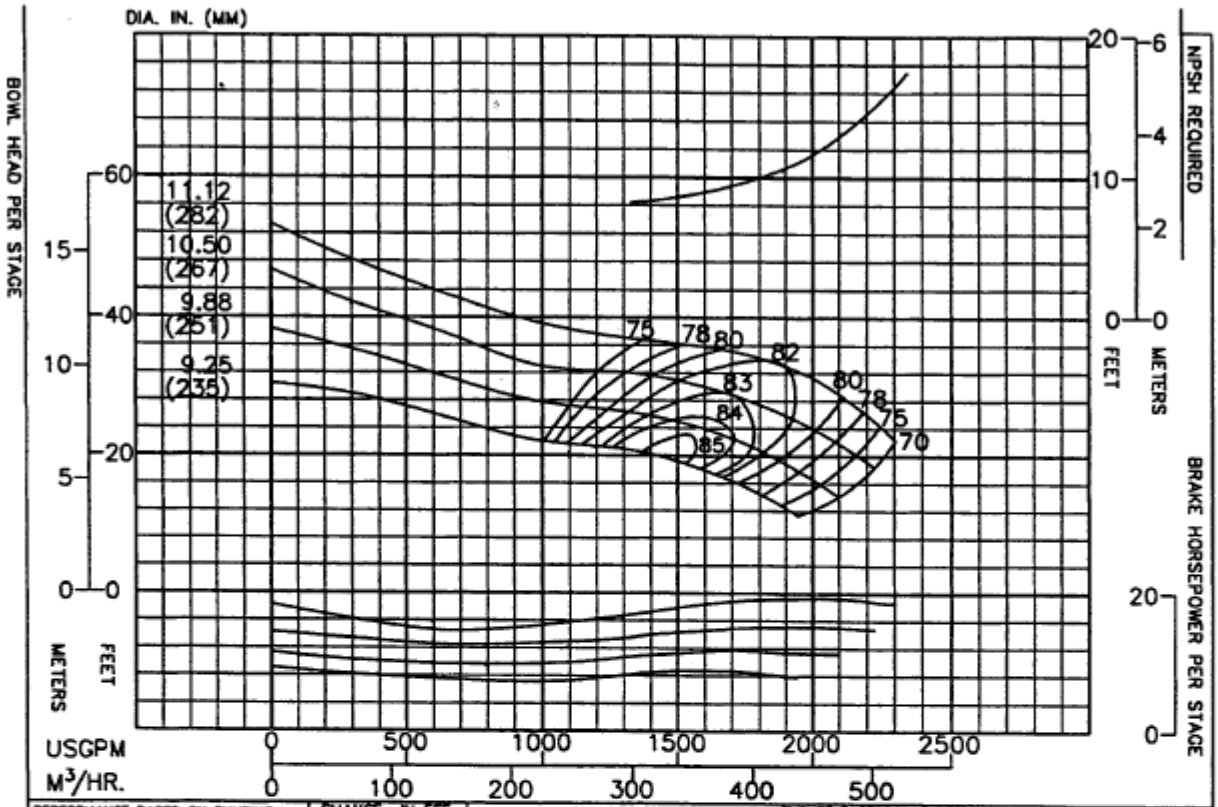
01-JUNE-2000
NEW SHEET

IMPELLER CURVES

14ENH/14NKH



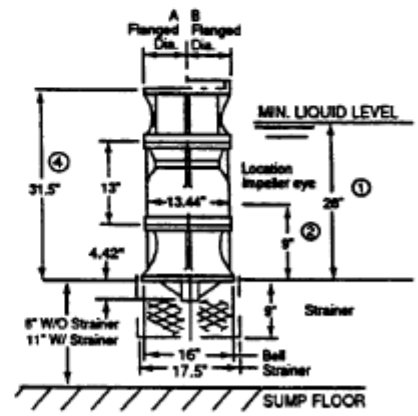
PERFORMANCE BASED ON PUMPING CLEAR WATER BELOW BEF. WITH LISTED MATLS. COLUMN LOSSES NOT INCLUDED.	CHANGE IN EFF. STAGES	POINTS
BOWL – CAST IRON – LINED	1	-2
IMPELLER – BRONZE	2	-1
	3	0

THRUST FACTORS AT BEP		
IMPELLER	LBS/FT	KG/M
STANDARD	13.4	20.0
EYE AREA – 36.5 SQ. IN.		

RPM	PUMP
1175	14ENH
ENCLOSED IMPELLER	CURVE NO.
N_s = 3700	EC–1379

Column	Nom. Size	Max. GPM	"A" Flanged	"B" Threaded
Optional	8"	1500	11.38"	11.38"
Standard	10"	3000	13.50"	13.44"
Optional	12"	5000	16.00"	13.75"
RATINGS				
Max. Pressure = 508 psi based on Class 30 Iron bowls				
Impeller and Shaft Weight = 43.0 pounds per stage				
Pump Shaft	Diameter = 1.94 inches			
	Max. HP. = 293 with 416 SS Pump Shaft			
Line Shaft Size	1.25	1.50	1.69	1.94
Line Shaft H.P.	77	133	192	293

Additional Data	
Max. Operating Speed.	2100
Max. No. of Stages	9
Max. Sphere Size	1.72
End Play	.81
WR 2 Per Stage	2.54
Bowl Ring Clearance	.004 - .005
Impeller Running Clearance (3)	.125



(1) Minimum submergence required to prevent vortex formation. The submergence needed to provide adequate NPSH to the first stage. Impeller may be greater or less than shown. The larger of the two values must be used to determine actual minimum allowable submergence.

(2) Location of eye of first stage impeller. Used to calculate NPSH. This is also the minimum priming submergence. (See note 1).

(3) Vertical Impeller to Bowl running clearance after shaft stretch.

(4) For Suction Case dimensions see sheets 20.26 and 20.29.

All Specifications Subject to Change Without Notice.