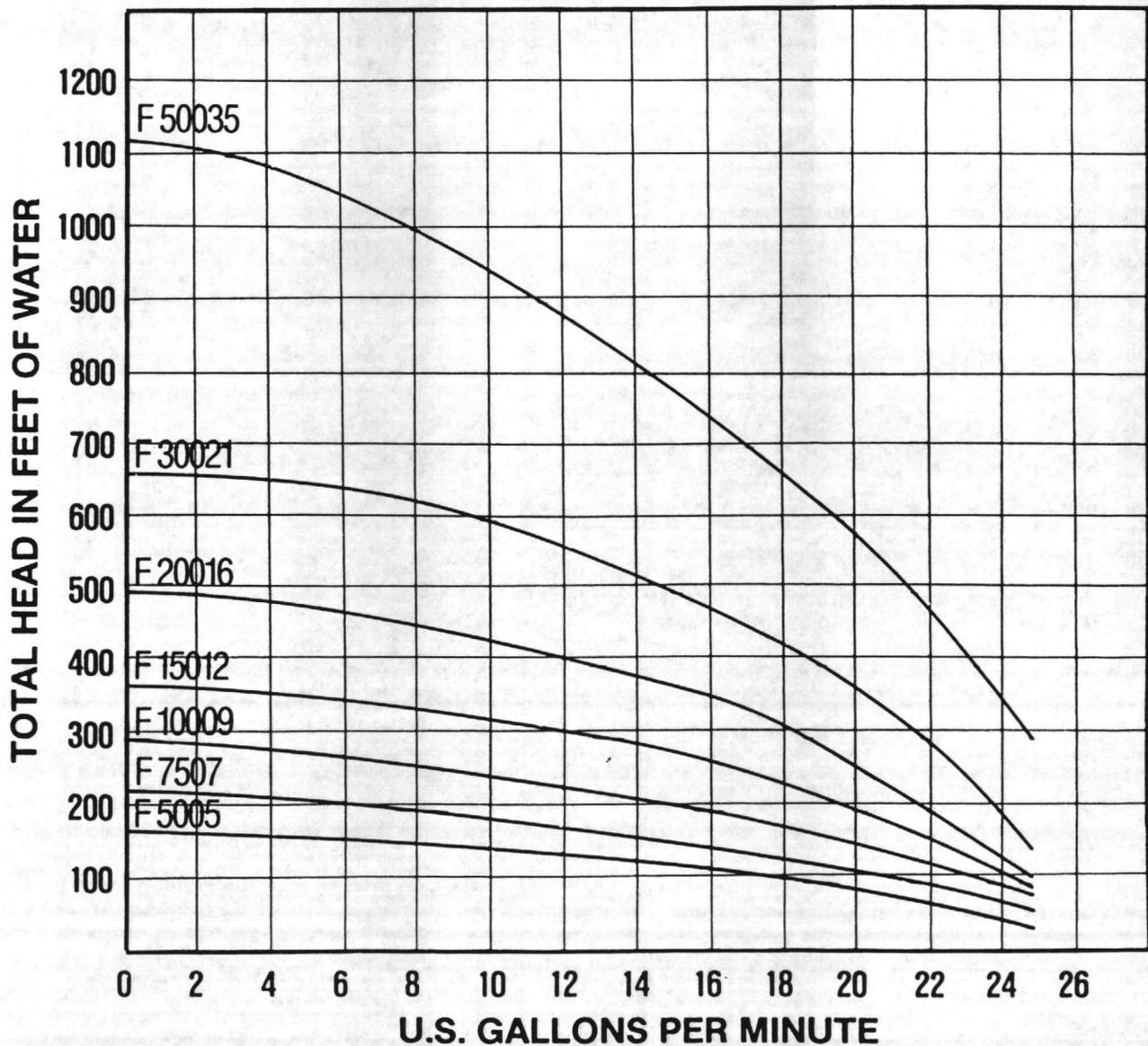




Fairbanks Morse
Pump Corporation

18 G.P.M. "F" SERIES SUBMERSIBLE PUMPS

F SERIES





FEATURES

3417

Straight line bowl design includes heavy-walled cast iron discharge cone with integral upthrust bearing. Positive upthrust adjustment assured by heavy brass plug positively secured by brass locking pin.

Brass suction and discharge bowl bearings, natural rubber intermediate bowl bearings.

Discharge housing, bowls and suction bracket of close grain cast iron. Cast bronze, semi-open impeller design secured by steel lock collets. Pump shaft and coupling of 416 stainless steel.

