

HW™

Torque table

# HW™ Torque Table | 5" TO 7"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE	
				Minimum	Optimum	Maximum	Minimum	Maximum
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
5	26.70	0.562	55	4240	5300	6360	270	4240
			80	4800	6000	7200	300	4800
			90	5040	6300	7560	320	5040
			95	5040	6300	7560	320	5040
			110	5520	6900	8280	350	5520
			125	5840	7300	8760	370	5840
	29.20	0.625	55	4880	6100	7320	310	4880
			80	5600	7000	8400	350	5600
			90	5920	7400	8880	370	5920
			95	5920	7400	8880	370	5920
			110	6560	8200	9840	410	6560
			125	7040	8800	10560	440	7040
	31.60	0.687	55	5360	6700	8040	340	5360
			80	6320	7900	9480	400	6320
			90	6720	8400	10080	420	6720
			95	6720	8400	10080	420	6720
110			7520	9400	11280	470	7520	
125			8080	10100	12120	510	8080	
34.00	0.750	55	5920	7400	8880	370	5920	
		80	7120	8900	10680	450	7120	
		90	7600	9500	11400	480	7600	
		95	7600	9500	11400	480	7600	
		110	8480	10600	12720	530	8480	
		125	9200	11500	13800	580	9200	
5 1/2	28.40	0.530	55	4960	6200	7440	310	4960
			80	5520	6900	8280	350	5520
			90	5760	7200	8640	360	5760
			95	5760	7200	8640	360	5760
			110	6240	7800	9360	390	6240
			125	6560	8200	9840	410	6560
	29.70	0.562	55	5280	6600	7920	330	5280
			80	5920	7400	8880	370	5920
			90	6240	7800	9360	390	6240
			95	6240	7800	9360	390	6240
			110	6720	8400	10080	420	6720
			125	7120	8900	10680	450	7120
	32.00	0.612	55	5840	7300	8760	370	5840
			80	6640	8300	9960	420	6640
			90	7040	8800	10560	440	7040
			95	7040	8800	10560	440	7040
			110	7680	9600	11520	480	7680
			125	8240	10300	12360	520	8240
	32.60	0.625	55	6000	7500	9000	380	6000
			80	6880	8600	10320	430	6880
			90	7280	9100	10920	460	7280
			95	7280	9100	10920	460	7280
			110	8000	10000	12000	500	8000
			125	8480	10600	12720	530	8480
35.30	0.687	55	6640	8300	9960	420	6640	
		80	7840	9800	11760	490	7840	
		90	8240	10300	12360	520	8240	
		95	8240	10300	12360	520	8240	
		110	9200	11500	13800	580	9200	
		125	9840	12300	14760	620	9840	
36.40	0.705	55	7680	9600	11520	480	7680	
		80	8880	11100	13320	560	8880	
		90	9360	11700	14040	590	9360	
		95	9360	11700	14040	590	9360	
		110	10320	12900	15480	650	10320	
		125	11040	13800	16560	690	11040	
38.00	0.750	55	8160	10200	12240	510	8160	
		80	9520	11900	14280	600	9520	

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		
				Minimum	Optimum	Maximum	Minimum	Maximum	
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	
5 1/2	38.00	0.750	90	10080	12600	15120	630	10080	
			95	10080	12600	15120	630	10080	
			110	11200	14000	16800	700	11200	
			125	12000	15000	18000	750	12000	
	40.50	0.812	55	8800	11000	13200	550	8800	
			80	10400	13000	15600	650	10400	
			90	11040	13800	16560	690	11040	
			95	11040	13800	16560	690	11040	
	43.10	0.875	110	12320	15400	18480	770	12320	
			125	13280	16600	19920	830	13280	
			55	9440	11800	14160	590	9440	
			80	11280	14100	16920	710	11280	
			90	12000	15000	18000	750	12000	
			95	12000	15000	18000	750	12000	
			110	13440	16800	20160	840	13440	
			125	14560	18200	21840	910	14560	
6 5/8	34.50	0.525	55	6240	7800	9360	390	6240	
			80	7120	8900	10680	450	7120	
			90	7440	9300	11160	470	7440	
			95	7440	9300	11160	470	7440	
	36.70	0.562	110	8160	10200	12240	510	8160	
			125	8640	10800	12960	540	8640	
			55	6720	8400	10080	420	6720	
			80	7680	9600	11520	480	7680	
				90	8160	10200	12240	510	8160
				95	8160	10200	12240	510	8160
				110	8960	11200	13440	560	8960
				125	9520	11900	14280	600	9520
	40.20	0.625	55	7680	9600	11520	480	7680	
			80	9040	11300	13560	570	9040	
			90	9520	11900	14280	600	9520	
			95	9520	11900	14280	600	9520	
				110	10640	13300	15960	670	10640
				125	11440	14300	17160	720	11440
				55	8720	10900	13080	550	8720
				80	10400	13000	15600	650	10400
	43.70	0.687	90	11120	13900	16680	700	11120	
			95	11120	13900	16680	700	11120	
			110	12480	15600	18720	780	12480	
			125	13520	16900	20280	850	13520	
46.00	0.730	55	9440	11800	14160	590	9440		
		80	11360	14200	17040	710	11360		
		90	12160	15200	18240	760	12160		
		95	12160	15200	18240	760	12160		
			110	13760	17200	20640	860	13760	
			125	14960	18700	22440	940	14960	
			55	9760	12200	14640	610	9760	
			80	11840	14800	17760	740	11840	
47.10	0.750	90	12720	15900	19080	800	12720		
		95	12720	15900	19080	800	12720		
		110	14400	18000	21600	900	14400		
		125	15600	19500	23400	980	15600		
50.40	0.812	55	10720	13400	16080	670	10720		
		80	13120	16400	19680	820	13120		
		90	14080	17600	21120	880	14080		
		95	14080	17600	21120	880	14080		
			110	16080	20100	24120	1010	16080	
			125	17520	21900	26280	1100	17520	
			55	6880	8600	10320	430	6880	
			80	7920	9900	11880	500	7920	
7	38.00	0.540	90	8320	10400	12480	520	8320	
			95	8320	10400	12480	520	8320	

