

SOUTH PARS GAS FIELD DEVELOPMENT PHASES 17 & 18



Pars	Oil	and	Gas	Company

DOCUMENT TITLE		De	OCUMEN	T No.			
PIPING TYPICAL DETAIL	DOC. TYPE	PROJECT	UNIT NO.	MAT. CODE	S/N	REV.	Doc. Class: 2
DRAWING	DW	1718	999	1301	0001	3	Page 13 of 25

7. BOLT/NUT DIMENSION TABLE – STUD BOLT/NUT FOR ASME B16.5 (RF,FF)

2 times the thread pitch has been considered in bolt length. H is according to Heavy Hex Nut thickness in table 9 of ASME B18.2.2. Length L1 to be considered for flanges with spectacle blinds. 1. All dimensions are in millimeters unless otherwise noted. The height of Raised Face is based on the following Bolt length is according to Annex F in ASME B16.5.

- Class 150# and 300#: 0.06in (1.6mm)

- Class 600#: 0.25in (6.4mm)

Gasket thickness is based on 3mm.

NOTE 6 STIM ROLTANIT NOTE 6

	ы	95	105	110	130	130	155	175	210	235	265	275	295	320	340	365	415
#009	l l	85	98	100	115	115	140	155	185	205	225	235	245	597	285	300	340
09	No. of Bolts	4	4	4	4	89	8	8	12	12	16	20	20	20	20	24	24
	d(in)	1/2	8/9	8/9	3/4	8/9	3/4	3/2	-	1 1/8	1 1/4	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8
	ы	80	30	95	110	110	130	140	155	175	200	215	225	240	250	265	295
#	7	70	80	85	100	98	120	125	135	150	170	185	190	200	210	215	245
300#	No. of Bolts	4	4	4	4	60	60	80	12	12	16	16	20	20	24	24	24
	d(in)	1/2	2/8	2/8	3/4	2/8	3/4	3/4	3/4	2/18	+	11/8	11/8	11/4	11/4	11/4	1 1/2
	Ŋ	70	7.5	80	90	100	110	115	125	130	145	150	165	170	185	200	220
150#	٦	65	70	7.5	80	06	105	105	115	120	130	130	145	150	160	170	185
15	No. of Bolts	4	4	4	4	4	4	8	60	8	12	12	12	16	16	20	20
	d(in)	1/2	1/2	1/2	1/2	8/9	8/9	8/9	3/4	3/4	2/8	2//8	1	,	1 1/8	1 1/8	1 1/4
GE L SIZE	mm	15	20	25	40	50	80	100	150	200	250	300	350	400	450	200	009
FLANGE NOMINAL SIZE	ii.	1/2	3/4	1	11/2	2	3	4	9	8	10	12	14	16	18	50	24

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8. BOLT/NUT DIMENSION TABLE – STUD BOLT/NUT FOR ASME B16.5 (RTJ)

		L1	155	165	175	220	230	290	340	490	550	069	592	•	•			٠
	*	٦	130	135	150	180	190	240	275	405	450	575	930				٠	
	2500#	No. of Bolts	4	4	4	4	8	8	8	∞	12	12	12					
		d(in)	3/4	3/4	8/2	1 1/8	1	11/4	1 1/2	2	2	2 1/2	2 3/4					
		П	135	145	155	175	190	195	230	255	295	315	545	595	099	720	785	902
	#	7	115	120	135	150	155	195	210	275	315	360	445	485	535	290	645	735
B18.2.2.	1500#	No. of Bolts	4	4	4	4	8	8	8	12	12	12	16	16	16	16	16	16
roted. o table C1. 9 of ASME le blinds. I length equ		d(in)	3/4	3/4	8/2	1	8/2	1 1/8	11/4	1 3/8	1 5/8	1 7/8	2	2 1/4	2 1/2	2 3/4	3	3 1/2
nerwise n ges acc t in table i E B16.5. spectao ed in boll		11	135	145	155	175	190	195	230	760	295	315	340	380	400	455	520	650
inless oth both flan thickness F in ASM nges with consider cove, an a	**	Г	115	120	135	150	160	160	185	210	235	250	270	295	305	350	375	470
imeters udepth of depth of Hex Nut i Hex Nut i o Annex ed for fla nas been nas been nas deen nsidered nsidered	#006	No. of Bolts	4	4	4	4	∞	8	8	12	12	16	70	20	70	20	20	70
NOTES: 1. All dimensions are in millimeters unless otherwise noted. 2. The height of Facings of depth of both flanges acc to table C1. 3. H is according to Heavy Hex Nut thickness in table 9 of ASME B18.2.2. 4. Bolt length is according to Annex F in ASME B16.5. 5. Length L1 to be considered for flanges with spectacle blinds. 6. 2 times the thread pitch has been considered in bolt length. 7. For Stud bolts, with dia. 2" and above, an additional length equal to 1 bolt dia has been considered.		d(in)	3/4	3/4	2/8	1	8/2	2/8	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 1/2	1 5/8	1 7/8	2	2 1/2
: mension reight of according ength is th L1 to be es the th stud bolts		11	105	120	125	140	145	175	200	230	260	290	300	320	345	370	395	460
NOTES: 1. All din 2. The h 3. H is a 4. Bolt le 5. Lengt 6. 2 time to 1 b to 1 b	#	7	82	95	100	115	115	145	160	190	210	230	240	250	270	290	310	355
	#009	No. of Bolts	4	4	4	4	∞	∞	8	12	12	16	70	20	70	70	24	24
No He		d(in)	1/2	8/9	2/8	3/4	2/8	3/4	8/2	-	1 1/8	11/4	1 1/4	1 3/8	1 1/2	1 5/8	1 5/8	1 7/8
TUN		L1	٠				٠							-				
IOTE 6 N	#	7	82	95	100	115	115	135	145	155	170	190	700	205	220	225	240	270
	300#	No. of Bolts	4	4	4	4	8	8	8	12	12	16	16	20	20	24	24	24
		d(in)	112	2/8	2/8	3/4	2/8	3/4	3/4	3/4	8/2	1	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 1/2
[]	ANGE NAL SIZE	mm	15	20	25	40	50	80	100	150	200	250	300	350	400	450	500	009

