

# TRT™ - RAPID-TORC TENSIONERS & LOAD FOR B7 or L7 STUDS) AT 50% YIELD

API 6A & 17D Weld Neck Flanges - Taper-Lock Weld Neck Flanges -

Stud Diameter		A.F.	A.F.	Load	Load	TENSIONERS RAPID-TORC	Hydraulic Area		Max. Piston Stroke		Weight		Height		O.D.	
in	mm	in	mm	KN	lbf	Bolt Stress - 52.5 ksi or 360 Mpa	in <sup>2</sup>	mm <sup>2</sup>	in	mm	lbs	kg	in	mm	in	mm
Specification for Wellhead and Christmas Tree Equipment						Stud Yield Point 105 ksi or 720 Mpa										
Source: Api 6-A, 19th Edition Appendix D, Table D1 & D2						Stud Quality B7 - L7										
ANSI - API 6A - ISO 10423:2003 (Modified) Feb 1st, 2005						Recommended TRT Tensioner™										
1"		1 5/8"		141	31802	TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
	M27		41mm			TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
1 1/8"		1 13/16"		184	41499	TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
	M30		46mm			TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
1 1/4"		2"		232	52484	TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
	M33		50mm			TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
1 3/8"		2 3/16"		286	64759	TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
	M36		55mm			TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
1 1/2"		2 3/8"		346	78322	TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
	M39		60mm			TRT2 - 456 Kn - 102.660 lbs	4.72	3045	0.59	15	12.8	5.8	6.34	168	4.23	107
1 5/8"		2 9/16"		412	93173	TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
	M42		65mm			TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
1 3/4"		2 3/4"		484	109313	TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
	M45		70mm			TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
1 7/8"		2 15/16"		561	126741	TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
	M48		75mm			TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
2"		3 1/8"		644	145458	TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
	M52		80mm			TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
	M56		85mm			TRT4 - 1002 Kn - 225.330 lbs	10.36	6684	0.59	15	21,4	9.7	7.65	179	5.74	146
2 1/4"		3 1/2"		826	186758	TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
	M60		90mm			TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
2 1/2"		3 7/8"		1.032	233212	TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
	M64		95mm			TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
2 5/8"		4 1/16"		1.040	233765	TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
	M68		100mm			TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
2 3/4"		4 1/4"		1.146	257694	TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187
	M72		105mm			TRT6 - 1515 Kn - 340.605 lbs	15.66	10100	0.59	15	34,7	15.7	7.85	199	7.23	187

## TRT™ - RAPID-TORC TENSIONERS & LOAD FOR B7 or L7 STUDS) AT 50% YIELD

Stud Diameter		A.F.	A.F.	Load	Load	TENSIONERS RAPID-TORC	Hydraulic Area		Max. Piston Stroke		Weight		Height		O.D.	
in	mm	in	mm	KN	lbf	Bolt Stress - 52.5 ksi or 360 Mpa	in <sup>2</sup>	mm <sup>2</sup>	in	mm	lbs	kg	in	mm	in	mm
Specification for Wellhead and Christmas Tree Equipment						Stud Yield Point 105 ksi or 720 Mpa										
Source: Api 6-A, 19th Edition Appendix D, Table D1 & D2						Stud Quality B7 - L7										
ANSI - API 6A - ISO 10423:2003 (Modified) Feb 1st, 2005						Recommended TRT Tensioner™										
3"		4 5/8"		1.375	309050	TRT8 - 2466 Kn	25,50	16445	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
3 1/4"		5"		1.624	365070	TRT8 - 2466 Kn	25,50	16445	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
	M85		135mm			TRT8 - 2466 Kn	25,50	16445	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
3 1/2"		5 3/8"		1.899	426891	TRT8 - 2466 Kn	25,50	16445	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
	M90		140mm			TRT8 - 2466 Kn	25,50	16445	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
	M95		145mm			TRT9 - 3297 Kn	34,10	21991	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
3 3/4"		5 3/4"		2.185	491099	TRT9 - 3297 Kn	34,10	21991	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
3 7/8"		5 15/16"		2.338	525521	TRT9 - 3297 Kn	34,10	21991	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
	M100		155mm			TRT9 - 3297 Kn	34,10	21991	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a
4"		6 1/8"		2.496	561108	TRT9 - 3297 Kn	34,10	21991	0.59	15	n/a	n/a	n/a	n/a	n/a	n/a

Version 1.2-2 Rapid-Torc January 12th, 2008

Copyright January 2008, Rapid-Torc, Inc.

# TRT™ - RAPID-TORC TENSIONERS

## API 6A & 17D WELD NECK FLANGES

Nominal Bore	API CLASS					
	2000 psi	3000 psi	5000 psi	10000 psi	15000 psi	20000 psi
1 13/16"				8 x 3/4" @ TRT-2	8 x 7/8" @ TRT2	8 x 1" @ TRT2
2 1/6"		8 x 7/8" @ TRT2	8 x 7/8" @ TRT2	8 x 3/4" @ TRT-2	8 x 7/8" @ TRT2	8 x 1 1/8" @ TRT2
2 9/16"	8 x 3/4" @ TRT2	8 x 1" @ TRT2	8 x 1" @ TRT2	8 x 7/8" @ TRT2	8 x 1" @ TRT2	8 x 1 1/4" @ TRT2
3 1/16"				8 x 1" @ TRT2	8 x 1 1/8" @ TRT2	8 x 1 3/8" @ TRT2
3 1/8"	8 x 3/4" @ TRT2	8 x 7/8" @ TRT2	8 x 1 1/8" @ TRT2			
4 1/16"	8 x 7/8" @ TRT2	8 x 1 1/8" @ TRT2	8 x 1 1/4" @ TRT2	8 x 1 1/8" @ TRT2	8 x 1 3/8" @ TRT2	8 x 1 3/4" @ TRT4
5 1/8"	8 x 1" @ TRT2	8 x 1 1/4" @ TRT2	8 x 1 1/2" @ TRT2	12 x 1 1/8" @ TRT2		
7 1/16"	12 x 1" @ TRT2	12 x 1 1/8" @ TRT2	12 x 1 3/8" @ TRT2	12 x 1 1/2" @ TRT2	16 x 1 1/2" @ TRT2	16 x 2" @ TRT4
9"	12 x 1 1/8" @ TRT2	12 x 1 3/8" @ TRT2	12 x 1 5/8" @ TRT4	16 x 1 1/2" @ TRT2	16 x 1 7/8" @ TRT4	16 x 2 1/2" @ TRT6
11"	16 x 1 1/4" @ TRT2	16 x 1 3/8" @ TRT2	12 x 1 7/8" @ TRT4	16 x 1 3/4" @ TRT4	20 x 2" @ TRT4	
13 5/8"	20 x 1 1/4" @ TRT2	20 x 1 3/8" @ TRT2	16 x 1 5/8" @ TRT4	20 x 1 7/8" @ TRT4	20 x 2 1/4" @ TRT6	20 x 3 1/2 @ TRT8
16 3/4"	20 x 1 1/2" @ TRT2	20 x 1 5/8" @ TRT4		24 x 1 7/8" @ TRT4		
18 3/4"			20 x 2" @ TRT4	24 x 2 1/4" @ TRT6	20 x 3 1/2" @ TRT8	
21 3/4"	24 x 1 5/8" @ TRT4		24 x 2" @ TRT4	24 x 2 1/2" @ TRT6		
26 3/4"	16 x 1 3/4" @ TRT4	24 x 2" @ TRT4				
30"	32 x 1 5/8" @ TRT4	32 x 1 7/8" @ TRT4				