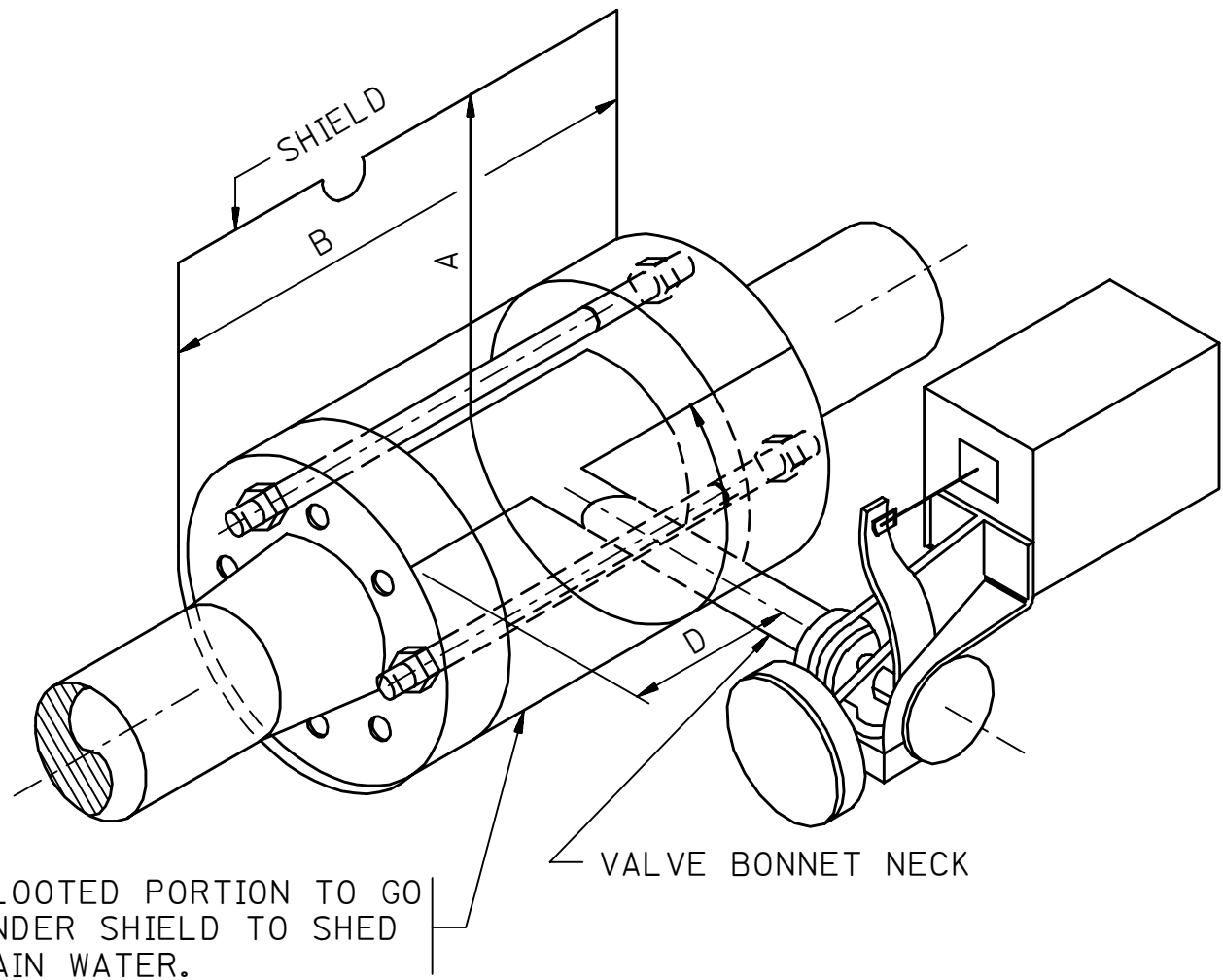
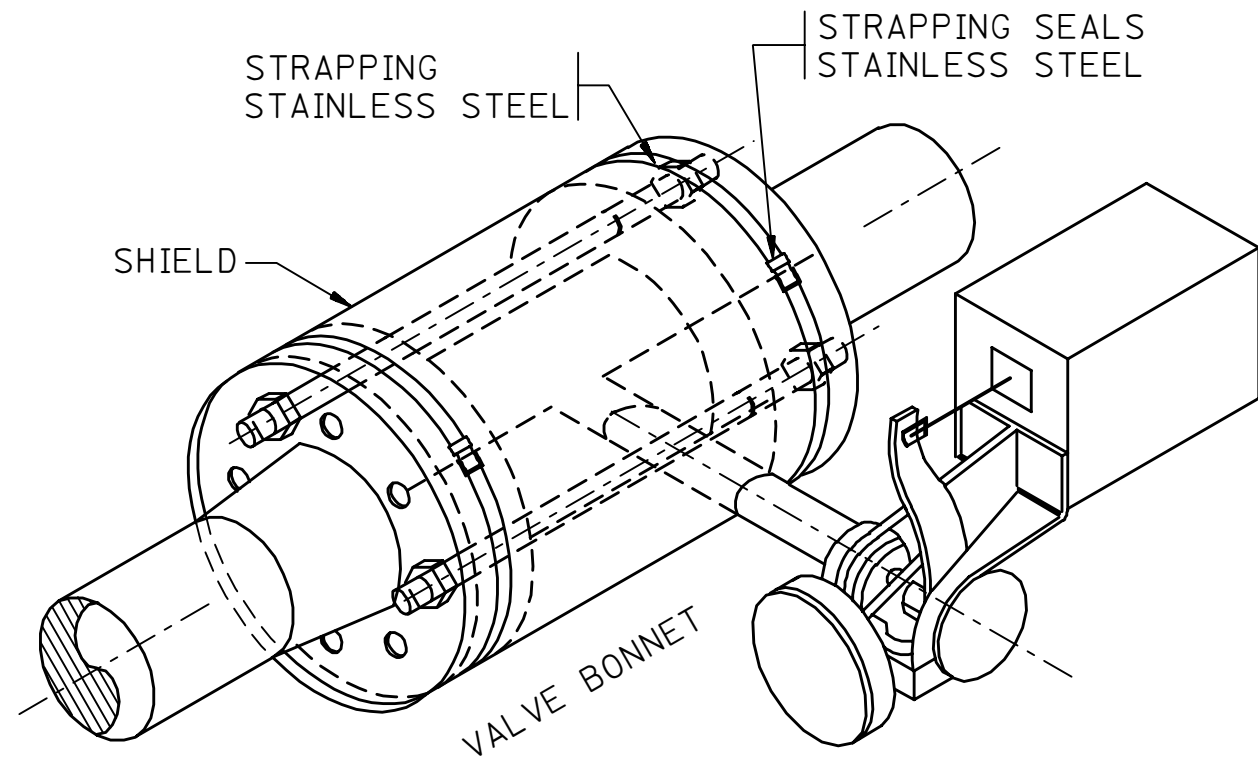