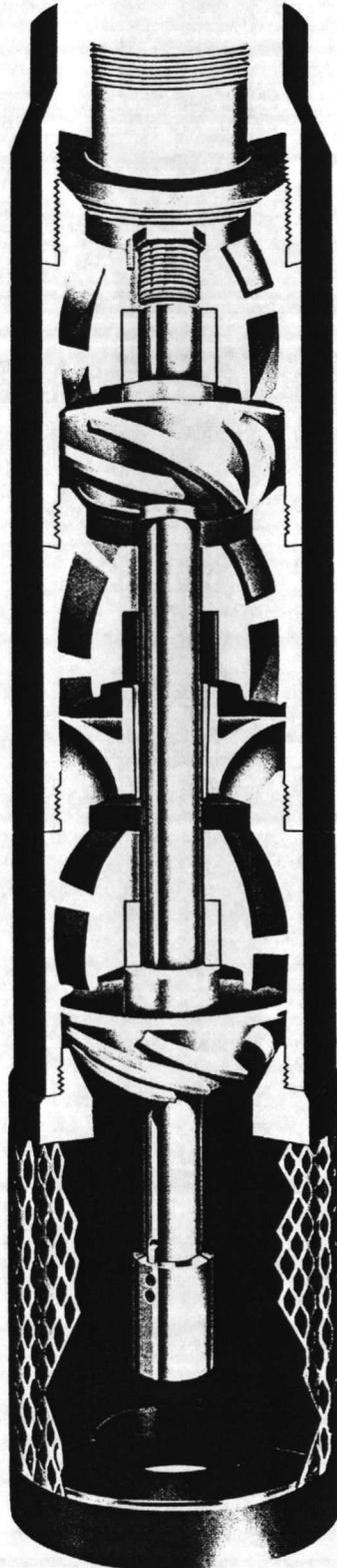
3412

Heavy cast iron discharge adapter incorporates integral top bearing housing. Conical shaped steel sand collar, positively secured to the shaft, provides protection against the entry of sand into grease packed bearing cavity.

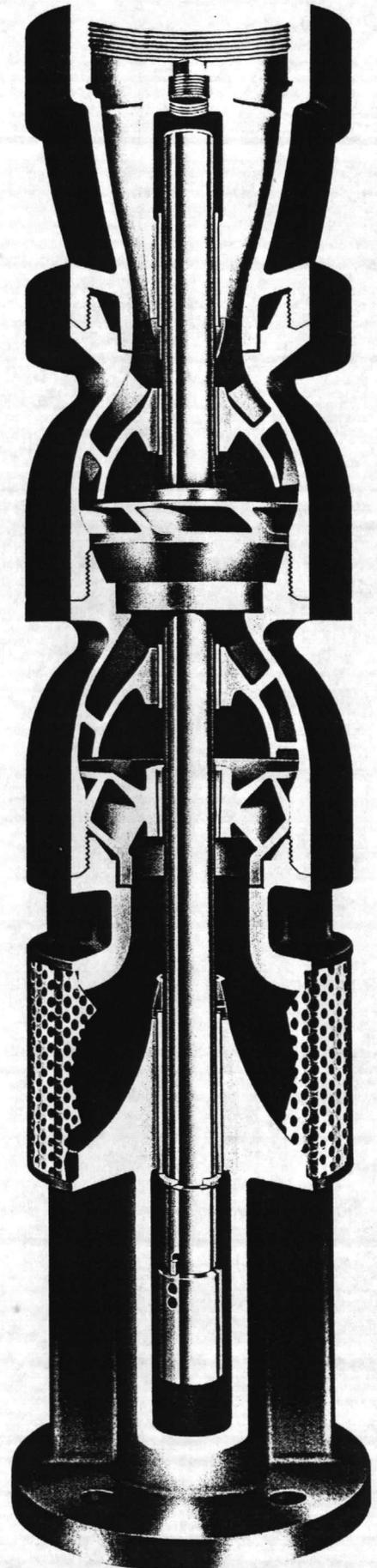
Close grain cast iron bowls, bronze bowl bearings, 416 stainless steel pump shaft, drive couplings and cast bronze enclosed impellers.

Suction entrance designed to provide optimum performance with minimum submergence.

Positive upthrust protection achieved by a brass thrust collar retained by a stainless steel snap ring, secured to the pump shaft below the suction bearing.

