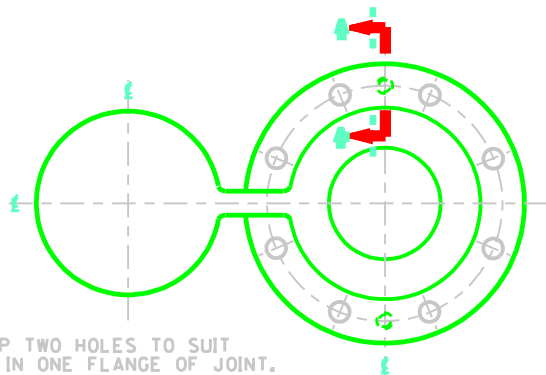
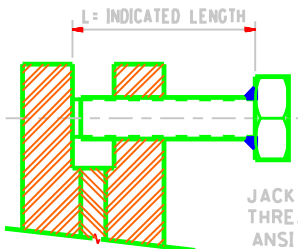


16	001	0596630-AC	1	066
REV. NO.	SHT. NO.	DRAWING NO.	INDEX	PLANT NO.



DRILL AND TAP TWO HOLES TO SUIT JACK SCREWS IN ONE FLANGE OF JOINT. IF ONE FLANGE OF JOINT IS AN EQUIPMENT FLANGE OR VALVE FLANGE, BOTH TAPPED HOLES SHOULD BE IN THE MATCHING PIPE FLANGE.



SECTION A-A

JACK SCREW CONTINUOUSLY THREADED IN ACCORDANCE WITH ANSI B1.1, UNC SERIES CLASS 2A FIT. MAY BE FABRICATED BY WELDING NUT TO STUD BOLT. HEAD MAY BE EITHER SQUARE OR HEXAGONAL.

NOTES:

1. LENGTHS OF JACK SCREWS BETWEEN BRACKETS ARE FOR JOINTS WITH SPECTACLE PLATES OR BLINDS, OTHER LENGTHS ARE FOR ORIFICE FLANGES.

JACK SCREW SIZE FOR VARIOUS FLANGE RATINGS (SEE NOTE-1)

