

FORM U-1A MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by TENVAC, INC. Oak Street Pembroke, Mass. 02359
(Name and address of Manufacturer)
2. Manufactured for Polaroid Corporation 1265 Main Street Waltham, Mass. 02154
(Name and address of Purchaser)
3. Type Vert. Vessel No. D191/4532 (Serial) (State & State No.) Natl. Bd. No. 1970
(Horiz. or Vert.)
4. SHELL: Matl. SA240/304 T.S. 75,000 Nom. Thk. 120 In. Corr. Allow 0 In. Diam. 3 Ft. 6 In. Length 5 Ft. 6-3/4 In.
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)
5. SEAMS: Long welded buttH.T. no X.R. no Sectioned no Efficiency 70 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
Girth welded buttH.T. no X.R. no Sectioned no No. of Courses
If riveted or brazed describe seams fully under remarks.
6. HEADS: (a) Material SA240/304 T.S. 75,000 (b) Material SA240/304 T.S. 75,000
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Size to Pressure (Convex or Concave)
(a) Top .187 42" 2-5/8 concave
(b) Bottom .187 42" 2-5/8 concave
If removable, bolts used SA320B8.75,000.1-13(32) Other fastening
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)
7. Constructed for max. allowable working press. 50 psi at max. temp. 325 °F. Min. temp. (when less than -20°) Hydrostatic Pneumatic or Test 79.5 psi
8. SAFETY OR RELIEF VALVE OUTLETS: Number Size Location
9. NOZZLES:
Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Reinforcement Material How Attached
Inlet (2) (2) (3) 1 1/2; 2"; 4" flanged SA249/304 Sch. 40
Outlet (1) 2" flanged SA249/304 Sch. 40
10. INSPECTION Manholes, No. Size Location
OPENINGS: Handholes, No. (3) Size 4"; 6"; 6" Location Top & bottom heads; reinforced
Threaded, No. Size Location
11. SUPPORTS: Skirt (Yes or No) Lugs 4 (Number) Legs (Number) Other (Describe) Attached shell; welded (Where & How)
12. REMARKS: Chemical reactor tank

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.F.G., Etc.—State Contents.
If postweld heat-treated.
List other internal or external pressures with coincident temperature when applicable.

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 Unfired Pressure Vessels.

Date October 20, 19 70 Signed TENVAC, INC.
(Manufacturer)

By Geo B. Hieblinger
President

Certificate of Authorization Expires #8851 December 31, 1972

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY TENVAC, INC. at Pembroke, Mass.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Massachusetts and employed by Mutual Boiler & Mach. Inc., Co.* of Waltham, Mass. have inspected the pressure vessel described in this manufacturer's data report on October 20, 19 70 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes 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.

