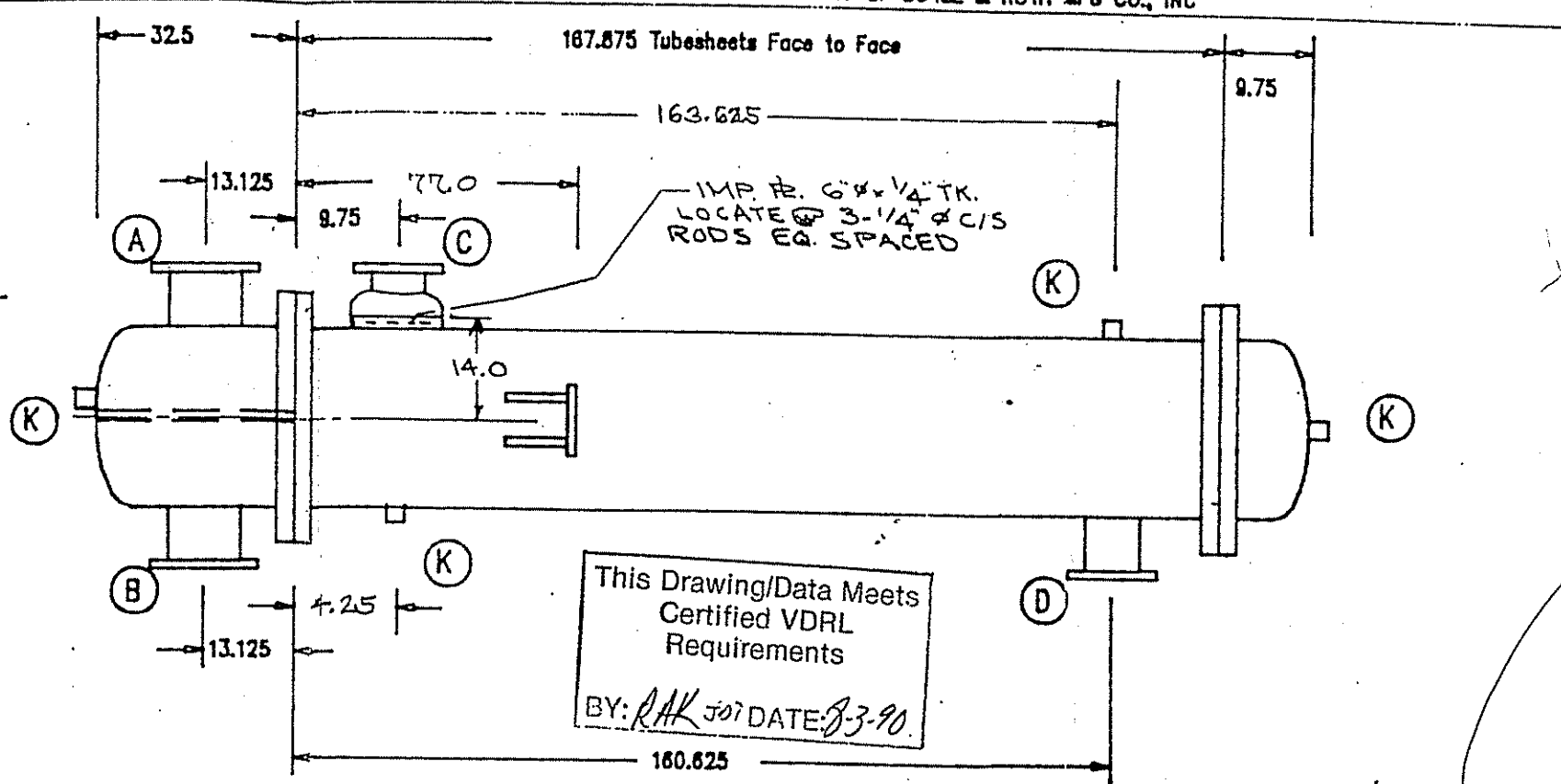
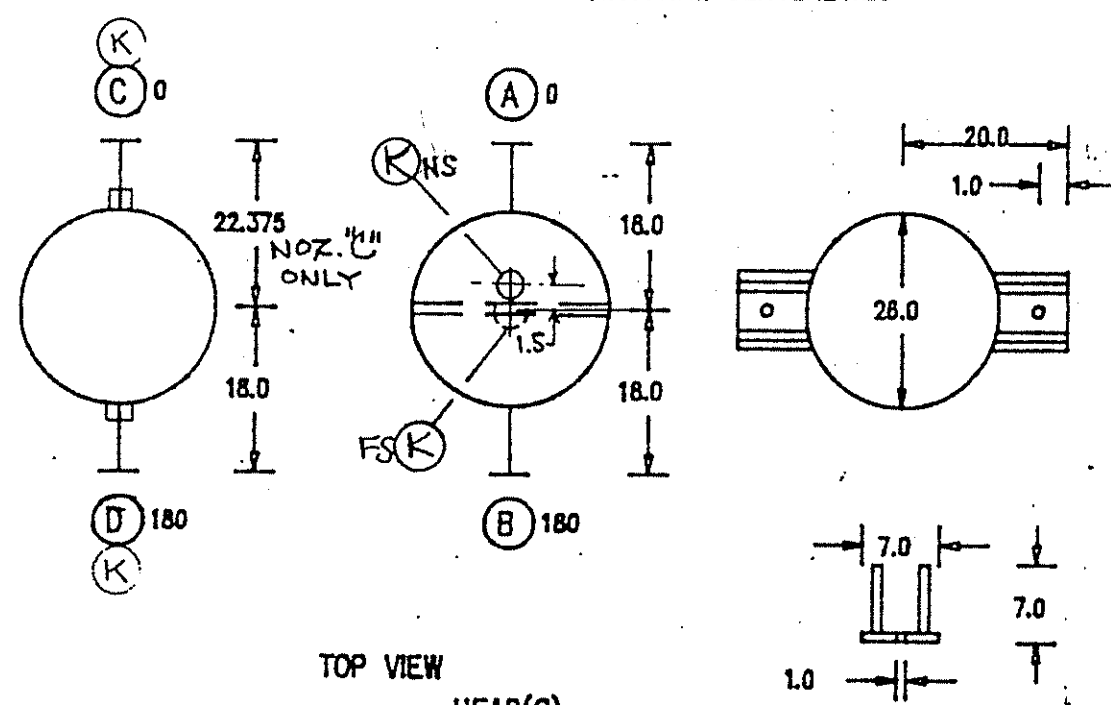


