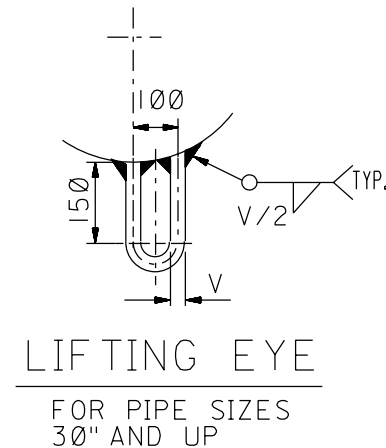
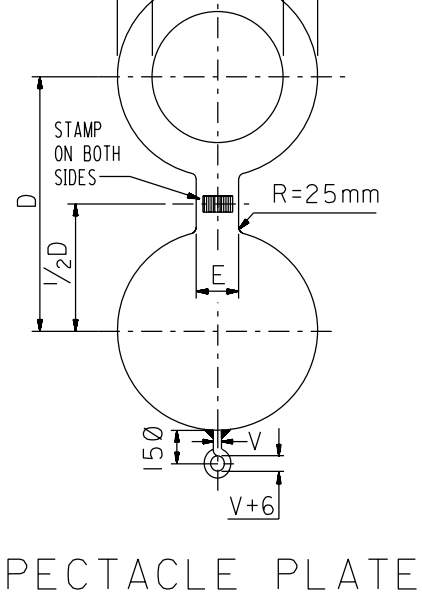
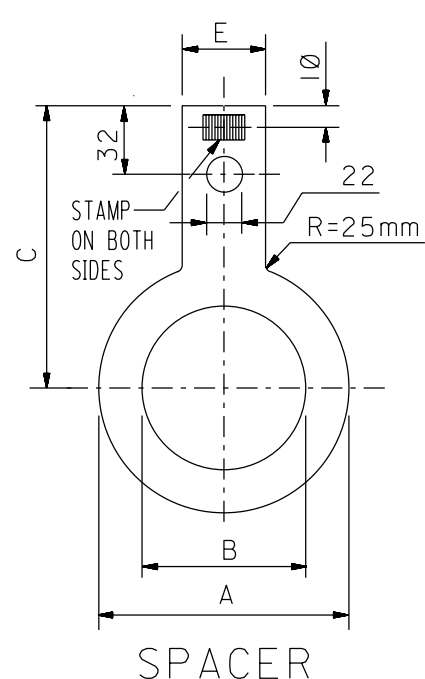
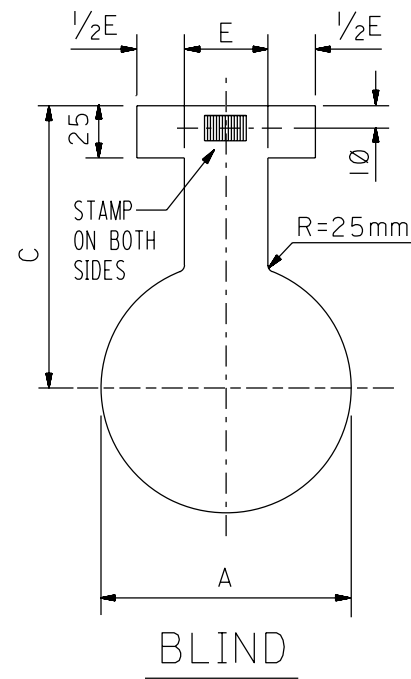




NOMINAL PIPE SIZE (in.)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T (mm)	V (mm) SEE NOTE-4	BLIND MASS (kg.)	SPACER MASS (kg.)	SPECTACLE MASS (kg.)
2"	100	55	120	165	40	6	-	1	1	1
3"	130	80	140	205	40	7	-	1	1	1
4"	170	105	160	240	40	9	-	1	1	2
6"	215	155	185	290	40	11	-	3	1	4
8"	275	205	230	355	50	14	-	7	3	9
10"	335	255	260	420	50	17	-	12	4	13
12"	405	310	310	495	65	19	12	20	8	28
14"	445	345	335	545	65	21	12	25	11	36
16"	510	395	370	610	65	23	16	38	17	56
18"	545	440	385	650	65	26	16	48	18	66
20"	600	490	420	710	65	28	16	67	23	90
22"	655	545	445	760	65	32	20	84	27	111
24"	710	595	470	825	65	34	20	110	36	146
26"	770	645	505	885	65	36	20	136	44	180
28"	825	695	535	940	55	38	20	163	52	215
30"	875	745	560	1000	65	41	20	215	64	278
32"	935	795	600	1075	65	43	24	244	71	314
34"	985	850	625	1125	55	46	24	281	77	358
36"	1040	900	655	1180	65	48	24	345	91	435
38"	1105	950	690	1250	65	51	24	412	114	526
40"	1155	1000	715	1300	65	53	24	478	125	603
42"	1215	1050	745	1360	65	56	24	549	145	694
44"	1270	1100	775	1415	55	58	28	616	157	773
46"	1320	1150	800	1465	65	61	28	657	164	821
48"	1380	1205	825	1525	55	64	28	718	173	891

NOTES:

- SPECTACLE PLATES, BLINDS AND SPACERS ARE TO BE MADE FROM STEEL PLATE ASTM A516 GR 70 OR EQUAL WITH SPECIFIED MINIMUM YIELD STRENGTH OF 262 MPa.
- THICKNESS "T" IS CALCULATED PER ASME B31.3 PAR. 304.5.3 WITH $P = 3.1 \text{ MPa}$ AND $SE = 235.8 \text{ MPa}$ (0.9 SMYS).
- TOLERANCES: DIAMETERS "A" & "B": $\pm 1.5 \text{ mm}$
THICKNESS "T": $+1.5 \text{ mm}$, -0.25 mm
- 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.
- GASKET CONTACT SURFACES (AREA BETWEEN DIAMETERS "A" & "B") SHALL HAVE A SURFACE FINISH ROUGHNESS IN THE RANGE BETWEEN 3.2 AND 6.4 μm AARH (SEE ANSI B46.1) AS JUDGED BY VISUAL COMPARISON. FLANGE SURFACES SHALL BE PARALLEL.
- SPECTACLE PLATE MAY BE FABRICATED BY WELDING TWO SECTIONS TOGETHER. WELDING SHALL BE 100% PENETRATION BY A PROCEDURE APPROVED BEFORE FABRICATION. WELDING TO BE GROUND TO SMOOTH CONTOUR.
- EDGES OF BLINDS TO BE FREE FROM ROUGH BURN FINISH AND BURRS.
- STAMP SIZE AND CLASS 150 IN 8mm LETTERS WHERE INDICATED ON DRAWING, ON BOTH SIDES OF PLATE.

DRAWING RESPONSIBILITY:
PIPING STANDARDS COMMITTEE

SCALE: _____

REVISION VALIDATION

THIS REVISION NO. 24 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
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ENGG./DATE AMA 10-31-11	CERTIFIED BY/DATE HMM 10-31-11	CONST. AGENCY/DATE	OPERATIONS/DATE NIN 10-31-11	BY/DATE
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REV. NO. 24	DATE 11-12-11	REVISION DESCRIPTION GENERAL REVISION
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JOB ORDER/EWO NO. 714310	THIS REVISION IS NOT TO BE USED FOR CONSTRUCTION UNTIL CERTIFIED AND DATED
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SAUDI ARABIAN OIL COMPANY

SPECTACLE PLATES, BLINDS AND	DRAWING TYPE STD
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SPACERS FOR CLASS 150

RAISE FACE FLANGES

STANDARD DRAWING METRIC

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	L	AD-036633	001	24