Small Diameter Tool Joints Dimension and Strength Data

Size	Connection	Box OD	Pin ID	Yield Torque	Recommended Make-Up Torque	Tensile Yield Load at 0 Make-Up Torque
		in.	in.	ft-lb	ft-lb	lb
1	MT (API Reg)	1-9/16	3/4	690	410	61,870
			13/16	590	350	52,590
	MT DSI■		3/4	920	550	61,870
1-1/4	MT	1-3/4	1	780	470	63,090
			7/8	1,060	630	85,180
			13/16	1,100●	660	95,040
			3/4			104,320
	FJ (Reg)	2-3/16	5/8	2,230	1,330	162,020
	MT DSI■	1-3/4	7/8	1,290	770	85,180
1-1/2	MT (API Reg)	2	1	1,600	960	115,290
			1-5/32	1,160	700	83,590
			1-1/8	1,260	750	90,250
			1-1/16	1,430	860	103,040
	MT DSI■		1	2,150	1,290	115,290
1-9/16	Homco Slimline	1-9/16	15/16	900●	540	71,120
1-5/8	Baash Ross	1.660	3/4	1,050●	630	89,370
1-13/16	Homco Slimline	1-13/16	1	900●	540	111,000
	Homco FJ		3/4	1,600●	960	113,000
	Wilson FJ			1,220●	730	103,860
2-1/16	MT DSI■	2.330	1-1/4	2,490	1,490	121,940
2-3/8	PAC	2-7/8	1-3/8	4,930	2,960	244,720
	PAC DSI■		1-1/2	5,920	3,550	210,840
	Reg DSI■	3-1/8	1	7,280●	4,370	365,260
	Homco FJ	2-1/2		3,350●	2,010	203,100
	Wilson FJ		1-1/16	3,180	1,900	193,960
2-7/8	AM OH	3-7/8	2.151	8,900	5,340	345,360
	AM OH - LW	3-3/4	2.441	5,700	3,420	223,680
	PAC	3-1/8	1-1/2	6,010	3,610	279,720
	PAC DSI■			8,660	5,200	
3-1/2	PAC	3-3/4	2	9,110	5,470	361,540

Torque and tensile values based on material minimum yield strength of 120,000 psi

Check applicable pipe for comparative values

Recommended make-up torque = 60% of yield torque

Factor of safety = 1 for yield torque and tensile yield load calculations

■ Double Shoulder Internal

● Box weak in torsion, all other connections listed are pin weak in torsion

Large Diameter Tool Joints Dimension and Strength Data

Size	Connection	Box OD	Pin ID	Yield Torque	Recommended Make-Up Torque	Tensile Yield Load at 0 Make-Up Torque
		in.	in.	ft-lb	ft-lb	lb
2-3/8	API Reg	3-1/8	1	5,810●	3,480	362,660
	API IF (NC26)	3-3/8	1-3/4	6,870●	4,120	303,790
2-7/8	API Reg	3-3/4	1-1/4	11,080	6,650	478,540
	API FH	4-1/4	2-1/8	13,310●	7,980	539,780
	API IF (NC31)	4-1/8		11,870	7,120	435,220
	Hughes SH	3-3/8	1-3/4	6,870●	4,120	313,280
	Hughes X-Hole	4-1/4	1-7/8	13,580	8,150	504,580
3-1/2	API Reg	4-1/4	1-1/2	15,140●	9,080	679,870
	API FH	4-5/8	2-1/8	16,270●	9,760	775,890
	API IF (NC38)	4-3/4	2-11/16	18,090	10,850	572,690
	Hughes DSL	3-7/8	1-13/16	10,290●	6,170	514,940
	Hughes SH	4-1/8	2-1/8	12,180	7,300	446,650
	Hughes X-Hole	4-3/4	2-7/16	17,470	10,480	570,160
	Hughes H-90	5	2-3/4	23,570	14,140	648,660
		5-1/4		23,710	14,220	
4	API FH (NC40)	5-1/4	2-13/16	23,470	14,080	695,940
	API IF (NC46)	6	3-1/4	33,620	20,170	883,580
	Hughes SH	4-5/8	2-9/16	15,550	9,330	511,250
	Hughes H-90	5-1/2	2-13/16	35,430	21,260	897,540
4-1/2	API Reg	5-1/2	2-1/4	29,900●	17,940	1,186,440
	API FH	5-3/4	3	34,380	20,630	950,330
	API IF (NC50)	6-5/8	3-3/4	38,060	22,830	919,880
	Hughes X-Hole	6-1/4	3-1/4	34,020	20,410	883,580
	Hughes H-90	6	3	45,260	27,150	1,068,490
			3-1/4	39,020	23,410	921,230
5	Hughes X-Hole	6-3/8	3-3/4	38,440	23,060	938,600
5-1/2	API Reg	6-3/4	2-3/4	61,330●	36,790	1,678,810
	API FH	7	4	55,930	33,550	1,244,530
	API IF	7-3/8	4-13/16	61,670	37,000	1,264,360
6-5/8	API Reg	7-3/4	3-1/2	83,380	50,020	1,770,500
	API FH	8	5	73,680	44,210	1,423,990
	API IF	8-1/2	5-29/32	83,460	50,070	1,476,870
7-5/8	API Reg	8-7/8	4	133,650	80,190	2,495,960
8-5/8	API Reg	10	4-3/4	189,880	113,930	3,132,570

Torque and tensile values based on material minimum yield strength of 120,000 psi

Check applicable pipe for comparative values

Recommended make-up torque is equal to 60% of yield torque

Factor of safety = 1 for yield torque and tensile yield load calculations

● Box weak in torsion, all other connections listed are pin weak in torsion