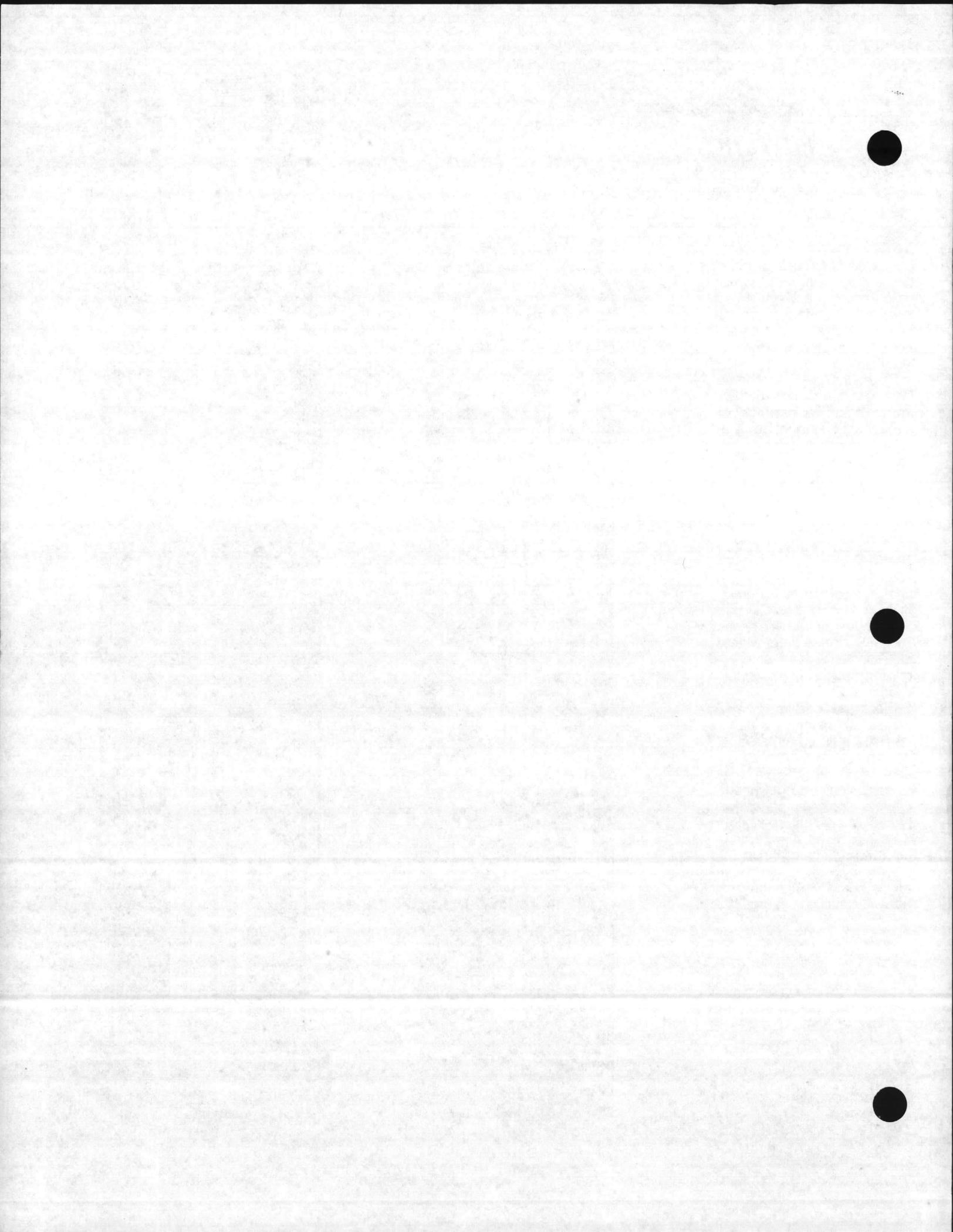


3417



3412

FRONT COVER: Four
BM 3412 with 8"
motor at
Fairbanks Morse Test Facilities.

