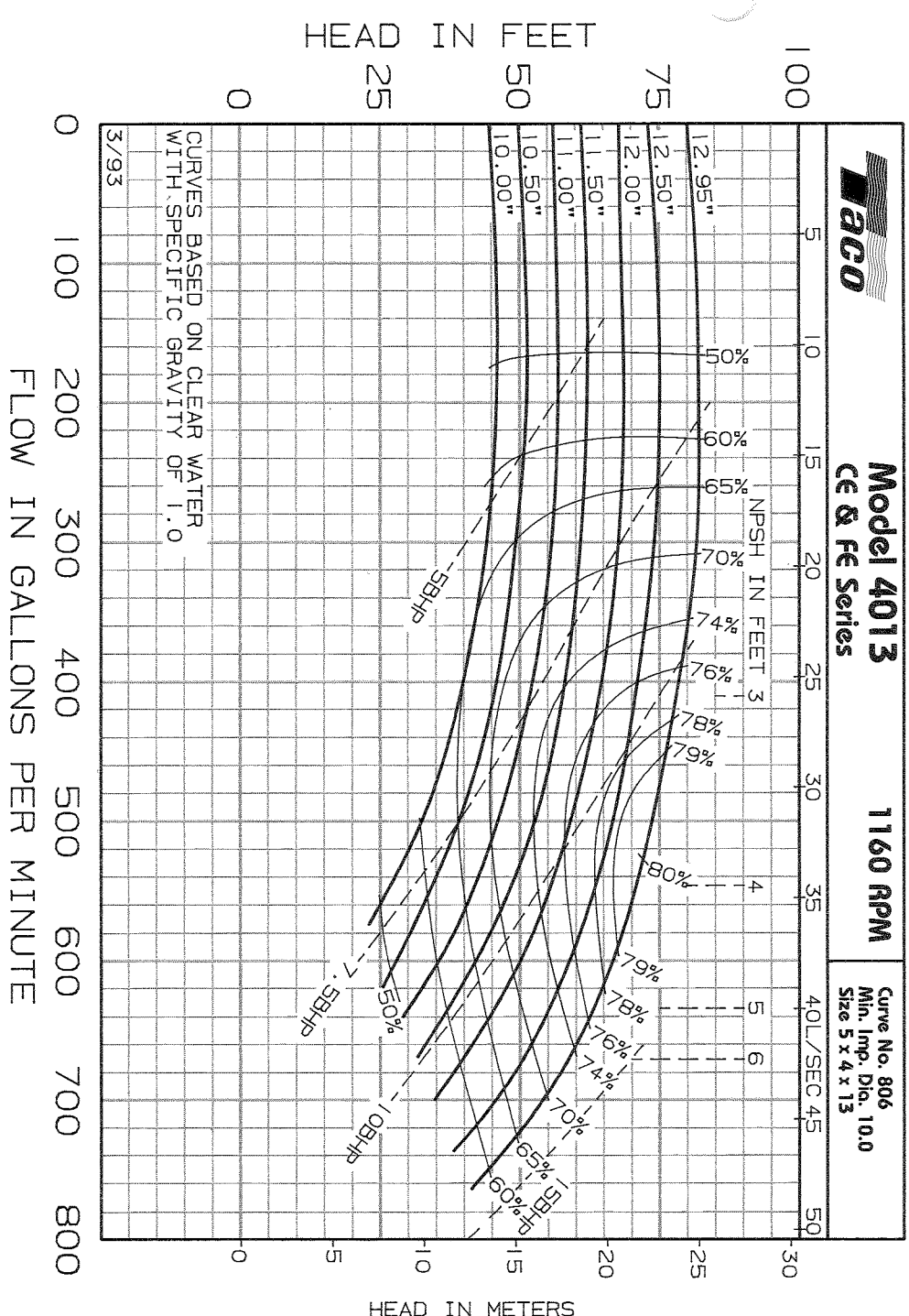
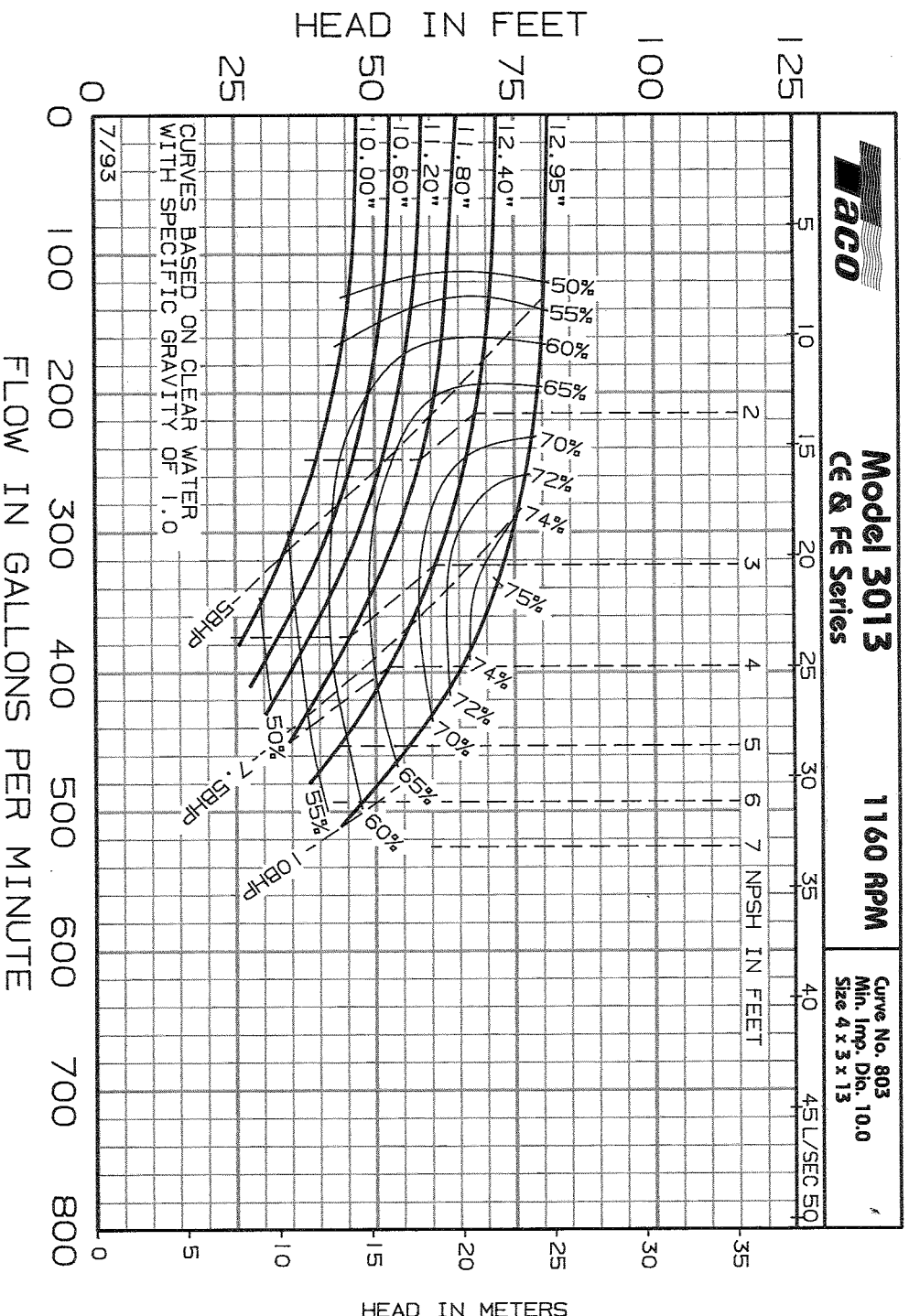
Pressure (PSI)	=	Head (Feet) x Specific Gravity
		2.31
Head (Feet)	=	Pressure (PSI) x 2.31
		Specific Gravity
Vacuum (Inches of Mercury)	=	Dynamic Suction Lift (Feet) x .883 x Specific Gravity
Horsepower (Brake)	=	GPM x Head (Feet) x Specific Gravity
		3960 x Pump Efficiency
Horsepower (Water)	=	GPM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

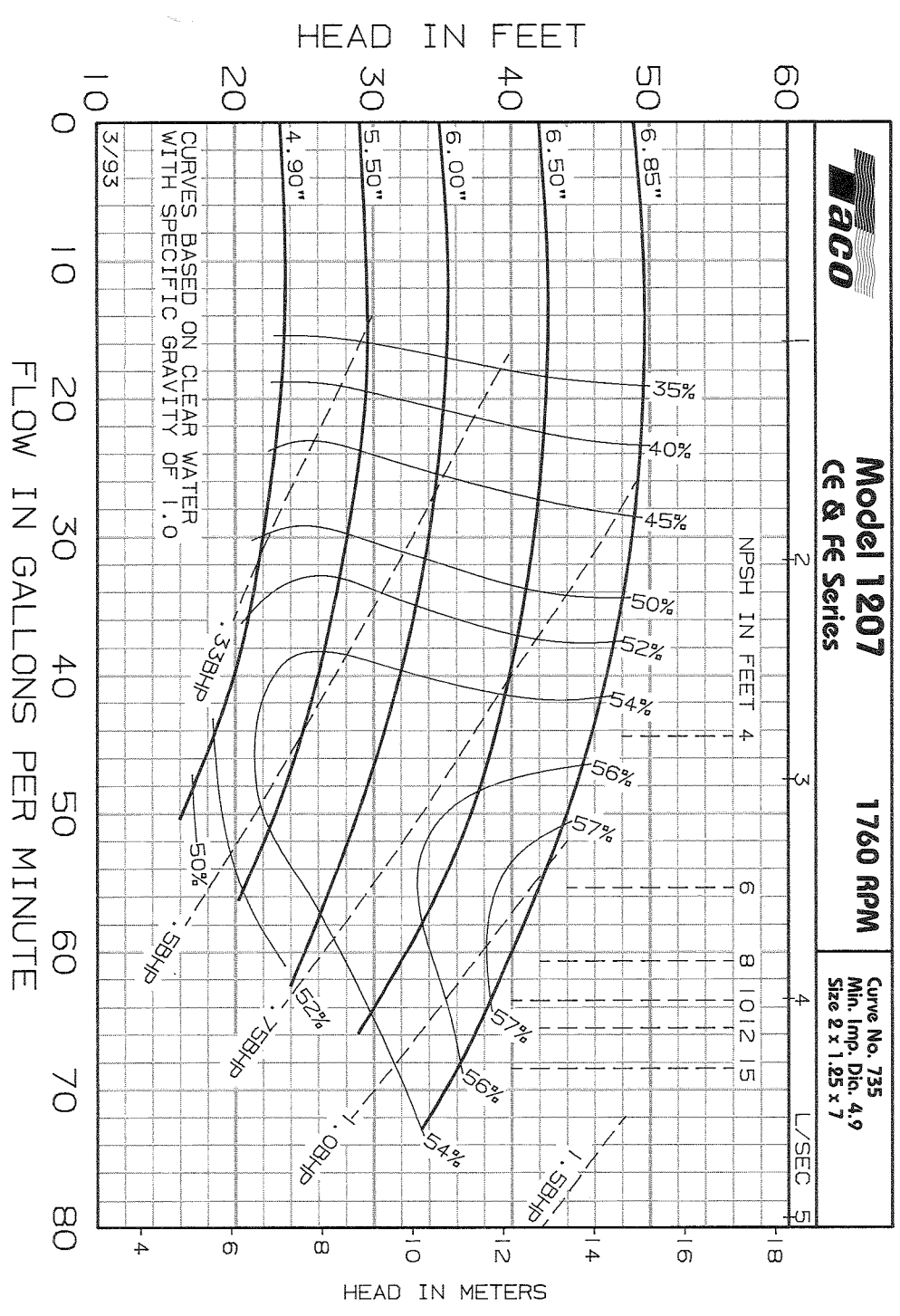
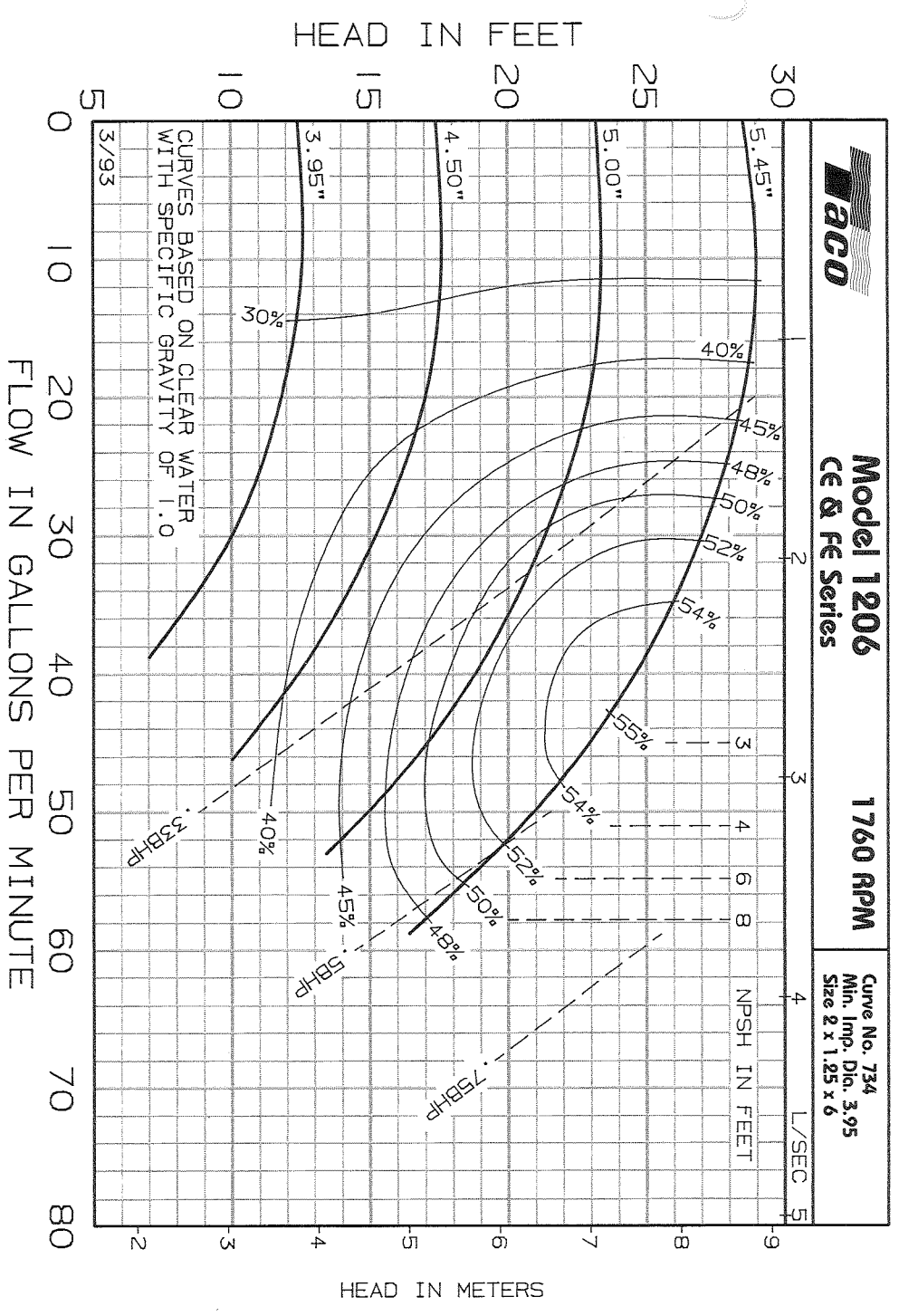
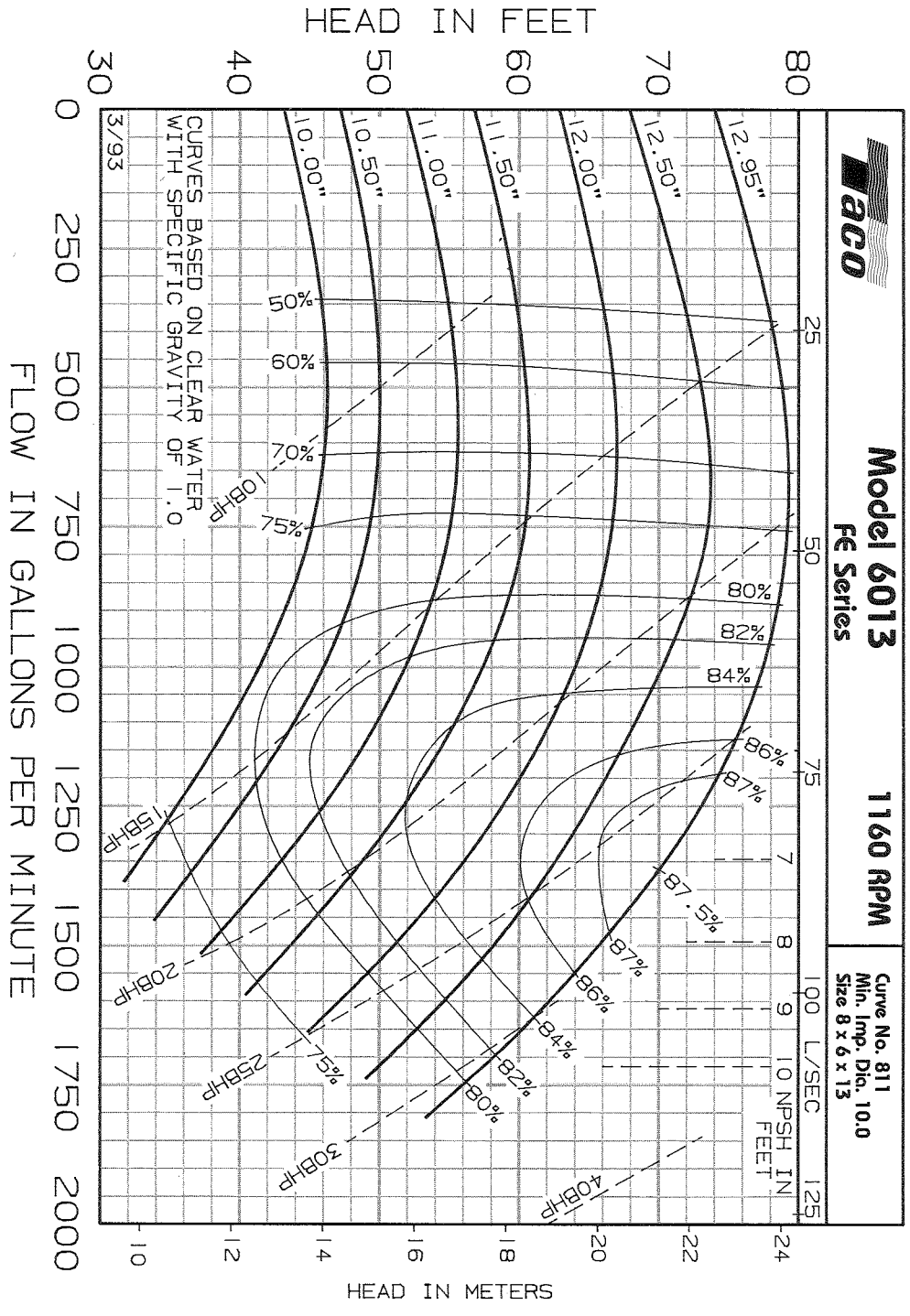
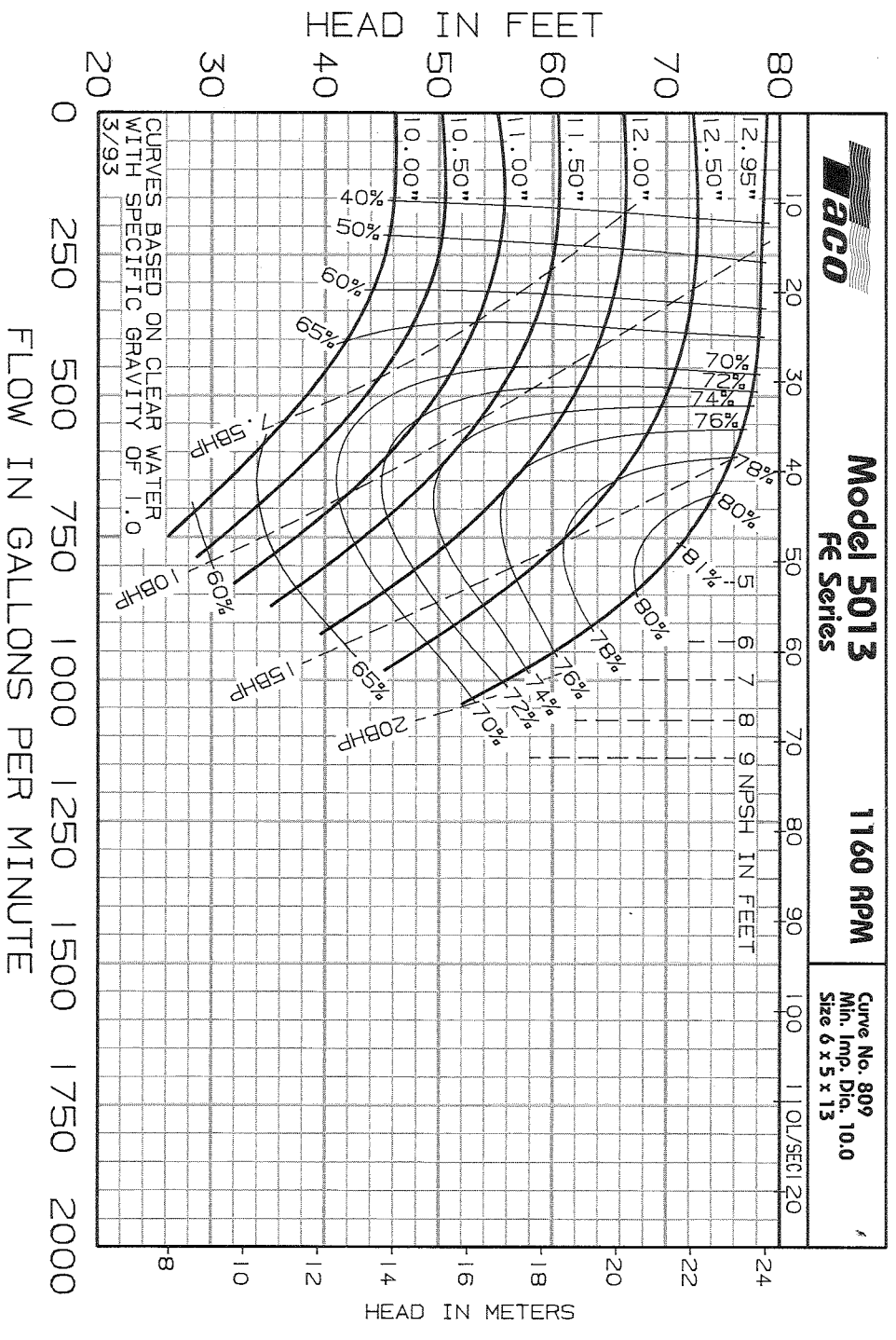
Affinity Laws: Effect of change of speed or impeller diameter on centrifugal pumps.

