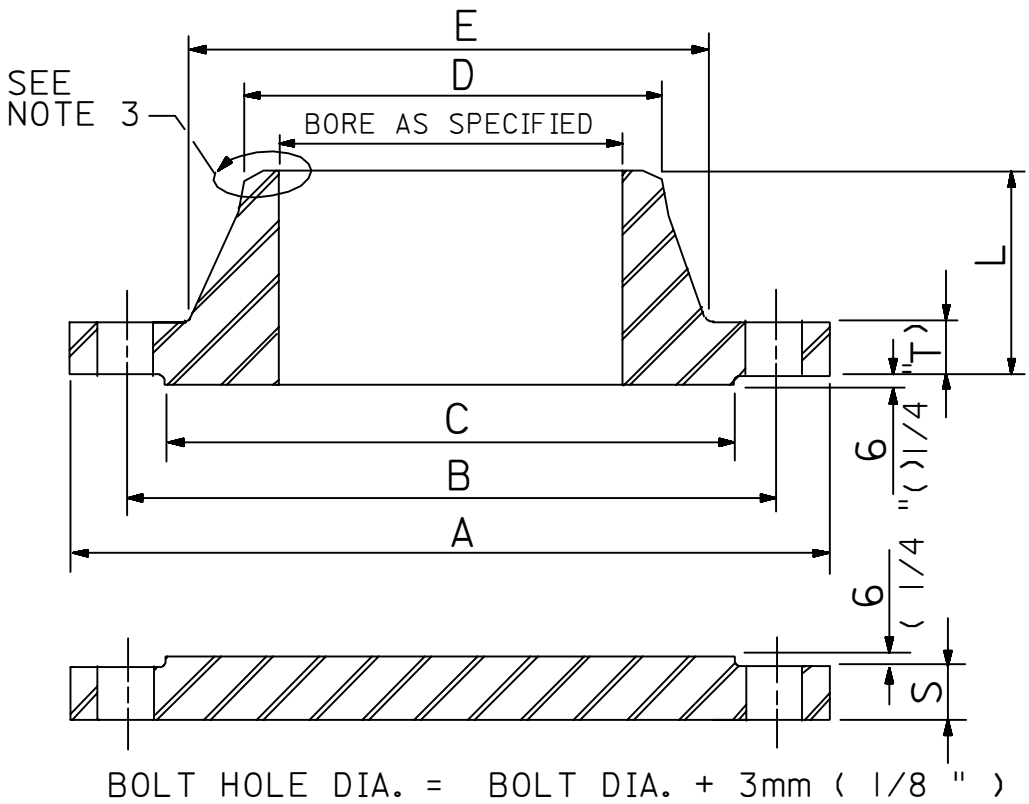
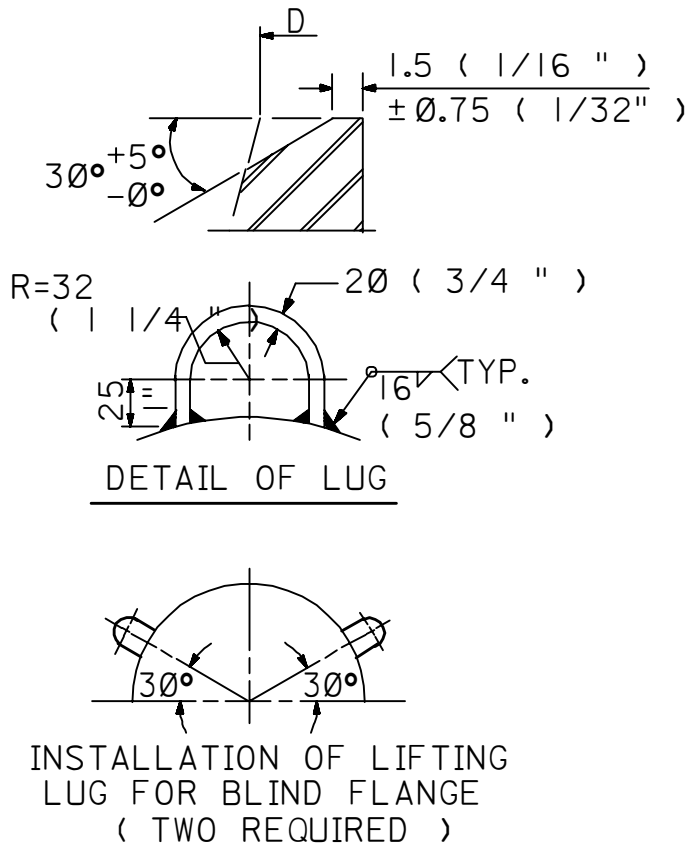


