



Big Omega make up

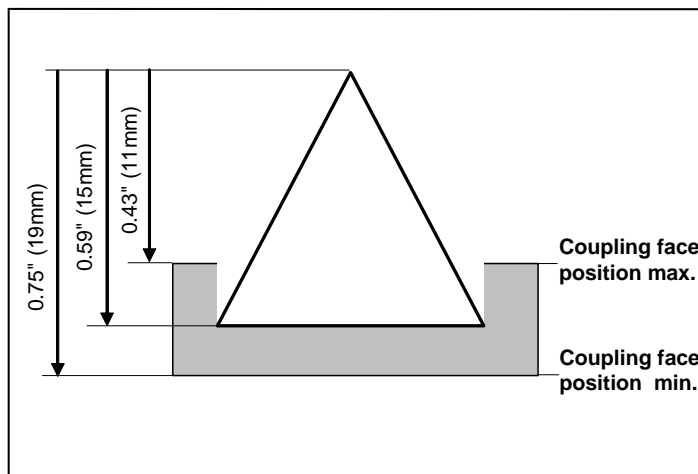
Big Omega shall be made up to a torque value.

Good practice

Consists of making-up the first 10 connections to the base of the triangle. Each time the make-up torque must be recorded. The average torque of these 10 first make-up shall be used to power make-up the full order.

Acceptance criteria

It is the position of the face of the coupling on a stencilled triangle at each pin end as per the following sketch.



Make-up unit for Big Omega

The make-up unit shall have the following characteristics:

- The capacity of the power tong should be at least 60% higher than the guiding torque (listed below) to break a connection or to make up joints with a locking compound.
- A **guiding torque** recommendation is listed in the table below for **choice of power tong capacity** :

GUIDANCE TABLE TO SELECT POWER TONG CAPACITY

OD inch mm	Guiding make-up torque values with API mod. thread compound all grades	
	ft-lb	Nm
14 355.6	12000	16500
16 406.4	13000	17500
18 5/8 473.1	15000	20500
18.788 477.5	15000	20500
20 508.0	16000	22000
24 609.6	17000	23500
24 ½ 622.3	18000	25000
26 660.4	20000	27500

Dope

Type of dope to be used: API modified thread compound or other dopes in accordance with TSLI 441 (the customer may request another dope under their own responsibility).

It is recommended to use Liquid-O-Ring 104 for grades 95 ksi and above.

Big Omega is made up with a dope amount of 120 g – 150 g for all dimensions irrespective of the dope type.

Commonly experienced torque factors

Liquid-O-Ring 104 : 0.8

Jet Lube TF15 : 0.9

Bakerlock : 1.3

Refer to the TSLI 440 for more details



Big Omega-IS make up

Big Omega-IS shall be made up to an Optimum torque value

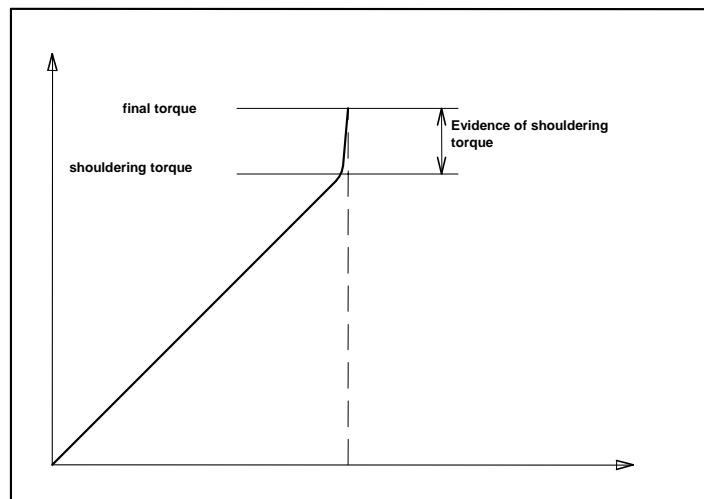
The use of a torque-turn monitoring system is highly recommended.

Acceptance criteria

The final torque must fall within Optimum torque $\pm 10\%$.

Evidence of shouldering torque but no yielding.

Guidance: A triangle is stencilled at each pin end, the face of the coupling shall be at the base of the triangle position



Torque table

See TSLI 450-28

Dope

Type of dope to be used: API modified thread compound or other dopes in accordance with the TSLI 441 (the customer may request another dope under their own responsibility).

It is recommended to use Liquid-O-Ring 104 for grades 95 ksi and above.

Big Omega-IS is made up with a dope amount of 120 g to 150 g for all dimensions irrespective of the dope type.