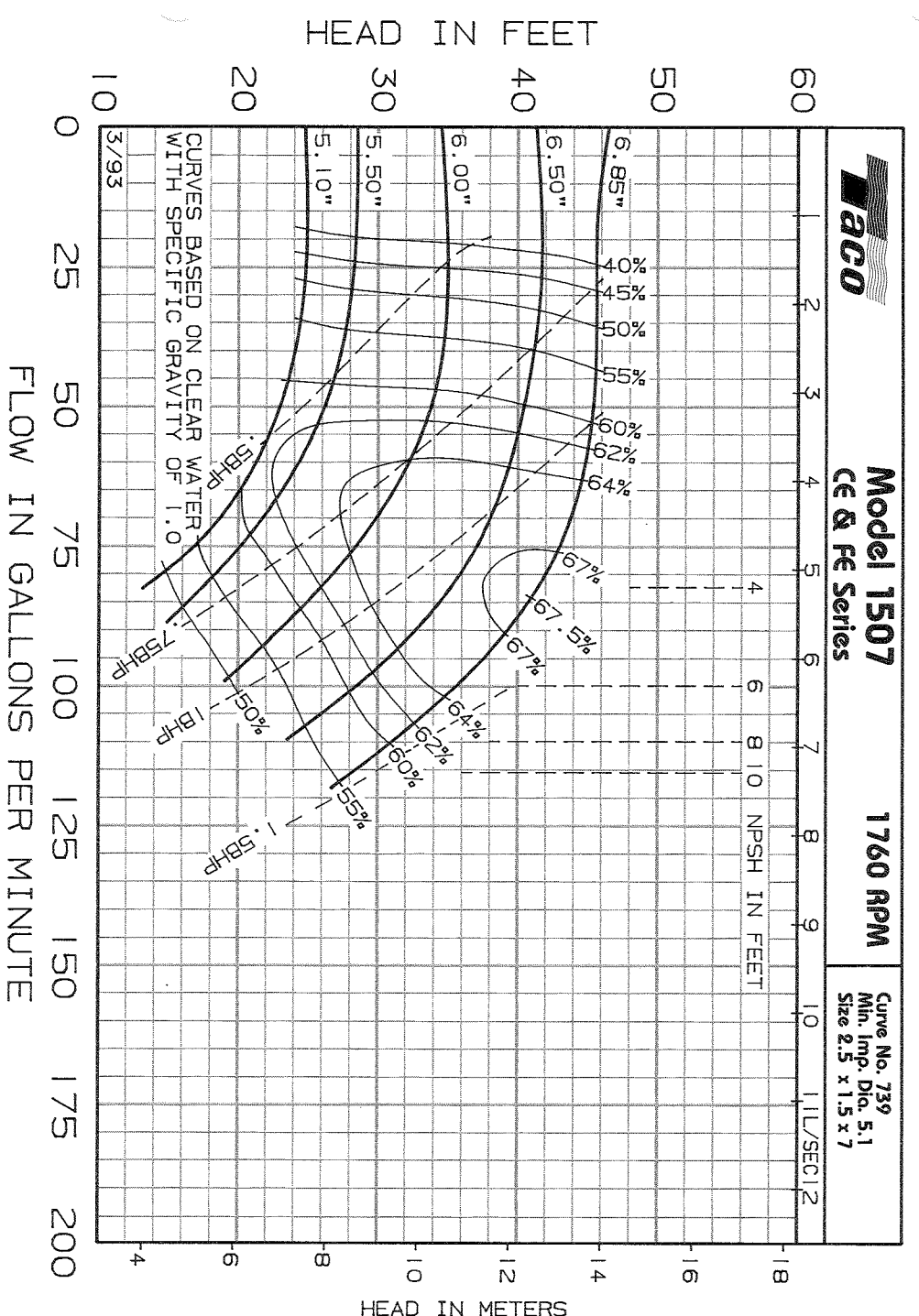
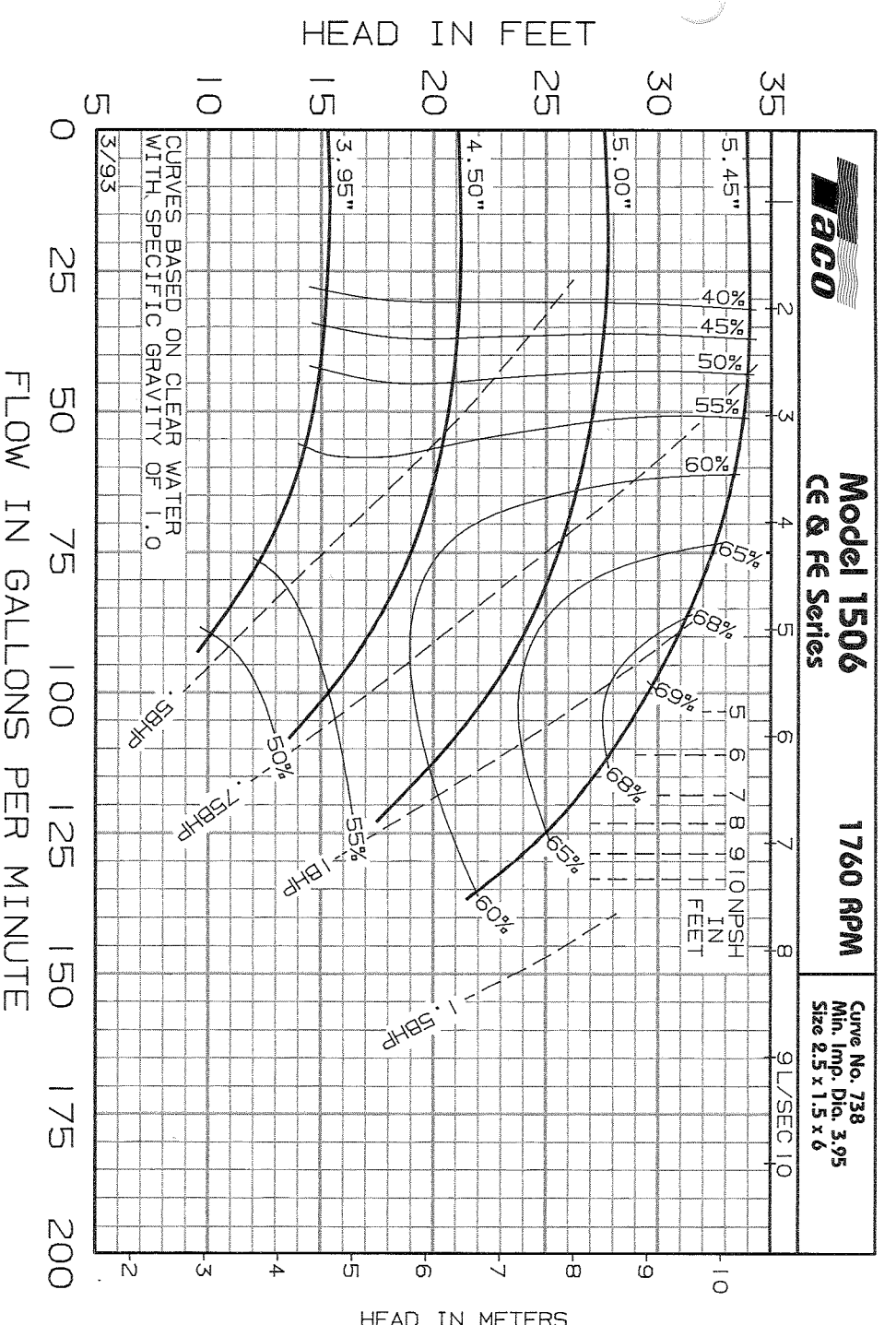
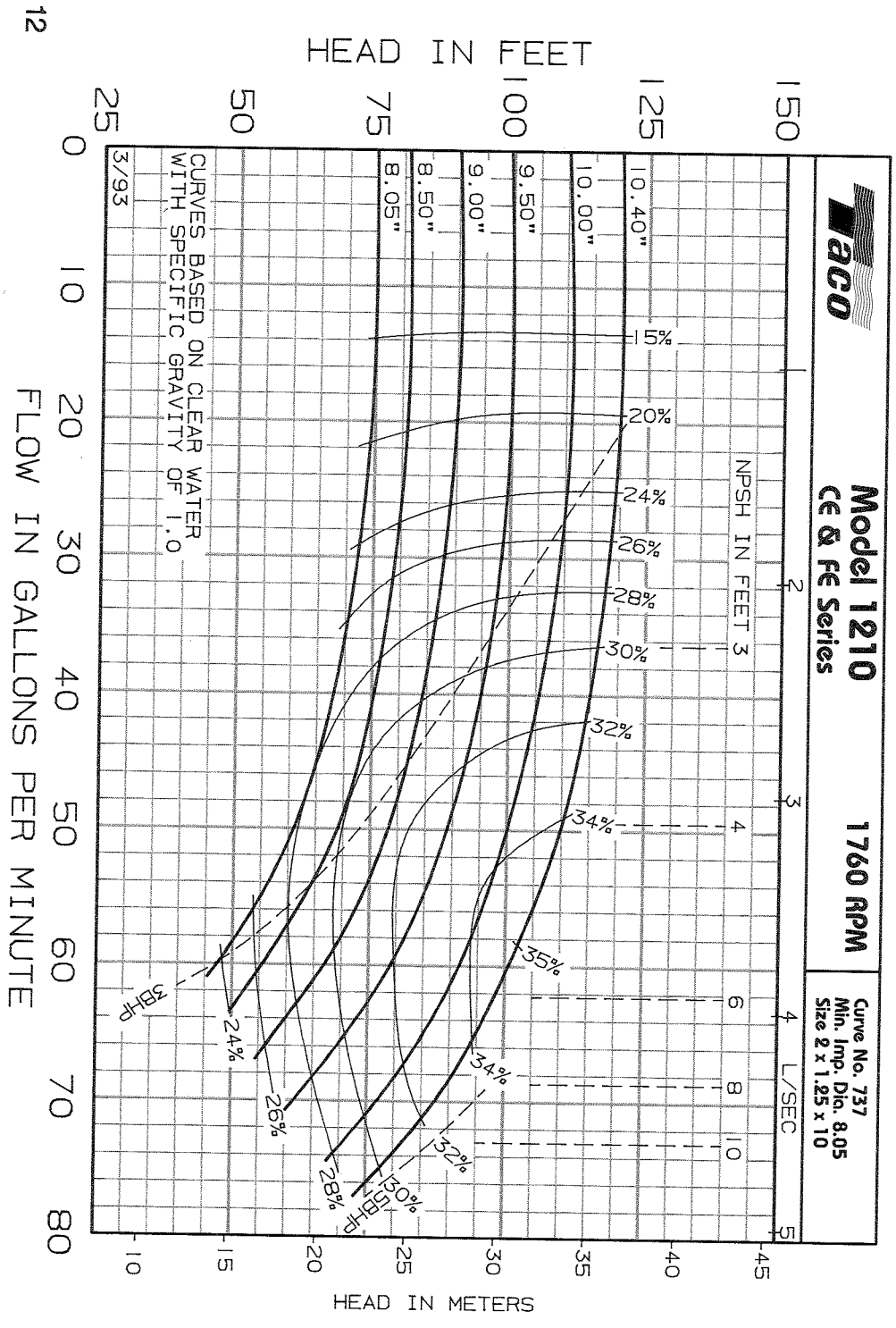
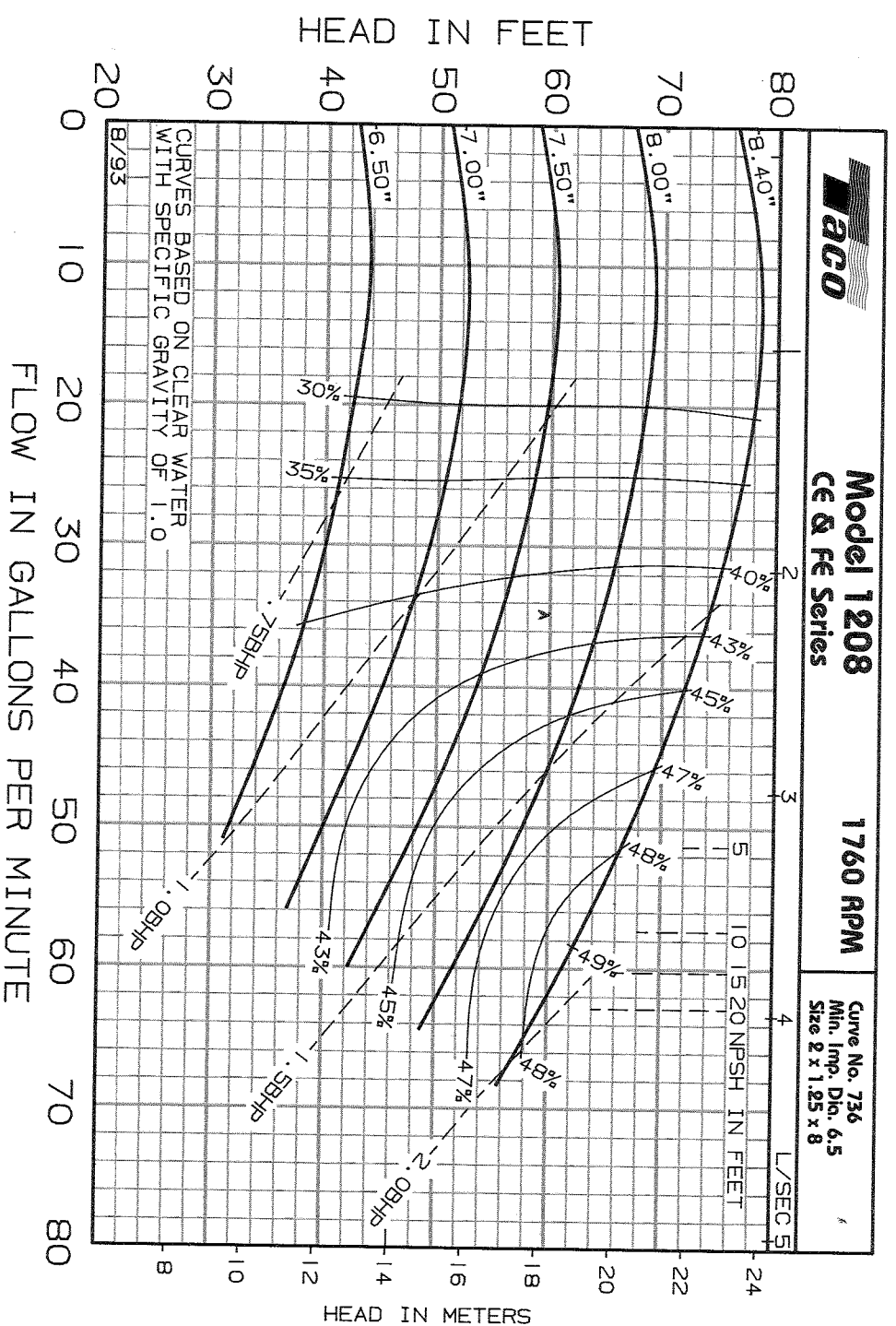
	GPM Capacity	Ft. Head	BHP
Impeller Diameter Change	$Q_2 = \frac{D_2}{D_1} Q_1$	$H_2 = \left(\frac{D_2}{D_1}\right)^2 H_1$	$P_2 = \left(\frac{D_2}{D_1}\right)^3 P_1$
Speed Change	$Q_2 = \frac{RPM_2}{RPM_1} Q_1$	$H_2 = \left(\frac{RPM_2}{RPM_1}\right)^2 H_1$	$P_2 = \left(\frac{RPM_2}{RPM_1}\right)^3 P_1$

