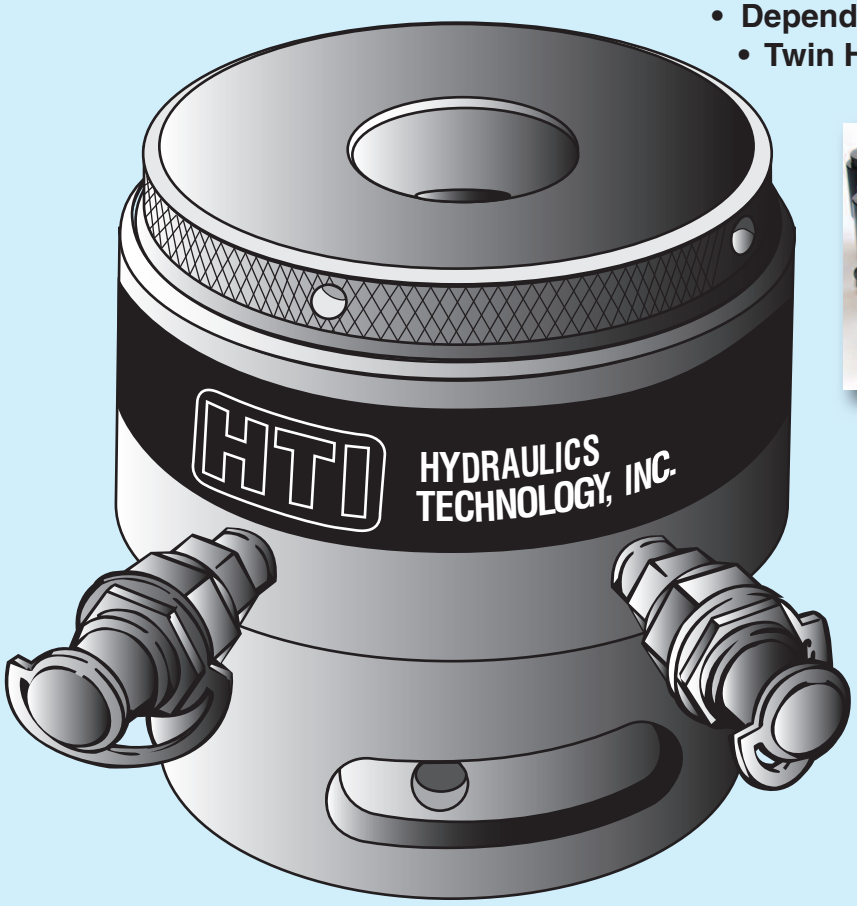
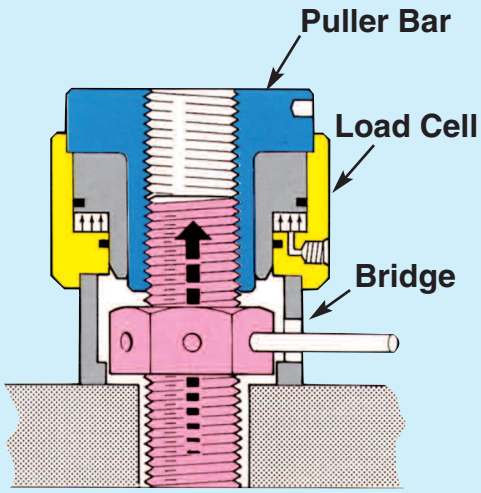
Hydraulic Stud Tensioning Systems

Variable Model Stud Tensioner

- Trouble-free, No-Leak, Lo-Friction Seals.
- Overstroke Indicator.
- Extra-Long Working Stroke.
- Compact and Lightweight Design.
- Simple to Operate and Maintain.
- Total Quality Assurance.
- Dependable Operation.
- Twin Hydraulic Ports.

