

**BOLTITE TW SERIES**  
**PRESSURE / TORQUE CONVERSION CHART**

Pump Pressure (psi)	TW1 Torque (lbf.ft)	TW3 Torque (lbf.ft)	TW6 Torque (lbf.ft)	TW11 Torque (lbf.ft)	TW25 Torque (lbf.ft)	TW45 Torque (lbf.ft)
1,000	146	301	615	1,096	2,450	4,717
1,200	175	361	738	1,315	2,940	5,660
1,400	204	421	861	1,534	3,430	6,603
1,600	234	481	984	1,754	3,920	7,547
1,800	263	541	1,107	1,973	4,410	8,490
2,000	292	601	1,230	2,192	4,900	9,433
2,200	321	662	1,353	2,411	5,390	10,377
2,400	350	722	1,476	2,630	5,880	11,320
2,600	380	782	1,599	2,850	6,370	12,263
2,800	409	842	1,722	3,069	6,860	13,206
3,000	438	902	1,845	3,288	7,350	14,150
3,200	467	962	1,968	3,507	7,840	15,093
3,400	496	1,022	2,091	3,726	8,330	16,063
3,600	526	1,083	2,214	3,946	8,820	16,980
3,800	555	1,143	2,337	4,165	9,310	17,923
4,000	584	1,203	2,460	4,384	9,800	18,866
4,200	613	1,263	2,583	4,603	10,290	19,810
4,400	642	1,323	2,706	4,822	10,780	20,753
4,600	672	1,383	2,829	5,042	11,270	21,696
4,800	701	1,443	2,952	5,261	11,760	22,640
5,000	730	1,504	3,075	5,480	12,250	23,583
5,200	759	1,564	3,198	5,699	12,740	24,526
5,400	788	1,624	3,321	5,918	13,230	25,470
5,600	818	1,684	3,444	6,138	13,720	26,413
5,800	847	1,744	3,567	6,357	14,210	27,356
6,000	876	1,804	3,690	6,576	14,700	28,300
6,200	905	1,865	3,813	6,795	15,190	29,243
6,400	934	1,925	3,926	7,014	15,680	30,186
6,600	964	1,985	4,059	7,234	16,170	31,130
6,800	993	2,045	4,182	7,453	16,660	32,073
7,000	1,022	2,105	4,305	7,672	17,150	33,016
7,200	1,051	2,165	4,428	7,891	17,640	33,960
7,400	1,080	2,225	4,551	8,110	18,130	34,903
7,600	1,109	2,286	4,674	8,330	18,620	35,843
7,800	1,139	2,346	4,797	8,549	19,110	36,789
8,000	1,168	2,406	4,920	8,768	19,600	37,733
8,200	1,197	2,466	5,043	8,987	20,090	38,676
8,400	1,226	2,526	5,166	9,206	20,580	39,619
8,600	1,255	2,586	5,289	9,426	21,070	40,563
8,800	1,285	2,646	5,412	9,645	21,560	41,506
9,000	1,314	2,707	5,535	9,864	22,050	42,449
9,200	1,343	2,767	5,658	10,083	22,540	43,393
9,400	1,372	2,827	5,781	10,302	23,030	44,336
9,600	1,401	2,887	5,904	10,522	23,520	45,279
9,800	1,431	2,947	6,027	10,741	24,010	46,223
10,000	1,460	3,007	6,150	10,960	24,500	47,166

To convert psi to bar, divide by 14.5  
 To convert lb.ft to Nm, multiple by 1.356