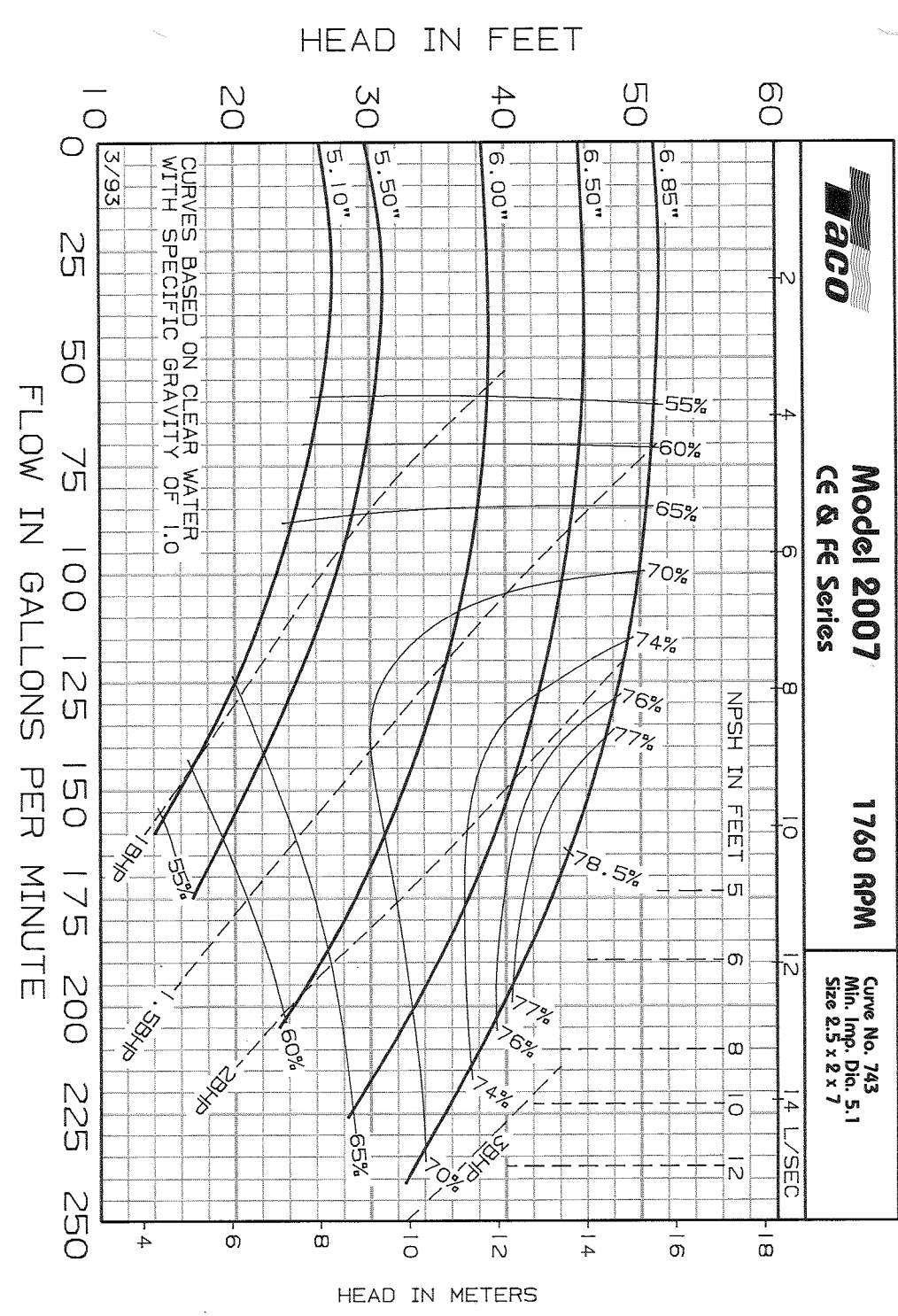
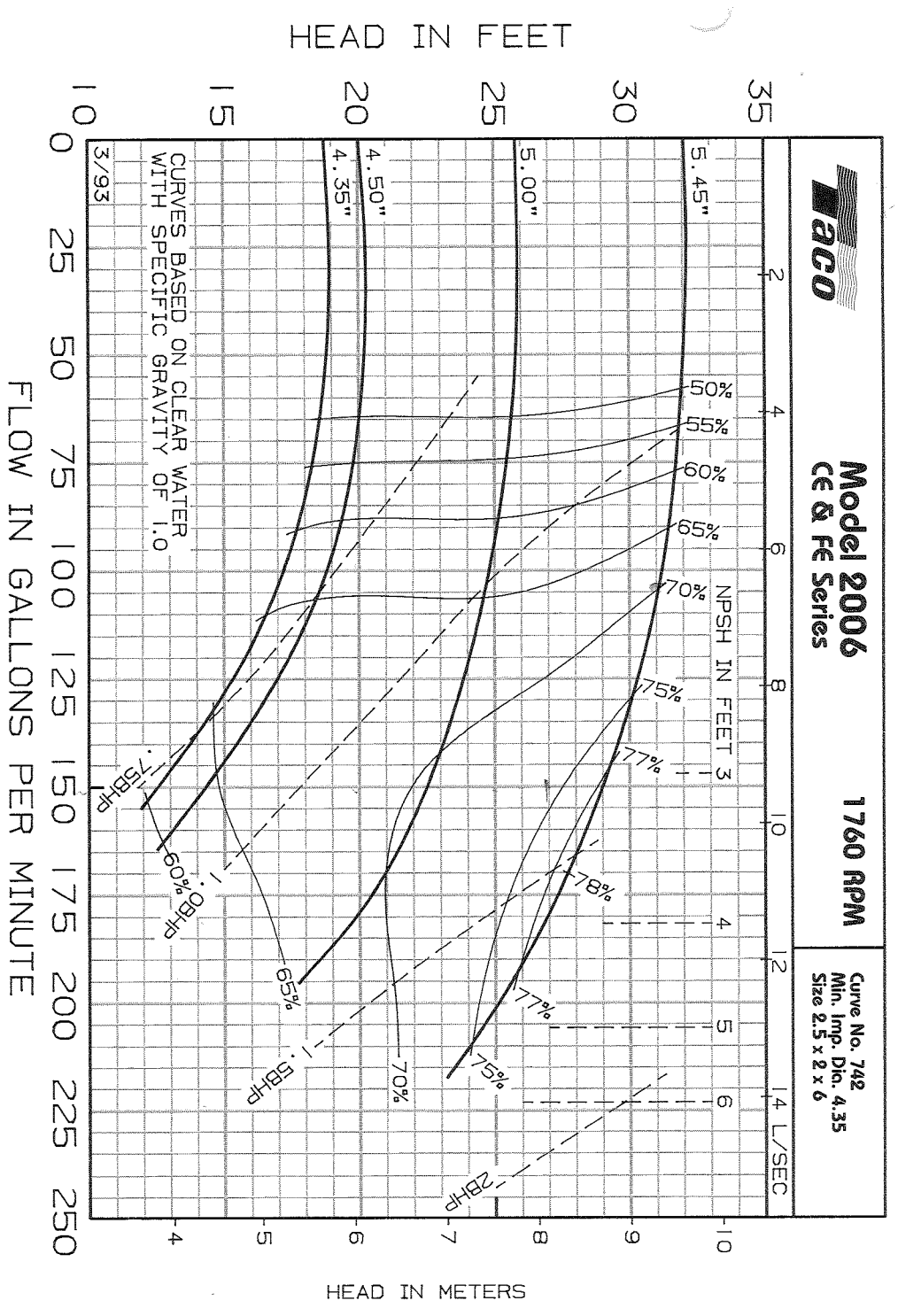
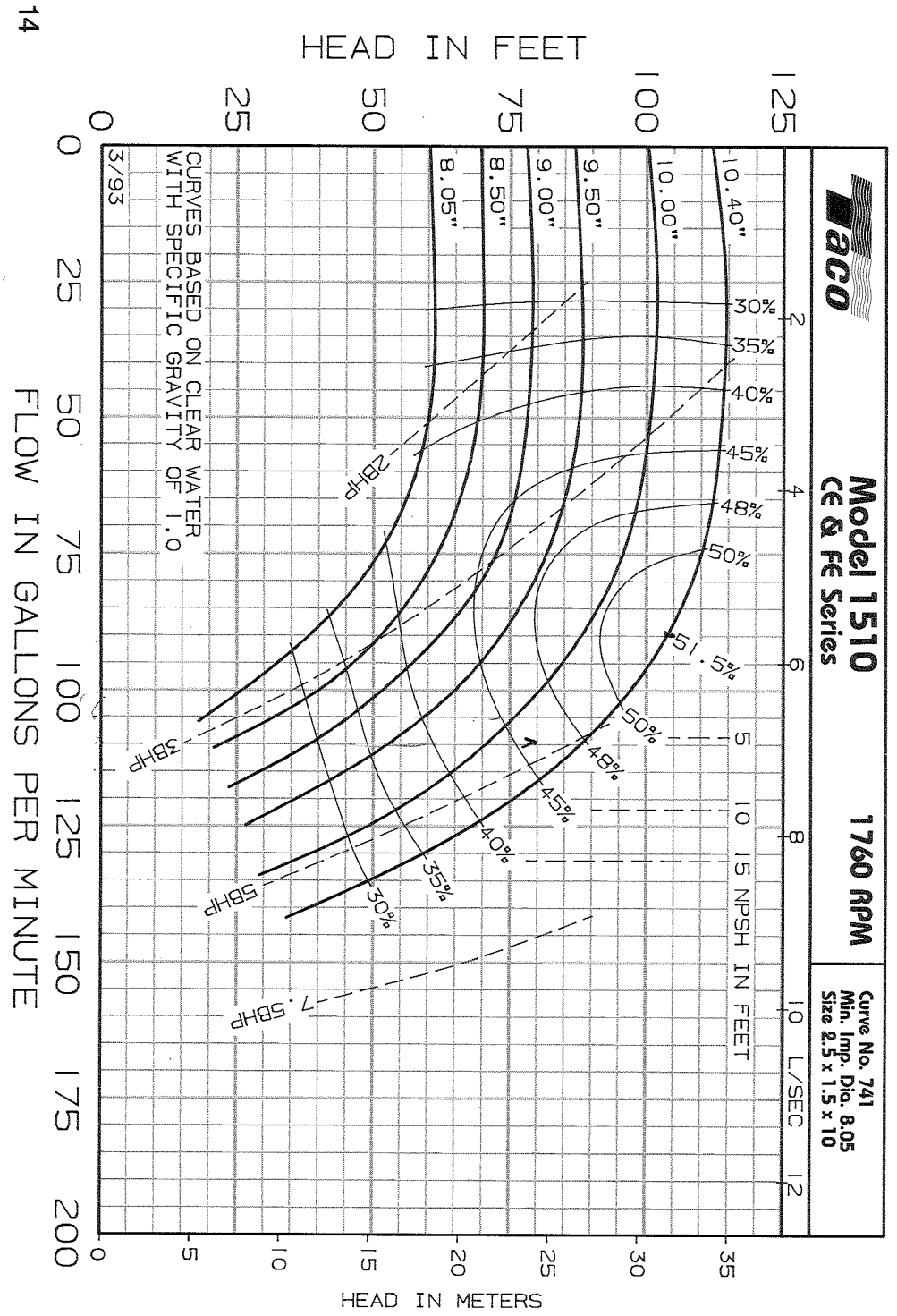
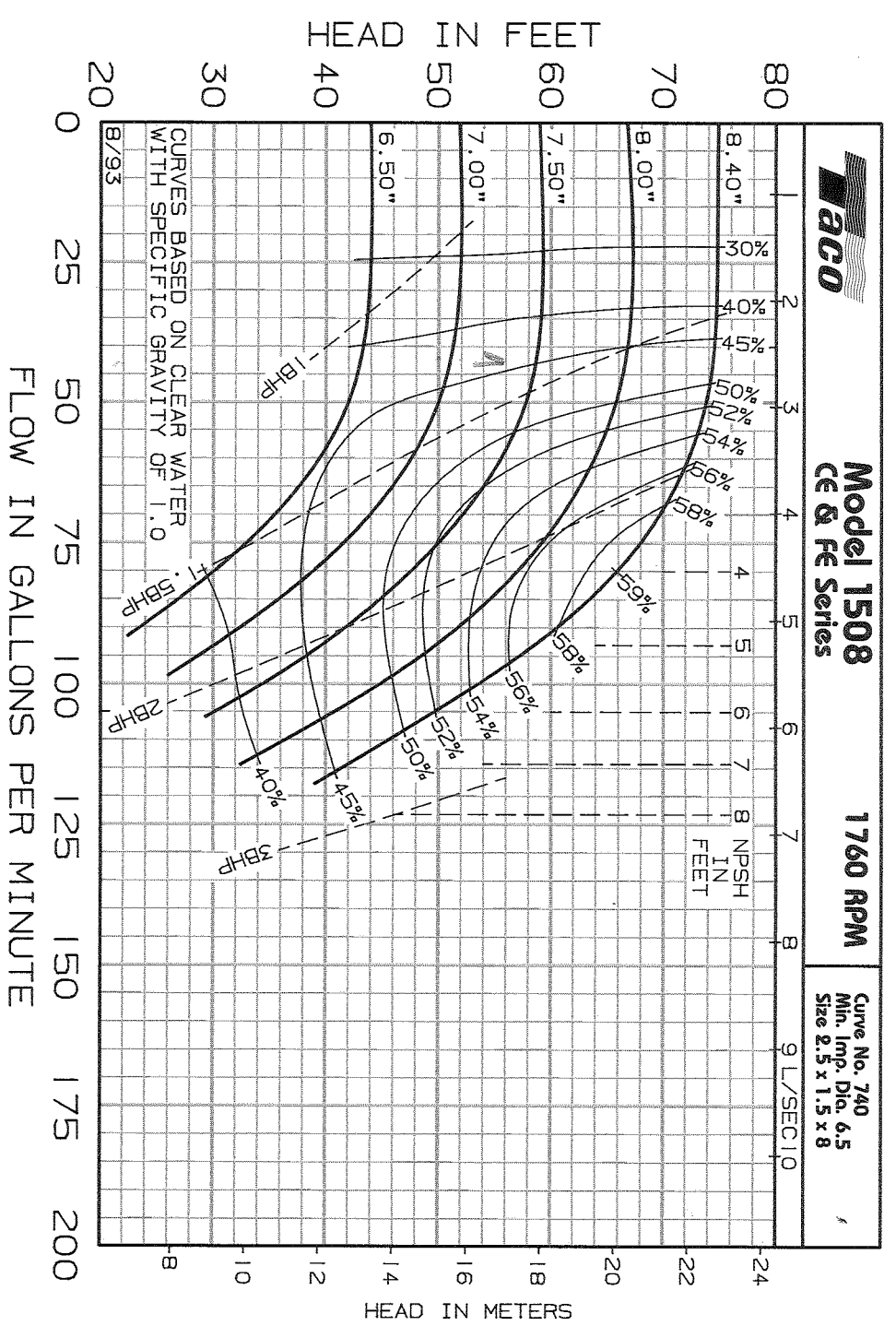
Where Q = GPM, H = Head, P = BHP, D = Impeller Dia., RPM = Pump Speed

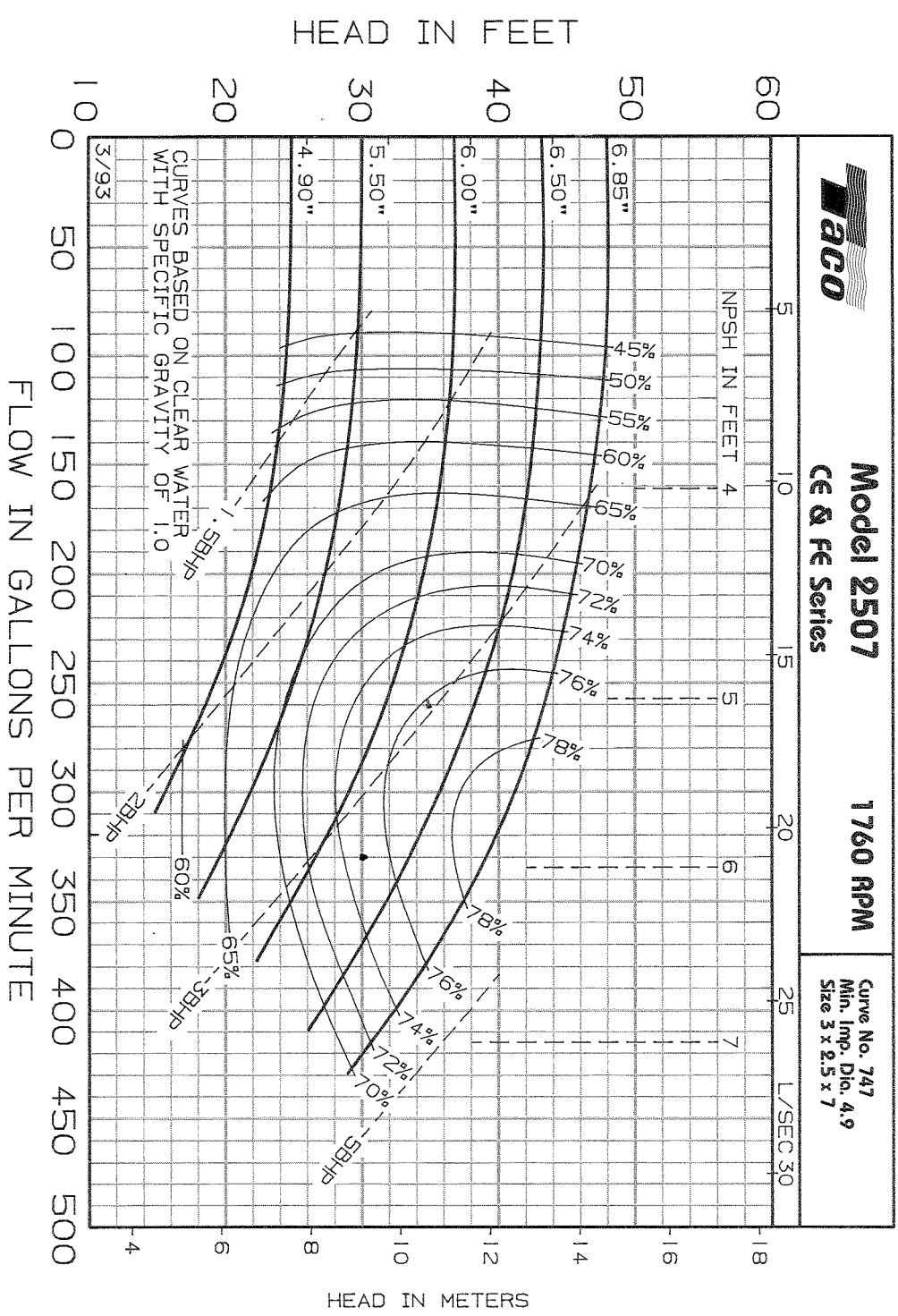
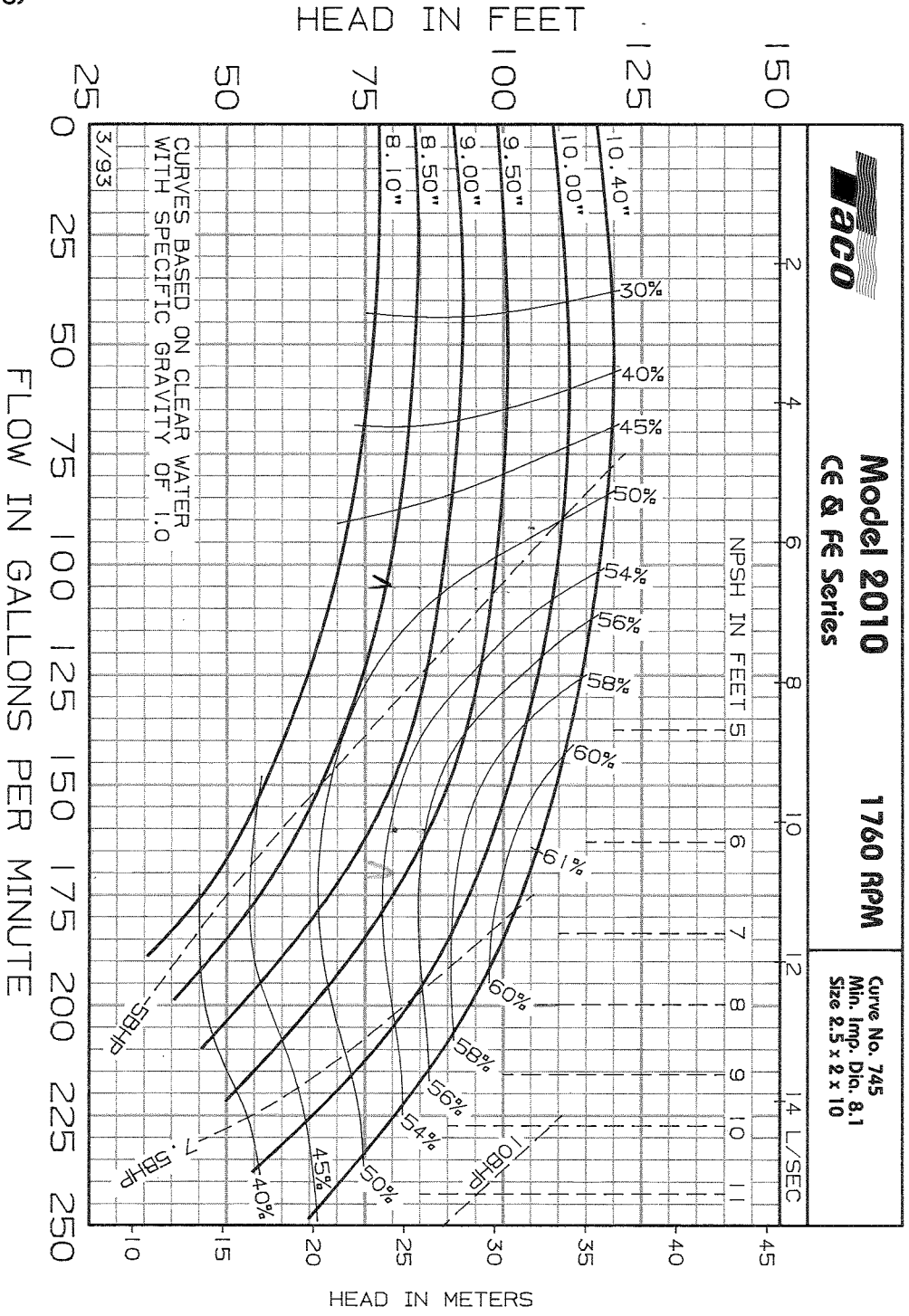
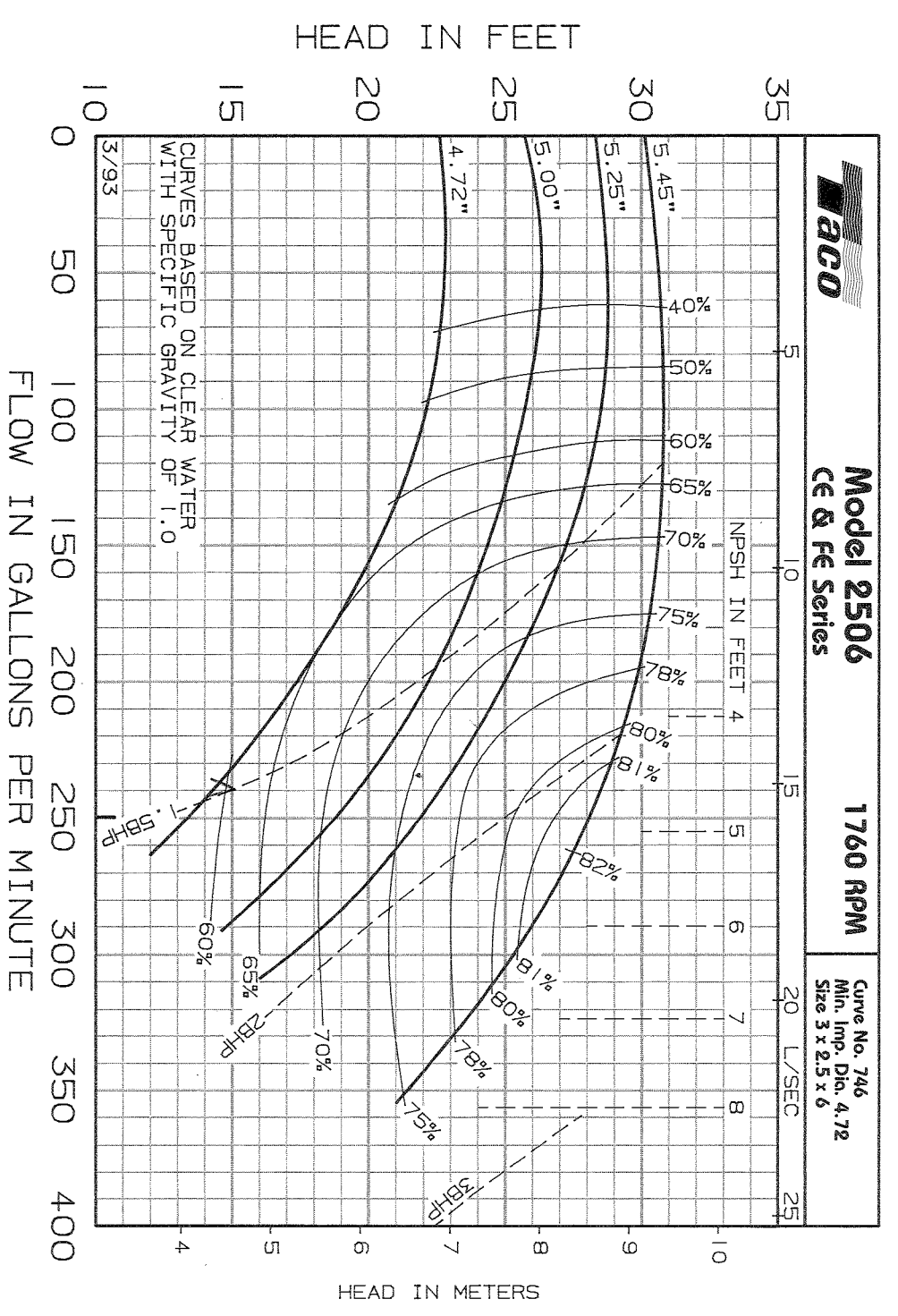
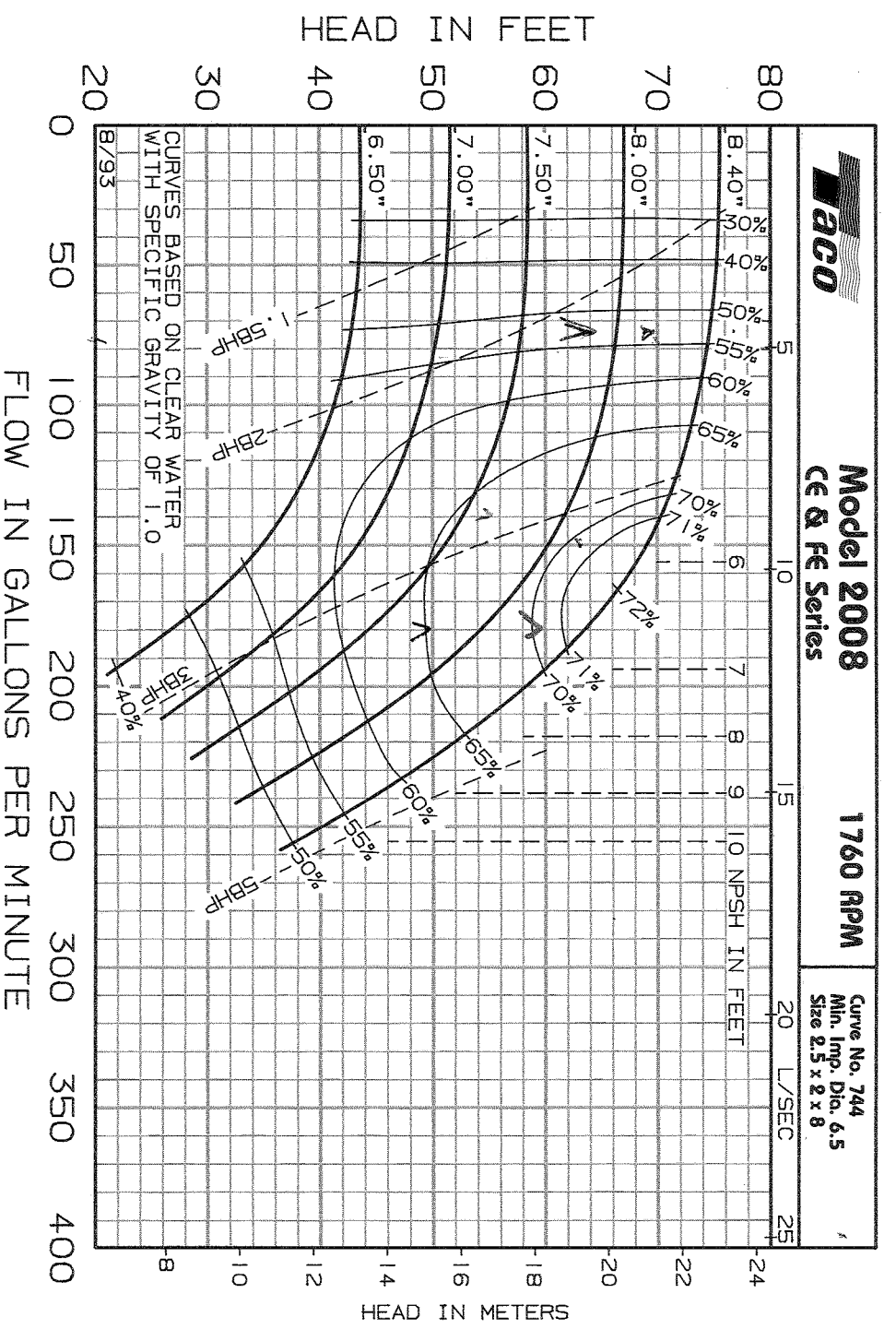


