

SERIES: SUB Subsea Tensioners

1500 bar pressure**30 mm stroke**

SAFE AND RELIABLE

- CE marked
- Over-stroke protection
- Max stroke indicator
- Pressure Test Certification
- Full colour operating and safety manual
- Long life performance

OPTIONS AND FEATURES

- Special threads
- Special load requirements
- Twin or single port
- Compact size for tight clearance
- Oil pressure calculations
- Long stroke design
- Split nuts or solid nuts

SUB series Subsea tensioners are versatile and reliable hydraulic tensioners optimised for use on subsea bolting.

They are designed to suit the higher load and tight space requirements of **Norsok/ SPO Compact Flanges**, as well as standard ANSI, ASME and API flanges. The main tool construction is stainless steel for anti-corrosion, long life performance.

ERGONOMIC DESIGN

SUB series tools have several design features for easy diver operation:

- One-piece body design
- Anti-slip tool surface
- Contoured “grip” reaction nuts
- High-vis finish

30mm LONG STROKE

A long piston stroke allows the diver to complete the bolt tightening in one hit without having to return the tool to the surface to reset the piston. Saving time and money.

SOLID AND SPLIT NUT OPTIONS

Interchangeable solid or split reaction nut options to suit the application and the project budget.

Split reaction nuts offer speed of use for some applications.

Solid reaction nuts offer zero maintenance performance and give fail-safe operation for applications with large or unknown bolt misalignment.

SUB tensioners offer complete flexibility.

ANCILLARY SUBSEA EQUIPMENT FROM STOCK

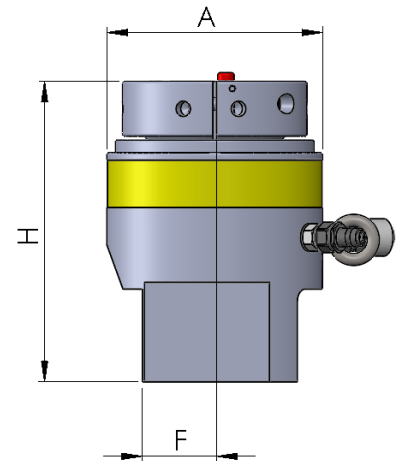
- Pumps
- Hose Reels
- Downline

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1500 bar pressure

30 mm stroke SUB20-80

20 mm stroke SUB10



Tool No	Bolt Thread Size		Maximum Load	Pressure Area	Tool OD	Height	Bridge Clear	Weight
	T		F	HPA	A	H	F	W
	inch	Metric	kN	mm ²	mm	mm	mm	kg
SUB10	3/4	M20	190	1267	66	122	20	2.5
	7/8	M22						
SUB20	1	M24	323	2153	87	152	25	4
	1 1/8	M27						
	-	M30						
SUB30	1 1/4	M33	512	3413	105	164	28	6
	1 3/8	M36						
SUB40	1 1/2	M39	745	4967	123	184	35	9
	1 5/8	M42						
SUB50	1 3/4	M45	1178	7853	150	210	48	12
	1 7/8	M48						
	2	M52						
SUB60	2 1/4	M56	1904	12693	183	235	58	18
	2 1/2	M60						
	-	M64						
SUB70	2 3/4	M68	2539	16927	210	258	65	24
	3	M72						
	-	M76						
SUB80	3 1/4	M80	4058	27053	258	302	85	40
	3 1/2	M85						
	3 3/4	M90						
	-	M95						