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D & R MODEL: VS2662-14V
ALL STEEL CONSTRUCTION

DIMENSIONS IN INCHES
NOT DRAWN TO SCALE
BOLT HOLES STRADDLE
NATURAL CENTERLINES



This Drawing/Data Meets
Certified VDRL
Requirements
BY: RAK JOT DATE: 8-3-90

SHELL	NPS / OD	SCH/THK	
Nozzle A TOWER WATER IN	10	30	150 # ANSI S.O.RF FLG SA-105 WITH SA-53 Gr B Sml Steel Pipe
Nozzle B TOWER WATER OUT	10	30	150 # ANSI S.O.RF FLG SA-105 WITH SA-53 Gr B Sml Steel Pipe
Nozzle C PROCESS VAPOR IN	6	40	300 # ANSI S.O.RF FLG SA-105 WITH SA-53 Gr B Sml Steel Pipe
Nozzle D PROCESS VAPOR OUT	4	80	w/ 10 3/4" OD x 2" SF x 1/2" SE HEAD SA-285 Gr C @ 10 3/4" O.D. X STG PIPE SA-53 Gr B
Coupling K	0.75		3000 # SA-105 C STEEL COUPL @ C/S PLUG
Shell Cylinder	26.0	0.5	SA-53 Gr B Sml Steel Pipe
Front Head Cylinder	26.0	0.5	SA-53 Gr B Sml Steel Pipe
Head Covers	26.0	0.3125	SA-516 Gr 70 Steel PIT ELLIPSOIDAL COVER
Tubesheets	30.625	1.6875	SA-516 Gr 70 Steel PIT
Front Head Flange at Ts	30.625	2.5625	SA-181 Cl.60 Carbon Steel Forg Ring FLANGE
Rear Head Flange at Ts	30.625	2.5625	SA-181 Cl.60 Carbon Steel Forg Ring FLANGE
Head Gaskets at Tshts	27.75		comp Asbestos 1/16" Tk PERIPH. WIDTH 0.5 in
Head Bolting at Tshts	0.75		SA-193 B7m Steel Bit 36 BOLTS ON 29.0 in B.C.
Tubes	0.75	0.083	SA-214 Wld C Steel Tube BARE TUBES
Baffles			SA-285 Steel PIT
Shell Supports		0.375	SA-285 Steel PIT

RECEIVED
BROWN & ROOT USA, INC.
AUG - 2 1990
DOCUMENT CONTROL

DESIGN CONDITIONS	SHELL SIDE	TUBE SIDE
DESIGN PRESSURE (psig)	300	215
TEST PRESSURE (psig)	450	325
DESIGN TEMPERATURE / MIN (F)	175 / -20	150 / -20
NUMBER OF PASSES	1	2
CORROS ALLOW, C STL ONLY (in)	0.0625	0.0625
RADIOGRAPHY	SPOT SEE NOTE**	None
TEMA TYPE	BEM	SIZE 26-168
TUBE TYPE	Bare	NO. OF HOLES 562
LAYOUT	0.9375 in TRI	TUBE-TUBESHT JT Expanded
BAFFLE TYPE	Single Segmental	CUT 25 % H
BAFFLE SPACING (in)	9.375	
IMPINGEMENT PLATE	In Nozzle Dome	
CODE: ASME SECT VIII, DIV 1,	89	TEMA CLASS C
WEIGHT: EMPTY	8341	FLOODED 11351
DATE: 03-05-90	DRAWN: CM	CHKD: RAK

DOYLE & ROTH MFG CO., INC
26 BROADWAY (SUITE 1275) NEW YORK, NY 10004

NOTES: ASME STAMP AND NATIONAL BOARD INSPECTION ARE REQUIRED
SEE SKN6199 FOR GENERAL NOTES
IMPACT TEST NOT REQD PER SECT VIII, DIV I, PARA UG 20(F)
TUBES SHALL BE FLUSH WITH TOP TUBESHEET
** SPOT XRAY REQ'D ON CIRM. JT. (SHELL MADE IN TWO PIECES)
NO INSULATION REQ'D

NO.	DATE	BY	REVISIONS
3	5-29-90	RH	ADDED SPOT X-RAY SHELL SIDE
2	5-24-90	RH	NOZZ "C" DOME HEAD WAS 3/8" TK.
1	3-26-90	RL	SHELL SHOWN HERE SA-36

CUSTOMER: CIBA GEIGY F.A.# 542-515
P.O. NO: X72367 QTY: ONE (1)
EQUIP NO.: 8-HE-420 NH3 RECOVERY CONDENSER
JOB NO. J 6199 - 6 DWG NO. B 8360 REV 3

D 633-5401-1560

REFERENCE
FOR HEADS ONLY

2106000-8-001 Rev 3