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Topside Bolt Tensioning Series: THT Range



Incorporating Torcup Bolt Load Software



“The THT range of bolt tensioning tools are some of the most compact and reliable tensioners available today.”

Seal Reliability

Seal reliability is a fundamental requirement. All tensioners have polyurethane self-energizing lip seals requiring no adjustment. The seals ‘snap fit’ into the piston housing, remain firm and will not dislodge to cause failure after prolonged use. As the seals are machined and not molded, size is not restricted, allowing no compromise in tensioner design. The Torcup seal exhibits a much lower coefficient of friction than nitrile seals used in many other hydraulic bolt tensioners. This benefit, in conjunction with a special anti-extrusion device, allows the tool piston/ram to be returned to its closed position with minimal effort.

Link Hose System

One of the many advantages of hydraulic bolt tensioning is the ability to link a number of tensioners together and load simultaneously all the bolts on a joint. Although this gives excellent load distribution, an enormous variety of flexible hose assemblies are necessary - which confuse the user. To overcome this problem Torcup offer a single assembly called a ‘Link hose’. This length of flexible high pressure hose, fitted with male and female quick connect couplings at opposite ends is fast and an economical method of connecting multiple tensioners together - the number of hoses required is the same as the number of tools to be linked - a simple formula to remember.

Bolt Load Software
Takes the complexity out of tensioner and torque calculations.

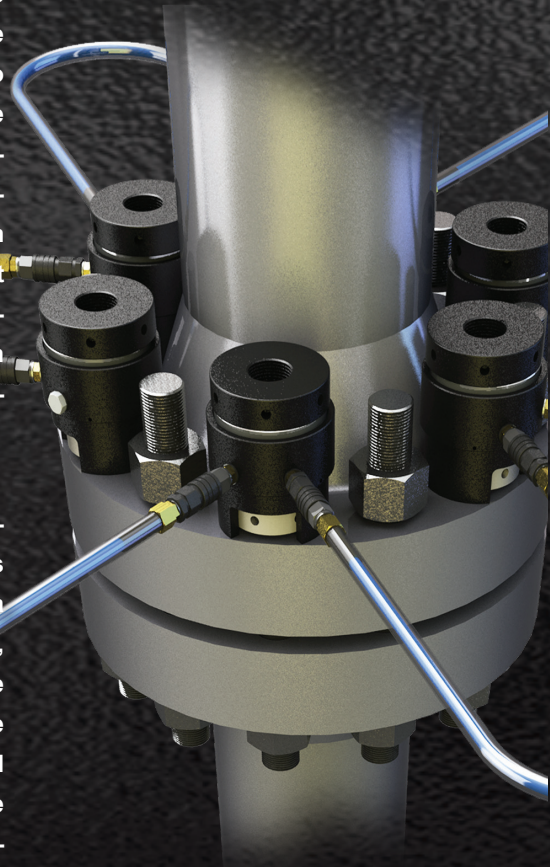
Features & Benefits

- High quality polyurethane seals for reliable, leak free operation
- Powerful bolt load capacity
- 15mm Ram Stroke
- Only 6 Base tools to cover bolt sizes 3/4” to 4”
- Supplied with Nut Rotating Sockets, no need for drilled nuts.
- Over stroke pressure safety device
- Manufactured from high strength steel for long life.
- Easy Hose assembly with Torcup Link Hose System

Suitable for use on most standard flanges

- ANSI B16.5
- ANSI B16.47
- MSS-SP44
- API-6A
- API-17D

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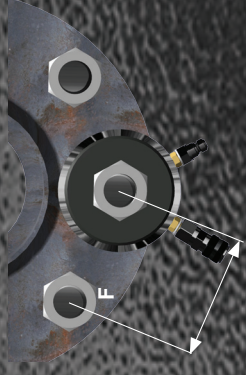
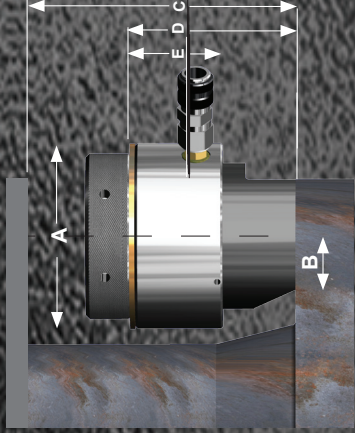


