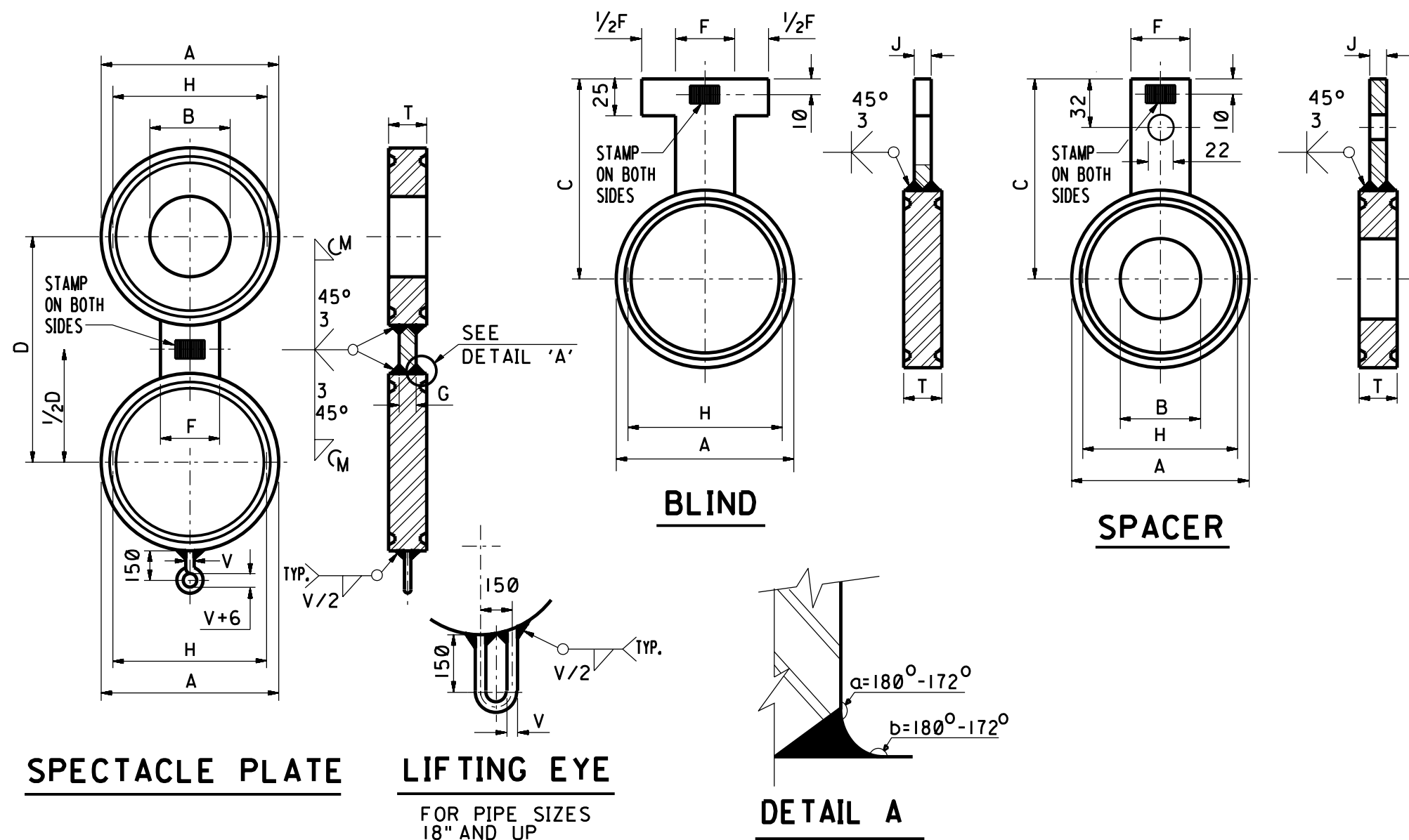




NOTES:

1. SPECTACLE PLATES, BLINDS AND SPACERS ARE TO BE MADE FROM STEEL PLATE ASTM A516 GR 70 OR EQUAL WITH SPECIFIED MINIMUM YIELD STRENGTH 262 MPa. MILL PLATE MAY BE USED, HOWEVER, PICKLING, SANDBLASTING OR EQUIVALENT SURFACE TREATMENT IS REQUIRED TO PERMIT VISUAL INSPECTION.
2. THICKNESS "T" IS CALCULATED PER ASME B31.3 PAR. 304.5.3 WITH P = 38.4 MPa AND SE = 235.8 MPa (0.9 SMYS) AT 38°C (100°F).
3. TOLERANCES: DIAMETERS "A" & "B": +3mm, -0
THICKNESS "T": +1.5mm, -0.25mm
FOR DIMENSIONS AND TOLERANCES OF RING JOINT GROOVES AND RINGS SEE ASME B16.20 LATEST EDITION.
4. LIFTING EYE IS TO BE FORMED FROM STEEL ROD OF COMPOSITION SIMILAR TO THAT OF THE PLATE. COMMERCIAL STANDARD EYEBOLTS MAY BE USED IF THEY HAVE THE REQUIRED DIMENSIONS AND MATERIAL COMPOSITION.
5. WELDING SHALL BE 100% PENETRATION BY A PROCEDURE TO BE APPROVED BEFORE FABRICATION.
6. EDGES OF BLINDS TO BE FREE FROM ROUGH BURN FINISH AND BURRS. WELDING TO BE GROUND TO SMOOTH CONTOUR.
7. STAMP SIZE, CLASS 900 AND GASKET RING NUMBER IN 8mm LETTERS WHERE INDICATED ON DRAWING.

SCALE: _____

MANDATORY DRAWING

REVISION VALIDATION

THIS REVISION NO. 13 IS COVERED, FOR ALL APPROVAL AND CERTIFICATION REQUIREMENTS, PER SAEP-334, UNDER DRAWING COMPLETION CERTIFICATE NO:

714310-1011-001

DESIGN CERTIFICATION (DESIGN AGENCY)		REVIEW FOR KEY DRAWINGS ☐ REQUIRED (SAUDI ARAMCO)		OTHER
ENGG./DATE AMA 10-31-11	CERTIFIED BY/DATE HMM 10-31-11	CONST. AGENCY/DATE	OPERATIONS/DATE NIN 10-31-11	BY/DATE
REV. NO. DATE 13 11-12-11	REVISION DESCRIPTION GENERAL REVISION			
JOB ORDER/EWO NO. 714310		THIS REVISION IS NOT TO BE USED FOR CONSTRUCTION UNTIL CERTIFIED AND DATED		

SAUDI ARABIAN OIL COMPANY

SPECTACLE PLATES, BLINDS AND SPACERS FOR CLASS 1500 OCT.

RING JOINT FLANGES

STANDARD DRAWING METRIC

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	L	AD-036736	001	13

NOMINAL PIPE SIZE (in.)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	H (mm)	J (mm)	T (mm)	V (mm) SEE NOTE-4	GASKET RING NO.	BLIND MASS (kg.)	SPACER MASS (kg.)	SPECTACLE MASS (kg.)
2"	125	AS SPECIFIED BY PURCHASE ORDER	215	230	35	15	SEE NOTE-3	6	35	-	R24	3	3	5
3"	170		240	280	40	20		8	42	-	R35	7	6	13
4"	195		265	325	40	25		8	47	12	R39	12	8	20
6"	250		305	405	40	25		12	58	12	R46	23	17	30
8"	315		350	495	40	35		15	72	16	R50	49	35	84
10"	370		400	600	40	40		20	81	20	R54	77	47	124
12"	440		445	685	40	45		25	97	20	R58	129	71	200
14" O.D.	490		485	760	40	50		25	107	20	R63	178	98	276
16" O.D.	545		520	840	50	50		25	119	25	R67	246	127	373
18" O.D.	615		565	925	50	65		30	131	25	R71	336	181	517
20" O.D.	675		600	1000	50	65		30	139	25	R75	407	201	608
24" O.D.	795		690	1180	50	75		40	165	32	R79	711	329	1040