

## Tool Joint Makeup Torque (ft/lb)

NC26 ID (in)	3-5/8	3-1/2	3-3/8	3-1/4	OD (in) 3-1/8	3	2-31/32	2-15/16			
1-3/4	4330	4300	4130	3010	1940	940	700	470			
1-7/8	3720	3690	3660	3010	1940	940	700	470			
2	3070	3040	3020	2990	1940	940	700	470			
2-1/8	2380	2360	2340	2320	1940	940	700	470			
2-5/32	2200	2180	2160	2140	1940	940	700	470			
2-1/4	1640	1630	1610	1600	1580	940	700	470			

NC31 ID (in)	4-5/8	4-1/4	4-1/8	4	OD (in) 3-7/8	3-3/4	3-5/8	3-1/2			
1-5/8	10170	10090	8510	6890	5350	3870	2460	1120			
1-3/4	9510	9440	8510	6890	5350	3870	2460	1120			
1-7/8	8800	8730	8510	6890	5350	3870	2460	1120			
2	8040	7980	7920	6890	5350	3870	2460	1120			
2-1/8	7230	7180	7120	6890	5350	3870	2460	1120			

NC38 ID (in)	5	4-15/16	4-7/8	4-13/16	OD (in) 4-3/4	4-11/16	4-5/8	4-9/16	4-1/2	4-7/16	4-3/8
2-1/8	15900	14900	13740	12610	11500	10420	9350	8290	7280	6280	5280
2-1/4	14920	14870	13740	12610	11500	10420	9350	8290	7280	6280	5280
2-3/8	13870	13830	13740	12610	11500	10420	9350	8290	7280	6280	5280
2-7/16	13320	13280	13740	12610	11500	10420	9350	8290	7280	6280	5280
2-1/2	12770	12730	12680	12610	11500	10420	9350	8290	7280	6280	5280
2-9/16	12200	12160	12120	12080	11500	10420	9350	8290	7280	6280	5280
2-5/8	11610	11570	11530	11500	11460	10420	9350	8290	7280	6280	5280
2-11/16	11000	10970	10930	10900	10860	10420	9350	8290	7280	6280	5280

NC40 ID (in)	5-1/5	5-3/8	5-1/4	5-1/8	OD (in) 5	4-7/8	4-3/4	4-5/8			
2-1/4	19760	19640	17620	15050	12570	10180	7880	5660			
2-3/8	18650	18530	17620	15050	12570	10180	7880	5660			
2-7/16	18070	17950	17620	15050	12570	10180	7880	5660			
2-1/2	17470	17360	17260	15050	12570	10180	7880	5660			
2-9/16	16870	16760	16660	15050	12570	10180	7880	5660			
2-5/8	16240	16130	16040	15050	12570	10180	7880	5660			
2-11/16	15590	15490	15400	15050	12570	10180	7880	5660			
2-3/4	14940	14840	14750	14660	12570	10180	7880	5660			
2-13/16	14270	14180	14100	14010	12570	10180	7880	5660			

NC46 ID (in)	6-1/2	6-7/16	6-3/8	6-5/16	OD (in) 6-1/4	6-3/16	6-1/8	6-1/16	6	5-15/16	
2-1/2	30100	30020	29940	29860	29780	29700	29620	28670	26980	25320	
2-5/8	28690	28610	28540	28460	28390	28310	28230	28150	26980	25320	
2-3/4	27220	27140	27070	26990	26920	26850	26780	26710	26630	25320	
2-7/8	25670	25600	25530	25460	25390	25330	25250	25190	25120	25320	
3	24050	23990	23920	23860	23800	23730	23660	23600	23540	23470	
3-1/8	22370	22310	22250	22190	22130	22070	22010	21950	21890	21830	
3-1/4	20620	20560	20510	20450	20390	20340	20290	20230	20180	20120	
3-3/8	18800	18740	18700	18640	18590	18550	18490	18440	18400	18340	
3-1/2	16910	16860	16820	16770	16730	16680	16630	16590	16540	16500	

## Tool Joint Makeup Torque (ft/lb)

NC46 cont. ID (in)	5-7/8	5-13/16	5-3/4	5-11/16	OD (in) 5-5/8	5-9/16	5-3/8	5-5/16	5-1/4	5-5/32
2-1/2	23660	22020	20440	18880	17310	15770	11360	9920	8530	6470
2-5/8	23660	22020	20440	18880	17310	15770	11360	9920	8530	6470
2-3/4	23660	22020	20440	18880	17310	15770	11360	9920	8530	6470
2-7/8	23660	22020	20440	18880	17310	15770	11360	9920	8530	6470
3	23410	22020	20440	18880	17310	15770	11360	9920	8530	6470
3-1/8	21770	21710	20440	18880	17310	15770	11360	9920	8530	6470
3-1/4	20060	20010	19960	18880	17310	15770	11360	9920	8530	6470
3-3/8	18290	18240	18190	18140	17310	15770	11360	9920	8530	6470
3-1/2	16450	16410	16360	16320	16270	15770	11360	9920	8530	6470

