

WS-700 Performance Data vs CS

J-55, L-80/N-80



website - www.torquelock.com
 contact - info@torquelock.com

			1-1/2" X 0.20 WALL		1-1/2" X 0.219 WALL		2-1/16"			
			WS-700	CS TWO STEP	WS-700	CS TWO STEP	WS-700	CS TWO STEP		
PIPE DATA		OD	in.	1.900	1.900	1.900	1.900	2.063	2.063	
		Nom. Wt.	lbs/ft	3.64	3.64	4.19	4.19	4.50	4.50	
		Wall	in.	0.200	0.200	0.219	0.219	0.225	0.225	
		ID Nom.	in.	1.500	1.500	1.462	1.462	1.613	1.613	
		Drift	in.	1.406	1.406	1.368	1.368	1.519	1.519	
		Area	sq in.	1.0681	1.0681	1.1565	1.1565	1.2992	1.2992	
	J-55	Pipe Body Yield Strength (Tension)	1000 lbs	58.745	58.745	63.610	63.610	71.456	71.456	
		Min Collapse Pressure	lbs/in ²	10,360	10,360	11,220	11,220	10,690	10,690	
		Min Internal Yield (burst) ^{††}	lbs/in ²	10,130	10,130	11,090	11,090	10,500	10,500	
	L-80/N-80	Pipe Body Yield Strength (Tension)	1000 lbs	85.448	85.448	92.520	92.520	103.936	103.936	
		Min Collapse Pressure	lbs/in ²	15,070	15,070	16,320	16,320	15,550	15,550	
		Min Internal Yield (burst) ^{††}	lbs/in ²	14,740	14,740	16,140	16,140	15,270	15,270	
	CONNECTION DATA		OD	in.	2.175	2.162	2.175	2.179	2.407	2.460
			ID	in.	1.440	1.440	1.390	1.390	1.550	1.550
			Makeup Loss	in.	2.637	2.22	2.637	2.22	2.637	2.23
			Threads Per Inch	=	3	8	3	8	3	8
			Tension Compared to Pipe Body	%	100	100	100	100	100	100
		J-55	Connection Yield Strength Tension	1000 lbs	58.745	58.745	63.610	63.610	71,456	71,456
Setting Depth SF-1			ft.	16,138	16,138	15,181	15,181	15,879	15,879	
Collapse Setting Depth [†]			ft.	18,418	18,418	19,947	19,947	19,004	19,004	
Recommended Makeup Torque			ft-lbs	600 min	600 min	600 min	600 min	700 min	700 min	
		800 max		800 max	800 max	800 max	900 max	900 max		
L-80/N-80		Connection Yield Strength Tension	1000 lbs	85.448	85.448	92.520	92.520	103.936	103.936	
		Setting Depth SF-1	ft.	23,474	23,474	22,081	22,081	23,097	22,976	
		Collapse Setting Depth [†]	ft.	26,791	26,791	29,013	29,013	27,644	27,644	
		Recommended Makeup Torque	ft-lbs	800 min	800 min	800 min	800 min	900 min	900 min	
1000 max				1000 max	1000 max	1000 max	1100 max	1100 max		

* API FORMULAS BUL 5C2 5C3

†† INTERNAL YIELD (BURST) BASED ON 87.5% MIN YIELD STRENGTH

† PRESSURE GRADIENT 1/2#/FT AND DESIGN FACTOR 1.125

† (EXAMPLE SETTING DEPTH LIMITED BY PIPE BODY TENSION YIELD)

CS IS A REGISTERED TRADE MARK OF THE TENARIS CORPORATION

WS-700 Performance Data vs CS

T-95, P-110 / C-110



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			1-1/2" X 0.20 WALL		1-1/2" X 0.219 WALL		2-1/16"			
			WS-700	CS TWO STEP	WS-700	CS TWO STEP	WS-700	CS TWO STEP		
PIPE DATA		OD	in.	1.900	1.900	1.900	1.900	2.063	2.063	
		Nom. Wt.	lbs/ft	3.64	3.64	4.19	4.19	4.50	4.50	
		Wall	in.	0.200	0.200	0.219	0.219	0.225	0.225	
		ID Nom.	in.	1.500	1.500	1.462	1.462	1.613	1.613	
		Drift	in.	1.406	1.406	1.368	1.368	1.519	1.519	
		Area	sq in.	1.0681	1.068	1.1565	1.1565	1.2992	1.2992	
	T-95	Pipe Body Yield Strength (Tension)	1000 lbs	101,470	101,470	109,870	109,870	123,420	123,420	
		Min Collapse Pressure	lbs/in ²	17,890	17,890	19,380	19,380	18,460	18,460	
		Min Internal Yield (burst) ^{††}	lbs/in ²	17,500	17,500	19,160	19,160	18,130	18,130	
	P-110 \ C-110	Pipe Body Yield Strength (Tension)	1000 lbs	117,550	117,550	127,220	127,220	142,910	142,910	
		Min Collapse Pressure	lbs/in ²	20,720	20,720	22,440	22,440	21,380	21,380	
		Min Internal Yield (burst) ^{††}	lbs/in ²	20,260	20,260	22,190	22,190	20,990	20,990	
	CONNECTION DATA		OD	in.	2.175	2.162	2.175	2.179	2.407	2.460
			ID	in.	1.440	1.440	1.390	1.390	1.550	1.550
			Makeup Loss	in.	2.637	2.22	2.637	2.22	2.637	2.23
			Threads Per Inch	=	3	8	3	8	3	8
			Tension Compared to Pipe Body	%	100	100	100	100	100	100
		T-95	Connection Yield Strength Tension	1000 lbs	101,470	101,470	109,870	109,870	123,420	123,420
Setting Depth SF-1			ft.	27,876	27,876	26,222	26,222	27,319	26,185	
Collapse Setting Depth [†]			ft.	31,804	31,804	34,453	34,453	32,817	32,817	
Recommended Makeup Torque			ft-lbs	800 min	800 min	800 min	800 min	900 min	900 min	
		1000 max		1000 max	1000 max	1000 max	1100 max	1100 max		
P-110 \ C-110		Connection Yield Strength Tension	1000 lbs	117,550	117,550	127,220	127,220	142,910	142,910	
		Setting Depth SF-1	ft.	32,294	32,294	30,363	30,363	31,758	31,758	
		Collapse Setting Depth [†]	ft.	36,835	36,835	39,893	39,893	38,008	38,008	
		Recommended Makeup Torque	ft-lbs	800 min	685 min	800 min	800 min	800 min	900 min	
1000 max				950 max	1000 max	1000 max	1000 max	1100 max		

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