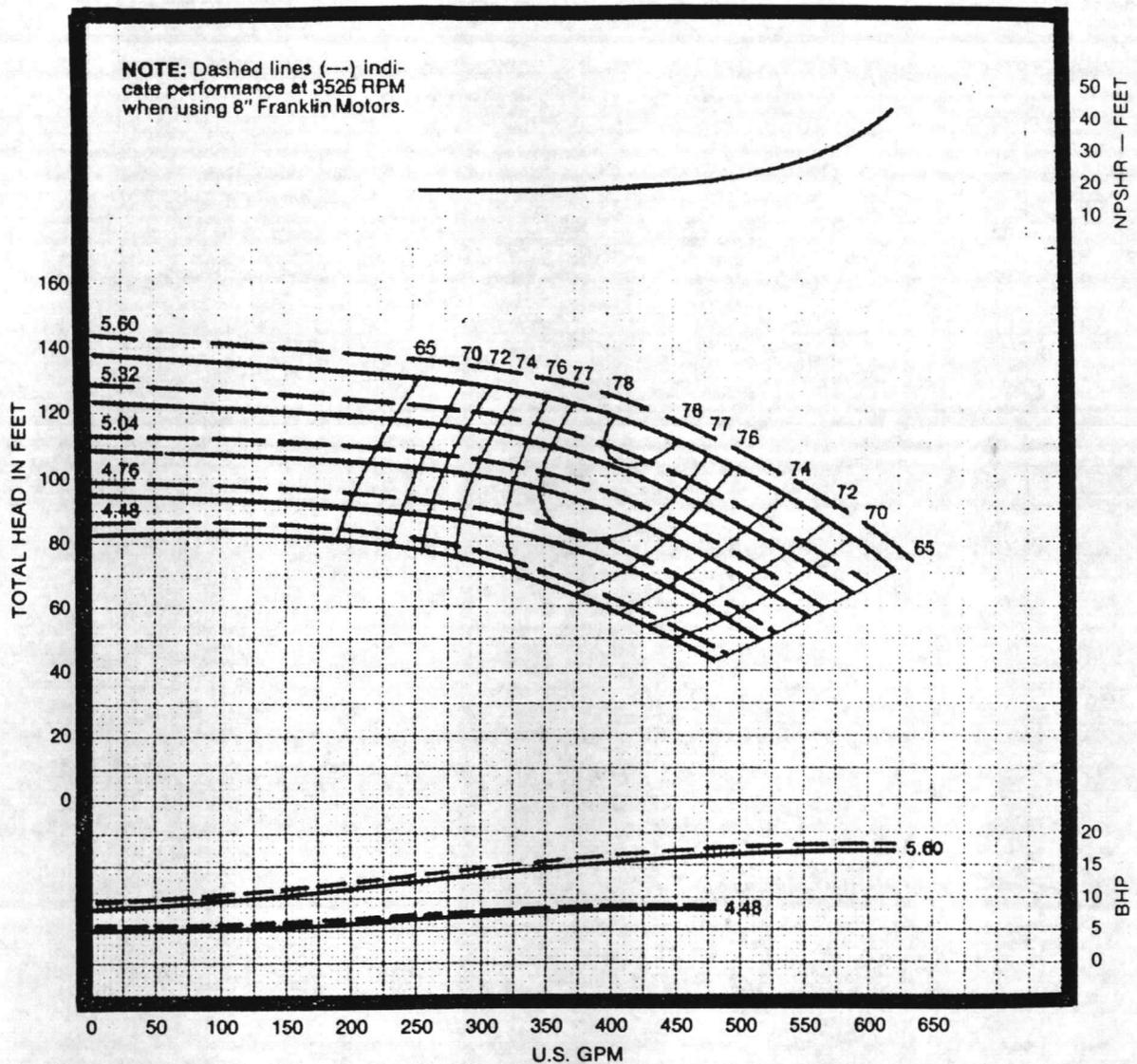


3400 TURBINE SUBMERSIBLE PUMPS SINGLE STAGE PERFORMANCE

JANUARY 1, 1985

3412

**3450
RPM**

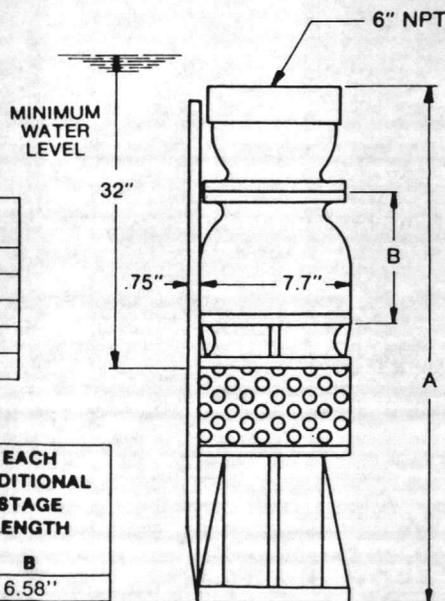


EFFICIENCY CORRECTION

NUMBER OF STAGES	EFFICIENCY CHANGE