**BOLTITE TW SERIES**  
**PRESSURE / TORQUE CONVERSION CHART**

Pump Pressure Bar	TW1 Torque (Nm)	TW3 Torque (Nm)	TW6 Torque (Nm)	TW11 Torque (Nm)	TW25 Torque (Nm)	TW45 Torque (Nm)
68	198	408	834	1,486	3,322	6,395
82	237	489	1,001	1,783	3,986	7,674
95	277	571	1,167	2,080	4,650	8,952
109	317	652	1,334	2,378	5,315	10,232
122	357	733	1,501	2,675	5,979	11,510
136	396	815	1,668	2,972	6,643	12,789
150	435	898	1,834	3,269	7,307	14,069
163	475	979	2,001	3,566	7,972	15,347
177	515	1,060	2,168	3,864	8,636	16,626
190	555	1,142	2,335	4,161	9,300	17,904
204	594	1,223	2,501	4,458	9,965	19,184
218	633	1,304	2,668	4,755	10,629	20,462
231	672	1,386	2,835	5,052	11,293	21,777
245	713	1,468	3,002	5,350	11,958	23,021
258	752	1,550	3,168	5,647	12,622	24,299
272	792	1,631	3,335	5,944	13,286	25,578
286	831	1,712	3,502	6,241	13,951	26,857
299	870	1,794	3,750	6,537	14,615	28,136
313	911	1,875	3,835	6,836	15,279	29,414
326	950	1,956	4,002	7,133	15,944	30,694
340	990	2,039	4,169	7,430	16,608	31,973
354	1,029	2,120	4,336	7,726	17,272	33,251
367	1,068	2,202	4,502	8,023	17,937	34,531
381	1,109	2,283	4,669	8,322	18,601	35,809
394	1,148	2,364	4,836	8,618	19,265	37,088
408	1,188	2,446	5,003	8,915	19,930	38,368
422	1,227	2,528	5,169	9,212	20,594	39,646
435	1,266	2,610	5,323	9,509	21,258	40,925
449	1,307	2,691	5,503	9,807	21,922	42,204
462	1,346	2,773	5,670	10,104	22,587	43,483
476	1,386	2,854	5,836	10,401	23,251	44,761
490	1,425	2,935	6,003	10,698	23,915	46,041
503	1,464	3,017	6,170	10,995	24,580	47,320
517	1,504	3,099	6,337	11,293	25,244	48,594
530	1,544	3,181	6,504	11,590	25,908	49,877
544	1,584	3,262	6,670	11,887	26,573	51,156
558	1,623	3,343	6,837	12,184	27,237	52,435
571	1,662	3,425	7,004	12,481	27,901	53,713
585	1,701	3,506	7,171	12,779	28,566	54,993
598	1,742	3,587	7,337	13,076	29,230	56,272
612	1,781	3,670	7,504	13,373	29,894	57,550
626	1,821	3,751	7,671	13,670	30,559	58,830
639	1,860	3,833	7,838	13,967	31,223	60,108
653	1,899	3,914	8,004	14,265	31,887	61,387
666	1,940	3,995	8,171	14,562	32,552	62,667
680	1,979	4,077	8,338	14,859	33,216	63,945

To convert psi to bar, divide by 14.5  
 To convert lb.ft to Nm, multiple by 1.356

**BOLTITE TU SERIES**  
**PRESSURE / TORQUE CONVERSION CHART**

Pump Pressure (psi)	TU-2 Torque (lb.ft)	TU-3 Torque (lb.ft)	TU-7 Torque (lb.ft)	TU-11 Torque (lb.ft)	TU-27 Torque (lb.ft)	TU-60 Torque (lb.ft)
1,000	127	330	740	1,090	2,720	5,943
1,200	152	395	888	1,308	3,264	7,132
1,400	178	460	1,036	1,526	3,808	8,320
1,600	203	525	1,185	1,745	4,352	9,509
1,800	229	590	1,332	1,962	4,896	10,697
2,000	255	655	1,470	2,210	5,440	11,662
2,200	279	722	1,617	2,430	5,984	12,828
2,400	305	789	1,765	2,652	6,528	13,994
2,600	330	856	1,911	2,873	7,072	15,161
2,800	356	923	2,058	3,095	7,616	16,327
3,000	380	990	2,210	3,340	8,160	17,387
3,200	406	1,058	2,358	3,560	8,704	18,546
3,400	432	1,126	2,505	3,785	9,248	19,705
3,600	457	1,194	2,652	4,005	9,792	20,864
3,800	483	1,262	2,800	4,230	10,336	22,024
4,000	510	1,330	2,960	4,400	10,880	23,286
4,200	533	1,397	3,108	4,620	11,424	24,450
4,400	559	1,464	3,256	4,840	11,968	25,615
4,600	584	1,531	3,405	5,060	12,512	26,779
4,800	609	1,598	3,552	5,280	13,056	27,943
5,000	635	1,665	3,716	5,500	13,600	29,322
5,200	660	1,732	3,865	5,720	14,144	30,495
5,400	686	1,799	4,013	5,940	14,688	31,668
5,600	711	1,856	4,162	6,160	15,232	32,841
5,800	737	1,933	4,311	6,380	15,776	34,014
6,000	760	2,000	4,440	6,620	16,320	34,696
6,200	787	2,065	4,588	6,838	16,864	36,135
6,400	813	2,130	4,736	7,060	17,408	37,300
6,600	838	2,195	4,884	7,280	17,952	38,466
6,800	864	2,260	5,032	7,500	18,496	39,632
7,000	890	2,325	5,180	7,710	19,040	40,914
7,200	914	2,398	5,328	7,927	19,584	42,083
7,400	940	2,461	5,476	8,147	20,128	43,252
7,600	965	2,529	5,625	8,368	20,672	44,421
7,800	991	2,597	5,772	8,588	21,216	45,590
8,000	1,015	2,665	5,920	8,820	21,760	46,859
8,200	1,041	2,731	6,068	9,045	22,304	48,030
8,400	1,067	2,797	6,216	9,265	22,848	49,202
8,600	1,092	2,863	6,365	9,485	23,392	50,373
8,800	1,118	2,929	6,512	9,705	23,936	51,545
9,000	1,145	2,995	6,660	9,930	24,480	52,799
9,200	1,168	3,062	6,808	10,148	25,024	53,972
9,400	1,194	3,129	6,956	10,368	25,568	55,146
9,600	1,219	3,196	7,105	10,588	26,112	56,319
9,800	1,245	3,263	7,252	10,810	26,656	57,492
10,000	1,270	3,330	7,400	11,010	27,200	59,401

