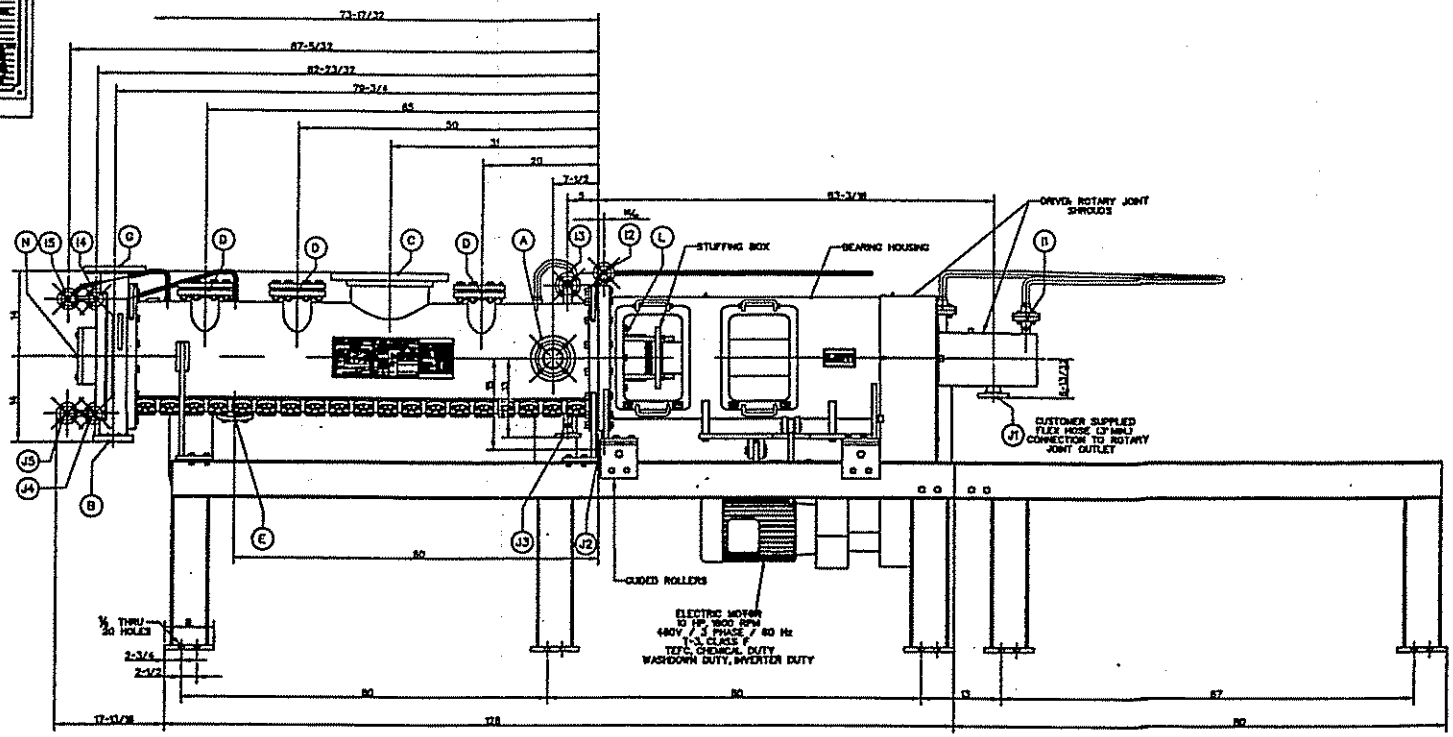
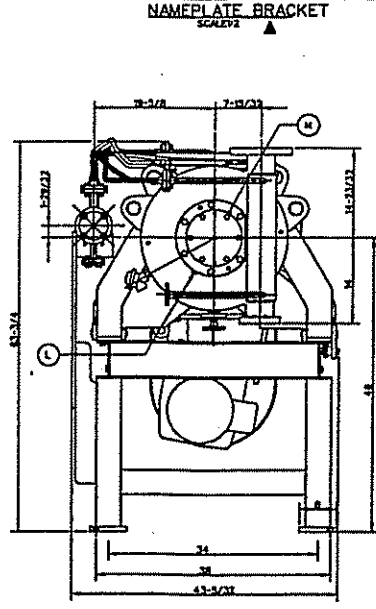
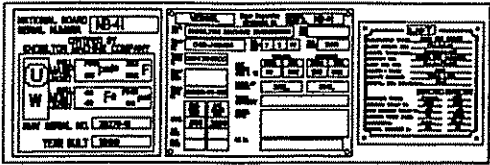
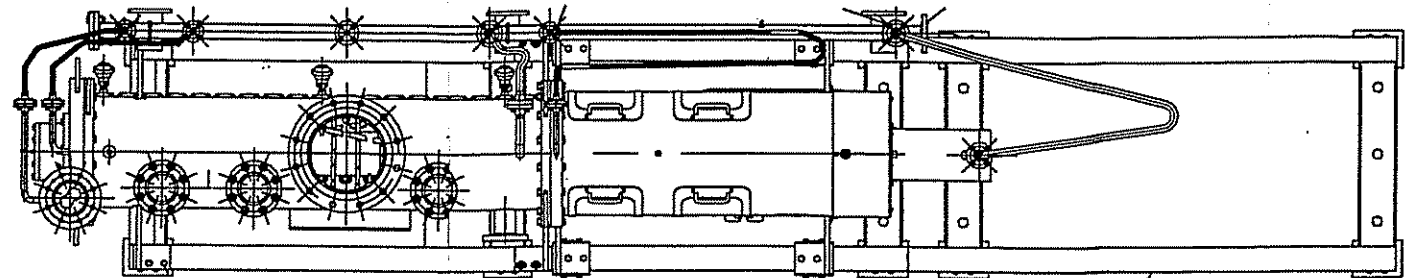