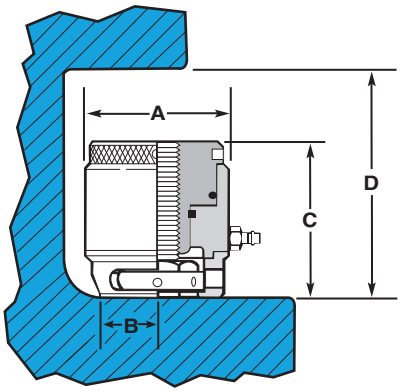


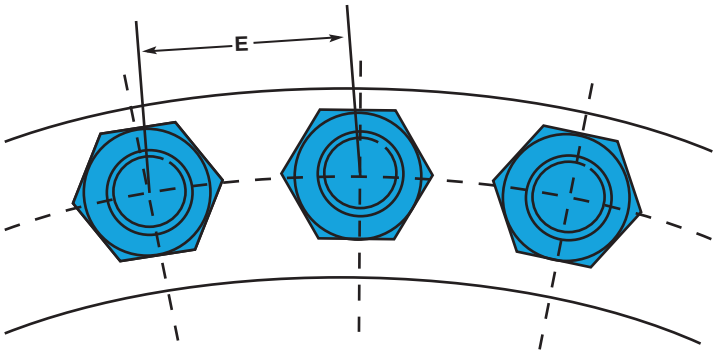


Versatile, Easy and Accurate!

Variable models allow the tensioning of several thread sizes or types of threads using one hydraulic Load Cell. The operator places the Bridge and Load Cell over the nut and threads the Puller Bar onto the stud. He then connects the hoses, applies a predetermined pressure from the pump, and runs the nut down by hand using a nut adjustment bar.

Variable Model Stud Tensioner Specifications





- **A minimum of one thread diameter of thread engagement is recommended.**
- **Stud Load is directly proportional to the hydraulic pressure applied.**
- **A Nut Rotating Socket can be provided or the Nuts can be drilled.**

