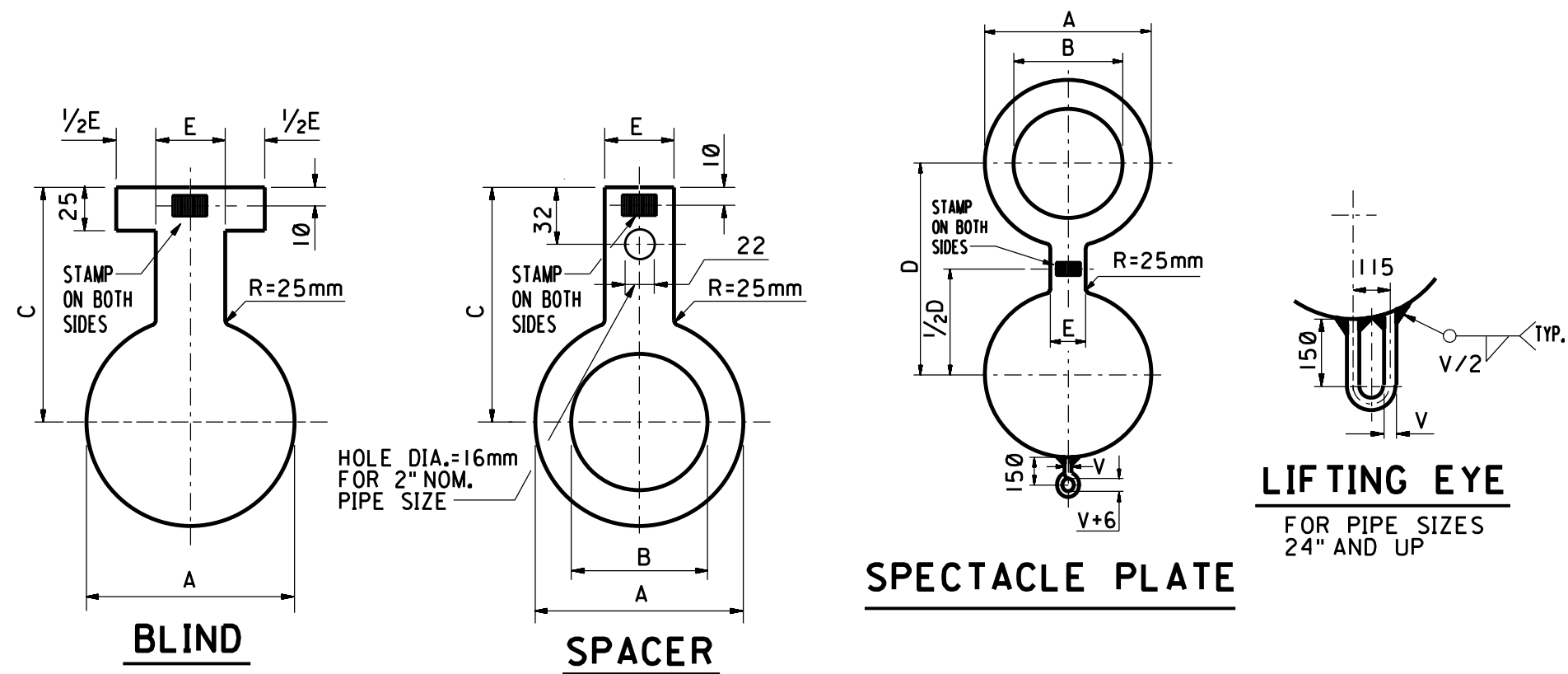




NOMINAL PIPE SIZE (in.)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T (mm)	V (mm) SEE NOTE-4	BLIND MASS (kg.)	SPACER MASS (kg.)	SPECTACLE MASS (kg.)
2"	105	55	130	180	25	10	-	1	1	1
3"	145	75	150	220	40	14	-	2	1	3
4"	185	100	180	285	40	22	-	4	2	6
6"	260	150	235	370	40	27	-	10	7	16
8"	315	195	265	435	40	27	12	18	11	28
10"	395	255	320	520	40	33	16	35	22	53
12"	450	305	345	570	40	39	16	57	32	89
14"	485	335	370	615	40	43	20	74	43	117
16"	560	385	415	700	50	48	20	110	60	170
18"	605	440	445	755	50	55	20	145	75	220
20"	675	490	485	825	50	60	20	202	101	303
22"	725	540	510	885	50	66	25	250	118	368
24"	785	590	545	950	50	72	25	318	147	465
26"	860	640	585	1030	50	79	25	407	183	590
28"	910	690	610	1085	50	84	25	491	204	695
30"	965	745	650	1145	50	91	25	596	247	843
32"	1015	795	675	1205	55	97	28	712	285	997
34"	1065	845	700	1260	60	102	32	837	321	1158
36"	1125	895	735	1325	60	108	32	973	365	1338
38"	1180	945	760	1385	65	112	32	1103	405	1508
40"	1220	995	785	1435	65	119	32	1280	437	1717
42"	1290	1050	825	1505	70	125	32	1477	514	1990
44"	1340	1100	865	1575	70	131	32	1682	567	2249
46"	1395	1150	890	1630	75	137	32	1907	634	2540
48"	1455	1200	915	1675	75	139	32	2147	702	2849

- 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=15.5 MPA AND SE=235.8 MPA (0.9 SMYS)
 - TOLERANCES: DIAMETERS "A" & "B": +1.5mm, -1.5mm
THICKNESS "T": +1.5mm, -0.25mm
 - 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 μ m AARH (SEE ASME 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 600 IN 8mm LETTERS WHERE INDICATED ON DRAWING, ON BOTH SIDES OF PLATE.

DRAWING RESPONSIBILITY:
PIPING STANDARDS COMMITTEE

SCALE: _____

REVISION VALIDATION

THIS REVISION NO. **17** 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 (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. 17	DATE 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 600 RAISE FACE FLANGES

STANDARD DRAWING **METRIC**

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	L	AD-036636	001	17