To convert psi to bar, divide by 14.5  
 To convert lb.ft to Nm, multiple by 1.356

**BOLTITE TU SERIES**  
**PRESSURE / TORQUE CONVERSION CHART**

Pump Pressure (bar)	TU-2 Torque (Nm)	TU-3 Torque (Nm)	TU-7 Torque (Nm)	TU-11 Torque (Nm)	TU-27 Torque (Nm)	TU-60 Torque (Nm)
68	172	447	1,003	1,478	3,687	8,056
82	206	535	1,204	1,773	4,425	9,668
95	241	624	1,404	2,069	5,162	11,279
109	275	712	1,606	2,366	5,900	12,890
122	310	800	1,806	2,660	6,637	14,501
136	346	888	1,993	2,996	7,374	15,809
150	378	979	2,192	3,294	8,112	17,390
163	413	1,070	2,393	3,595	8,849	18,971
177	447	1,160	2,591	3,895	9,587	20,552
190	483	1,251	2,790	4,196	10,324	22,133
204	515	1,342	2,996	4,528	11,062	23,570
218	550	1,434	4,826	4,826	11,799	25,141
231	586	1,526	3,395	5,131	12,537	26,712
245	620	1,619	3,595	5,429	13,274	28,284
258	655	1,711	3,796	5,734	14,011	29,855
272	691	1,803	4,013	5,965	14,749	31,567
286	723	1,894	4,213	6,263	15,486	33,145
299	758	1,985	4,414	6,561	16,224	34,723
313	792	2,075	4,616	6,859	16,961	36,301
326	826	2,166	4,815	7,158	17,699	37,880
340	861	2,257	5,037	7,456	18,436	39,749
354	895	2,348	5,239	7,754	19,174	41,339
367	930	2,439	5,440	8,052	19,911	42,929
381	964	2,516	5,642	8,350	20,648	44,519
394	999	2,620	5,843	8,649	21,386	46,109
408	1,030	2,711	6,019	8,974	22,123	47,404
422	1,067	2,799	6,219	9,270	22,861	48,984
435	1,102	2,887	6,420	9,571	23,598	50,564
449	1,136	2,976	6,621	9,869	24,336	52,144
462	1,171	3,064	6,821	10,167	25,073	53,725
476	1,206	3,152	7,022	10,452	25,811	55,463
490	1,239	3,251	7,223	10,746	26,548	57,048
503	1,274	3,336	7,423	11,044	27,286	58,632
517	1,308	3,428	7,625	11,344	28,023	60,217
530	1,343	3,520	7,825	11,642	28,760	61,802
544	1,376	3,613	8,025	11,956	29,498	63,522
558	1,411	3,702	8,226	12,261	30,235	65,110
571	1,446	3,792	8,426	12,560	30,973	66,698
585	1,480	3,881	8,628	12,858	31,710	68,286
598	1,516	3,971	8,828	13,156	32,448	69,874
612	1,552	4,060	9,028	13,461	33,185	71,574
626	1,583	4,151	9,229	13,757	33,923	73,165
639	1,619	4,242	9,430	14,055	34,660	74,755
653	1,652	4,332	9,632	14,353	35,397	76,346
666	1,688	4,423	9,831	14,654	36,135	77,936
680	1,722	4,514	10,031	14,925	36,872	80,524