Refer to the TSLI 440 for more details



STANDARD PRODUCT

Size O.D. in.	Nominal Weight lb/ft	Wall Thickness		Grade		Torques Values			Max Allowed Torque		Reference Drawing	Particularities
		in.	mm	Pin Ksi	Box Ksi	Min.	Opti. ft.lb Nm	Max.	ft.lb Nm			
16"	109.00	0.656	16.66	55	55	18500	20600	22700	57400	77800	ST-D 3510/A	BIG OMEGA IS
16"	109.00	0.656	16.66	80	80	23100	25700	28300	86200	116900	ST-D 3510/A	BIG OMEGA IS
16"	109.00	0.656	16.66	95	95	26600	29500	32500	104200	141300	ST-D 3510/A	BIG OMEGA IS
16"	109.00	0.656	16.66	110	110	31300	34800	38300	123100	166900	ST-D 3510/A	BIG OMEGA IS
16"	118.00	0.715	18.16	55	55	19900	22100	24300	60300	81800	ST-D 3510/A	BIG OMEGA IS
16"	118.00	0.715	18.16	80	80	24800	27500	30300	90500	122700	ST-D 3510/A	BIG OMEGA IS
16"	118.00	0.715	18.16	95	95	28400	31600	34800	109400	148300	ST-D 3510/A	BIG OMEGA IS
16"	118.00	0.715	18.16	110	110	33500	37200	40900	129200	175200	ST-D 3510/A	BIG OMEGA IS
16"	128.00	0.781	19.84	55	55	21200	23500	25900	60600	82200	ST-D 3510/A	BIG OMEGA IS
16"	128.00	0.781	19.84	80	80	26300	29200	32100	91000	123400	ST-D 3510/A	BIG OMEGA IS
16"	128.00	0.781	19.84	95	95	30200	33600	37000	110000	149100	ST-D 3510/A	BIG OMEGA IS
16"	128.00	0.781	19.84	110	110	35600	39600	43600	130000	176300	ST-D 3510/A	BIG OMEGA IS
16"	147.00	0.906	23.01	55	55	23300	25900	28500	61200	83000	ST-D 3510/A	BIG OMEGA IS
16"	147.00	0.906	23.01	80	80	29000	32200	35400	91800	124500	ST-D 3510/A	BIG OMEGA IS
16"	147.00	0.906	23.01	95	95	33300	37000	40700	111000	150500	ST-D 3510/A	BIG OMEGA IS
16"	147.00	0.906	23.01	110	110	39200	43500	47900	131200	177900	ST-D 3510/A	BIG OMEGA IS
20"	133.00	0.635	16.13	55	55	22500	25000	27500	83200	112800	ST-D 3511/A	BIG OMEGA IS
20"	133.00	0.635	16.13	80	80	29100	32300	35500	125000	169500	ST-D 3511/A	BIG OMEGA IS
20"	133.00	0.635	16.13	95	95	29100	32300	35500	129300	175300	ST-D 3511/A	BIG OMEGA IS
20"	133.00	0.635	16.13	110	110	33600	37300	41000	149300	202400	ST-D 3511/A	BIG OMEGA IS

