

# TERRY TURBINE DATA

## OPERATING CONDITIONS

RATED  
1 H.V. CLOSE  
ALL CLOSED

HORSEPOWER	SPEED RPM	STEAM RATE LB/HP/HR	OPERATING SPEED RANGE R.P.M.
3696	4010		3300/4010
3360	3750		
1530	3750	8.6	

1st CRITICAL SPEED 2400 RPM \*2nd CRITICAL SPEED RPM, TRIP SPEED 4150 RPM

## STEAM CONDITIONS

INLET STEAM NORM. 700 PSIG 725 °FTT, MAX: INIT. PSIG °FTT, MIN: INIT. PSIG °FTT  
EXHAUST STEAM NORM. 26 PSIG/VAC °FTT, MAX. 26 PSIG/VAC °FTT, MIN. 26 PSIG/VAC °FTT  
STEAM RATE GUARANTEE POINT, HP 3696 STEAM 700 PSIG, EXH. 126 °FTT, LB/HP/HR 8.6  
FULL LOAD EXHAUST TEMP. 126 FTT, MAX. CASING PRESS. PSIG, SENTINEL RELIEF VALVE SETTING 5 PSIG  
EXTRACTION ☐ ADMISSION ☐ NON RETURN VALVE ☐ EXTRACTION FLOW CONTROLLED ☐ UNCONTROLLED ☐

	FLOW LB/HR	PSIG	FTT
NORMAL			
MINIMUM			
MAXIMUM			

FOR RELIEF VALVE SIZING  
MAX: THROTTLE FLOW LB/HR  
AT STEAM PSIG EXHAUST °FTT  
MAX: FLOW TO CONDENSER LB/HR @ IN Hg

## CONSTRUCTION FEATURES

FRAME DESIGNATION TYPE F-17 HORIZONTAL ☒ VERTICAL ☐ CASING SPLIT: - HORIZONTAL ☒ VERTICAL ☐  
STEAM FLOW: HELICAL (SOLID WHEEL) ☐ AXIAL (BLADED) ☒ NUMBER OF WHEELS 17  
STAGES: PRESS. COMPOUND (RATEAU) ☐ VELOCITY COMPOUND (CURTIS) ☒ BLADES: TWO ROW ☒ THREE ROW ☐  
ROTOR CONSTRUCTION: BUILT-UP ☒ SOLID ☐  
STEAM CHEST ☐ STEAM RING ☒ JETS ☐ NOZZLE BLOCK ☒ REV: CHAMBERS ☐ RATEAU (NO JETS OR NOZZ.) ☐  
NOZZLE GROUP POSITIONS. 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐  
NO. NOZZLES 11 DIAMETERS .359375  
NO. NOZZLE GROUPS 4 NO. IN EACH GROUP 5-3-2-1  
HAND VALVES: - LOW STEAM ☐ PART LOAD (ECON) ☒ OVERLOAD ☐ AUTO. VALVES ☐ POSITION 4-7-9

NOTE: JETS, HAND VALVES AND NOZZLE GROUPS POSITIONS ARE NUMBERED IN A CLOCKWISE DIRECTION STARTING JUST BELOW THE CASING HORIZONTAL JOINT AT THE RIGHT HAND SIDE WHEN FACING THE STEAM RING OR STEAM CHEST FROM THE TURBINE HIGH PRESS. END.

ROTATION FACING COUPLING END: - CW ☐ CCW ☐ CASING SUPPORT: FOOT ☒ PEDISTAL ☐ CENTERLINE ☐  
BEARINGS (ROTOR): - RADIAL TYPE ☒ THURST TYPE 6 KINGSBURY JHS  
LUBRICATION: - RING OILED ☐ FORCE FEED ☐ CIRCULATING ☒ FROM: - TURBINE ☒ GEAR ☐ BY OTHERS ☐  
OVERSPEED TRIP: - MECHANICAL ☐ DISC TYPE ☐ PIN TYPE ☒ ELECTRICAL ☐ HYDRAULIC ☐  
TRIP VALVE BUTTERFLY ☐ BALL ☐ TRIP AND THROTTLE ☒  
TRIP AND THROTTLE VALVE: - NONE ☐ OPERATE: - AIR ☐ MOTOR ☐ HYDRAULIC ☒ MANUAL ☒  
TRIP: - MECHANICAL ☐ HYDRAULIC ☐ SOLENOID ☒ AIR ☐ EXH. PRESS. ☐ MANUAL ☐ MANUF. GIMPEL  
INTERSTAGE GLAND SEALS: - CARBON ☐ LABYRINTH ☒ LABY  
END GLAND SEALS: - CARBON ☒ LABYRINTH ☐ No: GOVERNOR END No: COUPLING END 4 CARBON  
GLAND SEAL SYSTEM: - PRESSURE LEAK-OFF ☐ VACUUM CONDENSING ☒

TURBINE CONNECTIONS	SIZE	RATING	FLANGE FACE	POSITION
INLET	3"	600" ASA	RF	LH FACING COUPLING
EXHAUST	30"	125" ASA	FF	UP
EXTRACTION				
ADMISSION				

GOVERNOR TYPE: - MECHANICAL ☐ HYDRAULIC ☐ ELECTRICAL ☐ AIR HEAD ☒ NEMA CLASS D  
GOVERNOR VALVES: - SINGLE ☒ MULTI ☐ NO ☐ BUTTERFLY ☐ BY OTHERS ☐  
ACTUATION: - DIRECT ☐ INDIRECT ☒ REMOTE SERVO ☐ OIL RELAY ☐  
GOVERNOR MANUFACTURER Woodward MODEL PG-PL  
COUPLING SUPPLIED BY: - TERRY ☐ OTHERS ☒ HIGH SPEED ☐ TYPE LOW SPEED ☐ TYPE  
BASE TYPE: - BOX ☒ PLATE ☐ "I" BEAM ☐ SOLEPLATES ☐ UNDER TURBINE ☒  
UNDER TURBINE AND GEAR ☐ UNDER TURBINE AND DRIVEN EQUIPMENT ☐ NONE ☐

WEIGHTS AND DIMENSIONS: SEE OUTLINE DRAWING

NOTE\* WHEN APPLICABLE TO ORDER.

TURBINE SERIAL NO. 37871ABC