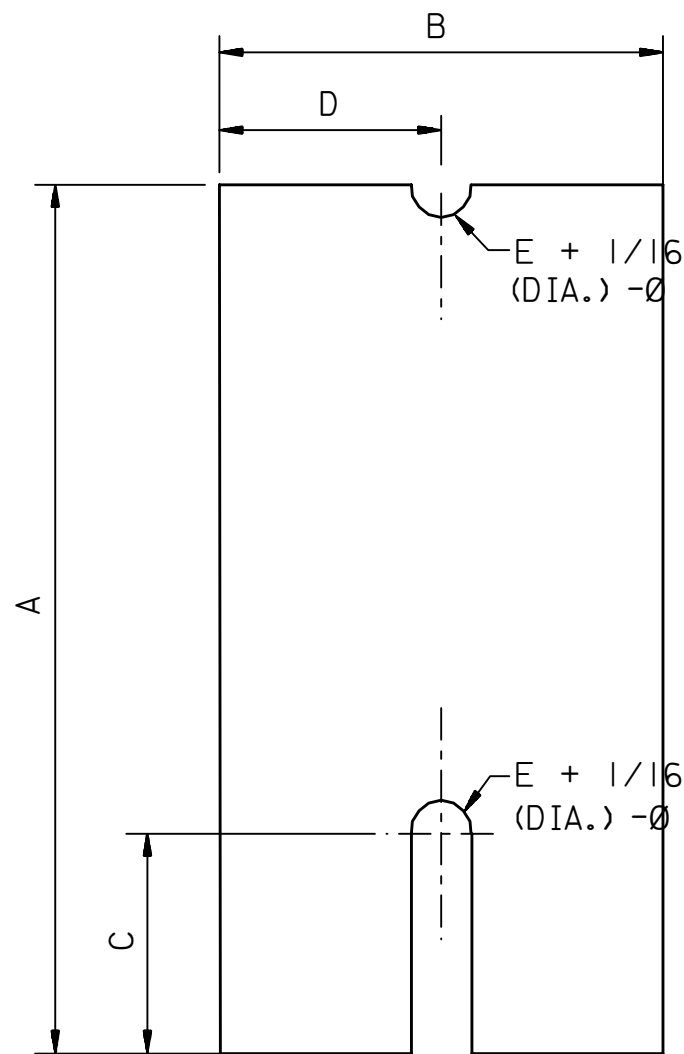
50	1001	AC-036404	N	990
REV. NO.	SHT. NO.	DRAWING NUMBER	INDEX	PLANT NO.