7" TO 8 5/8"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE			
				Minimum	Optimum	Maximum	Minimum	Maximum		
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb		
<b>7</b>	38.00	0.540	110	9040	11300	13560	570	9040		
			125	9680	12100	14520	610	9680		
			41.00	0.590	55	7840	9800	11760	490	7840
					80	9120	11400	13680	570	9120
					90	10400	13000	15600	650	10400
	95	10400			13000	15600	650	10400		
	110	10640			13300	15960	670	10640		
	42.70	0.625	125	11440	14300	17160	720	11440		
			55	8400	10500	12600	530	8400		
			80	9920	12400	14880	620	9920		
			90	10560	13200	15840	660	10560		
			95	10560	13200	15840	660	10560		
	44.00	0.640	110	11760	14700	17640	740	11760		
			125	12640	15800	18960	790	12640		
			55	8720	10900	13080	550	8720		
			80	10320	12900	15480	650	10320		
			90	10960	13700	16440	690	10960		
	46.00	0.670	95	10960	13700	16440	690	10960		
			110	12240	15300	18360	770	12240		
			125	13200	16500	19800	830	13200		
55			9280	11600	13920	580	9280			
80			11040	13800	16560	690	11040			
46.40	0.687	90	11760	14700	17640	740	11760			
		95	11760	14700	17640	740	11760			
		110	13200	16500	19800	830	13200			
		125	14320	17900	21480	900	14320			
		55	9600	12000	14400	600	9600			
49.50	0.730	80	11520	14400	17280	720	11520			
		90	12240	15300	18360	770	12240			
		95	12240	15300	18360	770	12240			
		110	13840	17300	20760	870	13840			
		125	14960	18700	22440	940	14960			
50.10	0.750	55	10400	13000	15600	650	10400			
		80	12560	15700	18840	790	12560			
		90	13440	16800	20160	840	13440			
		95	13440	16800	20160	840	13440			
		110	15200	19000	22800	950	15200			
53.60	0.812	125	16560	20700	24840	1040	16560			
		55	10640	13300	15960	670	10640			
		80	13040	16300	19560	820	13040			
		90	13920	17400	20880	870	13920			
		95	13920	17400	20880	870	13920			
57.10	0.875	110	15840	19800	23760	990	15840			
		125	17200	21500	25800	1080	17200			
		55	11760	14700	17640	740	11760			
		80	14560	18200	21840	910	14560			
		90	15600	19500	23400	980	15600			
<b>7 5/8</b>	42.80	0.562	95	15600	19500	23400	980	15600		
			110	17840	22300	26760	1120	17840		
			125	19440	24300	29160	1220	19440		
			55	12800	16000	19200	800	12800		
			80	16000	20000	24000	1000	16000		
			90	17280	21600	25920	1080	17280		
			95	17280	21600	25920	1080	17280		
			110	19760	24700	29640	1240	19760		
			125	21680	27100	32520	1360	21680		
			55	8560	10700	12840	540	8560		
			80	9920	12400	14880	620	9920		
			90	10480	13100	15720	660	10480		
			95	10480	13100	15720	660	10480		
			110	11600	14500	17400	730	11600		
			125	12400	15500	18600	780	12400		