1	-7.0
2	-3.0
3	-1.0
4	NO CHANGE
5 OR MORE	NO CHANGE

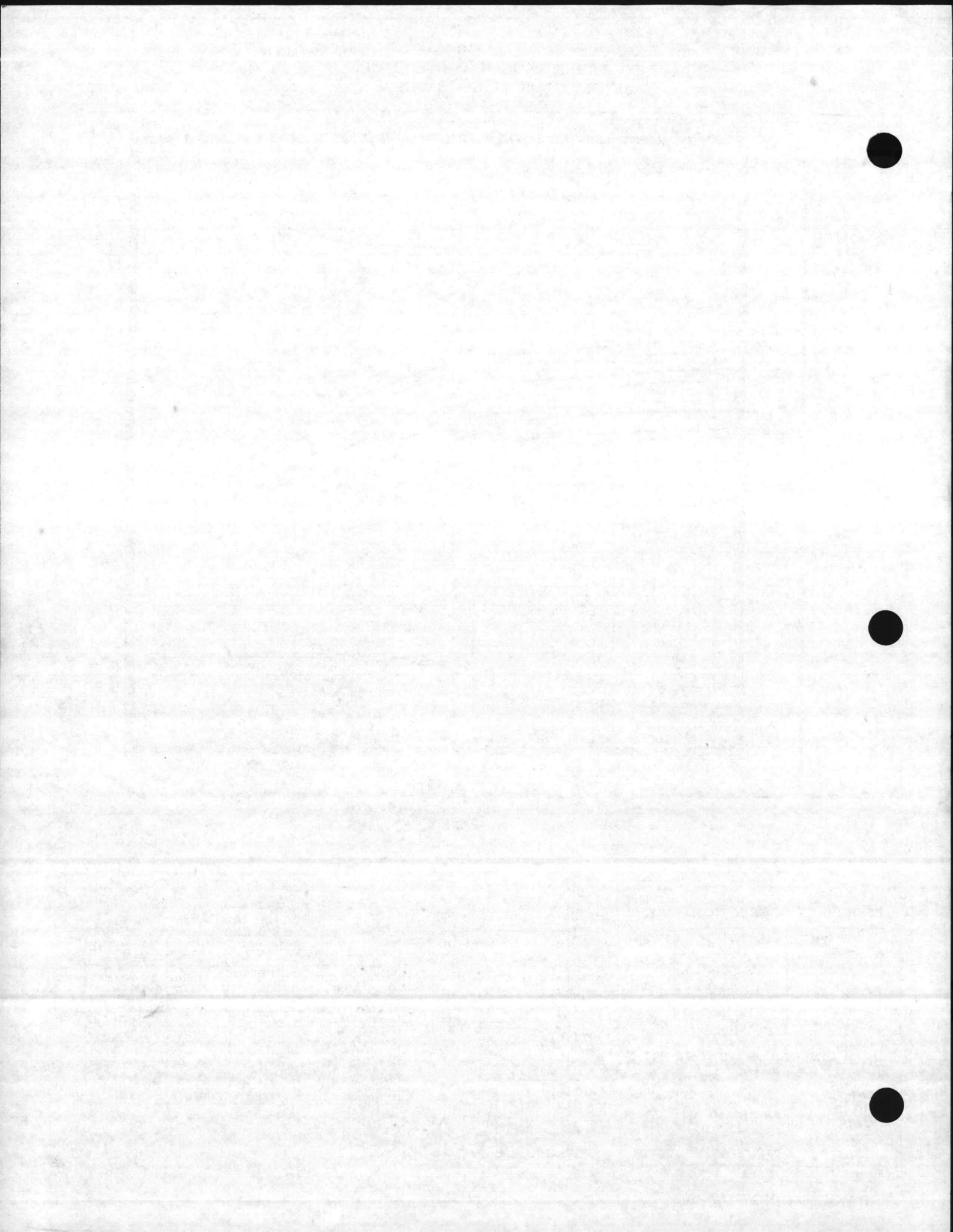
DIMENSIONAL DATA

NOMINAL ROTOR DIAMETER	FIRST STAGE LENGTH	EACH ADDITIONAL STAGE LENGTH
	A	B
6"	17.87"	6.58"
8"	19.81"	6.58"



