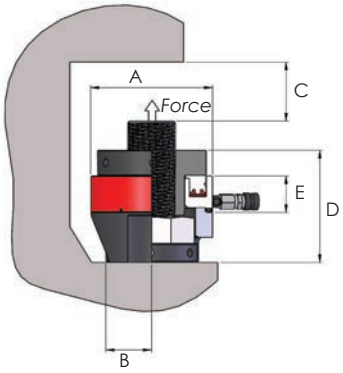
STS | TOPSIDE BOLT TENSIONERS - IMPERIAL

Capacities from 234 to 2649 kN

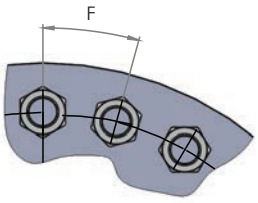
Bolt sizes from ¾" to 4" diameter

Working pressure 1500 bar

- Single acting design with manual piston retraction
- High grade alloy steel construction with nitrocarburised, corrosion resistant, piston
- Maximum stroke indicator to warn against piston over extension
- Self-energising seals for improved performance and longevity of use at high pressure
- Dual quick connect inlet and outlet couplers for easy multiple tensioner connection
- Designed to fit most sizes of ANSI and API flanges and some Compact flanges
- Interchangeable accessories to cover multiple stud bolt sizes using same tensioner
- Non-standard size threaded pullers available to order on short delivery lead time
- Customised and special design tensioners are available on request



Note: Dimension F is for guidance on ANSI flange applications only



Model number	Bolt thread size	Threads per inch	Capacity kN	Capacity tonnes	Effective area (cm²)	Stroke (mm)	Weight (kg)	Dimensions (mm) A	B	C (min)	D	E	F
STS1-075B1	¾"	10	234	23.9	15.6	10	1.7	74	28	74	90	45	51
STS1-087B1	⅞"	9	234	23.9	15.6	10	1.7	74	28	74	90	45	54
STS1-100B2	1"	8	234	23.9	15.6	10	1.9	74	30	80	98	45	61
STS1-112B2	1 ⅛"	8	234	23.9	15.6	10	1.9	74	30	80	98	45	64
STS2-125B1	1 ¼"	8	457	46.6	30.5	15	3.5	102	39	103	128	54	74
STS2-137B1	1 ⅜"	8	457	46.6	30.5	15	3.5	102	39	103	128	54	77
STS2-150B1	1 ½"	8	457	46.6	30.5	15	3.5	102	39	103	128	54	80
STS3-162B1	1 ⅝"	8	822	83.8	54.8	15	6.1	133	47	115	150	56	92
STS3-175B1	1 ¾"	8	822	83.8	54.8	15	6.1	133	47	115	150	56	93
STS3-175B2	1 ¾"	8	822	83.8	54.8	15	6.3	133	50	117	155	56	104
STS3-187B1	1 ⅞"	8	822	83.8	54.8	15	6.1	133	47	115	150	56	97
STS3-187B2	1 ⅞"	8	822	83.8	54.8	15	6.3	133	50	117	155	56	104
STS3-200B2	2"	8	822	83.8	54.8	15	6.3	133	50	117	155	56	104
STS4-187B1	1 ⅞"	8	1264	128.9	84.3	15	10.6	163	50	119	149	57	104
STS4-200B1	2"	8	1264	128.9	84.3	15	10.6	163	50	119	149	57	104
STS4-200B2	2"	8	1264	128.9	84.3	15	11.8	163	62	119	149	57	106
STS4-225B2	2 ¼"	8	1264	128.9	84.3	15	11.8	163	62	135	165	57	121
STS4-250B2	2 ½"	8	1264	128.9	84.3	15	11.8	163	62	135	165	57	127
STS5-250B1	2 ½"	8	1833	186.9	122.2	15	16.0	193	73	145	187	60	134
STS5-275B1	2 ¾"	8	1833	186.9	122.2	15	16.0	193	73	145	187	60	140
STS5-300B1	3"	8	1833	186.9	122.2	15	16.0	193	73	145	187	60	147
STS6-300B1	3"	8	2649	270	176.6	15	23.5	233	84	178	216	64	161
STS6-325B1	3 ¼"	8	2649	270	176.6	15	23.5	233	84	178	216	64	167
STS6-350B1	3 ½"	8	2649	270	176.6	15	23.5	233	84	178	216	64	172
STS6-375B3	3 ¾"	8	2649	270	176.6	15	29.1	233	105	205	257	64	191
STS6-400B3	4"	8	2649	270	176.6	15	29.1	233	105	205	257	64	196

Note: Weight is for load cell and bridge only. Total weight of complete assembly depends on size of puller and nut rotating socket selected. Tommy bars are not included. Hi-Force recommends one tommy bar for every four tensioners.