STANDARD PRODUCT



Size O.D in.	Nominal Weight lb/ft	Wall Thickness		Grade		Torques Values			Max Allowed Torque		Reference Drawing	Particularities
		in.	mm	Pin Ksi	Box Ksi	Min.	Opti. ft.lb Nm	Max.	ft.lb Nm			
20"	147.00	0.709	18.01	55	55	24600	27300	30000	88900	ST-D 3511/A	BIG OMEGA IS	
						33300	37000	40700	120500	ST-D 3511/A	BIG OMEGA IS	
						31800	35300	38800	133600	ST-D 3511/A	BIG OMEGA IS	
20"	147.00	0.709	18.01	95	95	31800	35300	38800	141200	ST-D 3511/A	BIG OMEGA IS	
						43100	47900	52700	181100	ST-D 3511/A	BIG OMEGA IS	
						31800	35300	38800	141200	ST-D 3511/A	BIG OMEGA IS	
20"	147.00	0.709	18.01	110	110	36700	40800	44900	163200	ST-D 3511/A	BIG OMEGA IS	
						49800	55300	60800	221300	ST-D 3511/A	BIG OMEGA IS	
						27200	30200	33200	89700	ST-D 3511/A	BIG OMEGA IS	
20"	169.00	0.812	20.62	55	55	36800	40900	45000	121600	ST-D 3511/A	BIG OMEGA IS	
						35000	38900	42800	134800	ST-D 3511/A	BIG OMEGA IS	
						47400	52700	58000	182800	ST-D 3511/A	BIG OMEGA IS	
20"	169.00	0.812	20.62	95	95	35000	38900	42800	155700	ST-D 3511/A	BIG OMEGA IS	
						47400	52700	58000	211100	ST-D 3511/A	BIG OMEGA IS	
						40400	44900	49400	179700	ST-D 3511/A	BIG OMEGA IS	
20"	169.00	0.812	20.62	110	110	54800	60900	67000	243600	ST-D 3511/A	BIG OMEGA IS	
						36200	40200	44200	160900	ST-D 3512/A	BIG OMEGA IS	
						49100	54500	60000	218200	ST-D 3512/A	BIG OMEGA IS	
26"	207.00	0.750	19.05	80	80	47500	52800	58100	211200	ST-D 3512/A	BIG OMEGA IS	
						64400	71600	78800	286300	ST-D 3512/A	BIG OMEGA IS	
						47500	52800	58100	211200	ST-D 3512/A	BIG OMEGA IS	
26"	207.00	0.750	19.05	95	95	64400	71600	78800	286300	ST-D 3512/A	BIG OMEGA IS	
						NA	NA	NA	NA	ST-D 3512/A	BIG OMEGA IS	
						NA	NA	NA	NA	ST-D 3512/A	BIG OMEGA IS	
26"	223.00	0.812	20.62	55	55	38700	43000	47300	171900	ST-D 3512/A	BIG OMEGA IS	
						52500	58300	64100	233100	ST-D 3512/A	BIG OMEGA IS	
						50800	56400	62000	225700	ST-D 3512/A	BIG OMEGA IS	
26"	223.00	0.812	20.62	80	80	68900	76500	84200	306000	ST-D 3512/A	BIG OMEGA IS	
						50800	56400	62000	225700	ST-D 3512/A	BIG OMEGA IS	
						68900	76500	84200	306000	ST-D 3512/A	BIG OMEGA IS	
26"	223.00	0.812	20.62	95	95	68900	76500	84200	306000	ST-D 3512/A	BIG OMEGA IS	
						NA	NA	NA	NA	ST-D 3512/A	BIG OMEGA IS	
						NA	NA	NA	NA	ST-D 3512/A	BIG OMEGA IS	
26"	237.00	0.866	22.00	55	55	40800	45300	49800	181100	ST-D 3512/A	BIG OMEGA IS	
						55300	61400	67500	245500	ST-D 3512/A	BIG OMEGA IS	
						53500	59400	65300	237500	ST-D 3512/A	BIG OMEGA IS	
26"	237.00	0.866	22.00	80	80	72500	80500	88600	322000	ST-D 3512/A	BIG OMEGA IS	
						53500	59400	65300	237500	ST-D 3512/A	BIG OMEGA IS	
						72500	80500	88600	322000	ST-D 3512/A	BIG OMEGA IS	
26"	237.00	0.866	22.00	95	95	72500	80500	88600	322000	ST-D 3512/A	BIG OMEGA IS	
						59900	66600	73300	266500	ST-D 3512/A	BIG OMEGA IS	
						81300	90300	99300	361300	ST-D 3512/A	BIG OMEGA IS	
26"	270.00	1.000	25.40	55	55	45300	50300	55300	201100	ST-D 3512/A	BIG OMEGA IS	
						61400	68200	75000	272700	ST-D 3512/A	BIG OMEGA IS	
						59300	65900	72500	263600	ST-D 3512/A	BIG OMEGA IS	
26"	270.00	1.000	25.40	80	80	80400	89300	98200	357400	ST-D 3512/A	BIG OMEGA IS	
						80400	89300	98200	357400	ST-D 3512/A	BIG OMEGA IS	
						59300	65900	72500	263600	ST-D 3512/A	BIG OMEGA IS	
26"	270.00	1.000	25.40	95	95	80400	89300	98200	357400	ST-D 3512/A	BIG OMEGA IS	
						80400	89300	98200	357400	ST-D 3512/A	BIG OMEGA IS	
						66500	73900	81300	295700	ST-D 3512/A	BIG OMEGA IS	
26"	270.00	1.000	25.40	110	110	90200	100200	110200	400900	ST-D 3512/A	BIG OMEGA IS	
						90200	100200	110200	400900	ST-D 3512/A	BIG OMEGA IS	