TECHNICAL DATA

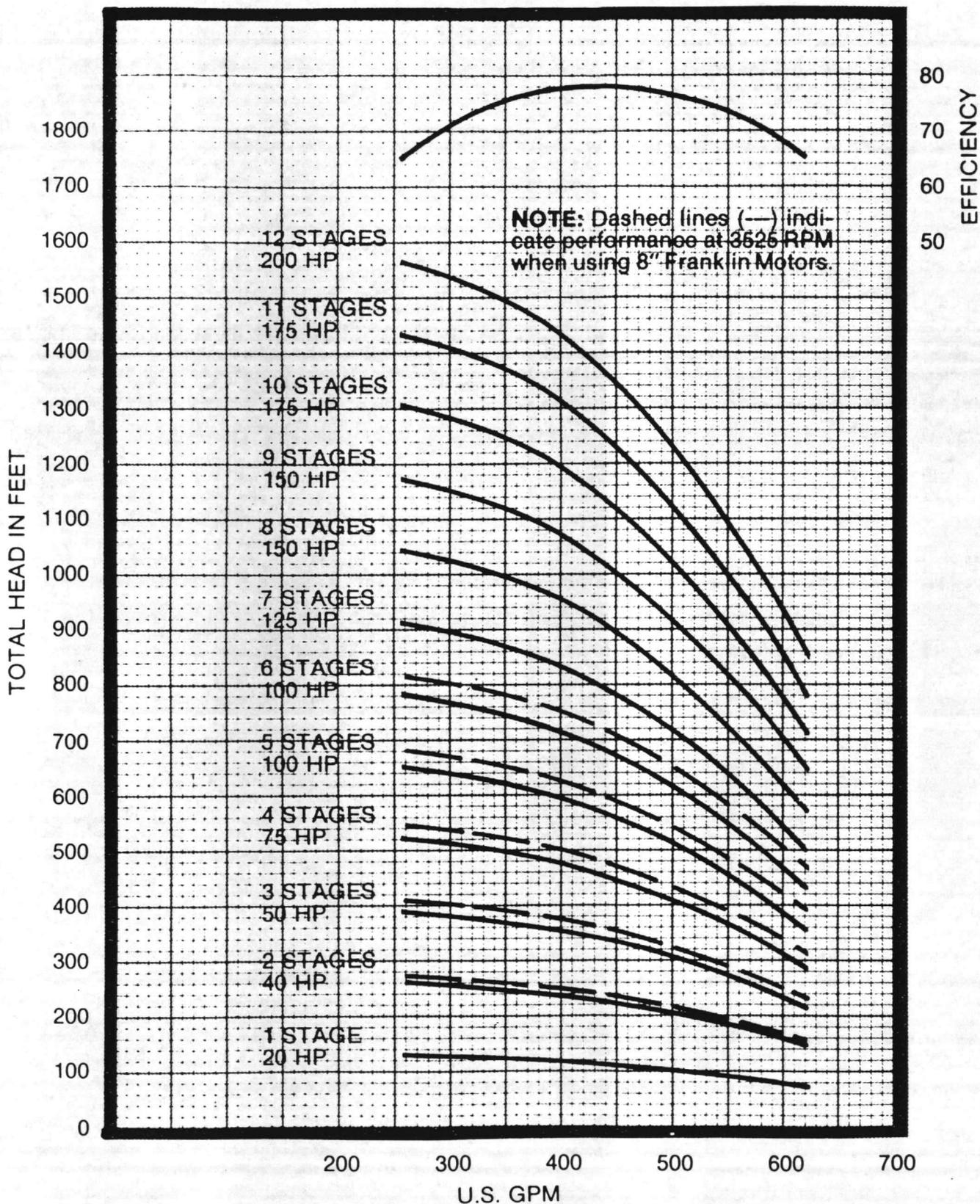
DATA	VALUE
OPERATING SPEED	3450 RPM
MAXIMUM NUMBER OF STAGES	12
PUMP SHAFT DIAMETER	1 3/8 IN.
IMPELLER EYE AREA	6.93 SQ. IN.
MAXIMUM SPHERE SIZE	.56 IN.
K _t (THRUST FACTOR)	2.32 LBS./FT.
K _a (ROTOR WT. PER STAGE)	5.25 LBS.
BOWL WT. (FIRST STAGE)	95 LBS.
BOWL WT. (EACH ADD'L. STAGE)	31 LBS.
MINIMUM WELL DIAMETER REQUIRED	10 IN.



3400 TURBINE SUBMERSIBLE PUMPS
 3412 COMPOSITE STAGED PERFORMANCE
 8M @ 3450 RPM

JANUARY 1, 1985

19



These curves are based on full diameter impellers.
 Refer to the single stage performance for sizing the pump to meet the requirements of a specific application.

