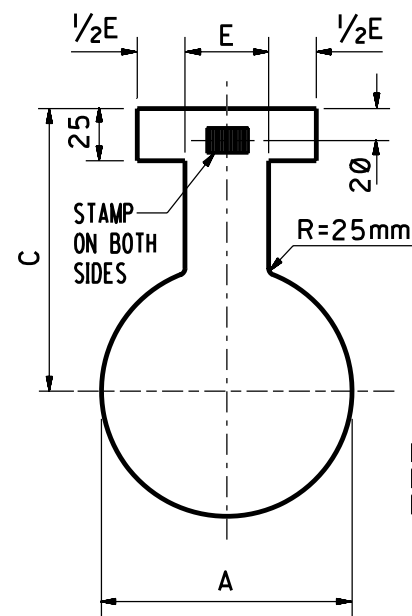
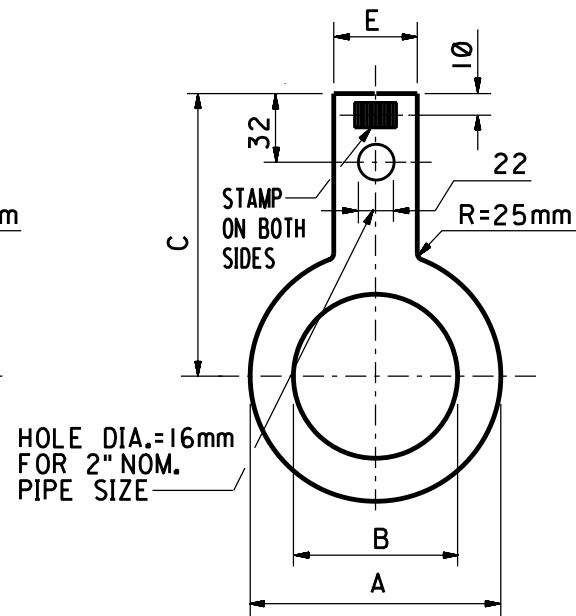
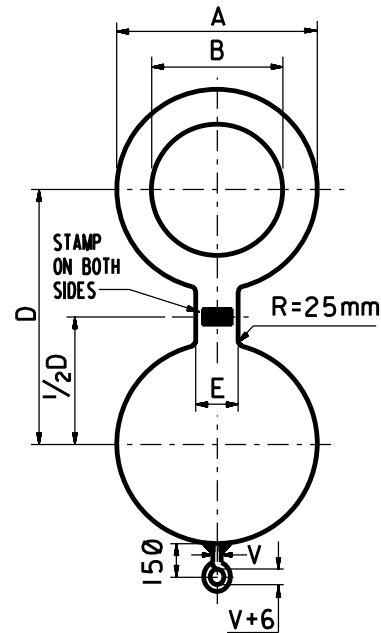




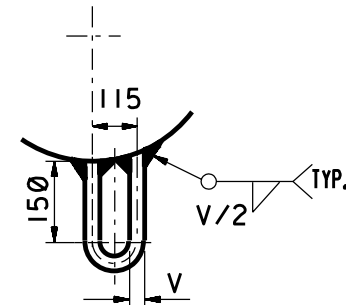
BLIND



SPACER



SPECTACLE PLATE



LIFTING EYE

FOR PIPE SIZES
30" AND UP

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"	105	55	115	190	25	8	-	1	1	1
3"	145	80	150	220	40	10	-	1	1	2
4"	175	105	180	265	45	12	-	2	2	3
6"	245	155	210	330	45	17	-	5	3	8
8"	300	205	240	395	45	21	12	14	8	22
10"	355	255	275	455	45	25	12	21	10	31
12"	415	310	310	535	45	29	12	34	16	50
14"	480	345	345	595	45	32	16	52	27	79
16"	535	395	375	660	45	36	20	67	32	99
18"	590	440	405	725	45	40	20	96	43	139
20"	650	490	445	785	50	44	20	128	56	184
22"	700	545	475	850	50	48	20	157	64	220
24"	770	595	525	925	65	52	20	212	88	300
30"	945	745	615	1105	65	65	24	447	183	630
32"	1000	795	640	1160	65	69	24	479	183	662
34"	1050	850	675	1220	65	73	24	570	202	772
36"	1110	900	705	1285	60	78	28	674	239	913
38"	1160	950	730	1340	65	79	32	764	262	1026
40"	1220	1000	760	1395	55	83	32	875	293	1168
42"	1285	1050	795	1460	60	87	32	1007	335	1342
44"	1340	1100	825	1520	65	91	32	1153	375	1528
46"	1395	1150	850	1575	60	95	32	1318	420	1738
48"	1485	1205	900	1665	65	100	32	1545	542	2087

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 OF 262 MPA
2. THICKNESS "T" IS CALCULATED PER ASME B31.3 PAR. 304.5.3 WITH $P = 7.8$ MPA AND $SE = 235.8$ MPA (0.9 SMYS).
3. TOLERANCES: DIAMETERS "A" & "B": ± 1.5 mm, -1.5 mm
THICKNESS "T": ± 1.5 mm, -0.25 mm
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. GASKET CONTACT SURFACES (AREA BETWEEN DIAMETERS "A" & "B") SHALL HAVE A SURFACE FINISH ROUGHNESS IN THE RANGE BETWEEN 3.2 AND 6.4 μ m AARH (SEE ASME B46.1) AS JUDGED BY VISUAL COMPARISON. FLANGE SURFACES SHALL BE PARALLEL.
6. 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.
7. EDGES OF BLINDS TO BE FREE FROM ROUGH BURN FINISH AND BURRS.
8. STAMP SIZE AND CLASS 300 IN 8mm LETTERS WHERE INDICATED ON DRAWING, ON BOTH SIDES OF PLATE.

DRAWING RESPONSIBILITY:
PIPING STANDARDS COMMITTEE

SCALE: _____

REVISION VALIDATION

THIS REVISION NO. **21** 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 21 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 DRAWING TYPE **STD**

SPACERS FOR CLASS 300

RAISE FACE FLANGES

STANDARD DRAWING METRIC

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	L	AD-036731	001	21