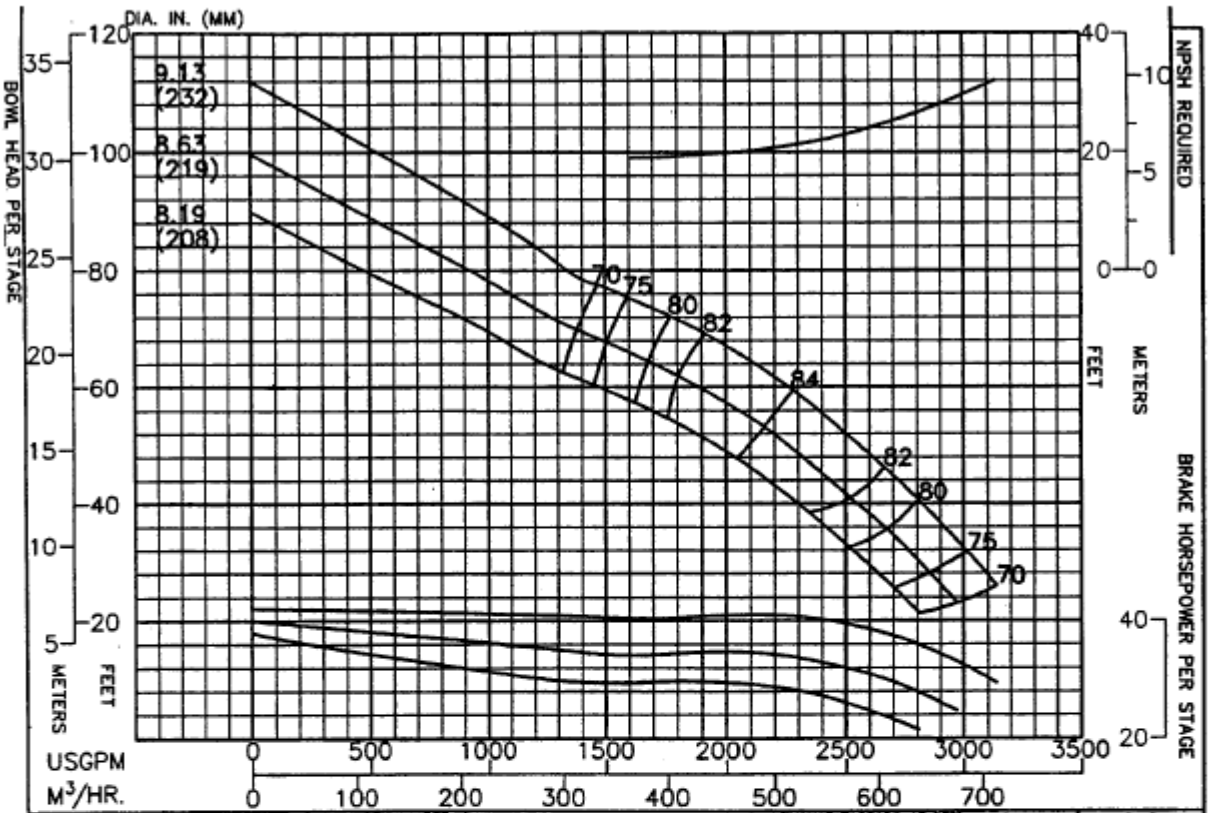
01-JUNE-2000
NEW SHEET

IMPELLER CURVES

14DM

FLOWSERVE

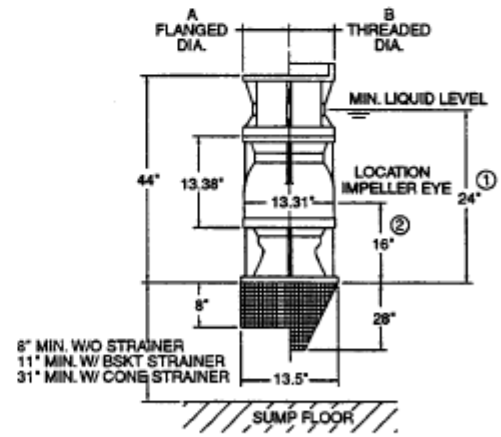


PERFORMANCE BASED ON PUMPING CLEAR WATER BELOW 85°F. WITH LISTED MAT'LS. COLUMN LOSSES NOT INCLUDED.	CHANGE STAGES	IN EFF. POINTS
BOWL – CAST IRON	1	-2
IMPELLER – BRONZE	2	-1
	3	0

THRUST FACTORS AT BEP			RPM	PUMP
IMPELLER	LBS/FT	KG/M	1775	14DM
STANDARD	34.0	50.7	SEMI-OPEN IMPELLER	CURVE NO.
BALANCED	----	----		EC–1898
EYE AREA–43.4 SQ. IN.			N_s = 3960	

Column	Nom. Size	Max. GPM	"A" Flanged	"B" Threaded
Optional				
Standard	10"	3000	13.50"	13.50"
Optional				
RATINGS				
Max. Pressure = 300 psi based on Class 30 Iron bowls				
Impeller and Shaft Weight = 39.0 pounds per stage				
Pump Shaft	Diameter = 2.19 inches			
	Max. HP. = 575 with 416 SS Pump Shaft			
Line Shaft Size	1.50	1.69	1.94	2.19
Line Shaft H.P.	200	288	440	575

Additional Data	
Max. Operating Speed.	2100
Max. No. of Stages	9
Max. Sphere Size	1.64
End Play	1.00
WR 2 Per Stage	CF
Bowl Ring Clearance	N/A
Impeller Running Clearance (3)	.010 - .015



(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.

CF–Contact Factory
N/A–Not Available

(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.

All Specifications Subject to Change Without Notice.