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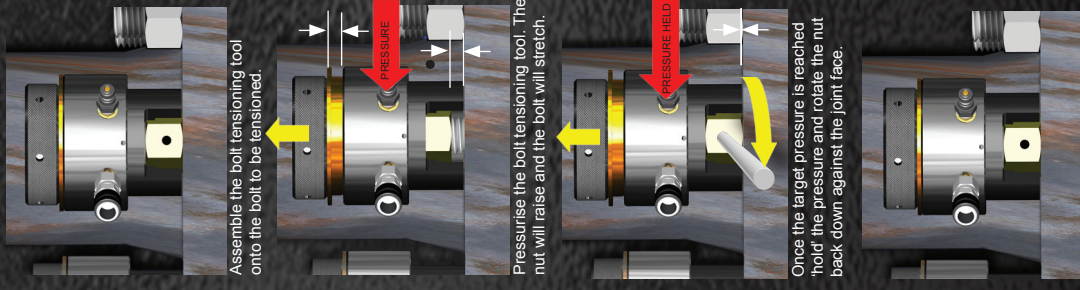
User Safety

When using hydraulic bolt tensioners, it is important that the maximum movement of the piston/ram is not exceeded. In the unfortunate situation when stroke is exceeded, a simple failure mechanism inside most TorcUP tensioners directs any escaping fluid away from the operator and deposits it inside the device. A red warning indicator line becomes visible as the maximum piston extension position is reached.



Simplified Principle

Note: for clarity the pressure hose is not shown on the following diagrams.



Technical Specifications

Tool Ident	Part No		Bolt Size		Part No		Bolt Load		Ram Area		Stroke		Weight		A	B	C	D	E	F
	Imperial	Metric	Inch	mm	Metric	Metric	Kn	Ton	In ²	mm ²	mm	kg	mm							
1			0.75	20	THT-1CT-20M										74	21	1/0	71	45	64
			0.875	22	THT-1CT-22M										74	24	1/0	71	45	64
			1	24	THT-1CT-24M	227.75		22.86	2.354	1518.76	10	3			74	24	1/5	71	45	64
			1.125	27	THT-1CT-27M										74	24	1/0	71	45	64
2			1.125	27	THT-2CT-27M										102	27	1/0	92	54	82
				30	THT-2CT-30M										102	32	1/0	93	54	85
			1.25	33	THT-2CT-33M	442.94		44.45	4.578	2953.69	15	5			102	31	1/0	95	54	85
			1.375	36	THT-2CT-36M										102	34	1/0	98	54	91
3			1.5	39	THT-2CT-39M										102	37	1/0	100	54	102
			1.5	39	THT-3CT-39M										133	37	1/5	109	56	97
			1.625	42	THT-3CT-42M										133	38	1/5	107	56	110
			1.75	45	THT-3CT-45M	810.64		81.36	8.379	5405.70	15	9			133	41	1/5	116	56	115
			1.875	48	THT-3CT-48M										133	43	2/5	116	56	116
			2	52	THT-3CT-52M										133	50	2/0	117	56	120
4			1.875	48	THT-4CT-48M										163	44	2/5	118	57	130
			2	52	THT-4CT-52M										163	46	2/5	117	57	124
			2.25	56	THT-4CT-56M	1273.16		127.78	13.159	8489.96	15	15			163	55	2/5	123	57	134
				60	THT-4CT-60M										163	54	2/5	146	57	150
5			2.5	64	THT-4CT-64M										163	58	2/5	130	57	147
			2.5	64	THT-5CT-64M										193	64	2/5	133	60	147
				68	THT-5CT-68M	1828.99		183.56	18.905	12196.45	15	25			193	80	2/5	141	60	160
			2.75	72	THT-5CT-72M										193	72	2/5	147	60	161
6			3	76	THT-5CT-76M										193	77	2/5	146	60	170
			3	76	THT-6CT-76M										233	77	2/0	153	64	170
				80	THT-6CT-80M										233	78	2/0	154	64	178
			3.25	85	THT-6CT-85M	2643.43		265.30	27.323	17627.48	15	44			233	78	2/2	154	64	182
			3.5	90	THT-6CT-90M										233	86	2/0	160	64	191
			3.75	95	THT-6CT-95M										233	99	3/0	168	64	210
		4	100	THT-6CT-100M										233	105	3/0	174	64	220	

Maximum working pressure = 21750 psi / 1500 bar
If the standard tensioner is not suitable, TorcUP offer special tensioner designs on request.