NC50 ID (in)	6-5/8	6-9/16	6-1/2	6-7/16	OD (in) 6-3/8	6-5/16	6-1/4	6-3/16
2-3/4	38040	36170	34190	32240	30290	28370	26500	24660
2-7/8	36400	36170	34190	32240	30290	28370	26500	24660
3	34680	34590	34190	32240	30290	28370	26500	24660
3-1/16	33800	33710	33630	32240	30290	28370	26500	24660
3-1/8	32890	32810	32720	32240	30290	28370	26500	24660
3-1/4	31020	30950	30870	30790	30290	28370	26500	24660
3-3/8	29090	29020	28940	28870	28790	28370	26500	24660
3-1/2	27080	27010	26940	26870	26800	26740	26500	24660
3-5/8	24990	24930	24870	24800	24740	24680	24620	24550
3-3/4	22840	22780	22720	22660	22610	22550	22490	22430

NC50 cont. ID (in)	6-1/8	6-1/16	6	5-15/16	OD (in) 5-7/8	5-13/16	5-3/4	5-11/16
2-3/4	22820	21020	19240	17510	15770	14070	12410	10790
2-7/8	22820	21020	19240	17510	15770	14070	12410	10790
3	22820	21020	19240	17510	15770	14070	12410	10790
3-1/16	22820	21020	19240	17510	15770	14070	12410	10790
3-1/8	22820	21020	19240	17510	15770	14070	12410	10790
3-1/4	22820	21020	19240	17510	15770	14070	12410	10790
3-3/8	22820	21020	19240	17510	15770	14070	12410	10790
3-1/2	22820	21020	19240	17510	15770	14070	12410	10790
3-5/8	22820	21020	19240	17510	15770	14070	12410	10790
3-3/4	22370	21020	19240	17510	15770	14070	12410	10790

NC56 ID (in)	8	7-7/8	7-3/4	7-5/8	OD (in) 7-1/2	7-3/8	7-1/4	7-1/8
3	53780	53540	53300	53060	52810	51520	46660	41900
3-1/8	51790	51560	51320	51090	50860	50620	46660	41900
3-1/4	49720	49490	49270	49040	48820	48590	46660	41900
3-3/8	47560	47350	47130	46910	46700	46480	46270	41900
3-1/2	45320	45120	44910	44710	44500	44300	44090	41900
3-5/8	43000	42810	42610	42420	42200	42030	41620	41640
3-3/4	40600	40420	40240	40050	39870	39680	39500	39320
3-7/8	38120	37940	37780	37600	37430	37260	37090	36910
4	35560	35390	35230	35080	34910	34750	34590	34430

## Tool Joint Makeup Torque (ft/lb)

4-1/2 FH ID (in)	6-1/4	6-1/8	6	5-7/8	OD (in) 5-3/4	5-5/8	5-1/2	5-3/8	5-9/32		
2-1/2	26860	26710	26560	23890	20870	17860	14950	12130	10070		
2-5/8	25520	25380	25240	23890	20870	17860	14950	12130	10070		
2-3/4	24110	23980	23840	23710	20870	17860	14950	12130	10070		
2-7/8	22640	22520	22390	22260	20870	17860	14950	12130	10070		
3	21110	20990	20870	20750	20630	17860	14950	12130	10070		

5-1/2 FH ID (in)	7-1/2	7-3/8	7-1/4	7-1/8	OD (in) 7	6-7/8	6-3/4	6-5/8	6-17/32	6-13/32	
3	52300	52060	47230	42430	37740	33180	28740	22410	21240	17120	
3-1/16	51330	51100	47230	42430	37740	33180	28740	22410	21240	17120	
3-1/8	50320	50090	47230	42430	37740	33180	28740	22410	21240	17120	
3-1/4	48260	48040	47230	42430	37740	33180	28740	22410	21240	17120	
3-3/8	46120	45910	45700	42430	37740	33180	28740	22410	21240	17120	
3-1/2	43890	43690	43490	42430	37740	33180	28740	22410	21240	17120	
3-5/8	41590	41390	41210	41020	37740	33180	28740	22410	21240	17120	
3-3/4	39200	39020	38840	38660	37740	33180	28740	22410	21240	17120	
3-7/8	36730	36560	36400	36230	36060	33180	28740	22410	21240	17120	
4	34180	34030	33870	33710	33560	33180	28740	22410	21240	17120	

6-5/8 FH ID (in)	8-3/4	8-5/8	8-1/2	8-3/8	OD (in) 8-1/4	8-1/8	8	7-3/4	7-1/2	7-1/8	
4	72230	71950	71670	71380	65120	58850	52720	40860	29550	24100	
4-1/2	59500	59270	59030	58800	58570	58330	52720	40860	29550	24100	
4-3/4	52570	52360	52160	51950	51740	51530	51330	40860	29550	24100	
5	45260	45080	44910	44730	44550	44380	44200	40860	29550	24100	
5-1/4	37850	37440	37290	37140	37000	36850	36700	36400	29550	24100	