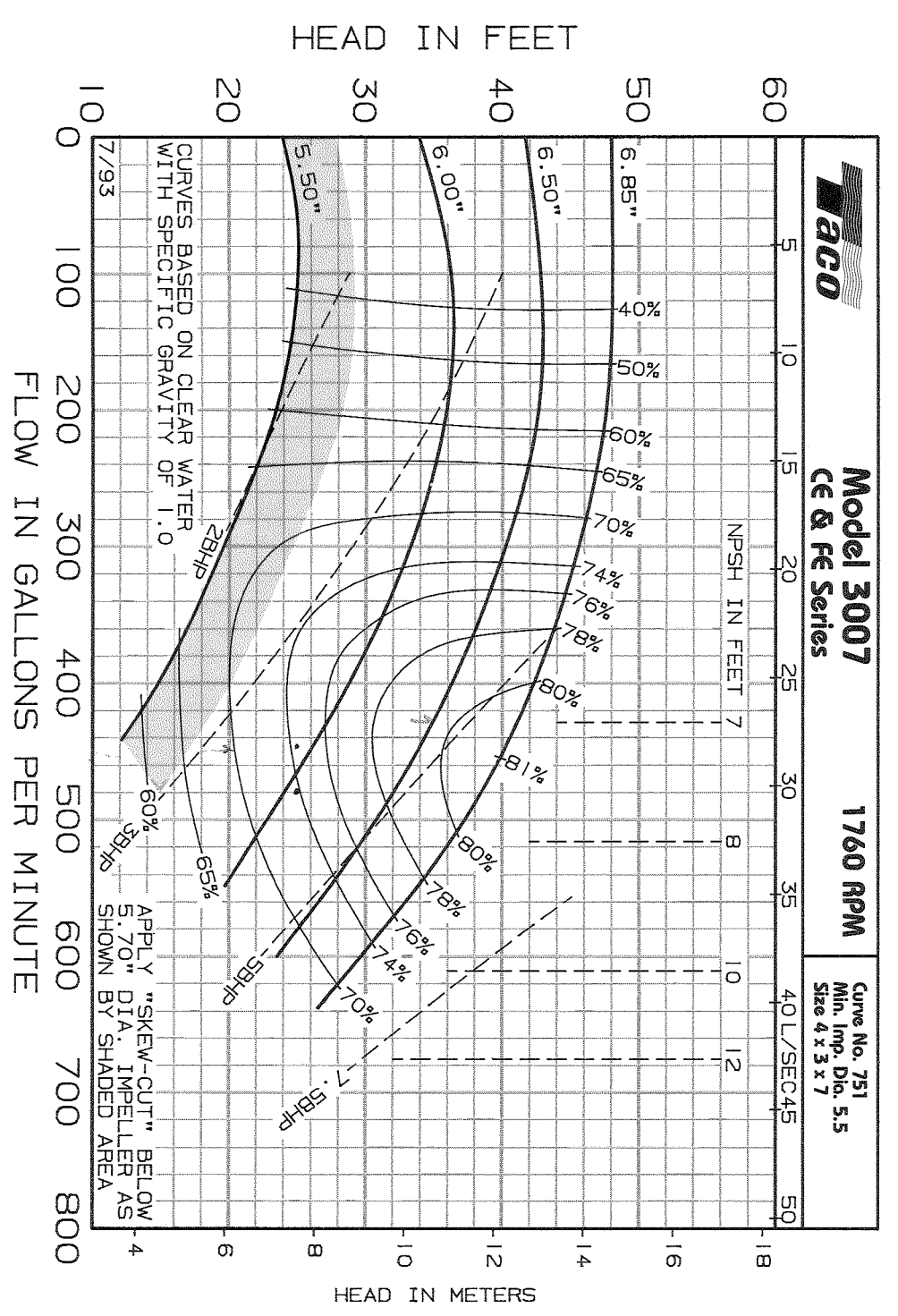
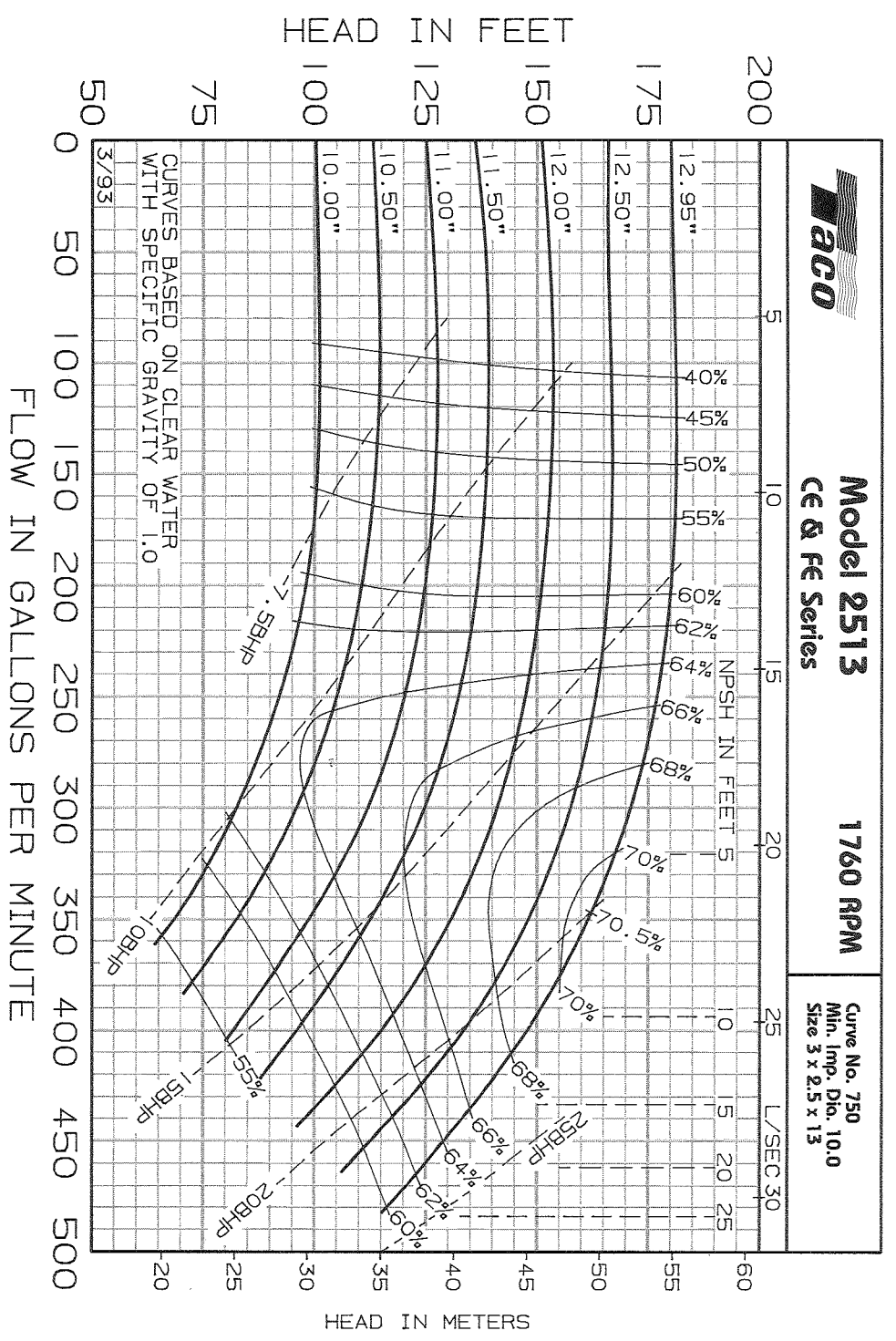
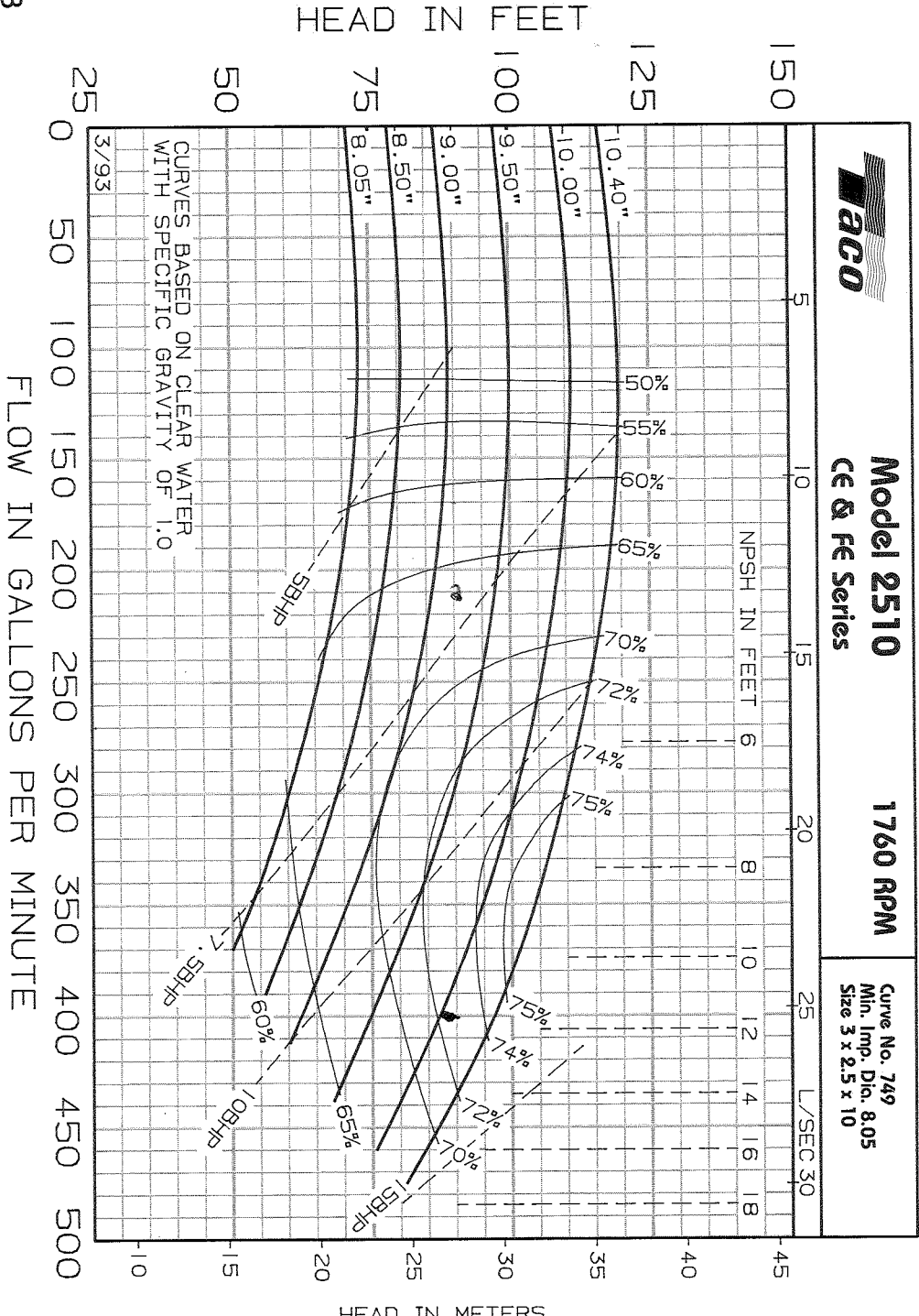
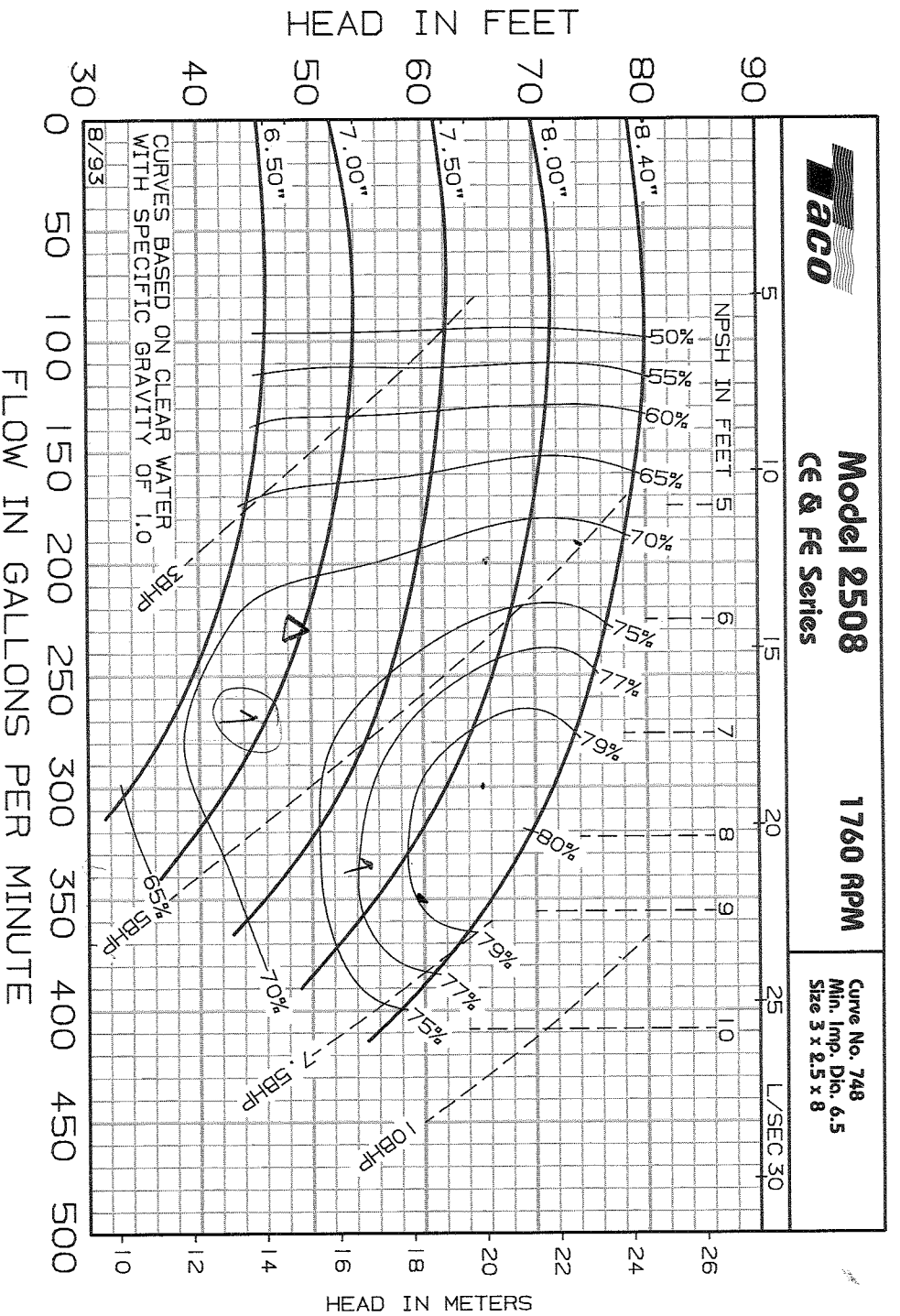