Inch Tool Model	*Metric Tool Model*	*Thread Size*		*Force*		*Hydraulic Area*		*Weight*		-- A - *Tool Diameter*		- B - *Bridge Chamfer*		- C - *Overall Height*		- D - *Installation Height*		- E - *Min. Stud Pitch*	
		Inch	*Metric*	lbf	*kN*	in²	*cm²*	lb	*kg*	in	*mm*	in	*mm*	in	*mm*	in	*mm*	in	*mm*
V2A075	*V2AM18*	3/4	*18*	57,650	*256*	2.65	*17.1*	5.7	*2.6*	3.65	*93*	1.00	*25*	2.9	*75*	4.0	*101*	2.20	*56*
----------	*V2AM20*	--------	*20*	57,650	*256*	2.65	*17.1*	5.7	*2.6*	3.65	*93*	1.03	*26*	3.0	*75*	4.0	*102*	2.22	*56*
V2A088	*V2AM22*	7/8	*22*	57,650	*256*	2.65	*17.1*	5.7	*2.6*	3.65	*93*	1.03	*26*	3.1	*78*	4.1	*105*	2.26	*57*
V2A100	*V2AM24*	1	*24*	57,650	*256*	2.65	*17.1*	5.5	*2.5*	3.65	*93*	1.13	*29*	3.2	*81*	4.2	*108*	2.33	*59*
V2A112	*V2AM27*	1-1/8	*27*	57,650	*256*	2.65	*17.1*	5.3	*2.4*	3.65	*93*	1.25	*32*	3.3	*84*	4.4	*111*	2.47	*63*
----------	*V2BM30*	--------	*30*	102,500	*456*	4.71	*30.4*	8.8	*4.0*	4.10	*104*	1.41	*36*	3.7	*93*	4.8	*121*	2.89	*73*
V2B125	*V2BM33*	1-1/4	*33*	102,500	*456*	4.71	*30.4*	8.8	*4.0*	4.10	*104*	1.41	*36*	3.7	*94*	4.9	*124*	2.99	*76*
V2B138	*V2BM36*	1-3/8	*36*	102,500	*456*	4.71	*30.4*	9.0	*4.1*	4.10	*104*	1.47	*37*	3.8	*98*	5.2	*132*	3.10	*79*
V2B150	*V2BM39*	1-1/2	*39*	102,500	*456*	4.71	*30.4*	8.4	*3.8*	4.10	*104*	1.59	*40*	4.0	*101*	5.5	*140*	3.21	*82*
V2C150	*V2CM39*	1-1/2	*39*	185,000	*823*	8.50	*54.9*	19	*8.8*	5.43	*138*	1.70	*43*	4.7	*120*	6.3	*159*	3.47	*88*
V2C162	*V2CM42*	1-5/8	*42*	185,000	*823*	8.50	*54.9*	19	*8.6*	5.43	*138*	1.70	*43*	4.7	*120*	6.3	*159*	3.53	*90*
V2C175	*V2CM45*	1-3/4	*45*	185,000	*823*	8.50	*54.9*	19	*8.5*	5.43	*138*	1.80	*46*	4.9	*123*	6.5	*166*	3.78	*96*
V2C188	*V2CM48*	1-7/8	*48*	185,000	*823*	8.50	*54.9*	19	*8.4*	5.43	*138*	2.00	*51*	5.2	*131*	7.1	*181*	3.91	*99*
V2C200	*V2CM52*	2	*52*	185,000	*823*	8.50	*54.9*	19	*8.5*	5.43	*138*	2.00	*51*	5.2	*131*	7.1	*181*	4.01	*102*
V2D188	*V2DM48*	1-7/8	*48*	291,500	*1,297*	13.4	*86.5*	34	*15*	6.65	*169*	2.00	*51*	5.4	*138*	7.2	*182*	4.26	*108*
V2D200	*V2DM52*	2	*52*	291,500	*1,297*	13.4	*86.5*	34	*15*	6.65	*169*	2.00	*51*	5.4	*138*	7.3	*185*	4.33	*110*
V2D225	*V2DM56*	2-1/4	*56*	291,500	*1,297*	13.4	*86.5*	33	*15*	6.65	*169*	2.25	*57*	5.6	*143*	7.8	*198*	4.65	*118*
----------	*V2DM60*	--------	*60*	291,500	*1,297*	13.4	*86.5*	31	*14*	6.65	*169*	2.49	*63*	5.9	*149*	8.1	*207*	4.68	*119*
V2D250	*V2DM64*	2-1/2	*64*	291,500	*1,297*	13.4	*86.5*	31	*14*	6.65	*169*	2.49	*63*	5.9	*149*	8.2	*208*	4.93	*125*
V2E250	*V2EM64*	2-1/2	*64*	392,900	*1,748*	18.1	*117*	47	*21*	7.80	*198*	2.49	*63*	6.3	*160*	9.0	*227*	5.15	*131*
V2E275	*V2EM72*	2-3/4	*72*	392,900	*1,748*	18.1	*117*	47	*21*	7.80	*198*	2.72	*69*	6.5	*166*	9.2	*234*	5.55	*141*
V2E300	*V2EM76*	3	*76*	392,900	*1,748*	18.1	*117*	47	*21*	7.80	*198*	2.91	*74*	6.8	*173*	9.7	*246*	5.96	*151*
V2F325	*V2FM85*	3-1/4	*85*	619,200	*2,754*	28.5	*184*	90	*41*	9.83	*250*	3.16	*80*	7.9	*199*	12	*297*	6.54	*166*
V2F350	*V2FM90*	3-1/2	*90*	619,200	*2,754*	28.5	*184*	89	*41*	9.83	*250*	3.38	*86*	8.1	*206*	12	*304*	6.85	*174*
V2F375	*V2FM95*	3-3/4	*95*	619,200	*2,754*	28.5	*184*	91	*41*	9.83	*250*	3.66	*93*	8.4	*212*	12	*310*	7.49	*190*
V2F400	*V2FM100*	4	*100*	619,200	*2,754*	28.5	*184*	88	*40*	9.83	*250*	3.78	*96*	8.6	*218*	12	*316*	7.71	*196*

Maximum Pressure: 21,750 psi (1,500 Bar)

Stroke: Models V2A: 0.39” (10 mm) • Model V2B: 0.47” (12 mm) • Model V2C through V2F: 0.59” (15 mm)

Notes:

1. These specifications are for our standard sizes. Custom designs are our specialty and are readily available.
2. Each major component has a serial number that provides both material and heat treatment traceability.
3. Product development is continually taking place and changes to these specifications may occur at any time.

HTI

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