

11H
7000
1770
RPM

The chart displays the performance characteristics of the 1000 Series centrifugal pump. The X-axis represents flow rate in U.S. GPM (0 to 2000). The left Y-axis represents Total Head in Feet (0 to 80). The right Y-axis represents Net Positive Suction Head (NPSHR) in Feet (0 to 20). The chart includes efficiency curves (65.5, 70.5, 75.5, 80.5, 85.5, 90.5, 95.5), NPSHR curves, and BHP curves (1.75, 2.5, 3.5, 4.5, 5.5, 6.5, 7.5). A dashed line indicates the maximum flow rate of 1800 GPM.

NUMBER OF STAGES	EFFICIENCY CHANGE
1	-2.5 POINTS
2	-1.5 POINTS
3	-0.5 POINTS
4	NO CHANGE
5	NO CHANGE
6 OR MORE	NO CHANGE

IMPELLER MATERIAL	EFFICIENCY CHANGE
CAST IRON	-1.0 POINTS
BRONZE	NO CHANGE
ENAMELED C.I.	+ 1.0 POINTS

Technical drawing of a vertical pump assembly. The drawing shows a cross-section of the pump with various dimensions and labels. Key dimensions include:

- 8" COLUMN (top section)
- 17.50 (vertical dimension from top of column to top of pump body)
- 6.00 (vertical dimension from top of pump body to top of motor housing)
- 23.67* (vertical dimension from top of motor housing to top of pump body)
- 25.99* (vertical dimension from top of motor housing to top of pump body)
- 9.47 (vertical dimension from top of pump body to top of motor housing)
- 9.62 D. (horizontal dimension from centerline to outer edge of motor housing)
- 11.48 D. (horizontal dimension from centerline to outer edge of pump body)
- 20.47* (vertical dimension from top of pump body to top of motor housing)
- 4.05 (vertical dimension from top of pump body to top of motor housing)
- 5.34 (vertical dimension from top of pump body to top of motor housing)
- 11.38 D. (horizontal dimension from centerline to outer edge of pump body)
- 8" COLUMN (bottom section)
- MINIMUM WATER LEVEL 30*** (indicated by a wavy line and text)

DATA	VALUE
MAXIMUM OPERATING SPEED	2700 RPM
MAXIMUM NUMBER OF STAGES	10**
PUMP SHAFT DIAMETER	1 7/8 IN.
IMPELLER EYE AREA	22.40 SQ. IN.
MAXIMUM SPHERE SIZE	.88 IN.
K _t (THRUST FACTOR)	8.71 LBS./FT.
K _s (ROTOR WT. PER STAGE)	33 LBS.
BOWL WT. (FIRST STAGE)	236 LBS.
BOWL WT. (EACH ADD'L. STAGE)	115 LBS.
ALLOWABLE SHAFT STRETCH	.80 IN.**
WK ² (FIRST STAGE)	1.90 LBS.-FT. ²
WK ² (EACH ADD'L. STAGE)	1.87 LBS.-FT. ²
BOWL RING CLEARANCE	.014/.018 IN.

*** This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.