STS | TOPSIDE BOLT TENSIONERS - METRIC

Capacities from 234 to 2649 kN

Bolt sizes from M16 to M100 diameter

Working pressure 1500 bar

- Single acting design with manual piston retraction
- High grade alloy steel construction with nitrocarburised, corrosion resistant, piston
- Maximum stroke indicator to warn against piston over extension
- Self-energising seals for improved performance and longevity of use at high pressure
- Dual quick connect inlet and outlet couplers for easy multiple tensioner connection
- Designed to fit most sizes of ANSI and API flanges and some Compact flanges
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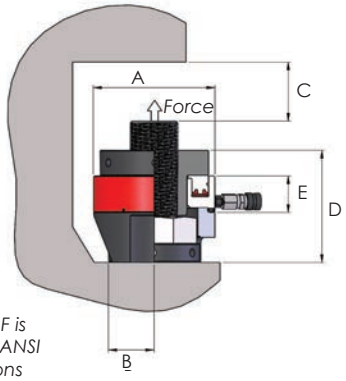
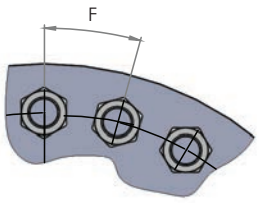


Note: Dimension F is for guidance on ANSI flange applications only



Model number	Bolt thread size	Thread pitch	Capacity kN	Capacity tonnes	Effective area (cm²)	Stroke (mm)	Weight (kg)	Dimensions (mm) A	B	C (min)	D	E	F
STS1-M16B1	M16	2	234	23.9	15.6	10	1.7	74	28	74	90	45	47
STS1-M18B1	M18	2.5	234	23.9	15.6	10	1.7	74	28	74	90	45	49
STS1-M20B1	M20	2.5	234	23.9	15.6	10	1.7	74	28	74	90	45	51
STS1-M22B2	M22	2.5	234	23.9	15.6	10	1.9	74	30	80	98	45	56
STS1-M24B2	M24	3	234	23.9	15.6	10	1.9	74	30	80	98	45	59
STS1-M27B2	M27	3	234	23.9	15.6	10	1.9	74	30	80	98	45	61
STS2-M30B1	M30	3.5	457	46.6	30.5	15	3.5	102	39	103	128	54	71
STS2-M33B1	M33	3.5	457	46.6	30.5	15	3.5	102	39	103	128	54	74
STS2-M36B1	M36	4	457	46.6	30.5	15	3.5	102	39	103	128	54	77
STS2-M39B1	M39	4	457	46.6	30.5	15	3.5	102	39	103	128	54	80
STS3-M42B1	M42	4.5	822	83.8	54.8	15	6.1	133	47	115	150	56	91
STS3-M45B1	M45	4.5	822	83.8	54.8	15	6.1	133	47	115	150	56	94
STS3-M45B2	M45	4.5	822	83.8	54.8	15	6.3	133	50	117	155	56	105
STS3-M48B1	M48	5	822	83.8	54.8	15	6.1	133	47	115	150	56	97
STS3-M48B2	M48	5	822	83.8	54.8	15	6.3	133	50	117	155	56	105
STS3-M52B2	M52	5	822	83.8	54.8	15	6.3	133	50	117	155	56	105
STS4-M48B1	M48	5	1264	128.9	84.3	15	10.6	163	50	119	149	57	105
STS4-M52B1	M52	5	1264	128.9	84.3	15	10.6	163	50	119	149	57	108
STS4-M52B2	M52	5	1264	128.9	84.3	15	11.8	163	62	135	165	57	120
STS4-M56B2	M56	5.5	1264	128.9	84.3	15	11.8	163	62	135	165	57	120
STS4-M60B2	M60	5.5	1264	128.9	84.3	15	11.8	163	62	135	165	57	124
STS4-M64B2	M64	6	1264	128.9	84.3	15	11.8	163	62	135	165	57	126
STS5-M64B1	M64	6	1833	186.9	122.2	15	16.0	193	73	145	187	60	134
STS5-M68B1	M68	6	1833	186.9	122.2	15	16.0	193	73	145	187	60	136
STS5-M72B1	M72	6	1833	186.9	122.2	15	16.0	193	73	145	187	60	139
STS5-M76B1	M76	6	1833	186.9	122.2	15	16.0	193	73	145	187	60	142
STS6-M76B1	M76	6	2649	270	176.6	15	23.5	233	84	178	216	64	158
STS6-M80B1	M80	6	2649	270	176.6	15	23.5	233	84	178	216	64	160
STS6-M85B1	M85	6	2649	270	176.6	15	23.5	233	84	178	216	64	162
STS6-M90B1	M90	6	2649	270	176.6	15	23.5	233	84	178	216	64	170
STS6-M95B3	M95	6	2649	270	176.6	15	29.1	233	105	205	257	64	184
STS6-M100B3	M100	6	2649	270	176.6	15	29.1	233	105	205	257	64	190

Note: Weight is for load cell and bridge only. Total weight of complete assembly depends on size of puller and nut rotating socket selected. Tommy bars are not included. Hi-Force recommends one tommy bar for every four tensioners.