Pos. On	Description	Size	Remarks
A 1	PRODUCT INLET	2" ANSI#150	
B 1	PRODUCT OUTLET	2" ANSI#150	CONNECTED TO GYETER VALVE
C 1	VAPOR OUTLET	12" ANSI#150	CONNECTED TO VAPOR DOME
D 3	SIGHT GLASS	4" ANSI#150	
E 1	DRAIN	2" ANSI#150	PLUGGED
F 1	HYDROGEN PURGE	1/2" NPT	PLUGGED
G 1	DISCHARGE SCREW MOUNT		CONNECTED TO DISCHARGE SCREW
H1 1	STEAM MANIFOLD CONNECTION	2" ANSI#150	
H2 1	STEAM MANIFOLD CONNECTION	2" ANSI#150	BLIND FLANGED
I1 1	STEAM INLET SHUT/DRAIN	2" ANSI#150	LIST CONNECTED
I2 2	STEAM INLET ENDPLATE/MANIFOLD	1/2" ANSI#150	LIST CONNECTED
I3 2	STEAM INLET CASING/MANIFOLD	1/2" ANSI#150	LIST CONNECTED
I4 2	STEAM INLET DISCHARGE HEAD/MANIFOLD	1/2" ANSI#150	LIST CONNECTED
I5 2	STEAM INLET DISCHARGE HEAD/MANIFOLD	1/2" ANSI#150	LIST CONNECTED
I6 1	STEAM INLET MANIFOLD (VAPOR DOME)	ANSI#150	BLIND FLANGED
I7 1	STEAM INLET MANIFOLD (GYETER VALVE)	ANSI#150	BLIND FLANGED
J1 1	STEAM OUTLET SHUT	1-1/2" ANSI#150	
J2 1	STEAM OUTLET ENDPLATE	1/2" ANSI#150	
J3 1	STEAM OUTLET CASING	1/2" ANSI#150	
J4 1	STEAM OUTLET DISCHARGE HEAD	1/2" ANSI#150	
J5 1	STEAM OUTLET DISCHARGE HEAD	1/2" ANSI#150	
K 3	THERMOWELL PT. ATD	1/2" NPT	1/4" HOOD
L 2	STUFFING BOX PURGE	1/2" NPT	PLUGGED
M 1	SEAL PURGE RELIEF	1/2" NPT	PLUGGED
N 3	WEARING SURFACE PORT	1/2" NPT	PLUGGED