NOM. PIPE SIZE	CLASS 150 R.F.				CLASS 300 R.F.				CLASS 600 R.F.				CLASS 600 R.J.				CLASS 900 R.J.				CLASS 1500 R.J.			
	DIA.		LENGTH		DIA.		LENGTH		DIA.		LENGTH		DIA.		LENGTH		DIA.		LENGTH		DIA.		LENGTH	
2	16	3/4	75 (75)	3 (3)	16	3/4	75 (75)	3 (3)	16	3/4	75 (75)	3 (3)	16	3/4	100 (115)	4 (4 1/2)	16	3/4	100 (140)	4 (5 1/2)	16	3/4	100 (140)	4 (5 1/2)
3	16	3/4	75 (75)	3 (3)	19	3/4	75 (75)	3 (3)	19	3/4	75 (90)	3 (3 1/2)	19	3/4	100 (130)	4 (5)	19	3/4	100 (140)	4 (5 1/2)	19	3/4	115 (150)	4 1/2 (6)
4	16	3/4	75 (75)	3 (3)	19	3/4	75 (75)	3 (3)	19	3/4	75 (90)	3 (3 1/2)	19	3/4	100 (130)	4 (5)	19	3/4	115 (140)	4 1/2 (5 1/2)	19	3/4	115 (165)	4 1/2 (6 1/2)
6	19	3/4	90 (90)	3 1/2 (3 1/2)	19	3/4	90 (90)	3 1/2 (3 1/2)	25	1	90 (115)	3 1/2 (4 1/2)	25	1	115 (140)	4 1/2 (5 1/2)	25	1	125 (165)	5 (6 1/2)	25	1	150 (190)	6 (7 1/2)
8	19	3/4	100 (100)	4 (4)	22	3/4	100 (100)	4 (4)	25	1	100 (130)	4 (5)	25	1	125 (150)	5 (6)	25	1	125 (180)	5 (7)	25	1	165 (240)	6 1/2 (9 1/2)
10	22	3/4	100 (100)	4 (4)	25	1	100 (115)	4 (4 1/2)	25	1	100 (140)	4 (5 1/2)	25	1	125 (165)	5 (6 1/2)	25	1	140 (190)	5 1/2 (7 1/2)	25	1	180 (265)	7 (10 1/2)
12	22	3/4	100 (115)	4 (4 1/2)	25	1	115 (115)	4 1/2 (4 1/2)	25	1	115 (140)	4 1/2 (5 1/2)	25	1	125 (180)	5 (7)	25	1	140 (200)	5 1/2 (8)	25	1	200 (290)	8 (11 1/2)
14	25	1	100 (115)	4 (4 1/2)	25	1	130 (130)	5 (5)	25	1	130 (150)	5 (6)	25	1	140 (190)	5 1/2 (7 1/2)	25	1	165 (230)	6 1/2 (9)	25	1	230 (330)	9 (13)
16	25	1	115 (115)	4 1/2 (4 1/2)	25	1	130 (140)	5 (5 1/2)	25	1	130 (165)	5 (6 1/2)	25	1	140 (200)	5 1/2 (8)	25	1	165 (240)	6 1/2 (9 1/2)	25	1	255 (355)	10 (14)
18	25	1	130 (130)	5 (5)	25	1	130 (140)	5 (5 1/2)	25	1	130 (180)	5 (7)	25	1	150 (215)	6 (8 1/2)	25	1	180 (265)	7 (10 1/2)	25	1	255 (380)	10 (15)
20	25	1	130 (130)	5 (5)	25	1	130 (150)	5 (6)	25	1	140 (190)	5 1/2 (7 1/2)	25	1	165 (230)	6 1/2 (9)	25	1	190 (290)	7 1/2 (11 1/2)	25	1	305 (405)	12 (16)
22	25	1	130 (140)	5 (5 1/2)	25	1	130 (165)	5 (6 1/2)	25	1	140 (200)	5 1/2 (8)	25	1	180 (255)	7 (10)	25	1	205 (330)	8 (13)	25	1	320 (455)	12 1/2 (18)
24	25	1	130 (140)	5 (5 1/2)	25	1	130 (165)	5 (6 1/2)	25	1	150 (215)	6 (8 1/2)	25	1	180 (265)	7 (10 1/2)	25	1	215 (355)	8 1/2 (14)	25	1	330 (485)	13 (19)
26	25	1	130 (150)	5 (6)	25	1	140 (180)	5 1/2 (7)	25	1	150 (230)	6 (9)	25	1	190 (280)	7 1/2 (11)								
28	25	1	140 (150)	5 1/2 (6)	25	1	140 (190)	5 1/2 (7 1/2)	25	1	165 (240)	6 1/2 (9 1/2)	25	1	190 (290)	7 1/2 (11 1/2)								
30	25	1	140 (165)	5 1/2 (6 1/2)	25	1	150 (200)	6 (8)	25	1	180 (240)	7 (9 1/2)	25	1	200 (290)	8 (11 1/2)								
32	25	1	140 (165)	5 1/2 (6 1/2)	25	1	150 (200)	6 (8)	25	1	180 (255)	7 (10)												
34	25	1	140 (165)	5 1/2 (6 1/2)	25	1	150 (215)	6 (8 1/2)	25	1	180 (270)	7 (10 1/2)												
36	25	1	150 (180)	6 (7)	25	1	150 (215)	6 (8 1/2)	25	1	180 (270)	7 (10 1/2)												
38	25	1	150 (180)	6 (7)	25	1	150 (230)	6 (9)	25	1	190 (280)	7 1/2 (11)												
40	25	1	150 (190)	6 (7 1/2)	25	1	165 (240)	6 1/2 (9 1/2)	25	1	200 (290)	8 (11 1/2)												
42	25	1	165 (200)	6 1/2 (8)	25	1	165 (240)	6 1/2 (9 1/2)	25	1	200 (300)	8 (12)												
44	25	1	165 (200)	6 1/2 (8)	25	1	180 (265)	7 (10 1/2)	25	1	200 (330)	8 (13)												
46	25	1	165 (200)	6 1/2 (8)	25	1	180 (280)	7 (11)	25	1	200 (330)	8 (13)												
48	25	1	180 (215)	7 (8 1/2)	25	1	190 (290)	7 1/2 (11 1/2)	25	1	215 (345)	8 1/2 (13 1/2)												
54	25	1	150 (200)	6 (8)	25	1	215 (320)	8 1/2 (12 1/2)	25	1														
60	25	1	150 (215)	6 (8 1/2)	25	1	255 (355)	10 (14)	25	1														

REVISION NOTE - 1 :

CONSOLIDATED SHEET NOS. 1 & 2 INTO SHEET NO. 1
COMPLETELY REDRAWN AND REVISED. CHANGE DRAWING SIZE FROM D TO C.

TYPICAL INSTALLATION DRAWING

16	4/6/09	NSM	REVISED AS MARK-UP	HMM	NAS
18	7/8/06	NSM	GENERAL REVISION	HMM	NAS
14	07-12-88	RLO	SEE REVISION NOTE 1.		
REV. NO.	DATE	BY	DESCRIPTION	CHKD	CERT. APPD.

FOR ARABIAN AMERICAN OIL COMPANY

DRAWN BY: N.A.L. CHECKED BY: SCALE: NONE
DATE STARTED: 10-08-71 DATE COMPLETED: 10-08-71
OPR'G. DEPT. ENG. DEPT.

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED	CERTIFIED ORIGINAL CERTIFIED DATE 10-26-71
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INSTALLATION OF JACK SCREWS FOR FLANGED JOINTS

STD. DWG.

PLANT NO.	INDEX	DRAWING NO.	SHT. NO.	REV. NO.
990	L	AC-036630	001	16

ENG. 2635 10/7/81
CADD