STEP NO. 1



STEP NO. 2



SHIELD

VALVE IMPINGEMENT SHIELD

FLANGE RATING	VALVE SIZE	A	B	C	D	E
150 LBS.	1"	16 3/8	3	3 5/8	1 3/8	3/8
150 LBS.	1 1/2"	19 3/4	3 3/4	4	3 1/2	1 1/4
150 LBS.	2"	23 1/2	1 1/4	4 1/2	5 1/8	1 1/2
150 LBS.	3"	29 1/4	5 1/2	25	1 1/8	1 1/4
150 LBS.	4"	35 3/8	1 1/2	7	5 3/4	1 1/2
150 LBS.	6"	42 3/4	8	6 5/8	2 7/8	7/8
150 LBS.	8"	51	13	8	7 3/4	1 1/4
150 LBS.	10"	58 7/8	1 1/4	8	1 1/2	24
150 LBS.	12"	68 3/8	8	9	1 1/4	3 1/8
300 LBS.	1"	19 3/8	1 1/2	4	3 7/8	1 3/8
300 LBS.	1 1/2"	24 1/4	1 1/4	5	3 3/4	1 1/4
300 LBS.	2"	26	7 3/4	5 1/2	23 7/8	1 1/2
300 LBS.	3"	33	10	7	5 1/2	1 1/4
300 LBS.	4"	39 5/8	1 1/4	8	6	2 1/2
300 LBS.	6"	47 1/2	8	7	2 7/8	7/8
300 LBS.	8"	55 3/4	8	8 1/4	1 1/3	1 1/4
300 LBS.	10"	63 5/8	3 1/4	8	9 1/4	44
300 LBS.	12"	73	16 3/4	8	10	4 3/8

DIMENSIONS FOR "CAMFLEX" VALVES ONLY. SEE NOTE-5 TOLERANCES ± 1/8 UNLESS OTHERWISE NOTED.

NOTES:

1. INSERT SHIELD AROUND VALVE AS SHOWN IN STEP NO. 1 USE 22 GA. STAINLESS STEEL SHEET ASTM A-167, TYPE 304, A.M.S. NO. 12-156-314.
2. ADJUST SHIELD AROUND BONNET NECK FOR MINIMUM CLEARANCE.
3. TIGHTEN SHIELD AROUND VALVE AS SHOWN IN STEP NO. 2. BANDS TO BE CENTERED ON FLANGES.
4. SHIELD PREVENTS BOLT ELONGATION DUE TO DIRECT FLAME IMPINGEMENT ON LONG EXPOSED FLANGE BOLT DESIGN.
5. THIS SHIELD SHALL BE INSTALLED ON FLANGELESS VALVES INCLUDING BUTTERFLY, CHECK AND CONTROL VALVE IN HYDRO-CARBON SERVICE WHOSE BOLTS ARE EXPOSED FOR MORE THAN THREE INCHES BETWEEN MATING PIPE FLANGES. FOR FLANGELESS VALVES OTHER THAN "CAMFLEX" TYPE, THE SAME PRINCIPLE APPLIES BUT THE DIMENSIONS WILL SOMEWHAT VARY.
6. STAINLESS STEEL STRAPPING IS 1/2 " WIDE×0.015" THICK; 2.7LBS/100FT. S.A.M.S. NO. 08-900-516. STAINLESS STEEL STRAPPING SEALS ARE 1/2 " WIDE×3/4" LONG; 500/BOX. S.A.M.S. NO. 08-898-463.
7. ALL DIMENSION ARE IN INCHES.

MANDATORY DRAWING

05	DEC94	ESSD CAB		ADDED MANDATORY DRAWING NOTE.			
04	MAY92	ESSD FDR		DRAWING DIGITIZED INTO CADD DATABASE WITHOUT CHANGES			
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION	CHKD.	CERT.	APPD.

SAUDI ARABIAN OIL COMPANY

DRAWN BY	M. NIAZI	CHECKED BY	NJF	SCALE	NONE
DATE STARTED		DATE COMPLETED			09-12-78
OPR'G. DEPT.	ORIGINAL SIGNED	ENG. DEPT.	ORIGINAL SIGNED		10-09-78
APP'D FOR CONSTR.					

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED	CERTIFIED BY	DATE
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FLAME IMPINGEMENT SHIELD FOR FLANGELESS VALVES

STD. DWG.

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	N	AC-036404	001	05