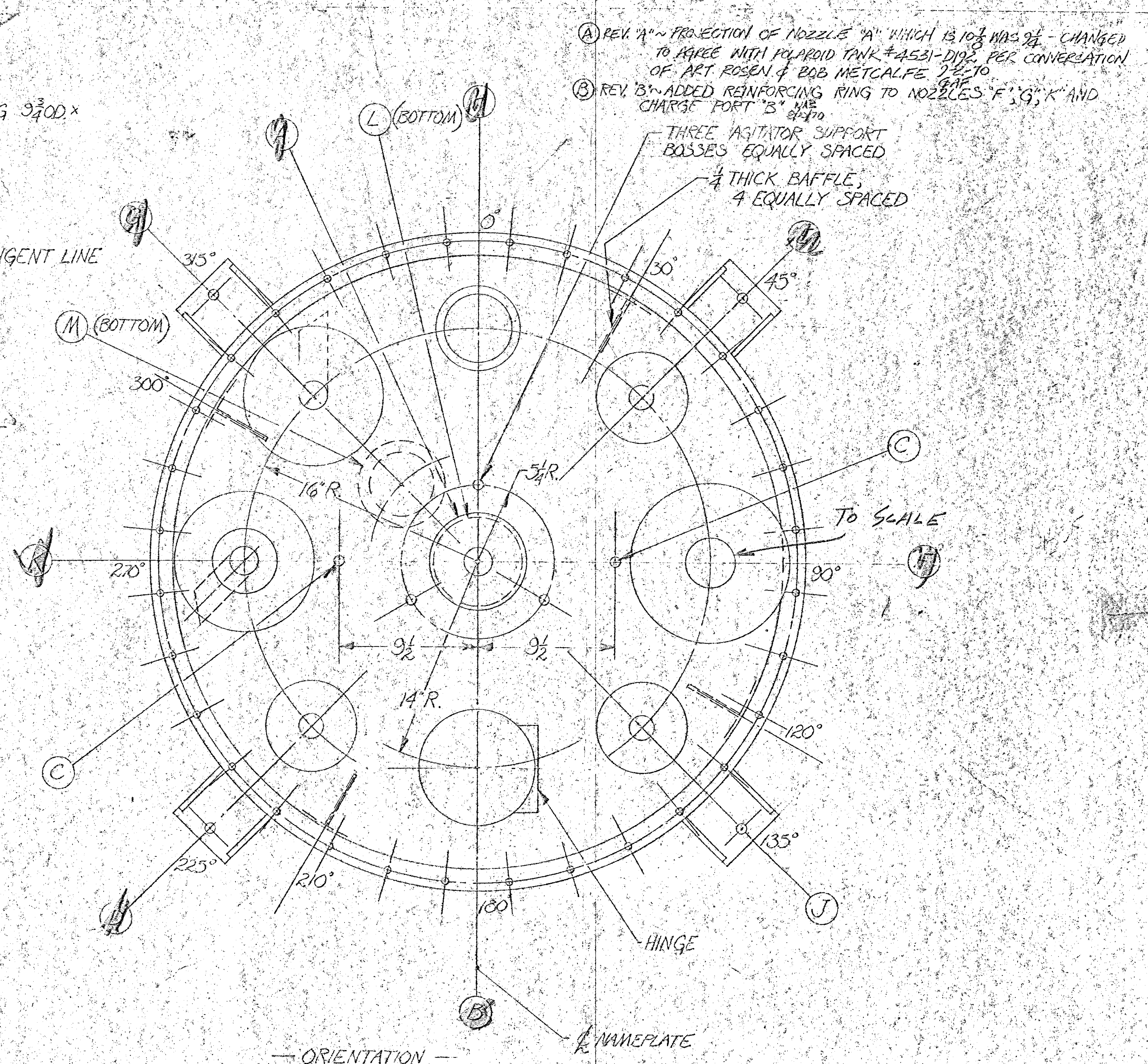
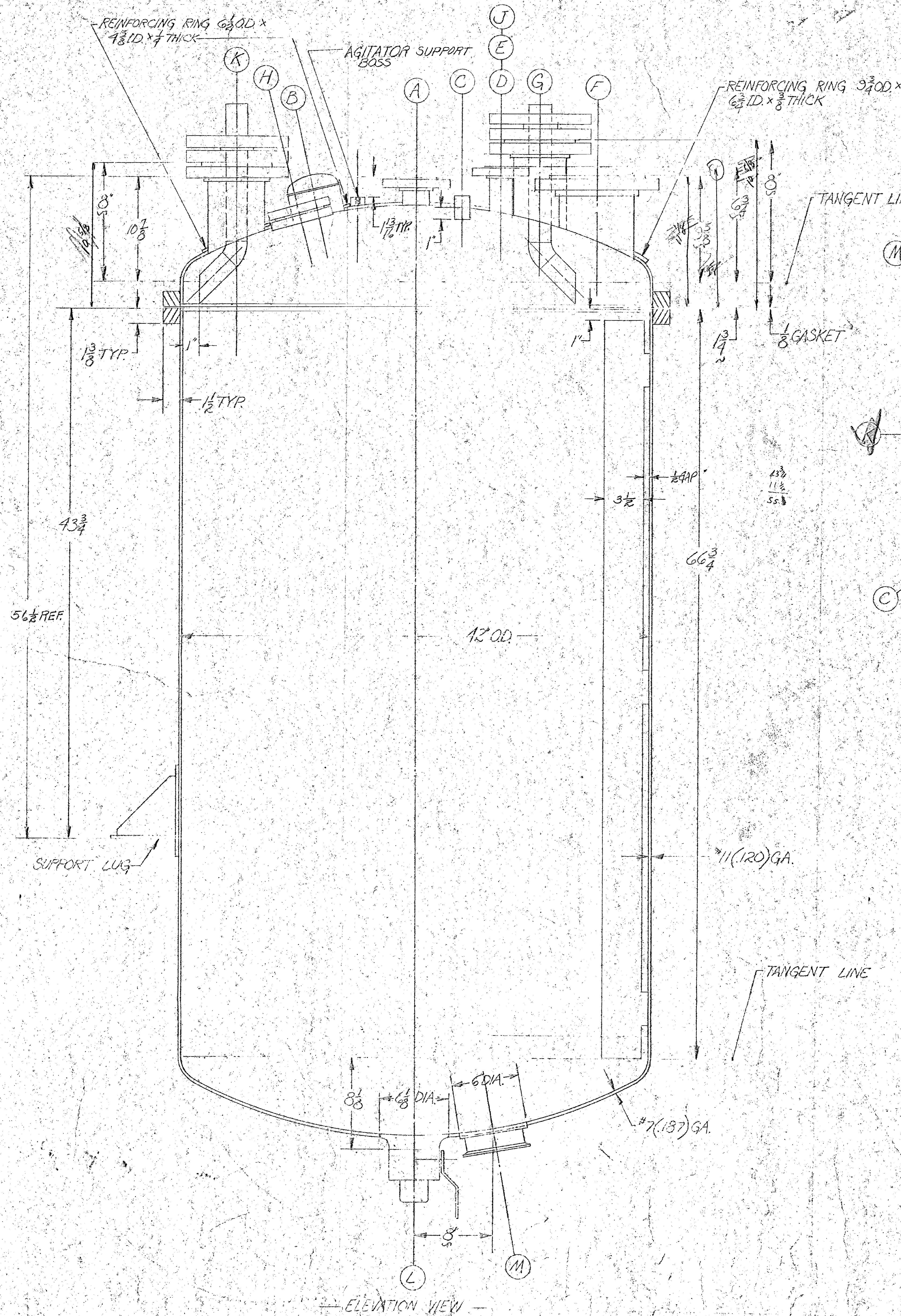
Date October 20, 19 70

