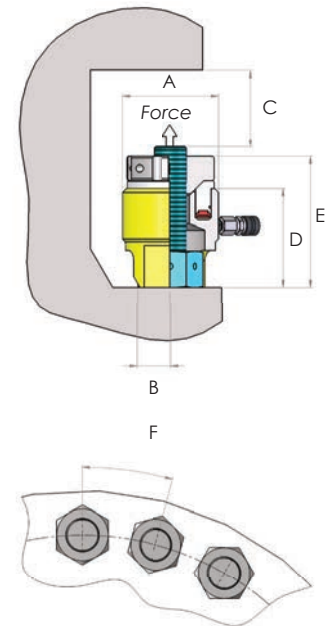


**STU | SUB-SEA BOLT TENSIONERS - IMPERIAL**

**Capacities from 256 to 2483 kN**
**Bolt sizes from 1" to 3 1/2" diameter**
**Maximum working pressure 1500 bar**

- ▶ Single acting design with manual piston retraction
- ▶ Manufactured from high grade alloy steel with added corrosion protection
- ▶ Extra-long piston stroke on all models, to save valuable diver time subsea
- ▶ Simple two piece design for easy operation by divers subsea
- ▶ Visible maximum stroke indicator to warn operator against piston over extension
- ▶ Safety over stroke device to protect operator from injury
- ▶ Self-energising seals for improved performance and longevity of use at high pressure
- ▶ Dual quick connect inlet and outlet couplings for easy multiple tensioner connection
- ▶ Designed to fit most sizes of ANSI and API flanges and some Compact flanges
- ▶ Interchangeable quick fit pullers, to cover secondary bolt size, for each STU model, are available as accessories for even greater versatility (see table below)
- ▶ Customised and special design tensioners are available on request

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



Model number	Quick Fit Pullers	Bolt thread size	Capacity kN	tonnes	Effective area (cm <sup>2</sup> )	Stroke (mm)	Weight (kg)	Tommy bar	Dimensions (mm)					
									A	B	C	D	E	F
STU1-100	QFP1-100	1"-8 UN	256	26.1	17.1	20	3.4	TTB06	82	22	119	119	140	61
STU1-112	QFP1-112	1 1/8"-8 UN	256	26.1	17.1	20	3.4	TTB06	82	22	119	119	140	64
STU2-125	QFP2-125	1 1/4"-8 UN	430	43.9	28.7	30	6.0	TTB08	102	30	140	140	164	73
STU2-137	QFP2-137	1 3/8"-8 UN	430	43.9	28.7	30	6.0	TTB08	102	30	140	140	164	75
STU3-150	QFP3-150	1 1/2"-8 UN	553	56.4	36.9	30	7.5	TTB10	114	35	142	142	169	82
STU3-162	QFP3-162	1 5/8"-8 UN	553	56.4	36.9	30	7.5	TTB10	114	35	142	142	169	85
STU4-175	QFP4-175	1 3/4"-8 UN	756	77.1	50.4	30	9.8	TTB10	128	41	151	151	181	94
STU4-187	QFP4-187	1 7/8"-8 UN	756	77.1	50.4	30	9.8	TTB10	128	41	151	151	181	98
STU5-200	QFP5-200	2"-8 UN	1168	119.1	77.9	30	14.5	TTB12	150	48	164	164	202	112
STU5-225	QFP5-225	2 1/4"-8 UN	1168	119.1	77.9	30	14.5	TTB12	150	48	164	164	202	116
STU6-250	QFP6-250	2 1/2"-8 UN	1649	168.1	109.9	30	22.8	TTB14	176	60	183	183	231	136
STU6-275	QFP6-275	2 3/4"-8 UN	1649	168.1	109.9	30	22.8	TTB14	176	60	183	183	231	141
STU7-300	QFP7-300	3"-8 UN	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	162
STU7-325	QFP7-325	3 1/4"-8 UN	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	173
STU7-350	QFP7-350	3 1/2"-8 UN	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	175

