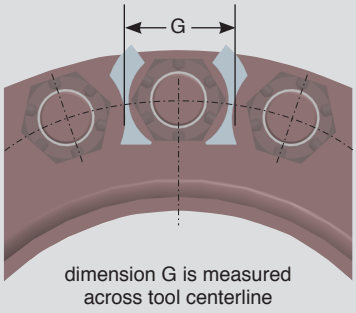
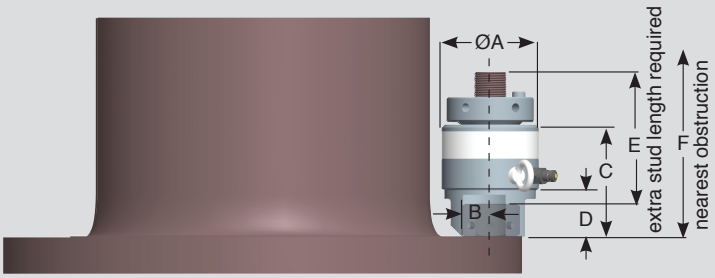
hydratight®

AquaMax® Tensioners



dimension G is measured across tool centerline



Hydratight's AquaMax® Subsea Tensioners are tools specifically designed to tension compact flanges as well as all standard ANSI, API and MSS* types.

AquaMax® Tensioners offer a high load capacity on a wide variety of applications—up to 30% more than traditional tensioners. Comprising 19 bolt diameter specific tools, with eight tools forming the core range, the AquaMax® features Hydratight's Aquajack® industry leading quick fastening nut technology, guaranteed to save time and increase efficiency.

Primarily for use on subsea applications, each tool within the core range covers 100% of the standard flanges that utilise the bolt diameter it was designed for, and approximately 80% of flanges that utilise the next size down.

Plus, you'll find all of the user-friendly features and service operations of the Aquajack® range, providing a comprehensive solution to meet your load generation needs:

- Fits all standard flanges including ANSI, API, Taperlok and compact: reducing your need for kit and total tool inventory costs
- Generates up to 30% more load than Aquajack® tensioners with a maximum working pressure of 1500 bar (21,750 psi)
- Quick fastening reaction nut: allows rapid tool application and removal regardless of bolt length, corrosion or thread damage
- Unique floating piston design: tilts in any direction without loss of load, eliminating piston seizure and aiding tool retraction
- Eccentric shaped tool applies to AM01, AM02 and AM03
- Long stroke capability with over stroke elimination: all tools have 30mm (1.18") of stroke capability, except AM01 and AM02 = 20mm (0.79")
- Weight excludes reaction nut