*F.M. Group of Insurance Co.

Inspector's Signature [Signature]

Commissions MBS 1101

Natl Board or State and No.



- ① REV. 1" PROJECTION OF NOZZLE "A" WHICH IS 10 1/2 WAS 2 1/2 - CHANGED TO THREE WITH POLAROID TANK #4531-D191 PER CONVERSATION OF ART ROSEN & BOB METCALFE 12-2-70
- ② REV. 3" ADDED REINFORCING RING TO NOZZLES "F", "G", "K" AND CHARGE PORT "B" WAS 8-1-70
- THREE AGITATOR SUPPORT BOSSES EQUALLY SPACED
- 1/4" THICK BAFFLE, 4 EQUALLY SPACED

TENVAC, INC.

CERTIFIED CORRECT
FOR FABRICATION

SIGNED Don A. Fild DATE 8-10-70

OK

INSPECTION PRINT 10/21

NOTE TABLE	
OPERATING PRESSURE	25 PSIG
OPERATING TEMPERATURE	180°F
DESIGN PRESSURE	50 PSIG
DESIGN TEMPERATURE	325°F
TEST PRESSURE	75 PSIG
CODE STAMPED	ASME SECTION VIII
HEADS	ASME FID
EMPTY WEIGHT	425#
WT. FULL OF WATER	4265#
NOZZLES	SEE NOZZLE DATA TABLE
Spare NOZZLES	ORIPED W/ NO FLANGES & BOLTS
ALL OTHER OPENINGS	BURNED W/ PLATED COVERS
CLEANING	PER POLAROID CO. SID 304 SS
FINISH	CLASS "A" FG 3 REV'D
	INSIDE: SANITARY #4
	OUTSIDE: INDUSTRIAL #4
	WELDS: BRACED FLANGE TYPE MAX EN
MATERIAL TABLE	
VESSEL (SHELL, HEAD & CONNECTIONS)	TY 304 SS
SUPPORTS	TY 304 SS
BOLTING	TY 304 SS
GASKETS	VITON-50

NOZZLE DATA				
NOZZLE	SIZE	RATING	BORE	SERVICE
A	1"	30"	30440	AGITATOR
B	1"	30"	30440	CHARGE PORT
C	1"	30"	30440	FEED
D	1"	30"	30440	INLET NG
E	1"	30"	30440	VENT
F	1"	30"	30440	SOLID INLET
G	1"	30"	30440	SPUR
H	1"	30"	30440	LIGHT GLASS
J	1"	30"	30440	STAKE
K	1"	30"	30440	INLET NG
L	1"	30"	30440	INLET NG
M	1"	30"	30440	INLET NG

#91523
TENVAC, INC. PETERBOROUGH, MASS.

DATE	10-21-70	BY	AS NOTED	REVISION	AS NOTED
DESIGNED BY	AS NOTED	CHECKED BY	AS NOTED	DATE	AS NOTED
APPROVED BY	AS NOTED	SCALE	AS NOTED	DATE	AS NOTED
REVISION	AS NOTED	SCALE	AS NOTED	DATE	AS NOTED