To convert psi to bar, divide by 14.5  
 To convert lb.ft to Nm, multiple by 1.356

# PETRACARBON PTE LTD

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## BOLTITE TX SERIES PRESSURE / TORQUE CONVERSION CHART

HEX size (inches) HEX size (mm)	TX-2		TX-4	TX-8	TX-16		TX-32	
	3/4" to 1-13/16"	1-7/8" to 2-3/8"	all HEX sizes	all HEX sizes	2-5/8" to 3-15/16"	4" to 4-5/8"	2-7/16" to 4-5/8"	4-11/16" to 6-1/2"
	19 to 46mm	47 to 60mm	all HEX sizes	all HEX sizes	65 to 100mm	105 to 115mm	80 to 115mm	115 to 155mm
Pump Pressure (psi)	Torque (lbf.ft)	Torque (lbf.ft)	Torque (lbf.ft)	Torque (lbf.ft)	Torque (lbf.ft)	Torque (lbf.ft)	Torque (lbf.ft)	Torque (lbf.ft)
1,000	192	210	395	830	1,560	1,660		3,700
1,200	230	252	475	1,001	1,870	1,992		4,440
1,400	269	294	555	1,173	2,180	2,324		5,180
1,600	307	336	630	1,344	2,495	2,656		5,920
1,800	346	378	710	1,516	2,805	2,988		6,660
2,000	385	420	790	1,688	3,120	3,320		7,400
2,200	422	462	870	1,865	3,430	3,652		8,140
2,400	461	504	950	2,042	3,740	3,984		8,880
2,600	500	546	1,025	2,219	4,050	4,316		9,620
2,800	537	588	1,105	2,396	4,365	4,648		10,360
3,000	578	640	1,185	2,574	4,675	4,980		11,100
3,200	614	681	1,265	2,775	4,990	5,360		11,840
3,400	653	724	1,345	2,976	5,300	5,644		12,580
3,600	691	766	1,420	3,177	5,610	5,976		13,320
3,800	730	809	1,500	3,378	5,925	6,308		14,060
4,000	771	855	1,580	3,580	6,235	6,650		14,800
4,200	806	894	1,660	3,735	6,550	6,983		15,540
4,400	845	937	1,740	3,891	6,860	7,315		16,280
4,600	883	980	1,815	4,046	7,170	7,648		17,020
4,800	922	1,022	1,895	4,202	7,485	7,980		17,760
5,000	964	1,070	1,975	4,358	7,795	8,360		18,500
5,200	998	1,112	2,055	4,538	8,105	8,694		19,240
5,400	1,037	1,155	2,135	4,718	8,420	9,029		19,980
5,600	1,075	1,198	2,210	4,898	8,730	9,363		20,720
5,800	1,114	1,241	2,290	5,078	9,045	9,698		21,460
6,000	1,156	1,285	2,370	5,258	9,355	10,100		22,200
6,200	1,190	1,327	2,450	5,410	9,665	10,437		22,940
6,400	1,229	1,370	2,530	5,562	9,975	10,773		23,680
6,600	1,267	1,412	2,605	5,715	10,290	11,110		24,420
6,800	1,305	1,455	2,685	5,867	10,600	11,447		25,160
7,000	1,349	1,500	2,765	6,020	10,915	11,720		25,900
7,200	1,382	1,541	2,845	6,186	11,225	12,055		26,640
7,400	1,421	1,583	2,925	6,352	11,535	12,390		27,380
7,600	1,460	1,626	3,000	6,519	11,850	12,725		28,120
7,800	1,497	1,669	3,080	6,685	12,160	13,005		28,860
8,000	1,542	1,715	3,160	6,852	12,475	13,510		29,600
8,200	1,574	1,755	3,240	7,023	12,785	13,848		30,340
8,400	1,613	1,798	3,320	7,195	13,095	14,186		31,080
8,600	1,651	1,840	3,395	7,366	13,405	14,523		31,820
8,800	1,690	1,883	3,475	7,538	13,720	14,861		32,560
9,000	1,735	1,929	3,555	7,710	14,030	15,020		33,300
9,200	1,766	1,969	3,635	7,894	14,345	15,354		34,040
9,400	1,805	2,011	3,710	8,078	14,655	15,688		34,780
9,600	1,843	2,054	3,790	8,262	14,965	16,021		35,520
9,800	1,882	2,097	3,870	8,446	15,280	16,355		36,260
10,000	1,928	2,145	3,950	8,630	15,595	16,600		37,000

