



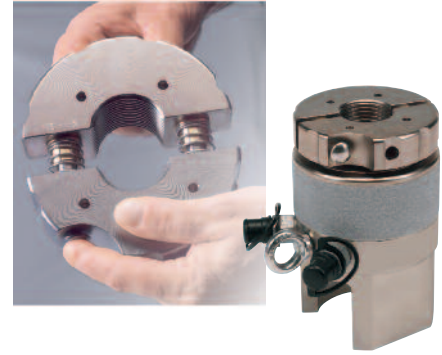
SST BOLT TENSIONER Quick Reaction SubSea Tensioner

- Visible piston stroke indication
- Piston / cylinder misalignment compensation
- Anti-slip cylinder surface for improved handling
- Low friction seals
- Anti-corrosion coating
- Bolt coverage from 3/4" to 3 1/2"
- Designed to fit BS1560 / ANSI B16.5 / API flanges, as well as most compact flange designs

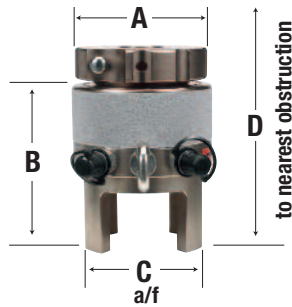


QUICK REACTION SUBSEA BOLT TENSIONER

Our Subsea bolt tensioner incorporating the quick reaction nut feature reduces diver fatigue, improving diver safety and productivity.



Specifications and Dimensional Data



- Piston stroke - 30mm (Except SST1 - 20mm)
- Max tool pressure - 21,750psi (1,500 bar)
- 'D' includes an allowance for tool removal after bolt tightening with 30mm tool stroke
- Product development is constantly taking place and dimensions may change without notice

Tool Ref	Bolt Diameter				Tool Load Ton (Short) KN	Hydraulic Area		'A' in/mm	'B' in/mm	'C' A/F in/mm	Minimum Bolt Protrusion (Above Nut)		'D' in/mm	
	Imperial	Quick Reaction Nut Number	Metric	Quick Reaction Nut Number		in ²	mm ²				in	mm		Imp bolts
SST 1	3/4"	QRNAS010001	M20	QRNAS010004	15.7	140	1.45	934	2.60/66	3.82/97	1.89/48	4.09	107	8.98/228
	7/8"	QRNAS010003	M22	QRNAS010005								3.98	105	
SST 2	1"	QRNAS020001	M24	QRNAS020004	27	240	2.48	1600	3.23/82	5.02/127.5	2.36/60	5.24	139	11.65/296
	1-1/8"	QRNAS020003	M27	QRNAS020005								5.12	136	
				M30								QRNAS020006		
SST 3	1-1/4"	QRNAS030003	M33	QRNAS030005	43	380	3.93	2534	3.82/97	5.39/137	3.03/77	5.35	142	12.17/309
	1-3/8"	QRNAS030004	M36	QRNAS030006								5.24	139	
SST 4	1-1/2"	QRNAS040003	M39	QRNAS040005	62	550	5.69	3668	4.37/111	5.75/146	3.54/90	5.51	147	12.68/322
	1-5/8"	QRNAS040004	M42	QRNAS040006								5.35	144	
SST 5	1-3/4"	QRNAS050001	M45	QRNAS050005	99	880	9.10	5868	5.35/136	6.22/158	4.49/114	5.94	160	13.46/342
	1-7/8"	QRNAS050003	M48	QRNAS050006								5.83	158	
	2"	QRNAS050004	M52	QRNAS050007								5.71	154	
SST 6	2-1/4"	QRNAS060001	M56	QRNAS060005	175	1560	16.14	10411	6.97/177	7.11/180.5	5.51/140	6.54	178	14.72/374
	2-1/2"	QRNAS060003	M60	QRNAS060006								6.30	175	
	2-3/4"	QRNAS060004	M64	QRNAS060007								6.06	172	
				M68								QRNAS060008		
SST 7	3"	QRNAS070001	M76	QRNAS070005	289	2575	26.63	17176	8.54/217	7.95/202	7.09/180	7.13	195	16.10/409
	3-1/4"	QRNAS070003	M80	QRNAS070006								6.89	192	
	3-1/2"	QRNAS070004	M85	QRNAS070007								6.65	188	
				M90								QRNAS070008		