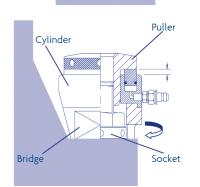
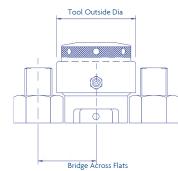
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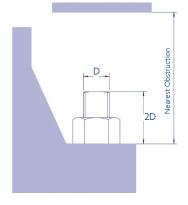
HYDRAULIC BOLT TENSIONING

Hydraulic Bolt Tensioning Tools (1000 bar)









Inch Sizes

Tool	Bolt Diameters Imperial Sizes inch			Hydraulic Area		Maximum	Tool	Bridge	Nearest
No					mm	Load kN	Outside Dia mm	Across Flats mm	Obstruction mm
1	7/8	3/4		2.93	1,896	189	72*	60	115 - 118
2	1-1/8	1	7/8	4.10	2,650	265	86*	72	143 - 127 - 123
3	1-1/4	1-1/8	1	4.63	2,991	299	98	72	146 - 143 - 140
4	1-3⁄8	1-1/4	1-1⁄8	5.62	3,628	362	104	84	151 - 147 - 143
5	1-1/2	1-3/8	1-1⁄4	6.70	4,326	432	114	94	162 - 160 - 157
6	1-5⁄8	1-1/2	1-3/8	7.88	5,089	509	124	96	170 - 168 - 165
7	1-3/4	1-5⁄8	1-1/2	9.16	5,911	591	132	104	178 - 175 - 172
8	1-7/8	1-3/4	1-5/8	10.83	6,991	699	141	114	186 - 182 -179
9	2	1-7/8	1-3/4	12.20	7,876	787	148	116	192 - 189 -186
10	2-1/4	2	1-7/8	15.44	9,965	996	168	130	208 - 201 - 198
11	2-1/2	2-1/4	2	19.57	12,629	1,263	185	142	230 - 221 - 214
12	2-3/4	2-1/2	2-1/4	23.78	15,344	1,534	202	150	243 - 236 - 229
13	3	2-3/4	2-1/2	28.43	18,342	1,834	220	172	255 - 252 - 243
14	3-1⁄4	3	2-3/4	31.27	20,175	2,017	233	183	270 - 263 - 258
15	3-1/2	3-1⁄4	3	35.40	22,839	2,283	248	183	288 - 281 - 274

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- Maximum load is generated at the maximum operating pressure of 1000 bar.
 - The maximum piston stroke is 15 mm for all sizes. Contact Boltight for longer stroke tooling.
- This range of tooling has been designed to suit most standard flanges used in the oil and gas industry. Consult the flange and tool selection tables DS-21, DS-22 and DS-23 for suitability of tooling.
- 4. All tools are assembled, filled with oil, pressure tested and a test certificate issued prior to despatch.
 - Each tool is labelled with the maximum operating pressure, load and stroke.
- 6. One tool comprises of one hydraulic cylinder, bridge, puller and socket.
 - Extra pullers and sockets can be purchased to adapt the hydraulic cylinder to fit other bolt sizes. Special sizes can also be manufactured.
 - Unless specified when ordering, imperial sizes 3/4", 7/8" and 1" pullers will be threaded UNC. 1-1/8" and above will be threaded UN8. Up to three tools are available

*these tools are not circular

for most bolt sizes giving a range of maximum loads. For example a 2" bolt can be tensioned with Tool No 9, 10 or 11.

- Any number of tools can be connected together for simultaneous operation.
- Pullers can be machined with other thread forms specify when ordering.
- Sizes above 3-1/2" are available send details of your application to Boltight.
- 12. Tools are fitted with self sealing quick connectors.
- Boltight also manufactures 1500 bar tooling with greater load capacity or smaller tool outside diameters.
- 14. Due to continuous product development dimensions may change without notice.