To convert psi to bar, divide by 14.5  
 To convert lb.ft to Nm, multiple by 1.356

**BOLTITE TX SERIES  
 PRESSURE / TORQUE CONVERSION CHART**

HEX size (inches) HEX size (mm)	TX-2		TX-4	TX-8	TX-16		TX-32	
	3/4" to 1-13/16" 19 to 46mm	1-7/8" to 2-3/8" 47 to 60mm	all HEX sizes all HEX sizes	all HEX sizes all HEX sizes	2-5/8" to 3-15/16" 65 to 100mm	4" to 4-5/8" 105 to 115mm	2-7/16" to 4-5/8" 80 to 115mm	4-11/16" to 6-1/2" 115 to 155mm
Pump Pressure (bar)	Torque (Nm)	Torque (Nm)	Torque (Nm)	Torque (Nm)	Torque (Nm)	Torque (Nm)	Torque (Nm)	Torque (Nm)
68	260	285	535	1,125	2,115	2,250		5,016
82	312	342	644	1,357	2,535	2,700		6,019
95	365	399	752	1,590	2,955	3,150		7,022
109	416	455	854	1,822	3,382	3,600		8,025
122	469	512	962	2,055	3,802	4,051		9,028
136	522	569	1,071	2,288	4,229	4,501		10,031
150	572	626	1,179	2,528	4,650	4,951		11,035
163	625	683	1,288	2,768	5,070	5,401		12,038
177	678	740	1,389	3,008	5,490	5,851		13,041
190	728	797	1,498	3,248	5,917	6,301		14,044
204	784	868	1,606	3,489	6,337	6,751		15,047
218	832	923	1,715	3,762	6,764	7,226		16,050
231	885	981	1,823	4,034	7,185	7,651		17,053
245	937	1,038	1,925	4,307	7,605	8,101		18,057
258	990	1,097	2,033	4,579	8,032	8,551		19,060
272	1,045	1,159	2,142	4,853	8,452	9,015		20,063
286	1,093	1,212	2,250	5,063	8,879	9,466		21,066
299	1,145	1,270	2,359	5,275	9,299	9,916		22,069
313	1,197	1,328	2,460	5,485	9,720	10,368		23,072
326	1,250	1,385	2,569	5,696	10,147	10,818		24,075
340	1,307	1,450	2,677	5,908	10,567	11,333		25,079
354	1,353	1,507	2,786	6,152	10,987	11,786		26,082
367	1,406	1,566	2,894	6,396	11,414	12,240		27,085
381	1,457	1,624	2,996	6,640	11,938	12,692		28,088
394	1,510	1,682	3,104	6,884	12,261	13,147		29,091
408	1,567	1,742	3,213	7,128	12,682	13,692		30,094
422	1,613	1,799	3,321	7,334	13,102	14,148		31,097
435	1,666	1,857	3,430	7,540	13,522	14,604		32,101
449	1,718	1,914	3,531	7,747	13,949	15,061		33,104
462	1,769	1,972	3,640	7,953	14,369	15,518		34,107
476	1,829	2,033	3,748	8,161	14,796	15,888		35,110
490	1,873	2,089	3,857	8,386	15,217	16,342		36,113
503	1,926	2,146	3,965	8,611	15,637	16,796		37,116
517	1,979	2,204	4,067	8,837	16,064	17,250		38,119
530	2,029	2,262	4,175	9,062	16,484	17,630		39,123
544	2,090	2,325	4,284	9,289	16,911	18,314		40,126
558	2,134	2,379	4,392	9,520	17,331	18,772		41,129
571	2,187	2,437	4,501	9,754	17,752	19,231		42,132
585	2,238	2,494	4,602	9,985	18,172	19,687		43,135
598	291	2,553	4,711	10,219	18,599	20,146		44,138
612	2,352	2,615	4,819	10,452	19,019	20,361		45,141
626	2,394	2,669	4,928	10,701	19,446	20,814		46,145
639	2,447	2,726	5,029	10,951	19,866	21,267		47,148
653	2,498	2,784	5,138	11,200	20,287	21,718		48,151
666	2,551	2,843	5,246	11,449	20,714	22,171		49,154
680	2,614	2,908	5,355	11,699	21,141	22,503		50,157

To convert psi to bar, divide by 14.5  
 To convert lb.ft to Nm, multiple by 1.356