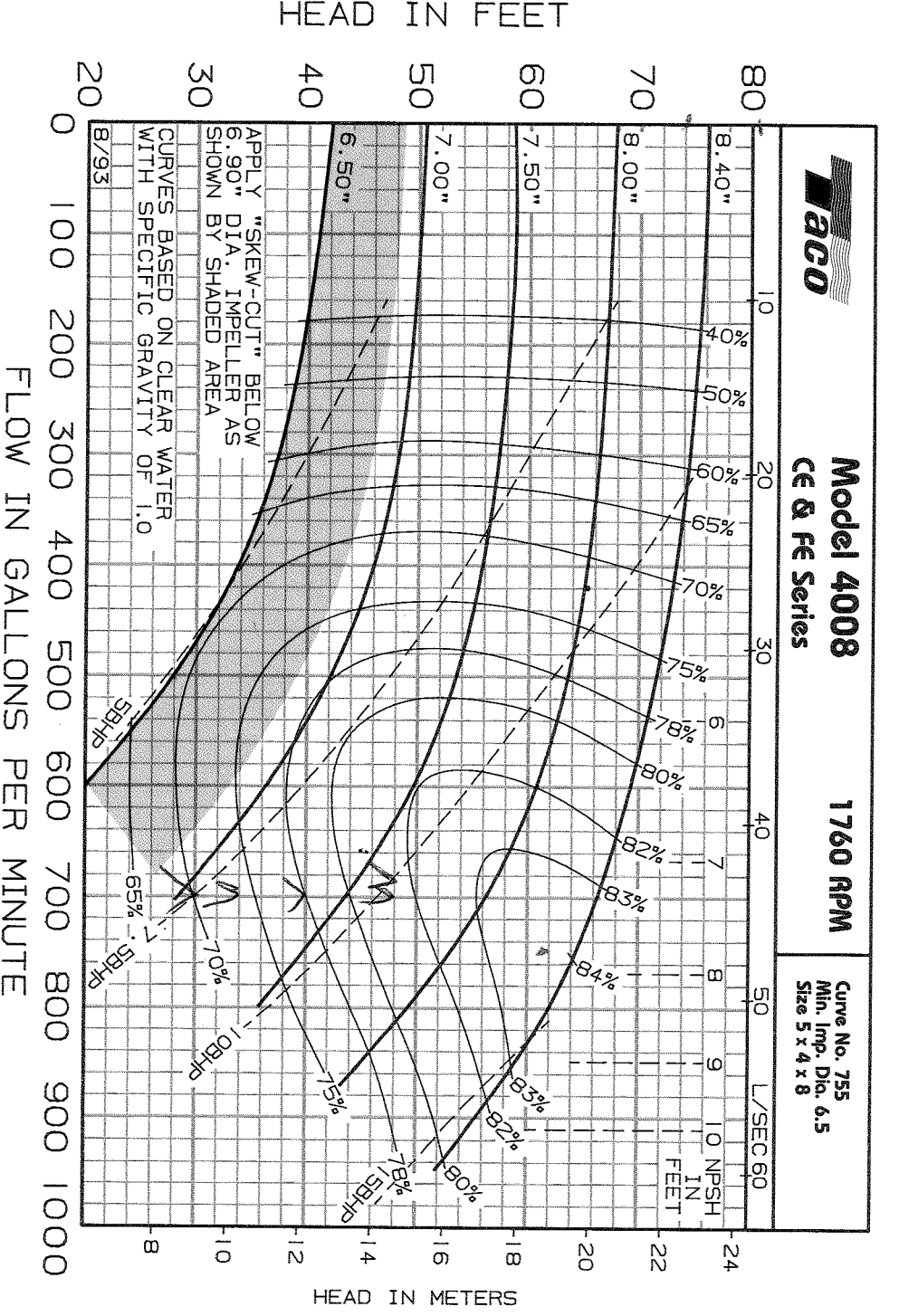
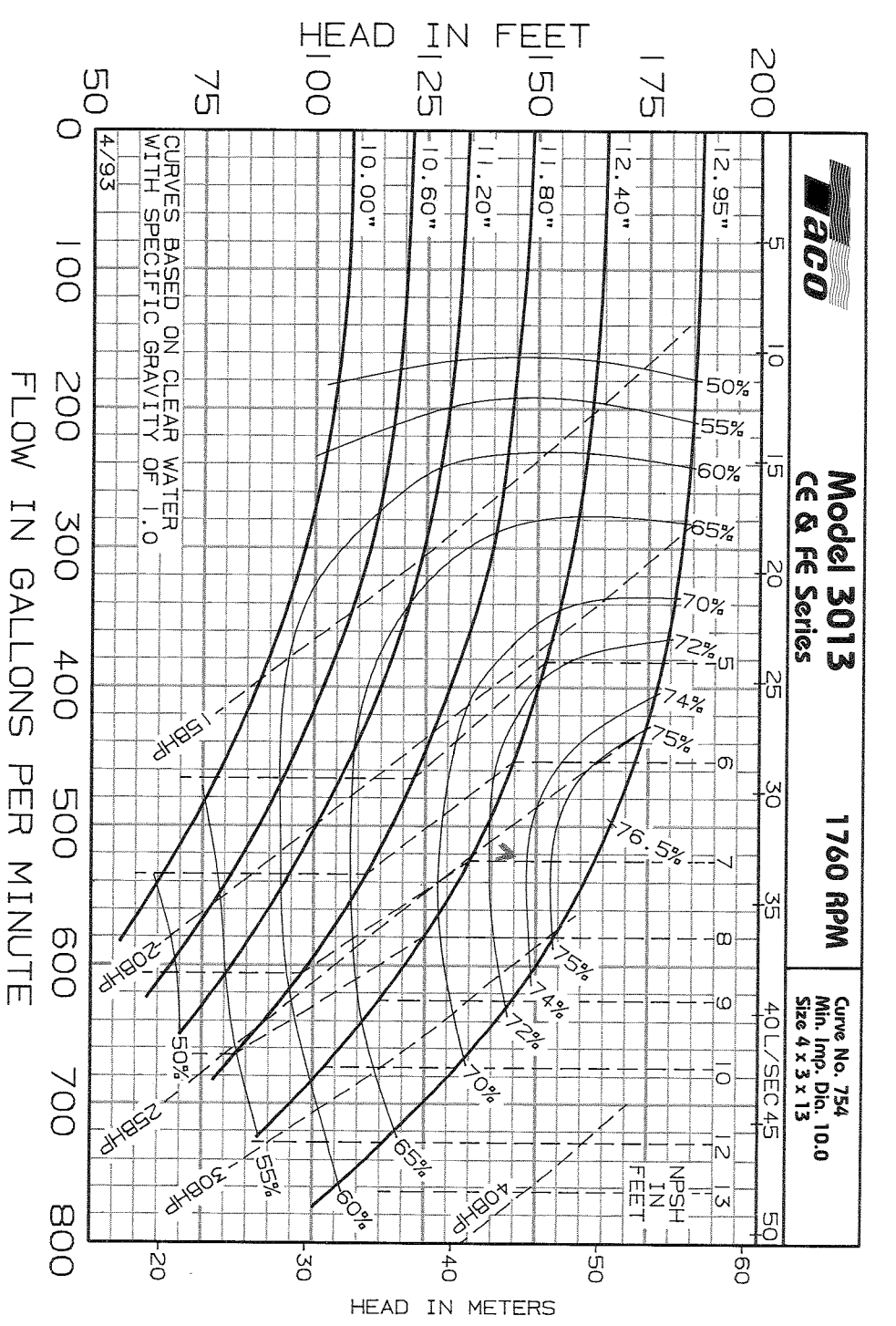
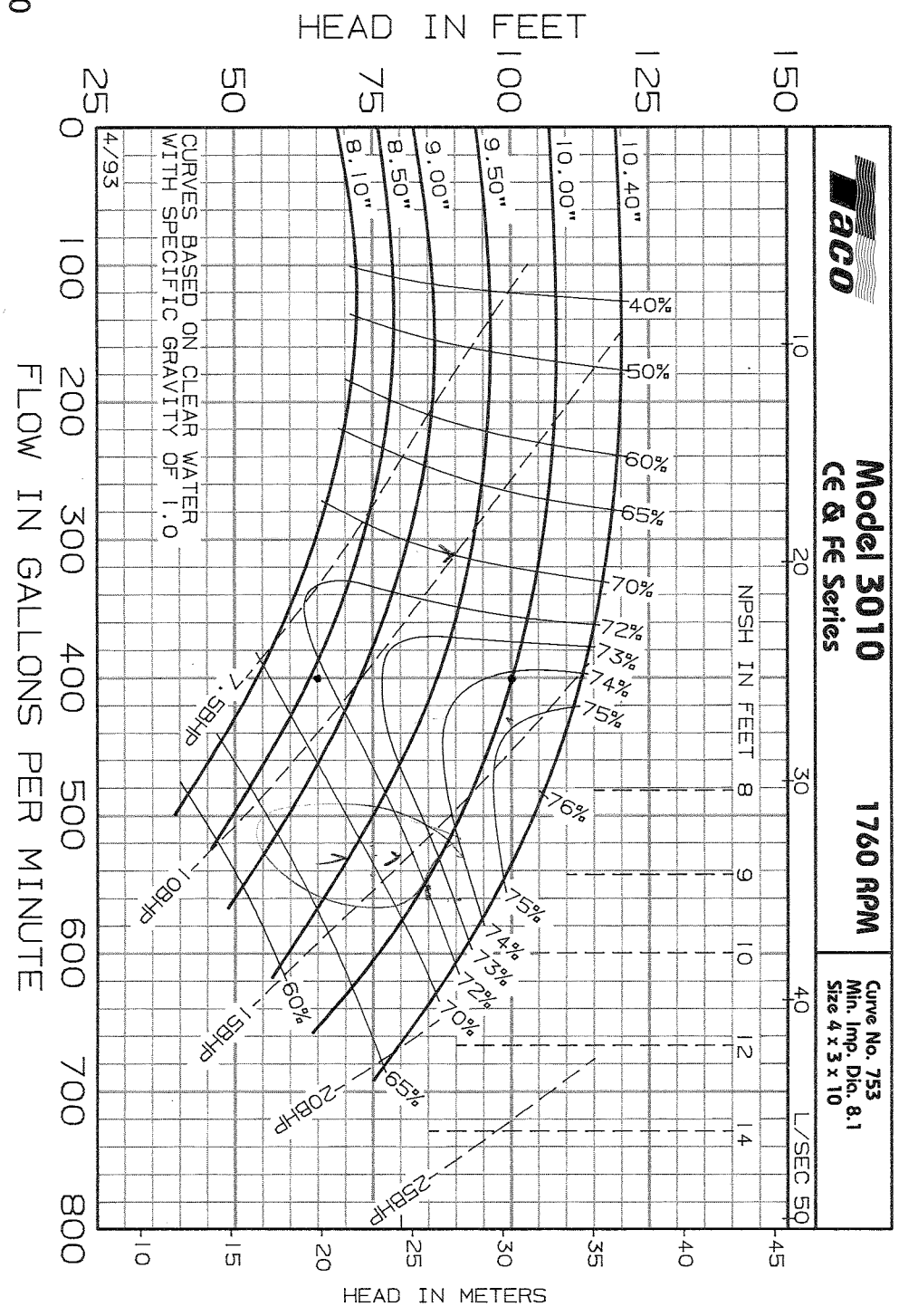
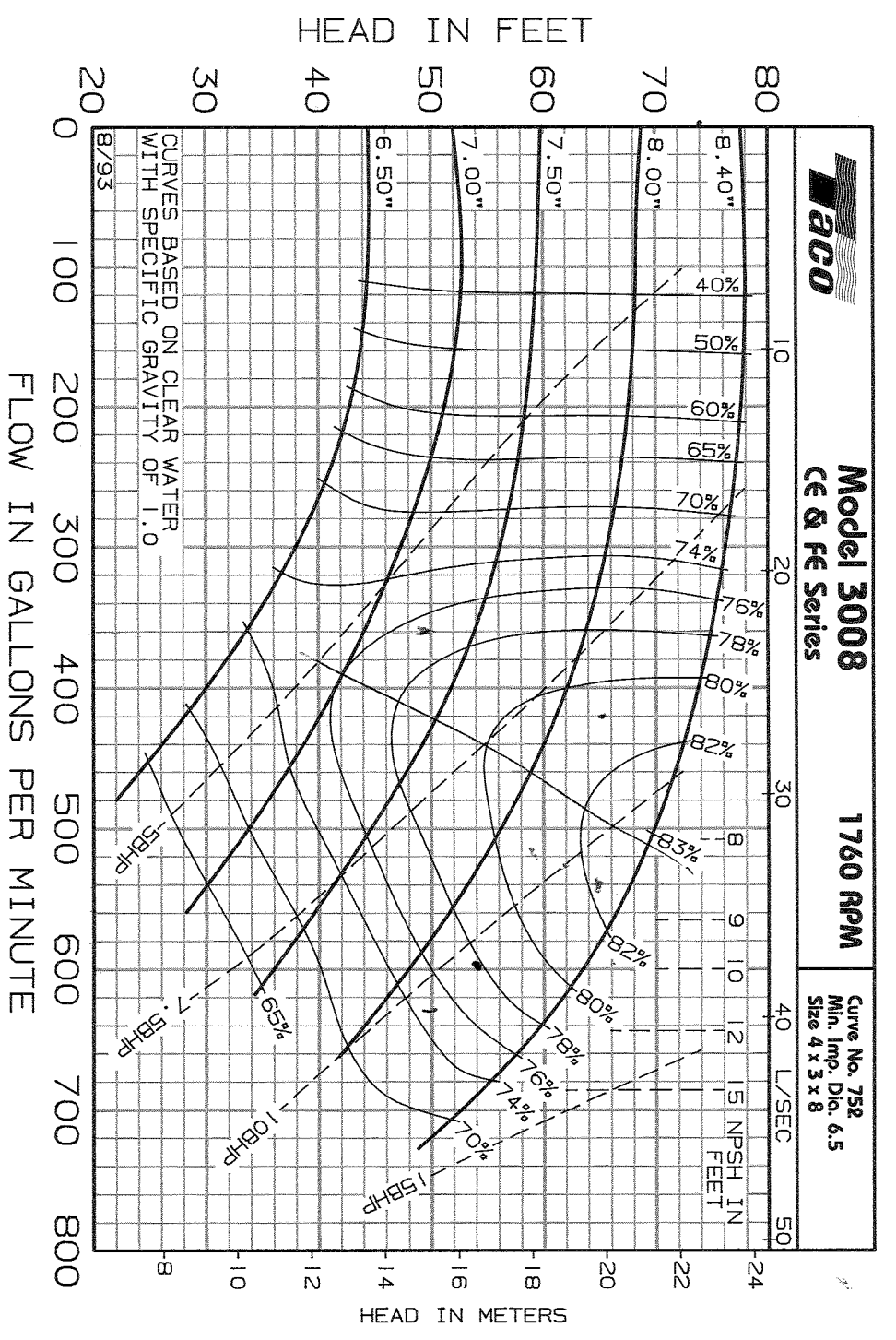