* MSS-SP44 now included in ASME B16.47

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Tool Ref	Bolt Dia.		Tool Hyd Area	Bolt Dia.			Weight	Unit of Measure	A	B	C	D	E	F	G
	in	mm		Tonf	lbf	kN									
AM01	3/4"	M20	1.39in²	13.45	30128	134.0	3.6lb	Std. - in.	2.52	0.61	3.78	1.38	3.97	8.82	1.89
			894mm²				1.65kg	Metric - mm	64.0	15.6	96.0	35.0	101.0	224.0	48.1
AM02	3/4"	M20	1.92in²	18.67	41821	186.0	4.1lb	Std. - in.	2.72	0.74	3.68	1.38	3.97	8.82	2.18
	7/8"	M22	1241mm²				1.85kg	Metric - mm	69.0	18.8	93.5	35.0	101.0	224.0	55.5
AM03	7/8"*	M20*	2.52in²	24.48	54835	244.0	6.6lb	Std. - in.	3.19	0.78	4.82	1.81	5.04	11.61	2.34
	1"	M24*	1627mm²				3.00kg	Metric - mm	81.0	19.9	122.5	46.0	128.0	295.0	59.4
		M27													
AM04	1"	M24	3.34in²	32.42	72621	323.0	7.9lb	Std. - in.	3.50	0.91	4.94	1.97	5.10	11.93	2.90
	1-1/8"	M27	2154mm²				3.59kg	Metric - mm	89.0	23.2	125.5	50.0	129.0	303.0	73.8
		M30													
AM05	1-1/8"*	M30*	4.26in²	41.36	92646	412.1	9.8lb	Std. - in.	3.86	1.07	5.15	2.05	5.27	12.32	2.91
	1-1/4"	M33	2748mm²				4.45kg	Metric - mm	98.0	27.2	130.8	52.0	134.0	313.0	74.0
AM06	1-1/4"	M33	5.29in²	51.38	115091	512.0	11.6lb	Std. - in.	4.21	1.24	5.20	2.17	5.04	12.17	3.40
	1 3/8"	M36	3414mm²				5.24kg	Metric - mm	107.0	31.6	132.0	55.0	128.0	309.0	86.4
AM07	1-3/8"*	M36*	6.44in²	62.53	140067	623.0	14.4lb	Std. - in.	4.55	1.31	5.43	2.30	5.40	12.83	3.40
	1-1/2"	M39	4155mm²				6.52kg	Metric - mm	115.5	33.2	138.0	58.5	137.0	326.0	86.3
AM08	1-1/2"	M39	7.70in²	74.78	167507	745.1	17.8lb	Std. - in.	4.92	1.34	5.69	2.42	5.66	13.35	3.78
	1-5/8"	M42	4969mm²				8.05kg	Metric - mm	125.0	34.0	144.5	61.5	144	339.0	96.0
AM09	1-5/8"*	M42*	9.08in²	88.12	197389	878.1	21.5lb	Std. - in.	5.26	1.50	6.02	2.58	6.05	14.17	3.81
	1-3/4"	M45	5855mm²				9.76kg	Metric - mm	133.5	38.2	153.0	65.5	154	360.0	96.8
AM10	1-3/4"	M45	10.57in²	102.59	229802	1022.2	24.2lb	Std. - in.	5.61	1.69	6.06	2.66	5.87	14.17	4.27
	1-7/8"	M48	6817mm²				10.99kg	Metric - mm	142.5	42.9	154.0	67.5	149.0	360.0	108.4
AM11	1-7/8"	M48	12.17in²	118.13	264611	1177.1	27.1lb	Std. - in.	5.98	1.94	6.10	2.76	5.79	14.29	4.59
	2"	M52	7849mm²				12.27kg	Metric - mm	152.0	49.3	155.0	70.0	147.0	363.0	116.6
AM12	2"*	M52*	15.70in²	152.46	341510	1519.1	35.3lb	Std. - in.	6.71	1.94	6.46	2.99	6.16	15.04	5.13
	2-1/4"	M56	10130mm²				16.03kg	Metric - mm	170.5	49.3	164.0	76.0	156	382.0	130.2
AM13	2-1/4"	M56	19.68in²	191.08	428019	1904.0	42.5lb	Std. - in.	7.30	2.32	6.61	3.23	6.05	15.35	5.65
	2-1/2"	M60	12696mm²				19.27kg	Metric - mm	185.5	58.9	168.0	82.0	154.0	390.0	143.4
		M64													
AM14	2-1/2"*	M60*	21.82in²	211.88	474611	2111.2	48.9lb	Std. - in.	7.80	2.48	6.99	3.43	6.47	15.43	6.25
		M64*													
	2-3/4"	M68	14078mm²				22.19kg	Metric - mm	198.0	62.9	177.5	87.0	164.0	392.0	158.7
		M72													
AM15	2-3/4"	M68	26.25in²	254.85	570864	2539.4	61.4lb	Std. - in.	8.44	2.70	7.40	3.74	6.80	17.24	6.93
	3"	M72	16934mm²				27.86kg	Metric - mm	214.5	68.6	188.0	95.0	173.0	438.0	176.0
		M76													
AM16	3"*	M76*	31.07in²	301.72	675853	3006.3	75.2lb	Std. - in.	9.17	2.73	7.68	4.06	7.22	18.11	7.33
	3-1/4"	M80	20048mm²				34.12kg	Metric - mm	233.0	69.4	195.0	103.0	184.0	460.0	186.1
		M85													
AM17	3-1/4"	M80	36.30in²	352.48	789555	3512.1	87.2lb	Std. - in.	9.76	3.08	7.87	4.29	7.09	18.39	7.82
	3-1/2"	M85	23421mm²				39.55kg	Metric - mm	248.0	78.2	200.0	109.0	180.0	467.0	198.6
		M90													
AM18	3-1/2"	M90	41.95in²	407.29	912330	4058.2	116.3lb	Std. - in.	10.63	3.17	8.76	4.51	8.54	20.47	8.56
	3-3/4"	M95	27062mm²				52.77kg	Metric - mm	270.0	80.6	222.5	114.5	217.0	520.0	217.4
AM19	3-3/4"	M95	47.99in²	466.02	1043885	4643.4	139.7lb	Std. - in.	11.34	3.53	9.22	4.76	8.78	21.42	9.13
	4"	M100	30964mm²				63.37kg	Metric - mm	288.0	89.7	234.3	121.0	223.0	544.0	232.0

* Requires reaction nut step-up washer.

Further details can be obtained from your local Hydratight representative or via the website **hydratight.com.**