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9. BOLT/NUT DIMENSION TABLE – STUD BOLT/NUT FOR ASME B16.47-A (RF)

All dimensions are in millimeters unless otherwise noted.
 The height of Raised Face is based on the following:

- Class 150# and 300#: 0.06in (1.6mm)

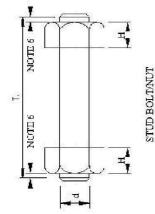
Class 600#: 0.25in (6.4mm)

3. Gasket thickness is based on 3mm.

Length L1 to be considered for flanges with Padle Blank and Spacer Bolt length is according to Annex C in ASME B16.47.

2 times the thread pitch has been considered in bolt length.
 H is according to Heavy Hex Nut thickness in table 9 of ASME B18.2.2.

FLANGE NOMINAL S	FLANGE NOMINAL SIZE		ï	150#			300#	#			9	#009	
Ë	шш	d(in)	No. of Bolts	Г	И	d(in)	No. of Bolts	7	П	(ui)p	No. of Bolts	T	7
56	650	11/4	74	235	270	1 5/8	28	280	335	17/8	28	360	440
28	700	11/4	32	240	275	1 5/8	28	290	350	7	28	370	455
30	750	1 1/4	28	245	285	1 3/4	28	310	375	7	28	375	465
32	800	11/2	28	275	315	1 7/8	28	330	400	21/4	28	395	490
34	850	11/2	32	280	325	1 7/8	28	335	410	2 1/4	28	400	909
36	006	11/2	32	295	340	2	32	350	430	2112	28	450	530
38	950	11/2	32	285	1	1 1/2	32	330	20	21/4	28	410	
40	1000	11/2	38	295	345	1 5/8	32	350	435	21/4	32	470	595
42	1050	11/2	98	305	360	1 5/8	32	360	450	2112	28	900	625
44	1100	11/2	40	315		1 3/4	32	375	16	2112	32	515	9
46	1150	11/2	40	320	380	1 7/8	28	390	485	2112	32	525	999
48	1200	11/2	44	330	390	1 7/8	32	400	200	7 3/4	32	920	200
50	1250	13/4	4	350	ī	2	32	450	1	3	28	585	1
52	1300	13/4	4	360	i.	2	32	430	2	3	32	009	18
54	1350	1 3/4	44	370	1	2 1/4	28	455		3	32	610	
99	1400	1 3/4	48	375	C	2 1/4	28	460	-	3 1/4	32	635	(42)
58	1450	1 3/4	48	385	Sa .	2 1/4	32	470	7	3 1/4	32	650	150
en en	4500	1) G F	42	000	2992								



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10. BOLT/NUT DIMENSION TABLE – STUD BOLT/NUT FOR ASME B16.47-A (RJ)

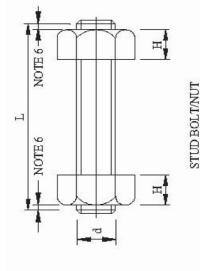
H is according to Heavy Hex Nut thickness in table 9 of ASME B18.2.

Bolt length is according to Annex C in ASME B16.47.

5. Length L1 to be considered for flanges with spectacle blinds. 2 times the thread pitch has been considered in bolt length For Stud bolts, with dia. 2" and above, an additional length equal

to 1 bolt dia has been considered

	11	200	735	755	800	820	096			1065
#	7	260	585	009	635	675	022			262
#006	No. of Bolts	28	28	28	28	28	32		•	
	d(in)	2 3/4	3	3	3 1/4	3 1/2	3 1/2		•	3 1/2
	L1	490	920	560	595	645	089			
#009	L	385	435	440	465	505	540			
)9	No. of Bolts	24	28	28	28	32	32			
	d(in)	1 7/8	7	7	2 1/4	2 1/4	2 1/2			•
	L1									
300#	٦	305	315	335	360	365	415			-
36	No. of Bolts	24	78	78	28	32	32			
	d(in)	1 5/8	1 5/8	1 3/4	1 7/8	1 7/8	2		•	
FLANGE NOMINAL SIZE	mm	920	200	750	800	820	006	920	1000	1050
FLA NOMIN,	in	56	28	30	32	34	36	38	40	42



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