60	100	86990-07	7	066
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NOTES:

- DIMENSIONAL TOLERANCES NOT SHOWN, MARKING, FINISHES AND SPOT FACING SHALL CONFORM TO ASME B16.5 LATEST EDITION, EXCEPT TOLERANCE ON MAX. BORE $+0, -3\text{mm}$ (1/8"), TOLERANCE ON FLANGE OUTSIDE DIAMETER $+3.2$ (1/8") AND GASKET CONTACT SURFACE TO HAVE A FINISH IN THE RANGE BETWEEN 3.2 (125) AND 6.4 (250) μm (250/1000 in.) RA (SEE ASME B46.1) AS JUDGED BY VISUAL COMPARISON.
- DIMENSIONS FOR SIZES LARGER THAN 36" ARE EXTRAPOLATED FROM MSS-SP-44.
- HUB TO BE SINGLE TAPER TYPE. BORE (EQUAL TO MATCHING PIPE I.D.) TO BE SPECIFIED IN PURCHASE ORDER.
- WELD NECK FLANGES SHALL BE IN ACCORDANCE WITH 02-SAMSS-011 AND THE PURCHASE ORDER.
- MATERIALS:
STANDARD BLIND FLANGES SHALL BE 52 KSI SMYS, ASTM A694 F52 FORGINGS OR PLATE IN ACCORDANCE WITH ASTM A737 GR C. OR EQUAL. BLIND FLANGES THAT ARE QUENCHED, SHALL BE TEMPERED AT 600°C MINIMUM.
WHEN F65 HIGH YIELD BLINDS ARE SPECIFIED IN THE PURCHASE ORDER, THEY SHALL BE UNS H 41300 ALLOY STEEL IN ACCORDANCE WITH ASTM A668 CL J, NORMALIZED, QUENCHED, AND TEMPERED AT 620°C MINIMUM. SAUDI ARAMCO-APPROVED NDE PER A668 S7.1 & S11 AND S11 IMPACT TEST AT MINUS 30°C IN ACCORDANCE WITH API 6A PSL 2, CLASSIFICATION L, ARE ALSO REQUIRED.
THICKNESSES SHOWN FOR BLINDS ARE BASED ON 42 KSI SMYS THICKNESS MAY BE REDUCED ACCORDING TO MSS-SP-44 (1985) ANNEX B USING VALUES FROM TABLE 1 OF SP-44. UTF OF 90000 (NINETY THOUSAND) PSI MAY BE USED FOR F65.
- FOR BLIND TO W.N. FLANGE CONNECTION INCREASE BOLT LENGTH WITH DIFFERENCE BETWEEN 'S' AND 'T' DIMENSION.
- MARK BLIND FLANGES PER MSS SP-25, AND WITH THIS DRAWING NUMBER.

DWG. RESPONSIBILITY:									
PIPING STANDARDS COMMITTEE									
09	DEC 99	EDSD WED		REVISED NOTES 1 & 5.					
08	06-11-97	EDSD MAQ		DRAWING REVISED AS PER MARK-UP			ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
07	07-24-96	ESSD WAS		REVISED NOTES 4, 5, 6 & 7.			ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
06	03-20-94	ESSD CAC		REVISED NOTES 4 AND 6.			ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION			CHKD.	CERT.	APPD.
SAUDI ARABIAN OIL COMPANY									
DRAWN BY _____ CHECKED BY _____ SCALE <u>NONE</u>									
DATE STARTED _____ DATE COMPLETED <u>10-11-73</u>									
OPRG. DEPT. _____ ENG. DEPT. <u>ORIGINAL SIGNED</u>									
APPD. FOR CONSTR. _____									
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED				CERTIFIED BY _____ DATE _____					
DETAILS OF LARGE SIZE									
W.N. FLANGES AND BLIND FLANGES									
CLASS 400 R.F.									
STD. DWG.									
PLANT NO.		INDEX	DRAWING NUMBER				SHEET NO.		REV. NO.
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