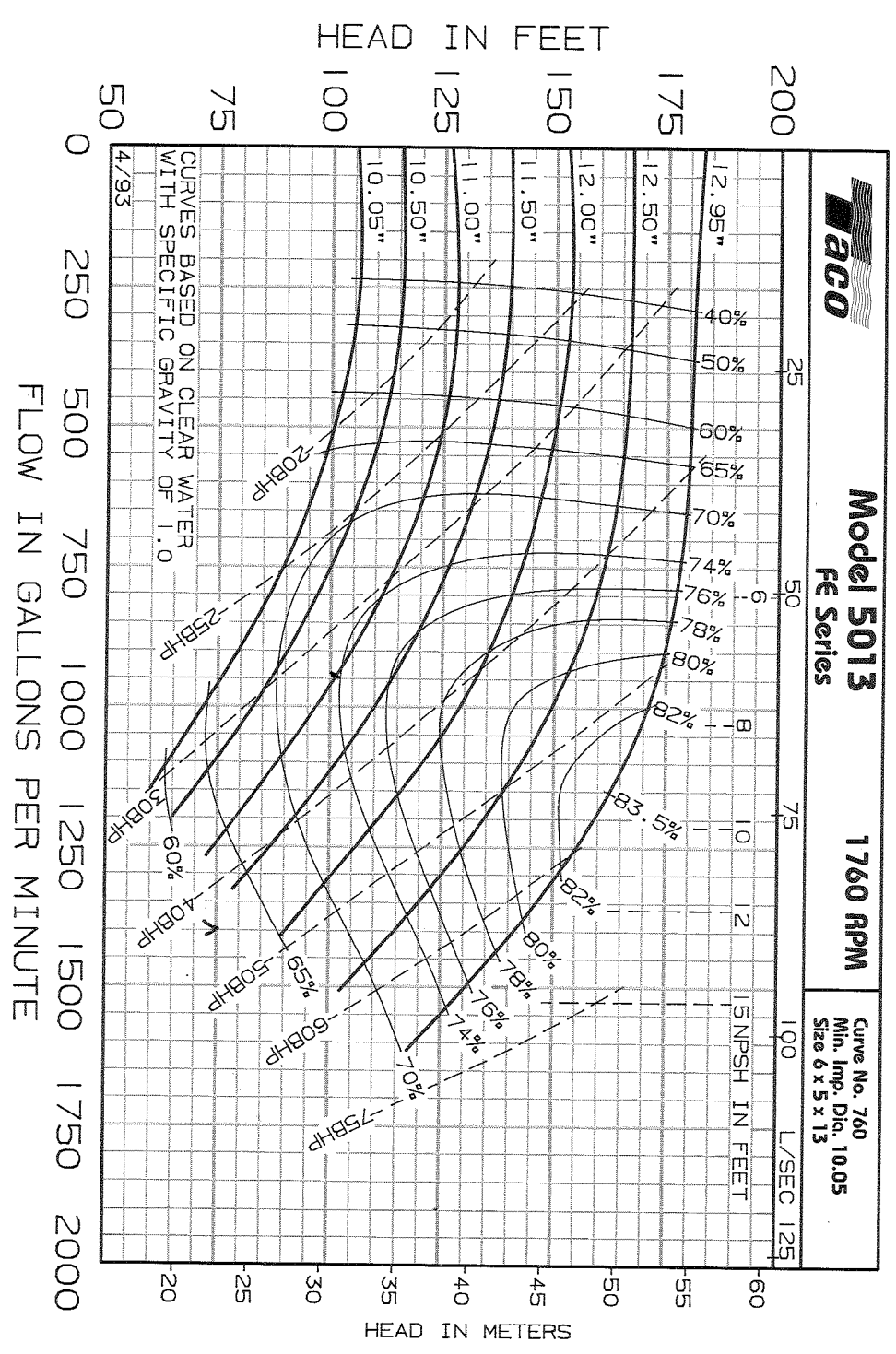
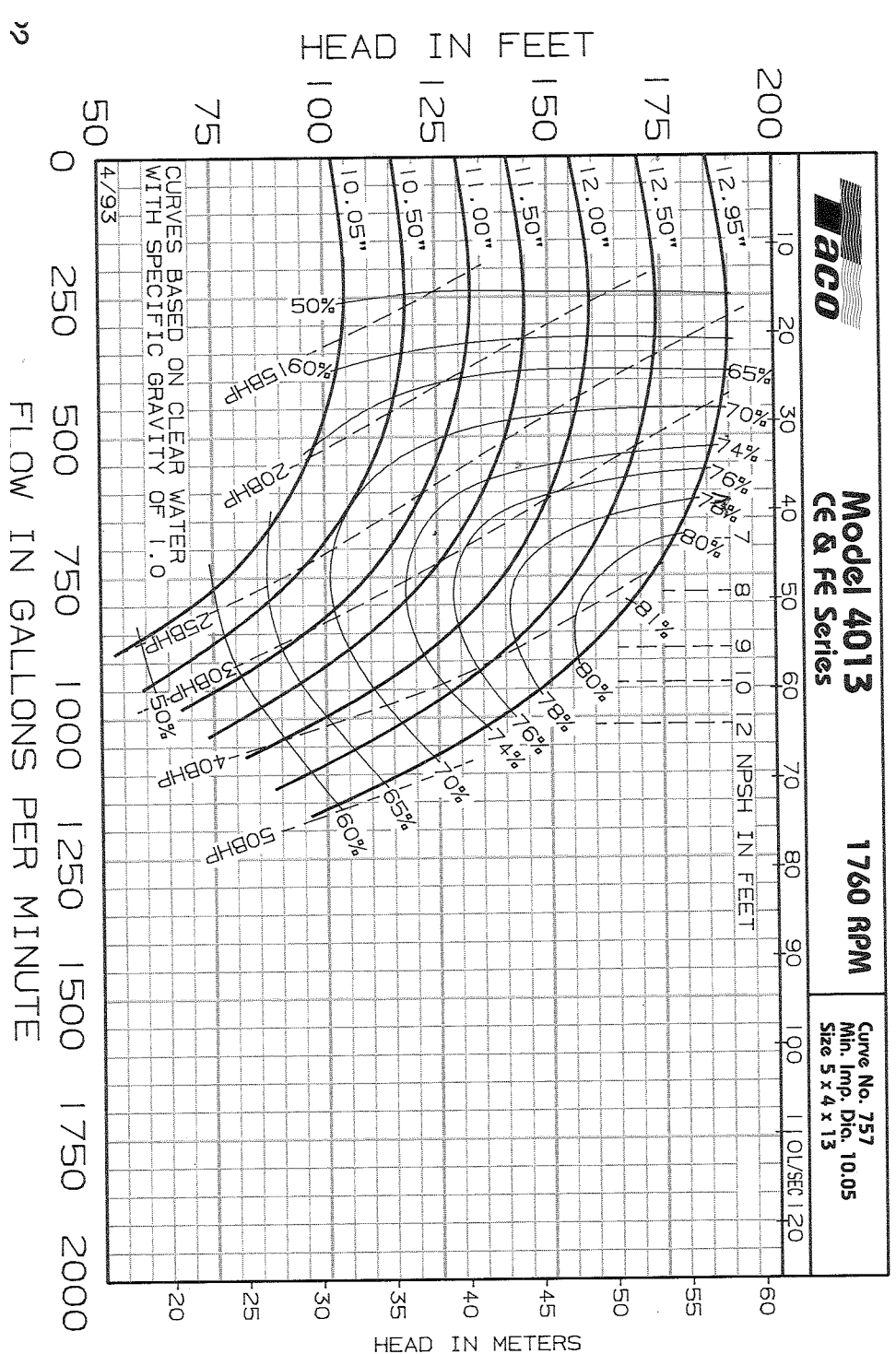
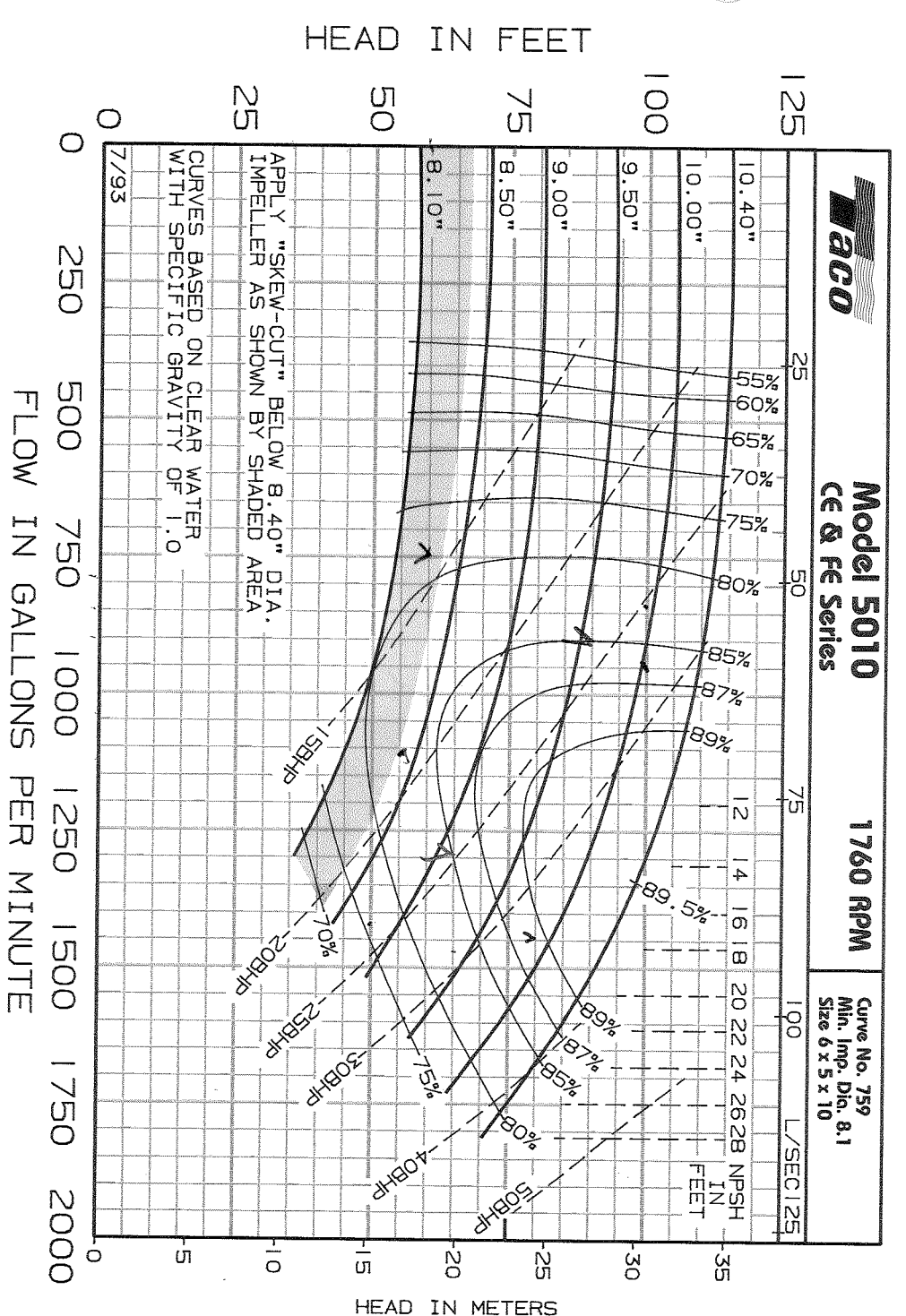
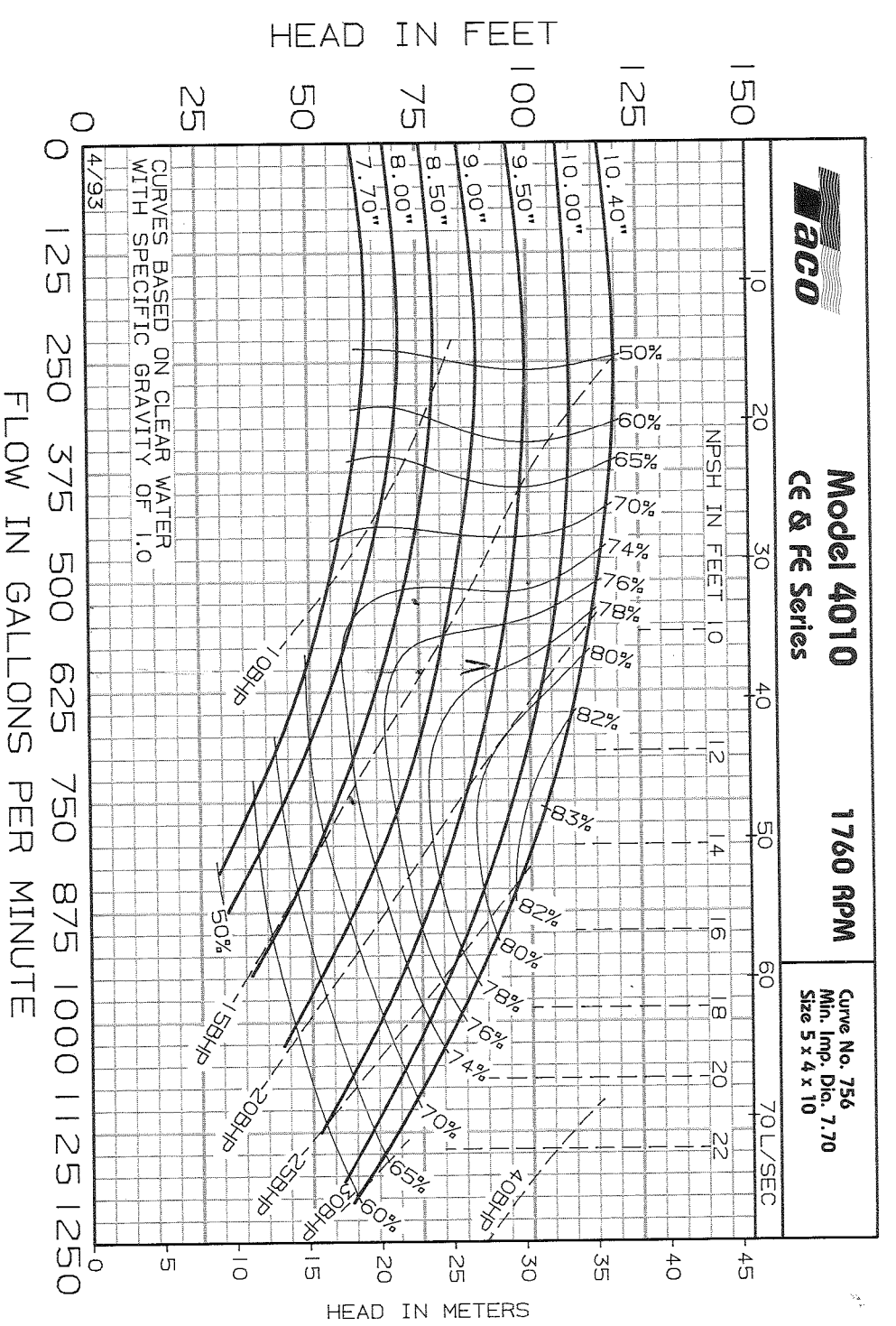


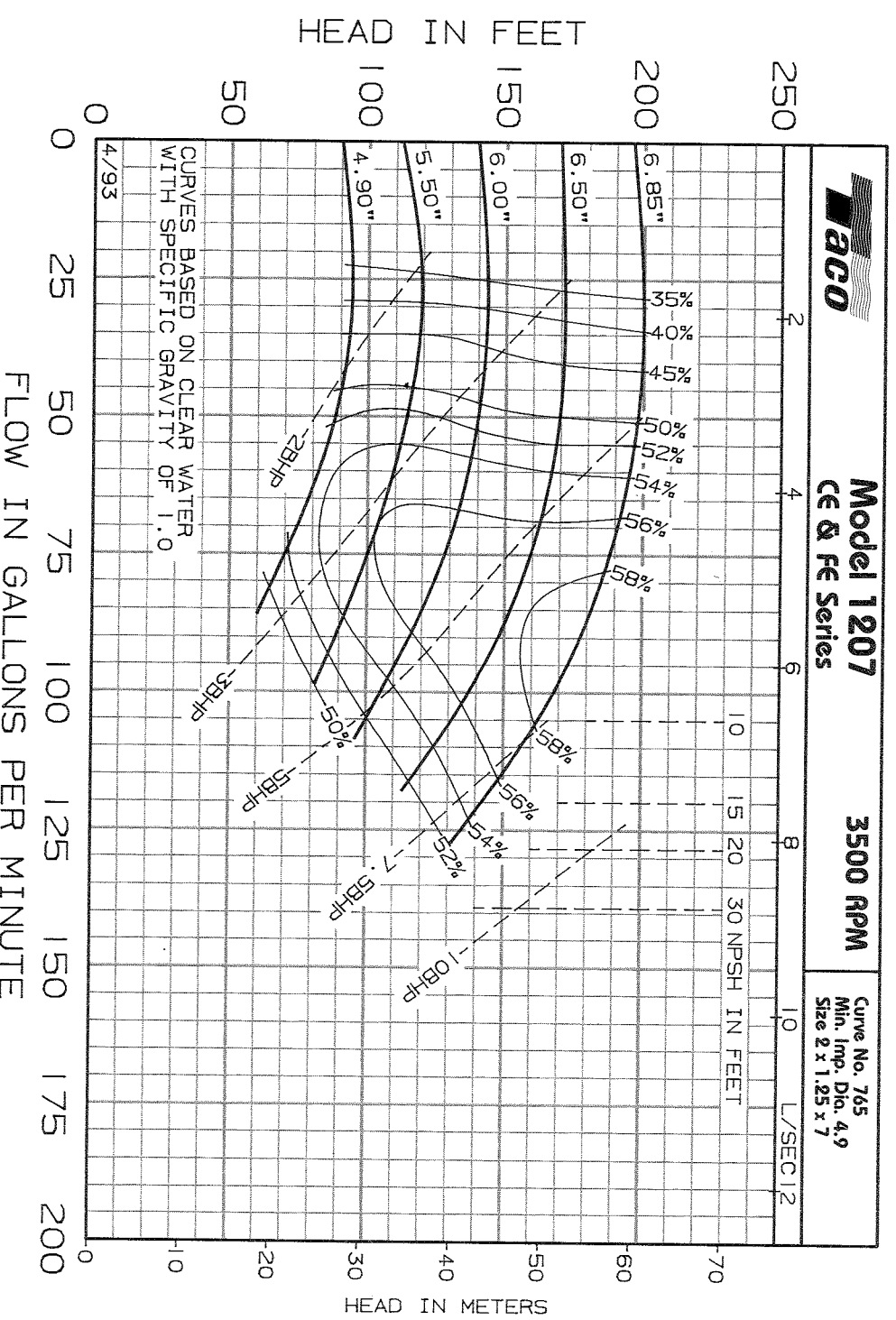
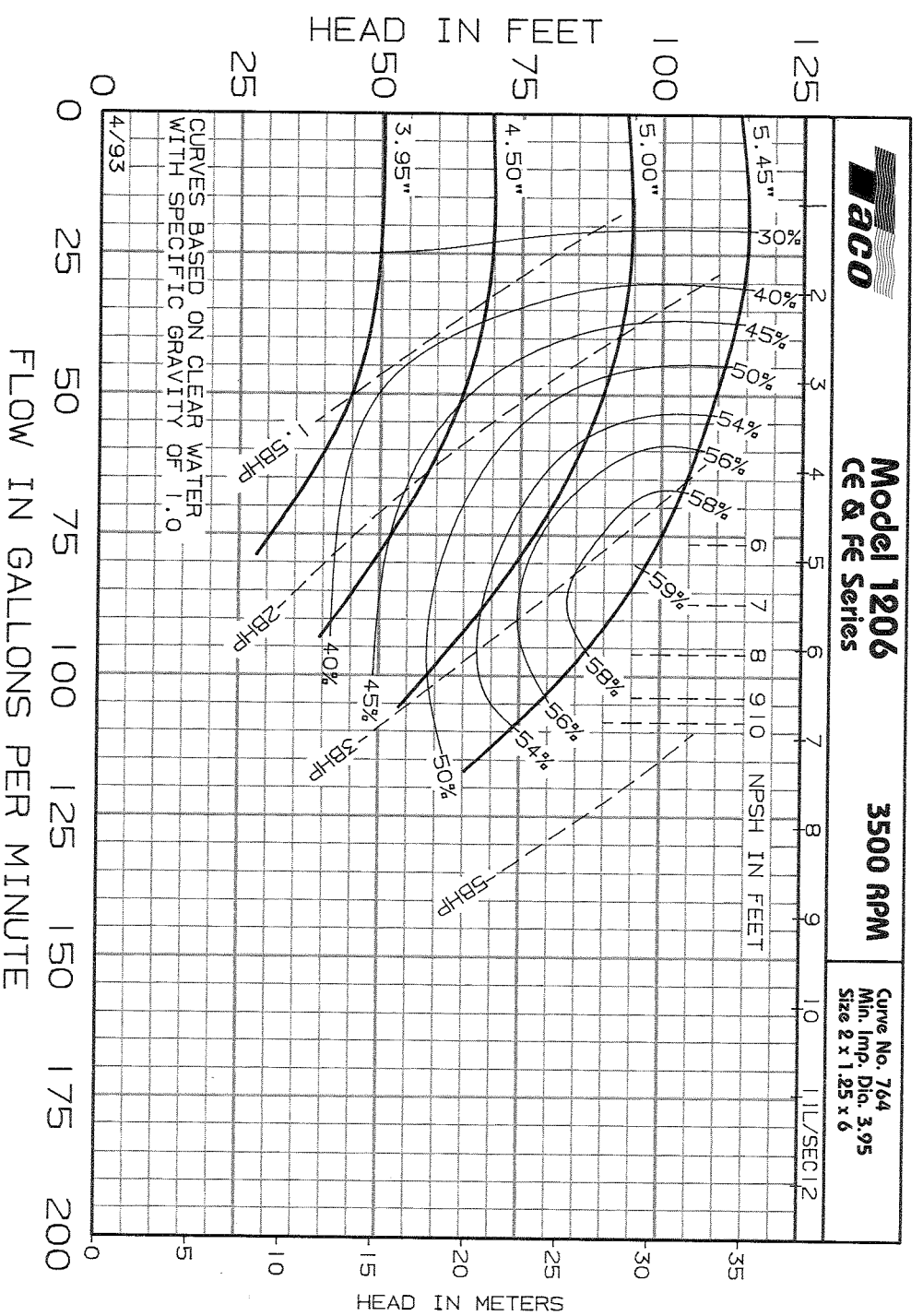
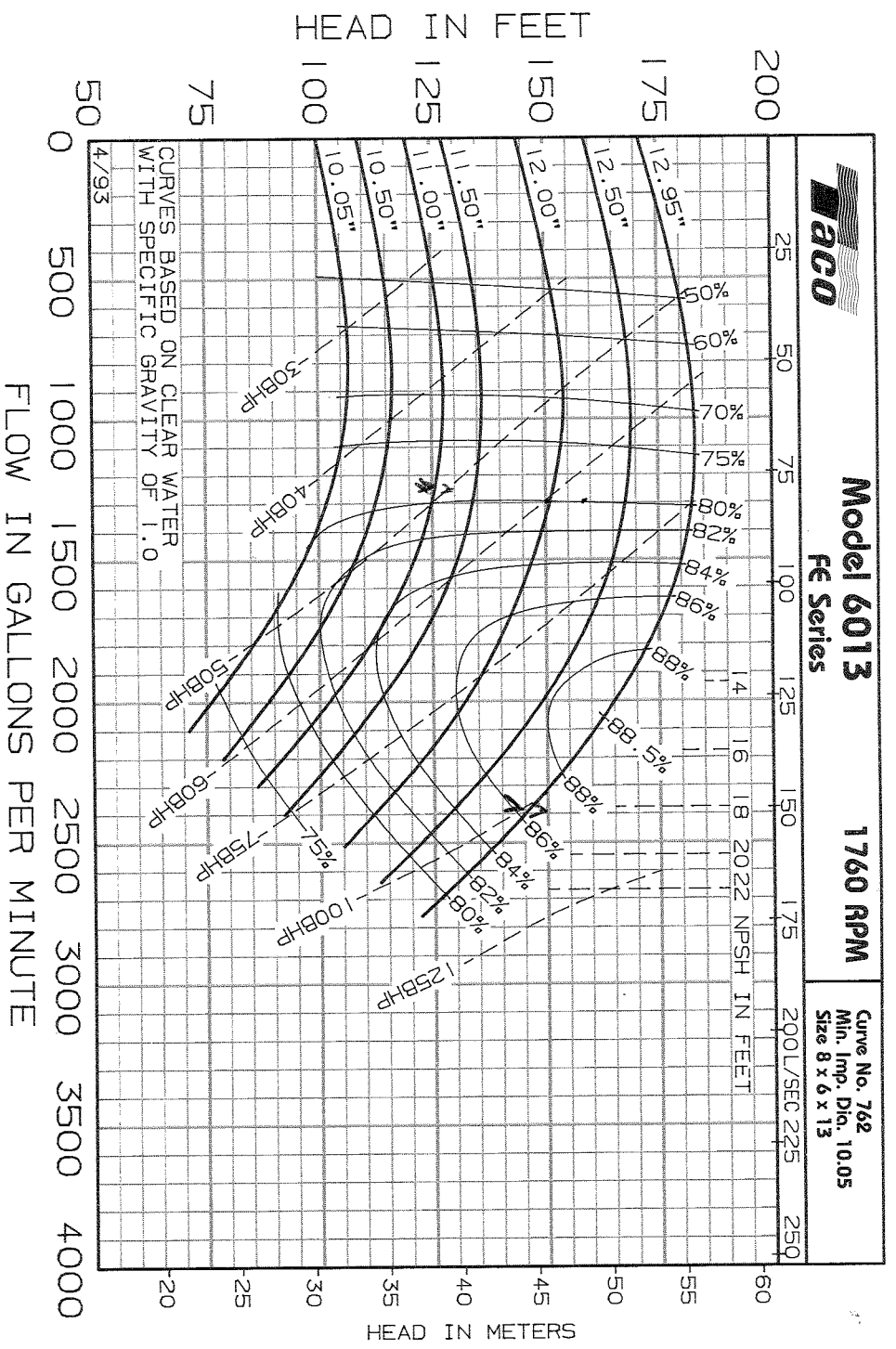


