

# bolt tensioner.



## MRT BOLT TENSIONER Manual Return Bolt Tensioner

- Piston stroke limit indication
- Compatible with **SRT** Tensioner range
- Piston / cylinder misalignment compensation
- Bolt coverage from 1" to 3 1/2" with just 4 tools
- Designed to fit BS1560 / ANSI B16.5 / API flanges
- Unique quick-release bridge adaption



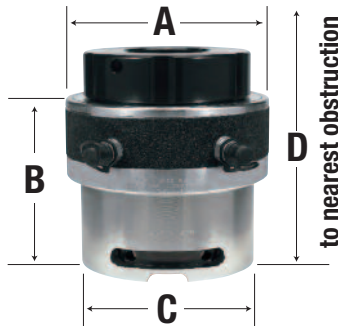
## MANUAL RETURN BOLT TENSIONER

Our economy range of bolt tensioners offer low-cost tensioning solutions.

Incorporating our unique quick-release bridge adaptation, a range of adapter kits provide maximum flexibility.



### Specifications and Dimensional Data



- Piston stroke - 15mm (excluding MRT1 - 10mm)
- Max tool pressure - 21,750 psi (1,500 bar)
- Bolt protrusion above nut = 1 x bolt diameter
- 'D' includes an allowance for tool removal after bolt tightening with 15mm tool stroke
- Weight excludes puller sleeve
- Product development is constantly taking place and dimensions may change without notice

Load Cell (Tool Ref)	Bolt Dia				Tool Load		Hydraulic Area		'A'		'B'		'C'		'D'		Approx Wt			
	Imperial	Kit Number	Metric	Kit Number	Ton Short	KN	in <sup>2</sup>	mm <sup>2</sup>	in <sup>2</sup>	mm	in <sup>2</sup>	mm	in <sup>2</sup>	mm	Imp bolts in <sup>2</sup> mm	Met bolts in <sup>2</sup> mm	lbs	kg		
MTRAS010001 (MRT 1)	1"	MRTAS010002	M24	MRTAS010004	31.5	280	2.89	1867	3.35	85	3.76	95.5	2.68	68	6.50	165	6.50	165	6.60	3
	1-1/8"	MRTAS010003	M27	MRTAS010005							3.88	98.5	2.83	72	6.73	171	6.61	168		
MTRAS020001 (MRT 2)	1"	MRTAS020002	M24	MRTAS020006	50.6	450	4.65	3001	4.25	108	4.15	105.5	2.95	75	7.32	186	7.32	186	9.90	4.5
	1-1/8"	MRTAS020003	M30	MRTAS020008							4.27	108.5	3.15	80	7.56	192	7.68	195		
	1-1/4"	MRTAS020004	M33	MRTAS020009							4.39	111.5	3.31	84	7.83	199	7.91	201		
	1-3/8"	MRTAS020005	M36	MRTAS020010							4.51	114.5	3.50	89	8.11	206	8.15	207		
MTRAS030001 (MRT 3)	1-1/4"	MRTAS030002	M33	MRTAS030006	74	660	6.82	4401	4.90	124.5	4.39	111.5	3.46	88	7.87	200	7.95	202	12.98	5.9
	1-3/8"	MRTAS030003	M36	MRTAS030007							4.51	114.5	3.78	96	8.15	207	8.19	208		
	1-1/2"	MRTAS030004	M39	MRTAS030008							4.65	118	3.78	96	8.39	213	8.43	214		
	1-5/8"	MRTAS030005	M42	MRTAS030009							4.76	121	4.13	105	8.62	219	8.70	221		
MTRAS040001 (MRT 4)	1-1/2"	MRTAS040003	M39	MRTAS040008	112	1000	10.34	6668	5.81	147.5	4.65	118	4.41	112	8.54	217	8.58	218	18.70	8.5
	1-5/8"	MRTAS040004	M42	MRTAS040009							4.76	121	4.49	114	8.78	223	8.82	224		
	1-3/4"	MRTAS040005	M45	MRTAS040010							4.90	124.5	4.02	102	9.02	229	9.09	231		
	1-7/8"	MRTAS040006	M48	MRTAS040011							5.02	127.5	4.49	114	9.29	236	9.33	237		
MTRAS050001 (MRT 5)	2"	MRTAS050003	M52	MRTAS050007	168	1500	15.50	10003	7.11	180.5	5.28	134	4.72	120	9.92	252	10.00	254	30.80	14
	2-1/4"	MRTAS050004	M56	MRTAS050008							5.53	140.5	5.43	138	10.47	266	10.43	265		
	2-1/2"	MRTAS050005	M60	MRTAS050009							5.79	147	5.43	138	10.59	269	10.59	269		
	2-3/4"	MRTAS050006	M64	MRTAS050010							5.79	147	6.02	153	10.98	279	11.02	280		
MTRAS060001 (MRT 6)	2-3/4"	MRTAS060003	M72	MRTAS060007	281	2500	25.84	16671	8.94	227	6.10	155	6.18	157	11.93	303	12.05	306	50.60	23
	3"	MRTAS060004	M76	MRTAS060008							6.38	162	7.17	182	12.44	316	12.48	317		
	3-1/4"	MRTAS060005	M80	MRTAS060009							6.61	168	7.48	190	12.64	321	12.64	321		
	3-1/2"	MRTAS060006	M85	MRTAS060010							6.61	168	7.48	190	12.95	329	13.07	332		
			M90	MRTAS060011							6.85	174	8.07	205	13.43	341	13.50	343		