EQUIPMENT 7,000 LBS W/FRAME EXTENSION
EMPTY WEIGHT 4,000 LBS W/O FRAME EXTENSION



REV. NO.	DATE	DESCRIPTION	BY	CHKD.	APPR.	DATE
0	3/00	ISSUED FOR CONSTRUCTION	PEF		AJ	

NO.	DATE	DESCRIPTION	BY	CHKD.	APPR.	DATE
0	3/00	ISSUED FOR CONSTRUCTION	PEF		AJ	

NO.	DATE	DESCRIPTION	BY	CHKD.	APPR.	DATE
0	3/00	ISSUED FOR CONSTRUCTION	PEF		AJ	

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0	3/00	ISSUED FOR CONSTRUCTION	PEF		AJ	

NO.	DATE	DESCRIPTION	BY	CHKD.	APPR.	DATE
0	3/00	ISSUED FOR CONSTRUCTION	PEF		AJ	

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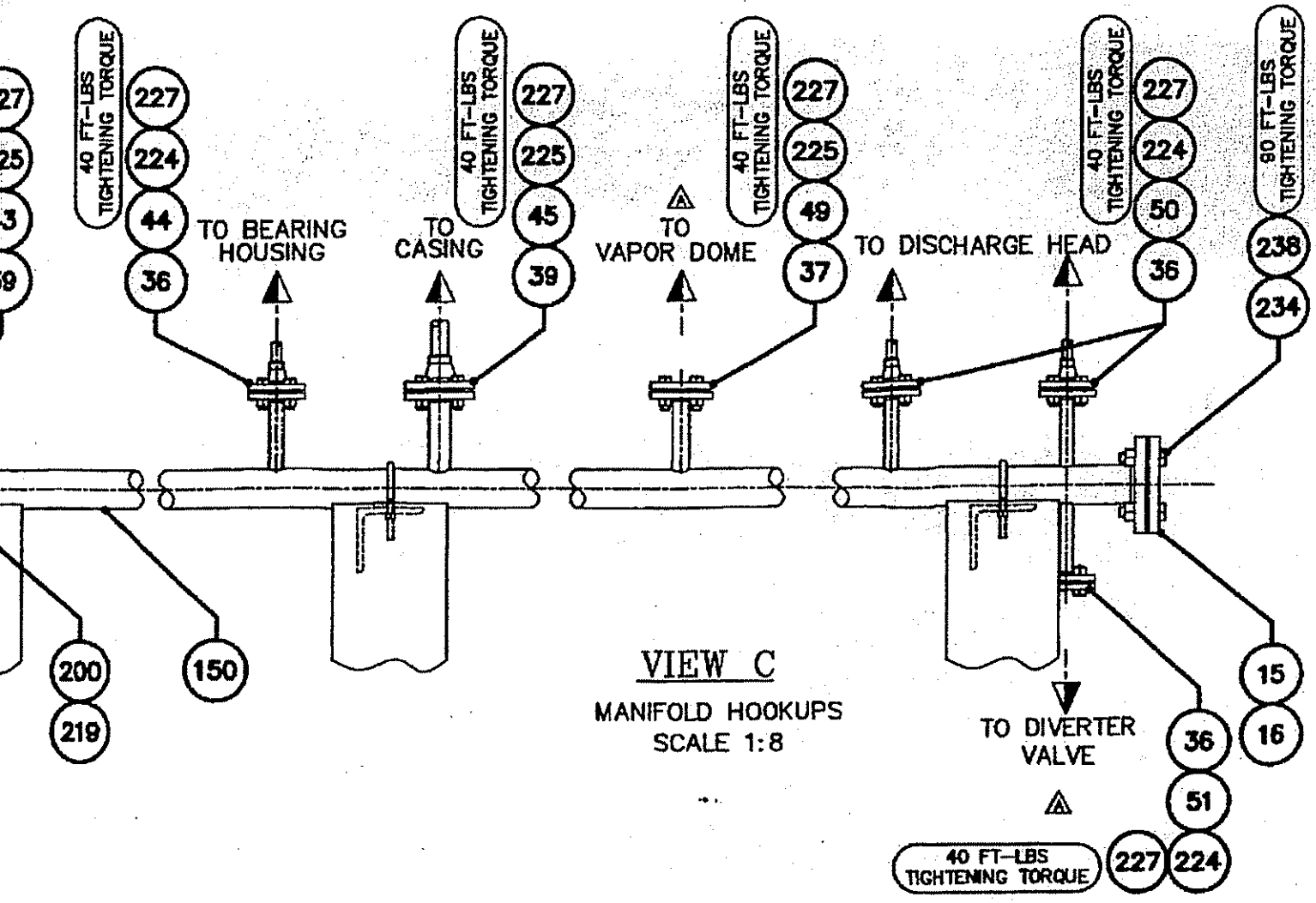