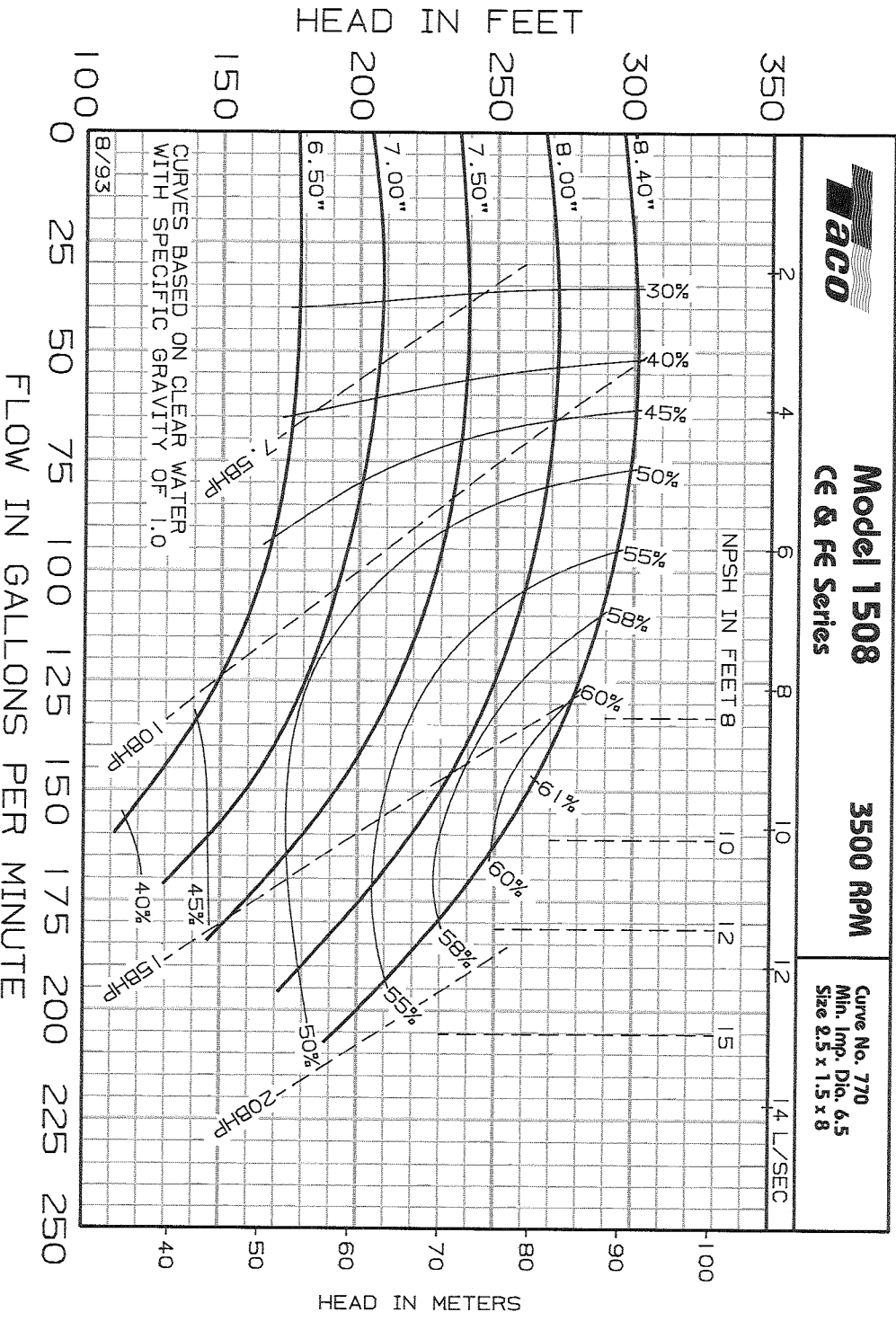
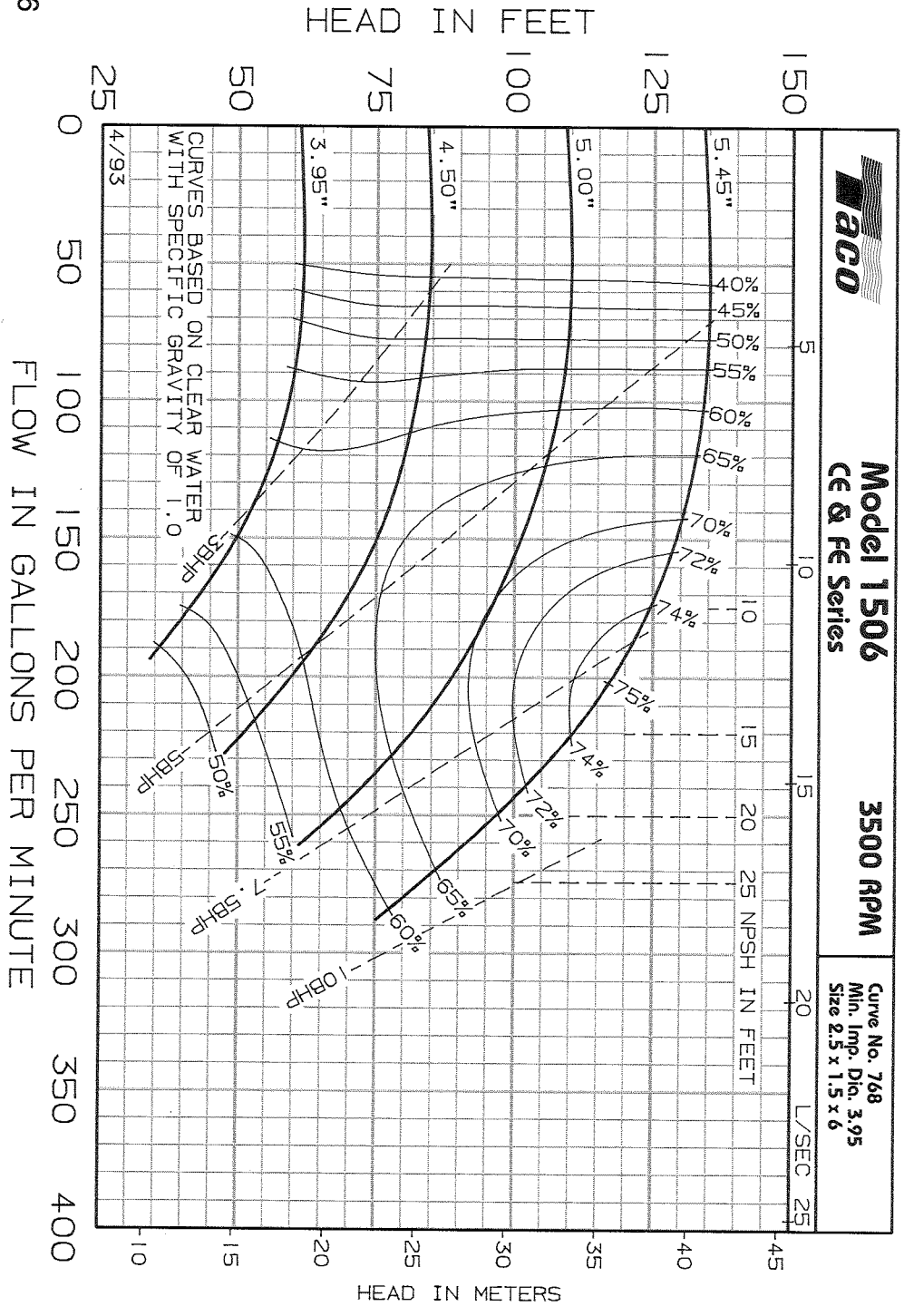
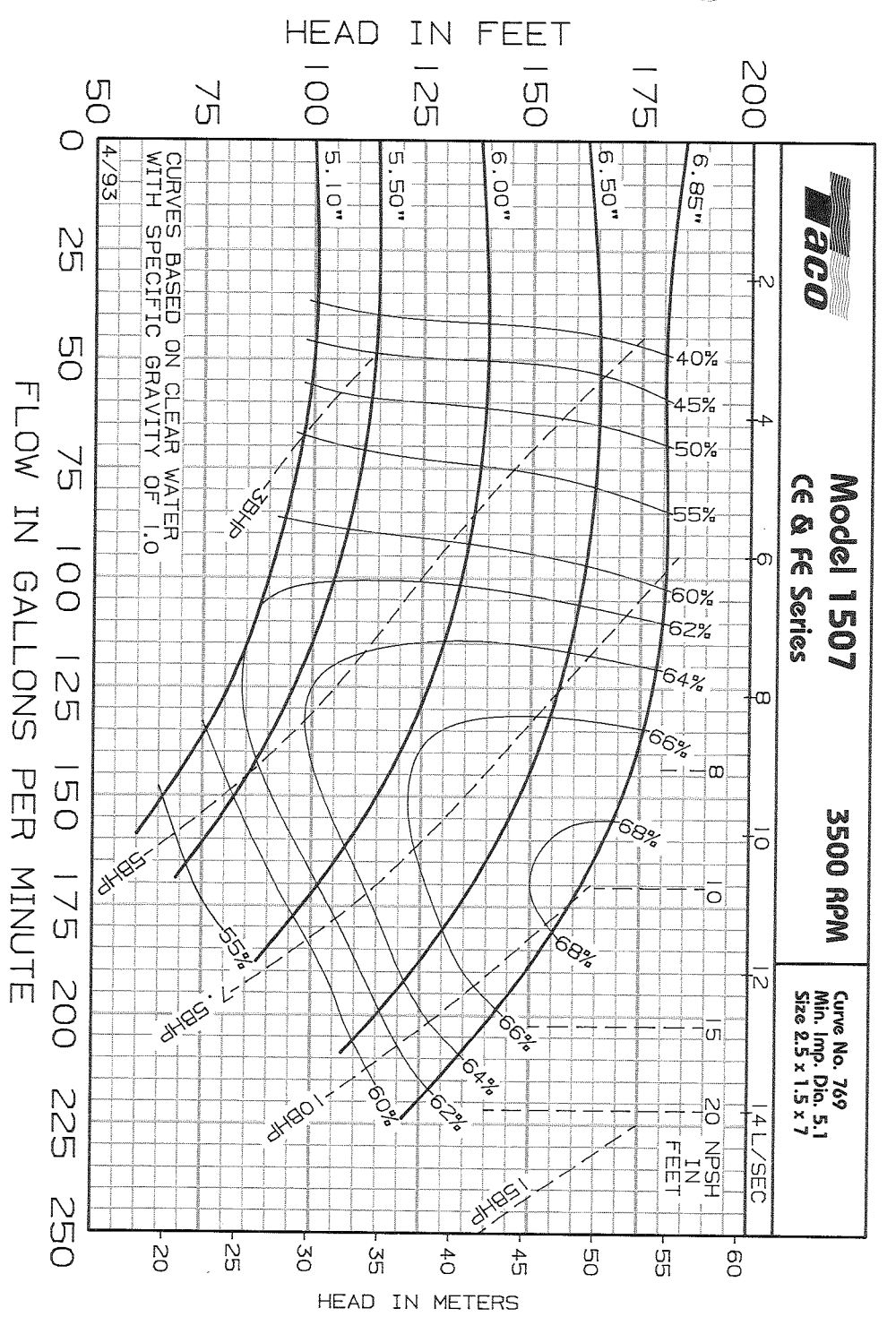
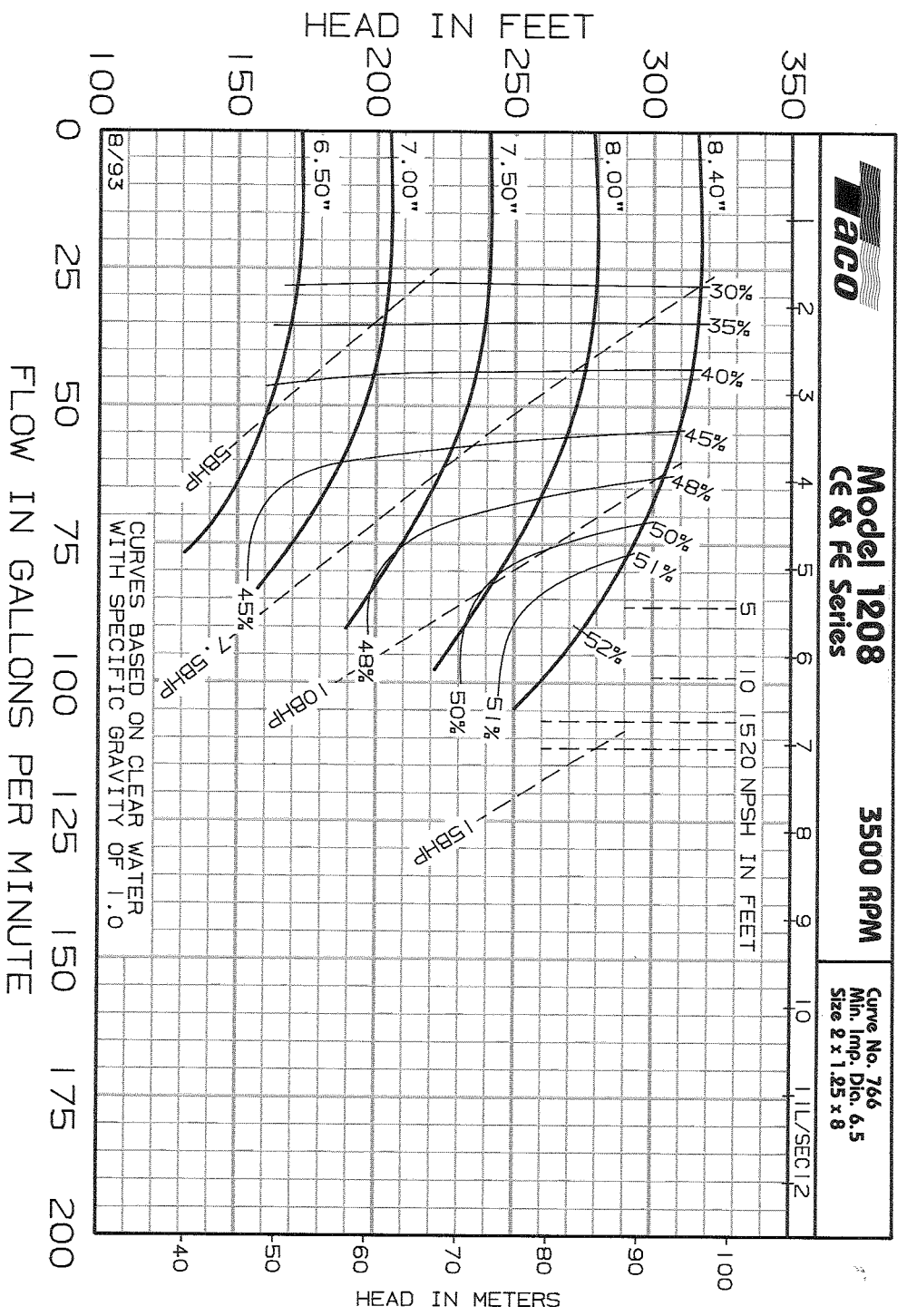