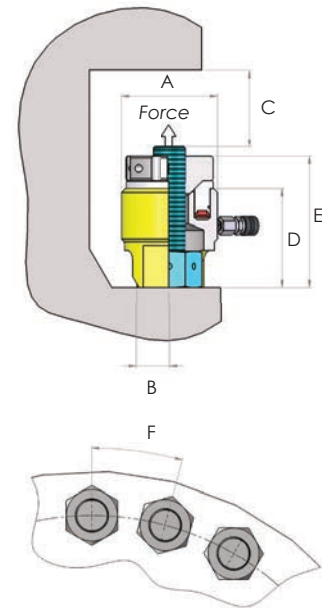
*Note: Tommy bars are not included. Hi-Force recommends one tommy bar for every four tensioners. Please note that the tommy bar listed will fit related quick fit puller; a different size may be required for the drilled hexagon nut.*

**STU | SUB-SEA BOLT TENSIONERS - METRIC**

**Capacities from 256 to 2483 kN**
**Bolt sizes from M24 to M90 diameter**
**Maximum working pressure 1500 bar**

- ▶ Single acting design with manual piston retraction
- ▶ Manufactured from high grade alloy steel with added corrosion protection
- ▶ Extra-long piston stroke on all models, to save valuable diver time subsea
- ▶ Simple two piece design for easy operation by divers subsea
- ▶ Visible maximum stroke indicator to warn operator against piston over extension
- ▶ Safety over stroke device to protect operator from injury
- ▶ Self-energising seals for improved performance and longevity of use at high pressure
- ▶ Dual quick connect inlet and outlet couplings for easy multiple tensioner connection
- ▶ Designed to fit most sizes of ANSI and API flanges and some Compact flanges
- ▶ Interchangeable quick fit pullers, to cover multiple bolt sizes, for each STU model, are available as accessories for even greater versatility (see table below)
- ▶ Customised and special design tensioners are available on request

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



Model number	Quick Fit Pullers	Bolt thread size	Capacity		Effective area (cm <sup>2</sup> )	Stroke (mm)	Weight (kg)	Tommy bar	Dimensions (mm)					
			kN	tonnes					A	B	C	D	E	F
STU1-24	QFP1-24	M24x3	256	26.1	17.1	20	3.4	TTB06	82	22	119	119	140	61
STU1-27	QFP1-27	M27x3	256	26.1	17.1	20	3.4	TTB06	82	22	119	119	140	64
STU2-30	QFP2-30	M30x3.5	430	43.9	28.7	30	6.0	TTB08	102	30	140	140	164	73
STU2-33	QFP2-33	M33x3.5	430	43.9	28.7	30	6.0	TTB08	102	30	140	140	164	75
STU2-36	QFP2-36	M36x4	430	43.9	28.7	30	6.0	TTB10	102	30	140	140	164	78
STU3-39	QFP3-39	M39x4	553	56.4	36.9	30	7.5	TTB10	114	35	142	142	169	82
STU3-42	QFP3-42	M42x4.5	553	56.4	36.9	30	7.5	TTB10	114	35	142	142	169	85
STU4-45	QFP4-45	M45x4.5	756	77.1	50.4	30	9.8	TTB10	128	41	151	151	181	94
STU4-48	QFP4-48	M48x5	756	77.1	50.4	30	9.8	TTB12	128	41	151	151	181	98
STU5-52	QFP5-52	M52x5	1168	119.1	77.9	30	14.5	TTB12	150	48	164	164	202	112
STU5-56	QFP5-56	M56x5.5	1168	119.1	77.9	30	14.5	TTB14	150	48	164	164	202	116
STU6-60	QFP6-60	M60x5.5	1649	168.1	109.9	30	22.8	TTB14	176	60	183	183	231	136
STU6-64	QFP6-64	M64x6	1649	168.1	109.9	30	22.8	TTB16	176	60	183	183	231	136
STU6-68	QFP6-68	M68x6	1649	168.1	109.9	30	22.8	TTB16	176	60	183	183	231	136
STU6-72	QFP6-72	M72x6	1649	168.1	109.9	30	22.8	TTB16	176	60	183	183	231	141
STU7-76	QFP7-76	M76x6	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	164
STU7-80	QFP7-80	M80x6	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	164
STU7-85	QFP7-85	M85x6	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	175
STU7-90	QFP7-90	M90x6	2483	253.2	165.6	30	35.6	TTB16	215	89	215	215	260	175

*Note: Tommy bars are not included. Hi-Force recommends one tommy bar for every four tensioners. Please note that the tommy bar listed will fit related quick fit puller; a different size may be required for the drilled hexagon nut.*