LIST EVAPORATOR

AREA 0230 D83-0230-M0115

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VIEW C
MANIFOLD HOOKUPS
SCALE 1:8

195

NATIONAL BOARD SERIAL NUMBER **NB-41**

CERTIFIED BY
KNOWLTON MACHINE COMPANY

U	SHELL	FV/50	382
	MAWP	155	psi
W	SHELL	-20	FV/50
	MDMT	-20	psi

KMV SERIAL NO. **39270-41**

YEAR BUILT **1999**

VESSEL Boyer Corporation PITTSBURGH, PA NATIONAL BOARD No. **NB-41**

KNOWLTON MACHINE ENGINEERING

C-66-J-09424 P.A. 7 1 99 DATE 1999

0014704900

MAX. DESIGN PRESS. (PSI & T.)	TEMP.	DESIGN PRESS.	TEMP.
50	362	155	362

MATERIAL OF CONSTR. 316L 304L

TOTAL CAPACITY

ORIG. SERIAL NO.	MIN. ALLOW. THICK.
500	3299

SPECIAL NOTES

DES. Co.

LIST

EQUIPMENT TYPE: DTR 150 CONT.

LIST EQUIP. NO: 174.04.01

CUST. TAG#/MAN#: 0230-14-115

MANUF. BY: KNOWLTON MACHINE

LIST P.O. NO: 174.04.P0.001

MONTH/YEAR: 12/99

EMPTY WEIGHT: 7,000 LBS

NATL. BO. NO./C.R.N.: NB-41

	SHELL	JACKET
M.A.W.P. PSIG:	FV/50 155	
DESIGN TEMP °F:	362	362
MIN DESIGN TEMP °F:	-20	-20
HYDRO TEST PSIG:	75	225
MATERIAL:	316L	304L
TOTAL VOLUME L:	170	60

ITEM 46 47 62 DETAIL
 TO BE LOCATED ON VESSEL
 SCALE 1:2

102419

FORM U-1 (Back)

16. MAWP FV/50 (internal) 155 (external) psi at max. temp. 362 (internal) 362 (external) °F Min. design metal temp -20 °F at FV/50 psi.

17. Impact test Exempt per UHA-51(d)(1)(d) (Indicate yes or no and the component(s) impact tested)

18. Hydro., p~~re~~u., or co~~mb~~. test pressure 78 Proof Test NA

19. Nozzles, inspection, and safety valve openings:

Table with columns: Purpose (Inlet, Outlet, Drain, etc.), No., Diameter or size, Flange Type, Material (Nozzle, Flange), Nozzle Thickness (Nom., Corr.), Reinforcement Material, How Attached (Nozzle, Flange), Location (Insp. Open.).

20. Supports: Skirt No (Yes or no) Lugs No (No.) Legs 4 (No.) Others NA (Describe) Attached (2)welded onto flange OD/(2) Pad (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (List the name of part, item number, mfg's. name and identifying number) NA

22. Remarks. Safety valves are located elsewhere in the system. The vessel was tested with heads that have packing gland seals. * Inlet assembly consists of a SA403-304L WPS LR elbow.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 26,003 Expires December 6, 20 00 Date DEC 29, 1999 Name Knowlton Machine Company Inc. (Manufacturer) Signed [Signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Maine and employed by Protection Mutual Ins. Co. of Norwood, MA have inspected the pressure vessel described in this Manufacturer's Data Report on AUG 4, 19 99, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

Date DEC 29, 1999 Signed [Signature] (Authorized Inspector) Commissions Factory Mutual Eng. Assoc. NR-11264-A MF-683 (Nat'l Board incl. endorsement, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U Certificate of Authorization No. _____ Expires _____ Date _____ Name _____ (Assembler) Signed _____ (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of _____ and employed by _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. By signing this certificate neither the Inspector nor his employer make any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board incl. endorsement, State, Province and No.)