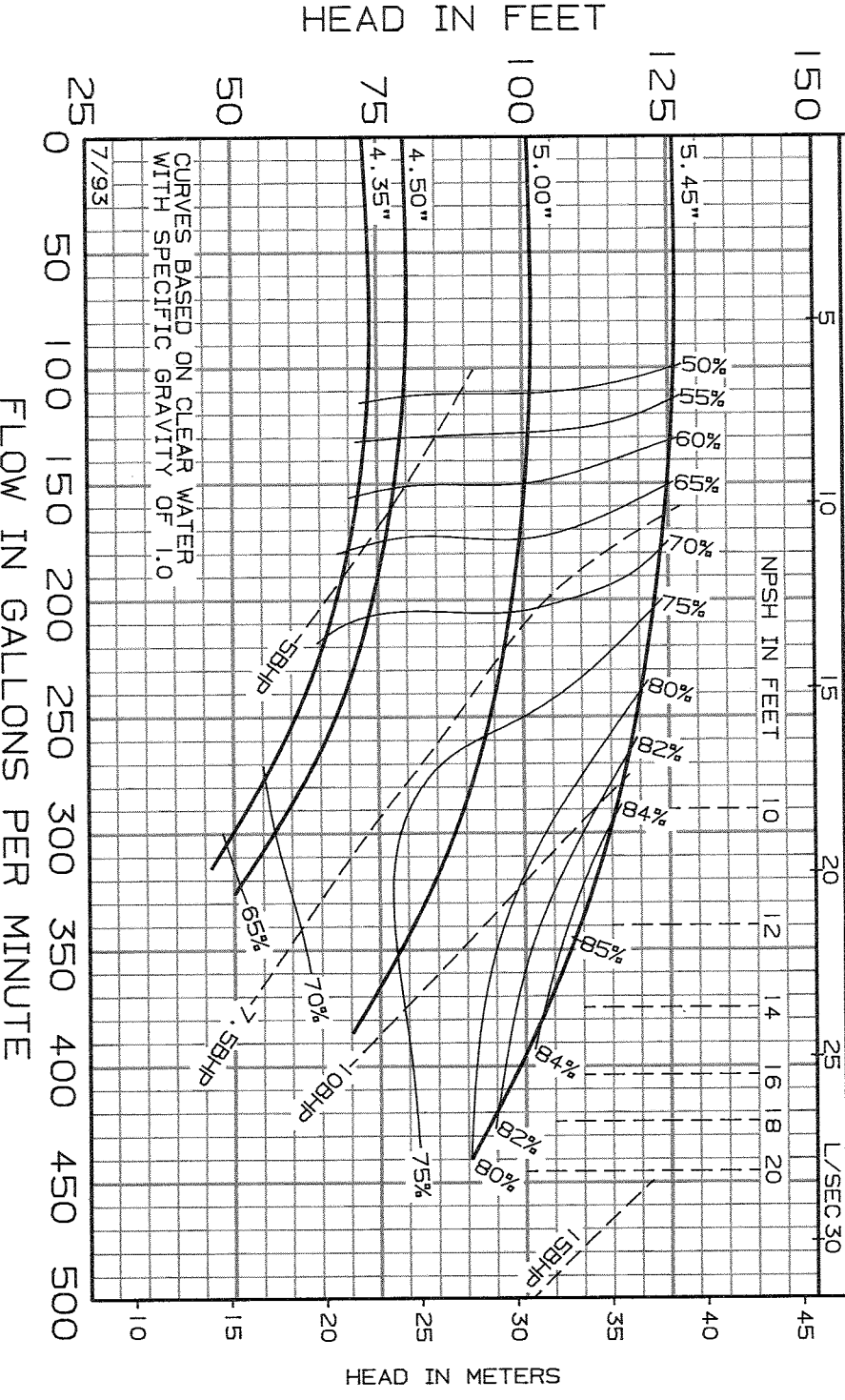




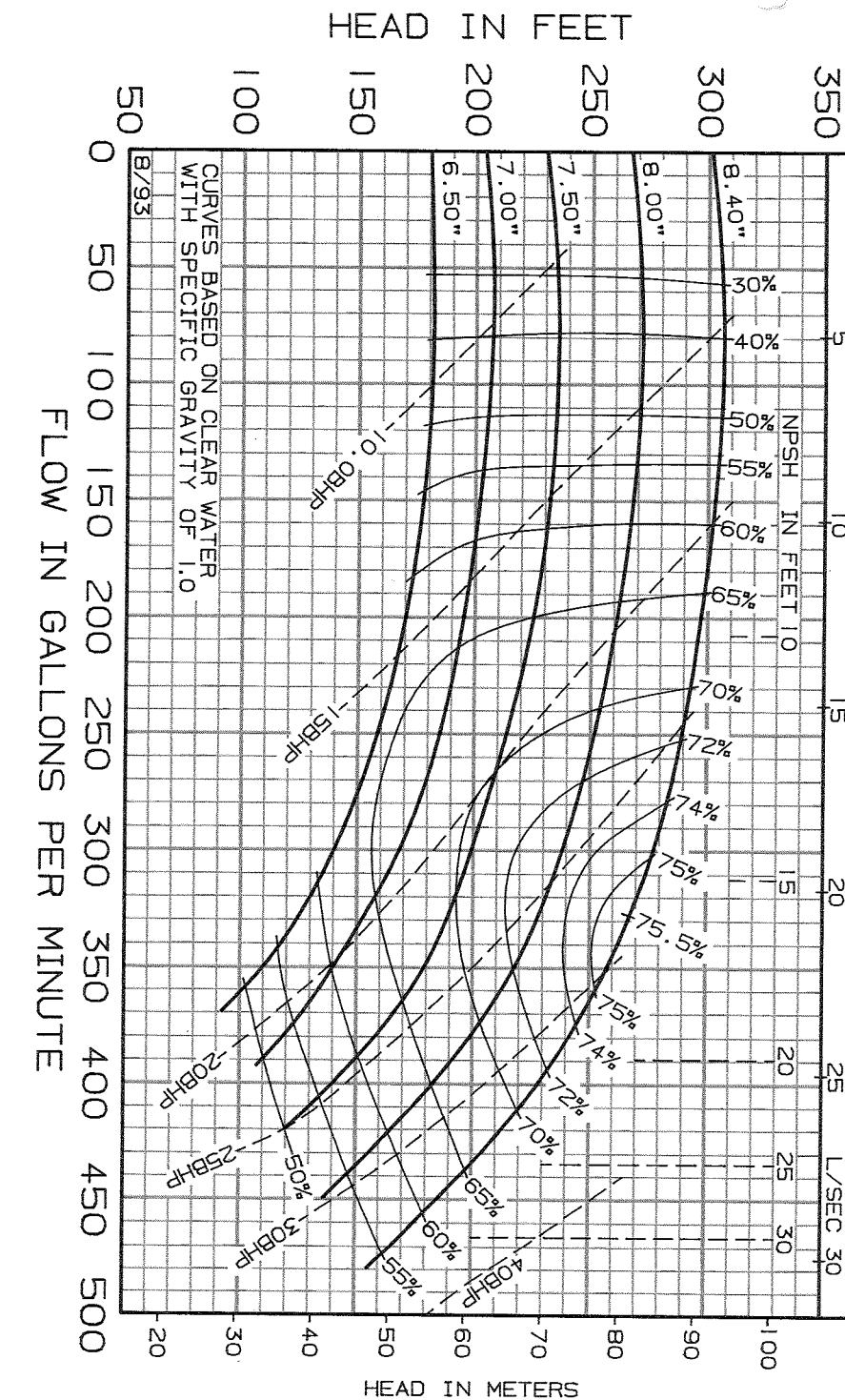




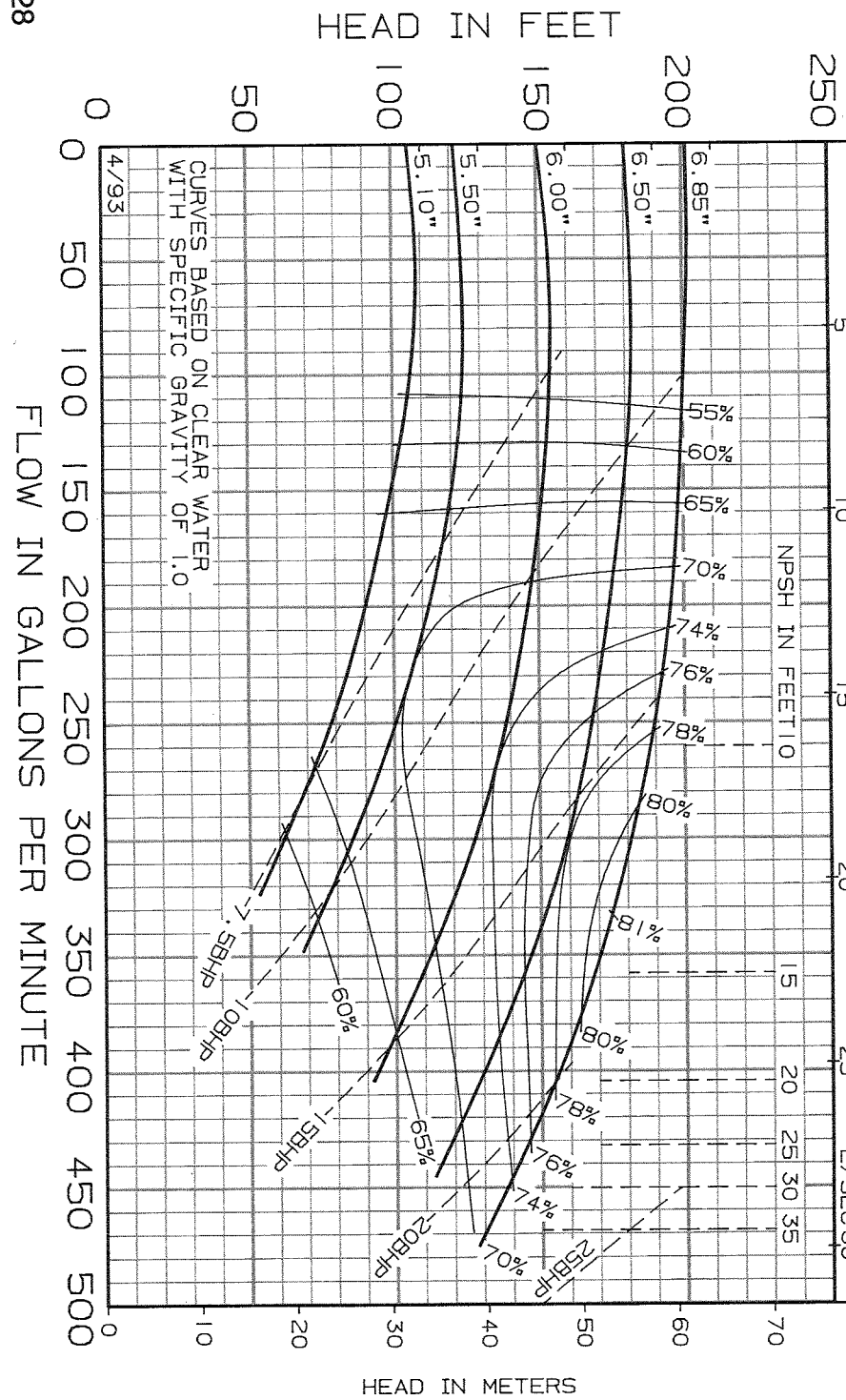
ACO **Model 2006** **3500 RPM**
 CE & FE Series **Curve No. 772**
 Min. Imp. Dia. 4.35
 Size 2.5 x 2 x 6



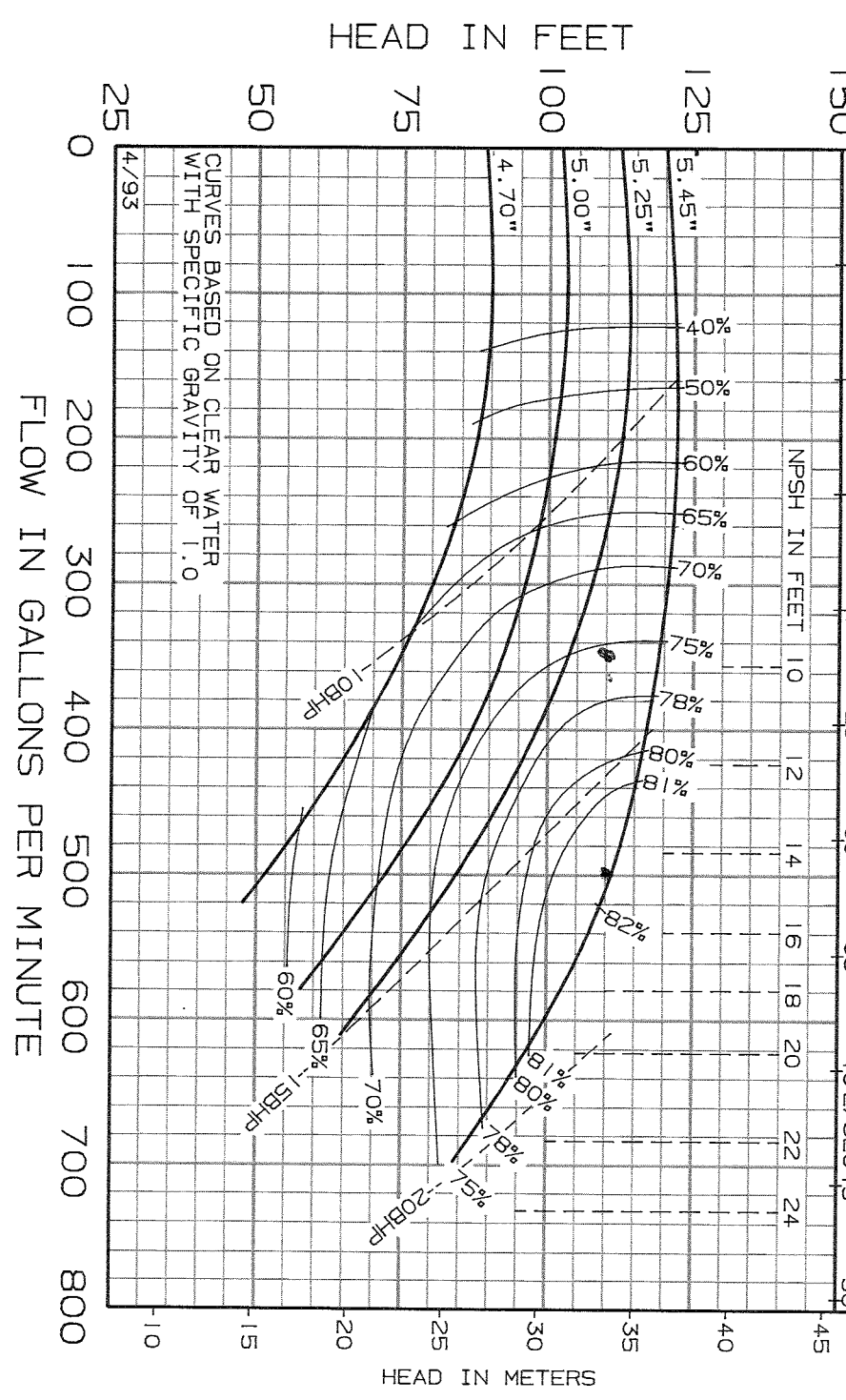
ACO **Model 2008** **3500 RPM**
 CE & FE Series **Curve No. 774**
 Min. Imp. Dia. 6.5
 Size 2.5 x 2 x 8

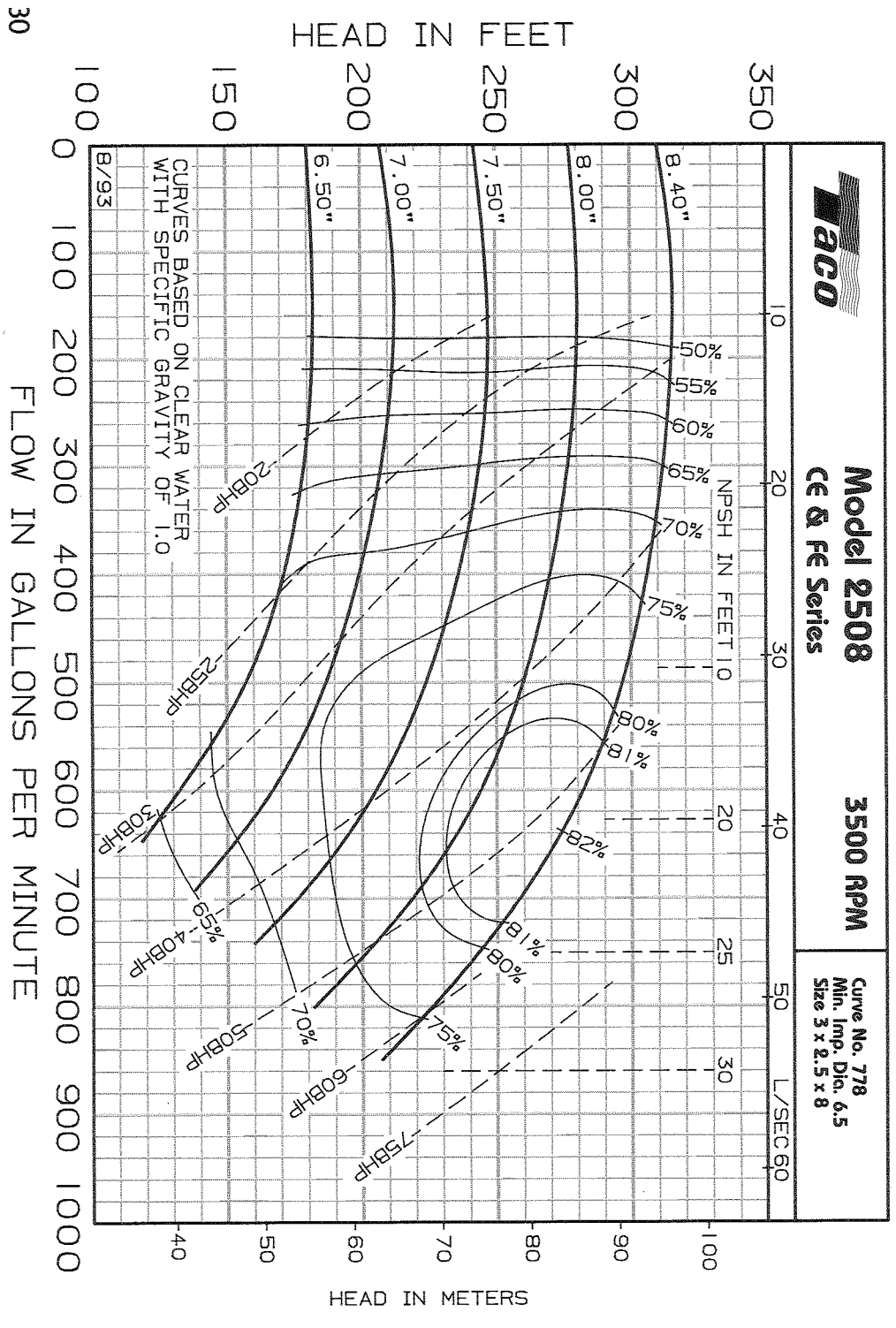
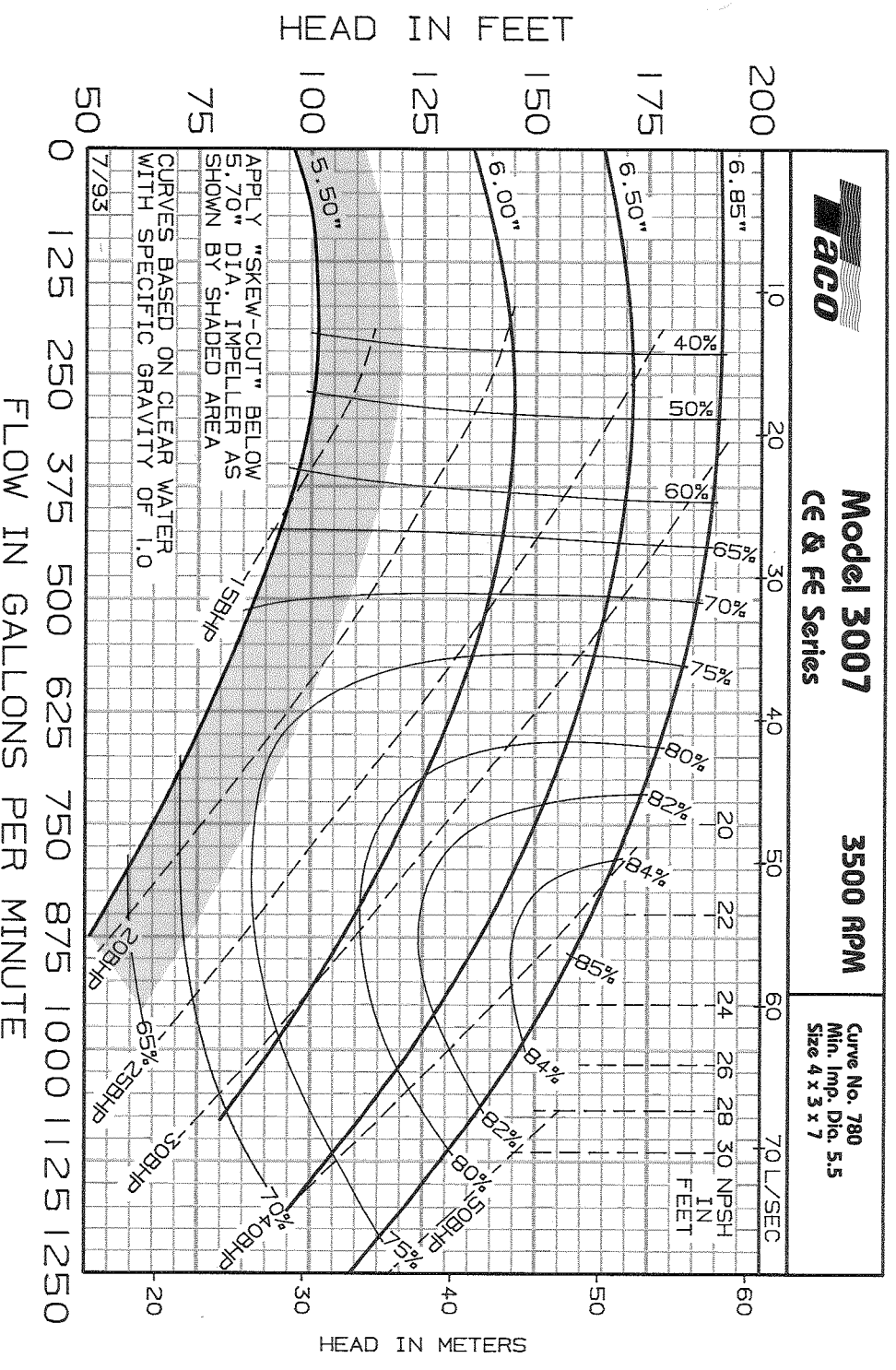
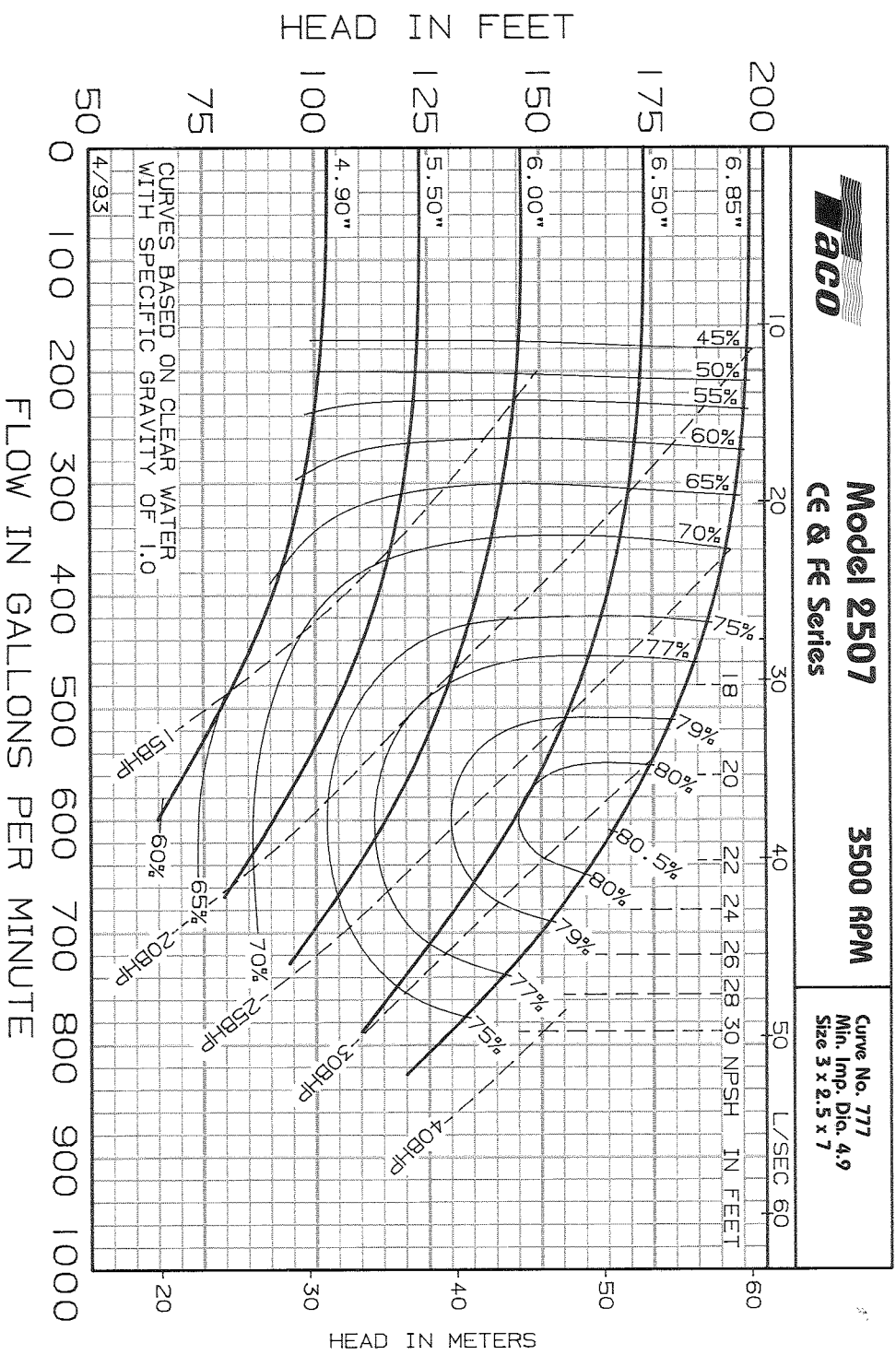


ACO **Model 2007** **3500 RPM**
 CE & FE Series **Curve No. 773**
 Min. Imp. Dia. 5.1
 Size 2.5 x 2 x 7



ACO **Model 2506** **3500 RPM**
 CE & FE Series **Curve No. 776**
 Min. Imp. Dia. 4.7
 Size 3 x 2.5 x 6







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