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE	
				Minimum	Optimum	Maximum	Minimum	Maximum
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
<b>7 5/8</b>	45.30	0.595	55	9200	11500	13800	580	9200
			80	10720	13400	16080	670	10720
			90	11360	14200	17040	710	11360
			95	11360	14200	17040	710	11360
			110	12640	15800	18960	790	12640
	47.10	0.625	125	13520	16900	20280	850	13520
			55	9920	12400	14880	620	9920
			80	11760	14700	17640	740	11760
			90	12480	15600	18720	780	12480
			95	12480	15600	18720	780	12480
	51.20	0.687	110	13920	17400	20880	870	13920
			125	14960	18700	22440	940	14960
			55	11280	14100	16920	710	11280
			80	13680	17100	20520	860	13680
			90	14560	18200	21840	910	14560
	52.80	0.712	95	14560	18200	21840	910	14560
			110	16400	20500	24600	1030	16400
			125	17840	22300	26760	1120	17840
			55	11840	14800	17760	740	11840
			80	14320	17900	21480	900	14320
55.30	0.750	90	15360	19200	23040	960	15360	
		95	15360	19200	23040	960	15360	
		110	17360	21700	26040	1090	17360	
		125	18800	23500	28200	1180	18800	
		55	12640	15800	18960	790	12640	
59.20	0.812	80	15520	19400	23280	970	15520	
		90	16640	20800	24960	1040	16640	
		95	16640	20800	24960	1040	16640	
		110	18880	23600	28320	1180	18880	
		125	20560	25700	30840	1290	20560	
<b>8 5/8</b>	49.00	0.557	55	14000	17500	21000	880	14000
			80	17280	21600	25920	1080	17280
			90	18560	23200	27840	1160	18560
			95	18560	23200	27840	1160	18560
			110	21200	26500	31800	1330	21200
	49.10	0.562	125	23200	29000	34800	1450	23200
			55	10320	12900	15480	650	10320
			80	12080	15100	18120	760	12080
			90	12800	16000	19200	800	12800
			95	12800	16000	19200	800	12800
52.00	0.595	110	14240	17800	21360	890	14240	
		125	15360	19200	23040	960	15360	
		55	10480	13100	15720	660	10480	
		80	12320	15400	18480	770	12320	
		90	13040	16300	19560	820	13040	
54.00	0.625	95	13040	16300	19560	820	13040	
		110	14480	18100	21720	910	14480	
		125	15600	19500	23400	980	15600	
		55	11120	13900	16680	700	11120	
		80	13120	16400	19680	820	13120	
58.70	0.687	90	14000	17500	21000	880	14000	
		95	14000	17500	21000	880	14000	
		110	15600	19500	23400	980	15600	
		125	16800	21000	25200	1050	16800	
		55	12000	15000	18000	750	12000	
			80	14320	17900	21480	900	14320
			90	15200	19000	22800	950	15200
			95	15200	19000	22800	950	15200
			110	17040	21300	25560	1070	17040
			125	18480	23100	27720	1160	18480
			55	13760	17200	20640	860	13760
			80	16800	21000	25200	1050	16800

8 5/8" TO 14"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		
				Minimum	Optimum	Maximum	Minimum	Maximum	
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	
8 5/8	58.70	0.687	90	18000	22500	27000	1130	18000	
			95	18000	22500	27000	1130	18000	
			110	20400	25500	30600	1280	20400	
			125	22160	27700	33240	1390	22160	
	63.50	0.750	55	15680	19600	23520	980	15680	
			80	19360	24200	29040	1210	19360	
			90	20800	26000	31200	1300	20800	
			95	20800	26000	31200	1300	20800	
	68.10	0.812	110	23760	29700	35640	1490	23760	
			125	26000	32500	39000	1630	26000	
			55	17360	21700	26040	1090	17360	
			80	21680	27100	32520	1360	21680	
			90	23360	29200	35040	1460	23360	
			95	23360	29200	35040	1460	23360	
			110	26880	33600	40320	1680	26880	
			125	29440	36800	44160	1840	29440	
9 5/8	58.40	0.595	55	10960	13700	16440	690	10960	
			80	13200	16500	19800	830	13200	
			90	14160	17700	21240	890	14160	
			95	14160	17700	21240	890	14160	
	59.40	0.609	110	15920	19900	23880	1000	15920	
			125	17280	21600	25920	1080	17280	
			55	11040	13800	16560	690	11040	
			80	13280	16600	19920	830	13280	
				90	14240	17800	21360	890	14240
				95	14240	17800	21360	890	14240
				110	16000	20000	24000	1000	16000
				125	17360	21700	26040	1090	17360
	61.10	0.625	55	11360	14200	17040	710	11360	
			80	13760	17200	20640	860	13760	
			90	14720	18400	22080	920	14720	
			95	14720	18400	22080	920	14720	
				110	16560	20700	24840	1040	16560
				125	18000	22500	27000	1130	18000
				55	12960	16200	19440	810	12960
				80	15920	19900	23880	1000	15920
	64.90	0.672	90	17120	21400	25680	1070	17120	
			95	17120	21400	25680	1070	17120	
			110	19440	24300	29160	1220	19440	
			125	21280	26600	31920	1330	21280	
70.30	0.734	55	14880	18600	22320	930	14880		
		80	18560	23200	27840	1160	18560		
		90	20080	25100	30120	1260	20080		
		95	20080	25100	30120	1260	20080		
			110	23040	28800	34560	1440	23040	
			125	25280	31600	37920	1580	25280	
			55	16880	21100	25320	1060	16880	
			80	21360	26700	32040	1340	21360	
75.60	0.797	90	23200	29000	34800	1450	23200		
		95	23200	29000	34800	1450	23200		
		110	26720	33400	40080	1670	26720		
		125	28000	35000	42000	1750	28000		
80.80	0.859	55	18720	23400	28080	1170	18720		
		80	23920	29900	35880	1500	23920		
		90	26000	32500	39000	1630	26000		
		95	26000	32500	39000	1630	26000		
			110	28000	35000	42000	1750	28000	
			125	28000	35000	42000	1750	28000	
			55	9760	12200	14640	610	9760	
			80	12080	15100	18120	760	12080	
10 3/4	65.70	0.595	90	13040	16300	19560	820	13040	