ISOLATED PRODUCT

Size O.D in.	Nominal Weight lb/ft	Wall Thickness		Grade			Torques Values			Max Allowed Torque		Reference Drawing	Particularities
		in.	mm	Pin Ksi	Box Ksi	Min.	Opti.	Max.	ft.lb	Nm	ft.lb		
16"	94.50	0.562	14.27	55	55	16500	18300	20100	46900	63600	40410-1/A	BIG OMEGA IS	
		0.562	14.27	80	80	20600	22900	25200	70500	95600	40410-1/A	BIG OMEGA IS	
16"	94.50	0.562	14.27	95	95	23700	26300	28900	85300	115700	40410-1/A	BIG OMEGA IS	
		0.562	14.27	110	110	27900	31000	34100	100800	136700	40410-1/A	BIG OMEGA IS	
18 5/8"	111.00	0.550	13.97	55	55	17600	19500	21500	69200	93800	40422-2	BIG OMEGA IS/S	
		0.550	13.97	80	80	22200	24700	27200	98700	133800	40422-2	BIG OMEGA IS/S	
18 5/8"	111.00	0.550	13.97	95	95	26000	28900	31800	115400	156500	40422-2	BIG OMEGA IS/S	
		0.550	13.97	110	110	28900	32100	35300	128500	174200	40422-2	BIG OMEGA IS/S	
18 5/8"	96.50	0.485	12.32	55	55	16700	18500 (*)	20400	53000	71900	SI-PD 100380	BIG OMEGA IS-NA	
		0.485	12.32	80	80	21400	23800	26200	79600	107900	SI-PD 100380	BIG OMEGA IS-NA	
18 5/8"	96.50	0.485	12.32	95	95	25100	27900	30700	96300	130600	SI-PD 100380	BIG OMEGA IS-NA	
		0.485	12.32	110	110	27900	31000	34100	112900	153100	SI-PD 100380	BIG OMEGA IS-NA	
20"	133.00	0.635	16.13	55	55	22500	25000	27500	83200	112800	40413-1/A	BIG OMEGA IS	
		0.635	16.13	80	80	29100	32300	35500	125000	169500	40413-1/A	BIG OMEGA IS	
20"	133.00	0.635	16.13	95	95	29100	32300	35500	129300	175300	40413-1/A	BIG OMEGA IS	
		0.635	16.13	110	110	33600	37300	41000	149300	202400	40413-1/A	BIG OMEGA IS	



ISOLATED PRODUCT

Size O.D. in.	Nominal Weight lb/ft	Wall Thickness		Grade		Torques Values			Max Allowed Torque		Reference Drawing	Particularities
		in.	mm	Pin Ksi	Box Ksi	Min.	Opti.	Max.	ft.lb	Nm		
20"	147.00	0.709	18.01	55	55	24600	27300	30000	88900	120500	40413-1/A	BIG OMEGA IS
						32900	36500	40200				
						31800	35300	38800				
20"	147.00	0.709	18.01	80	80	42500	47200	51900	133600	181100	40413-1/A	BIG OMEGA IS
						31800	35300	38800				
						42500	47200	51900				
20"	147.00	0.709	18.01	95	95	36700	40800	44900	141200	191400	40413-1/A	BIG OMEGA IS
						49100	54500	60000				
						27200	30200	33200				
20"	169.00	0.812	20.62	55	55	36300	40300	44300	89700	121600	40413-1/A	BIG OMEGA IS
						35000	38900	42800				
						46800	52000	57200				
20"	169.00	0.812	20.62	80	80	46800	52000	57200	134800	182800	40413-1/A	BIG OMEGA IS
						35000	38900	42800				
						46800	52000	57200				
20"	169.00	0.812	20.62	95	95	40400	44900	49400	155700	211100	40413-1/A	BIG OMEGA IS
						54000	60000	66000				
						40400	44900	49400				
24 1/2"	140.00	0.531	13.49	55	55	18500	20500	22600	82200	111400	40425-1/B	BIG OMEGA IS/S
						24700	27400	30100				
						25600	28400	31200				
24 1/2"	165.00	0.635	16.13	55	55	34100	37900	41700	102900	139500	40425-1/B	BIG OMEGA IS
						36400	40400	44400				
						48600	54000	59400				
24 1/2"	165.00	0.635	16.13	80	80	36400	40400	44400	156100	211600	40425-1/B	BIG OMEGA IS
						36400	40400	44400				
						48600	54000	59400				
24 1/2"	165.00	0.635	16.13	95	95	NA	NA	NA	161700	219200	40425-1/B	BIG OMEGA IS
						NA	NA	NA				
						NA	NA	NA				
24 1/2"	182.00	0.709	18.01	55	55	28000	31100	34200	124400	168700	40425-1/B	BIG OMEGA IS
						37400	41500	45700				
						39900	44300	48700				
24 1/2"	182.00	0.709	18.01	80	80	53300	59200	65100	177100	240100	40425-1/B	BIG OMEGA IS
						39900	44300	48700				
						53300	59200	65100				
24 1/2"	182.00	0.709	18.01	95	95	39900	44300	48700	177100	240100	40425-1/B	BIG OMEGA IS
						53300	59200	65100				
						39900	44300	48700				
24 1/2"	182.00	0.709	18.01	110	110	NA	NA	NA	NA	NA	40425-1/B	BIG OMEGA IS
						NA	NA	NA				
						NA	NA	NA				