Options available :-

- 1. Twin hydraulic connections
- 2. Other thread forms
- 3. Special designs
- 4. Spring return system
- 5. Piston Stop

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HYDRAULIC BOLT TENSIONING

BOLTIGHT is the UK

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of Boltight Limited

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BOLTIGHT[®] DATA SHEET

HYDRAULIC BOLT TENSIONING

Hydraulic Bolt Tensioning Tools (1000 bar)

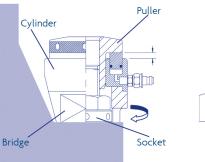


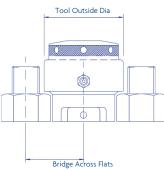


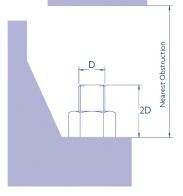




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Tool	Bolt Dia	ameters	Hydraulic Area		Maximum Load		Tool	Bridge Across	Nearest
No	metric	imperial	in ²	mm²	lbf	kN	Outside Dia	Flats	Obstruction
	M16						mm	mm 55	mm 121
1	M18	3/4"		1357	30506	135.7	73.5	55	121
	M20	5/4	2.10					61	120
	M20 M22	7/8"						61	121
	M24	1"						64	128
2	M27	1-1/8"	3.35	2278	51211	227.8	86.0	72	153
	M30							72	167
3	M33	1-1/4"	5.40	3485	78346	348.5	107	79	170
	M36	1-1/4	5.40	5405	76340	J40.J	107	82	176
	M33	1-1/4"						79	170
4	M36	1-3/8"	6.63	4276	96128	427.6	117	82	172
	M39	1-1/2"	0.05					86	187
	M39	1-1/2"						86	191
5	M42	1-5/8"	9.16	5909	132840	590.9	136	100	196
	M45	1-3/4"						100	202
6	M42	1-5/8"						100	198
	M45	1-3/4"						100	204
	M48	1-7/8"	12.22	7881	177172	788.1	150	112	210
	M52	2"						112	217
	M48	1-7/8"						112	210
7	M52	2"	15.34	9894	222426	989.4	169	112	217
	M56	2-1/4"						128	227
	M56	2-1/4"						128	234
8	M60	-	19.75	75 12743	286474	1274.3	190	141	245
	M64	2-1/2"						141	249
	M64	2-1/2"						141	256
9	M68	-	24.71	15944	358435	1594.4	208	160	266
	M72	2-3/4						160	270
10	M72	2-3/4"	28.40	18322	411895	1832.2	222	160	270
	M76	3"						172	281
11	M76	3"						172	288
	M80	-	33.76	21778	489589	2177.8	239	200	299
	M85	3-1/4"						200	304
	M90	3-1/2"						190	316
12	M95	3-3/4"	40.53	26147	587808	2614.7	276	228	326
	M100	4"						240	338

NOTES

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- 1. Maximum operating pressure of 1000 bar.
- 2. All tools are pressure tested and a test certificate issued prior to despatch.
- Each tool is labelled with the maximum operating pressure, load and stroke.
- Extra pullers and sockets can be purchased to adapt the hydraulic cylinder to fit other bolt sizes. Longer stroke tooling and different threadforms can be manufactured.
- 5. Unless specified when ordering, imperial sizes 3/4", 7/8" and 1" pullers will be threaded UNC. 1-1/8" and above will be threaded UN8. Up to three tools are available for most bolt sizes giving a range of maximum loads. For example a 2" bolt can be tensioned with Tool No 9, 10 or 11.
 - Any number of tools can be connected together for simultaneous operation.

- Sizes above 4" are available send details of your application to Boltight.
- 8. Tools are fitted with self sealing quick connectors.
- 9. Boltight also manufactures 1500 bar tooling with greater load capacity or smaller tool outside diameters.
- 10. Due to continuous product development dimensions may change without notice

Options Available :-

- 1. Twin hydraulic connections
- 2. Other thread forms
- 3. Special design
- 4. Spring return system
- 5. Piston Stop