2-7/8 PAC ID (in)	3-1/8	3-1/16	3	2-15/16	OD (in) 2-7/8	2-13/16	2-3/4	2-11/16			
1-1/4	4090	3590	3130	2670	2220	1780	1370	960			
1-3/8	3880	3590	3130	2670	2220	1780	1370	960			
1-1/2	3440	3420	3130	2670	2220	1780	1370	960			
1-5/8	2960	2950	2930	2670	2220	1780	1370	960			
1-3/4	2450	2440	2420	2670	2220	1780	1370	960			

2-7/8 SL-H90 ID (in)	4-1/4	4-1/8	4	3-7/8	OD (in) 3-3/4	3-5/8	3-1/2	3-7/16			
2	8040	7990	7930	7880	6500	4910	3400	4453			
2-1/8	7150	7100	7050	7000	6500	4910	3400	4453			
2-5/32	6920	6870	6820	6770	6500	4910	3400	4453			
2-1/4	6200	6160	6110	6070	6030	4910	3400	4453			
2-3/8	5190	5160	5120	5090	5050	4910	3400	4453			
2-7/16	4670	4630	4600	4570	4540	4510	3400	4453			

## Tool Joint Makeup Torque (ft/lb)

<b>3-1/2 SL-H90 ID (in)</b>	<b>5</b>	<b>4-7/8</b>	<b>4-3/4</b>	<b>4-5/8</b>	<b>OD (in) 4-1/2</b>	<b>4-3/8</b>	<b>4-1/4</b>	<b>4-1/8</b>			
2-1/2	13310	13240	13160	13080	11000	8740	6580	4490			
2-5/8	12010	11940	11870	11800	11000	8740	6580	4490			
2-11/16	11330	11260	11200	11130	11000	8740	6580	4490			
2-3/4	10640	10580	10520	10460	10400	8740	6580	4490			
2-7/8	9210	9160	9110	9050	9000	8740	6580	4490			
3	7720	7670	7630	7580	7540	7490	6580	4490			

<b>4 H90 ID (in)</b>	<b>6-1/4</b>	<b>6-1/8</b>	<b>6</b>	<b>5-7/8</b>	<b>OD (in) 5-3/4</b>	<b>5-5/8</b>	<b>5-1/2</b>	<b>5-5/32</b>	<b>5-1/32</b>	<b>4-7/8</b>	<b>4-27/32</b>
2-3/4	22700	22580	22460	22350	22230	22120	22000	13910	11060	7630	6970
2-13/16	21910	21790	21680	21570	21460	21340	21230	13910	11060	7630	6970
2-7/8	21080	20970	20860	20750	20650	20540	20430	13910	11060	7630	6970
3	19390	19290	19190	19090	19000	18890	18790	13910	11060	7630	6970
3-1/8	17630	17540	17450	17360	17270	17180	17090	13910	11060	7630	6970

<b>4-1/2 H90 ID (in)</b>	<b>6-3/4</b>	<b>6-5/8</b>	<b>6-1/2</b>	<b>6-3/8</b>	<b>OD (in) 6-1/4</b>	<b>6-1/8</b>	<b>6</b>	<b>5-7/8</b>	<b>5-3/4</b>	<b>5-1/2</b>	<b>5-3/8</b>
2-7/8	29700	29560	29420	29270	29130	28990	28850	26660	23090	16260	13010
3	27890	27760	27620	27490	27360	27220	27090	26660	23090	16260	13010
3-1/8	26010	25880	25760	25630	25510	25390	25260	25130	23090	16260	13010
3-1/4	24050	23930	23810	23700	23590	23470	23360	23240	23090	16260	13010
3-3/8	22010	21900	21800	21690	21590	21480	21380	21270	21160	16260	13010
3-1/2	19890	19790	19700	19610	19510	19420	19320	19220	19130	16260	13010

<b>3-1/2 XH ID (in)</b>	<b>5</b>	<b>4-7/8</b>	<b>4-3/4</b>	<b>4-5/8</b>	<b>OD (in) 4-1/2</b>	<b>4-3/8</b>	<b>4-1/4</b>	<b>4-1/8</b>			
2-1/4	11930	11850	11770	11690	9770	7820	5950	4150			
2-3/8	10910	10840	10770	10700	9770	7820	5950	4150			
2-7/16	10380	10310	10240	10180	9770	7820	5950	4150			
2-1/2	9850	9780	9710	9650	9580	7820	5950	4150			
2-9/16	9290	9230	9170	9110	9040	7820	5950	4150			
2-5/8	8720	8660	8600	8540	8480	7820	5950	4150			

<b>DSTJ™ 5-1/2 FH ID (in)</b>	<b>7-1/4</b>	<b>7</b>									
3-1/4	60600	50000									
3-1/2	55400	48900									
3-3/4	48700	47500									
4	41700	41500									