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE	
				Minimum	Optimum	Maximum	Minimum	Maximum
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
10 3/4	65.70	0.595	95	13040	16300	19560	820	13040
			110	14960	18700	22440	940	14960
			125	16320	20400	24480	1020	16320
			55	11680	14600	17520	730	11680
			80	14800	18500	22200	930	14800
	73.20	0.672	90	16080	20100	24120	1010	16080
			95	16080	20100	24120	1010	16080
			110	18560	23200	27840	1160	18560
			125	20400	25500	30600	1280	20400
			55	13760	17200	20640	860	13760
	79.20	0.734	80	17760	22200	26640	1110	17760
			90	19280	24100	28920	1210	19280
			95	19280	24100	28920	1210	19280
			110	22480	28100	33720	1410	22480
			125	24880	31100	37320	1560	24880
85.30	0.797	55	15760	19700	23640	990	15760	
		80	20560	25700	30840	1290	20560	
		90	22480	28100	33720	1410	22480	
		95	22480	28100	33720	1410	22480	
		110	26320	32900	39480	1650	26320	
91.20	0.859	125	28000	35000	42000	1750	28000	
		55	17440	21800	26160	1090	17440	
		80	22880	28600	34320	1430	22880	
		90	25040	31300	37560	1570	25040	
		95	25040	31300	37560	1570	25040	
14	86.00	0.600	110	28000	35000	42000	1750	28000
			125	28000	35000	42000	1750	28000
			55	13200	16500	19800	830	13200
			80	17280	21600	25920	1080	17280
			90	18960	23700	28440	1190	18960
	93.00	0.650	95	18960	23700	28440	1190	18960
			110	22240	27800	33360	1390	22240
			125	24640	30800	36960	1540	24640
			55	14720	18400	22080	920	14720
			80	19440	24300	29160	1220	19440
	100.00	0.700	90	21280	26600	31920	1330	21280
			95	21280	26600	31920	1330	21280
			110	25040	31300	37560	1570	25040
			125	27840	34800	41760	1740	27840
			55	17280	21600	25920	1080	17280
106.00	0.750	80	23040	28800	34560	1440	23040	
		90	25360	31700	38040	1590	25360	
		95	25360	31700	38040	1590	25360	
		110	28000	35000	42000	1750	28000	
		125	28000	35000	42000	1750	28000	
112.00	0.800	55	20000	25000	30000	1250	20000	
		80	27040	33800	40560	1690	27040	
		90	28000	35000	42000	1750	28000	
		95	28000	35000	42000	1750	28000	
		110	28000	35000	42000	1750	28000	
120.00	0.850	125	28000	35000	42000	1750	28000	
		55	25200	31500	37800	1580	25200	
		80	28000	35000	42000	1750	28000	
		90	28000	35000	42000	1750	28000	
		95	28000	35000	42000	1750	28000	

14"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE	
				Minimum	Optimum	Maximum	Minimum	Maximum
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
14	120.00	0.850	110	28000	35000	42000	1750	28000
			125	28000	35000	42000	1750	28000

- SMYS: Specified Minimum Yield Strength.
- For other unlisted combinations of dimension and SMYS please contact [premiumconnections@tenaris.com](mailto:premiumconnections@tenaris.com)



For contact information, please visit  
our website: [www.tenaris.com](http://www.tenaris.com)