



SPECIAL NOTE:
 INDUSTRIAL STEAM PIPING TO BE SUPPORTED FROM BASE, SADDLE, OR PADS LOCATED BEFORE HYDRO TEST. CUSTOMER PIPING TO SERVICE CONNECTIONS AND VESSEL OPENINGS SHOULD NOT APPLY GREATER THAN 100 LBS. FORCE AND 200 IN.-LBS MOMENT IN ALL DIRECTIONS (PIPING MUST BE SUPPORTED). SAFETY VALVE OUTLETS SHOULD HAVE DRIP PAN ELBOWS. DO NOT WELD TO PRESSURE VESSEL AFTER HYDRO TEST.

NO.	QTY.	DESCRIPTION	SIZE	MANUFACTURER	MODEL	NO.	QTY.	DESCRIPTION	SIZE	MANUFACTURER	MODEL
26											
25											
24											
23											
22											
21											
20	2	TEMPERATURE GAUGE (50°-400°F)	5"	ASHCROFT	50E160R						
19	1	Y-STRAINER (SHIP LOOSE)	6"	MUESSCO	No.752						
18	1	PRESSURE GAUGE (0-15#)	6"	ASHCROFT	2462						
17	1	GATE VALVE (VENT)	1 1/2"	GRINNELL	6020A						
16	2	GATE VALVE (COLUMN CONN.)	1 1/2"	VOGT	SW12141						
15	1	COMPRESSION COUPLING (MAKE-UP LINE)	6"	SMITH-BLAIR	400 SERIES						
14	1	STEAM NOZZLE	16"	IND. STM	STD-148B						
13	1	GATE VALVE (DRAIN)	2"	IND. STM	125#						
12	1	GLOBE VALVE (MAKE-UP LINE)	6"	GRINNELL	6200A						
11	2	GATE VALVE (MAKE-UP LINE)	6"	GRINNELL	6020A						
10	1	OVERFLOW TRAP	6"	HOPPES	HT-6						
9	1	LOW WATER ALARM		MERCOID	123-153						
8	1	HIGH WATER ALARM		MERCOID	123-153						
7	1	LOW WATER PUMP CUT-OFF ALARM		MERCOID	123-153						
6	2	WATER LEVEL GAUGE GLASS	48" LG	UNITED	A905/A946						
5	1	MAKE-UP NOZZLE	8"	IND. STM	STD-148B						
4	1	AIR FILTER REGULATOR		BELLOFRAM	60						
3	1	MAKE-UP LEVEL CONTROLLER		MAGNETROL	APM131L						
2	1	PRESSURE CONTROL VALVE (SHIP LOOSE)	6"	SPENCE	ED5						
1	1	MAKE-UP CONTROL VALVE	4"	CASHCO	RANGER-QCT						
NO.	QTY.	DESCRIPTION	SIZE	MANUFACTURER	MODEL	NO.	QTY.	DESCRIPTION	SIZE	MANUFACTURER	MODEL

BILL OF MATERIAL

- Vessel's straight and girth seams are 100% X-Ray.
- 3/8" sensing line must slope 1/4" per foot minimum and must be connected to vessel as shown.
- Expand to 12" pipe immediately after steam pressure control valve, item No.2.
- Steam supply line must be sized for minimum pressure loss.
- Piping to steam inlet nozzle to be same size as steam inlet, and insulated, provide min. length 5 feet.
- Y-strainer & check valve must be furnished on pumped condensate line. (by others)
- Vessel is designed, constructed, and stamped for 50 psig @ 297°F and Full Vacuum per A.S.M.E. Code Section VIII, Division 1 requirements.
- Air filter-regulator requires instrument air. The control is factory set at 20 psig. Air line to control by mechanical contractor should be 1/4" pipe or 3/8" copper tubing.
- Shipping clearances and possible shipping damage requires that some piping and component parts of units be removed and boxed.
- Boiler chemicals, if used, may be injurious to pumps and other equipment if fed into receiver. Feed Chemicals on discharge side of boiler feed pumps only.
- All interconnecting piping and wiring on this system is factory checked. Handling during shipment may create the need for tightening of connections. Industrial Steam, Inc. assumes no responsibility for leaks or consequential liability beyond its control. It is suggested that the system be installed, tested and adjustments necessitated by in-transit handling be made prior to insulating.

INDUSTRIAL STEAM
 2985 FORD STREET OAKLAND, CALIFORNIA 94601 (510)261-8737

PROJECT NAME INDECK POWER EQUIPMENT COMPANY

PROJECT LOCATION WHEELING, IL.

SYSTEM MODEL 90JS5(M) JET SPRAY DEAERATOR

SYSTEM OUTPUT : 300,000

HEATER CAPACITY : 600 GPM FROM 60°F TO 227°F WITH 100 PSIG MINIMUM STEAM PRESSURE

MAKEUP CAPACITY : 600 GPM AT 40 PSIG WATER

BOILER FEED PUMP CAPACITY : _____ GPM AT _____ TDH

RECYCLE PUMP CAPACITY : _____ GPM AT _____ TDH

CONDENSATE PUMP CAPACITY : _____ GPM AT _____ TDH

SYSTEM VOLTAGE : 120 VOLTS, 1 PHASE, 60 CYCLE

SHIPPING DIMENSIONS : HEIGHT 152", LENGTH 430", WIDTH 132", WEIGHT 25,000 LB. APPROX.

SCALE 1/2"=1'-0" DRAWN BY _____ APPROVED _____ DATE 1-10-96 DRAWING NUMBER GA-18243 REV. _____