

DATA  
 SHEET  
 TDS 300

## AquaTite™ Sub Sea Hydraulic Bolt Tensioning Tools



TITAN manufactures standard and custom built tooling for sub sea use. The standard tool range incorporates a combined body and bridge, lifting eye bolt, 30 mm piston stroke, 1500 bar operating pressure, twin hydraulic connections, a maximum piston stroke indicator and a split reaction nut. Lower cost solid reaction nuts are also available. These tools are fitted with the TITAN composite material high pressure seals which clip into place and require no adjustment.



- Pressures up to 1500 bar
- High Initial Bolt Stress
- Long 30 mm Stroke
- Maximum Stroke Indicator
- Easy Manual Piston Return
- Long Life Snap Fit Seals
- Nickel Plated
- Single or Twin Hydraulic Connections
- Split or Solid Reaction Nut
- Fits all Standard Pipe Flange Applications



All TITAN tools are assembled, pressure tested prior to despatch. They are also designed to conform to the European Pressure Equipment Directive and where required are CE marked. TITAN tools are supplied with a comprehensive Health & Safety Operating and Maintenance Instruction Manual.

Standard tools are fitted with two self sealing quick connectors. This can be either two nipples or one coupling and one nipple. Customer should specify when ordering.

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**TITAN AquaTite™  
 Sub Sea Tooling  
 Flexible Tool Range**
**PRODUCT - SUBSEA TOOLS**

Tool No	Bolt Dia inch	Bolt Dia metric	Max Load kN	Max Load tonf	Tool OD mm
F1	1"	M24	361	36.2	90
	1-1/8"	M27			
	1-1/4"	M33			
F2	1-3/8"	M36	544	54.6	109
	1-1/2"	M39			
	1-5/8"	M42			
F3	1-3/4"	M45	812	81.5	130
	1-7/8"	M48			
	2"	M52			
F4	2-1/4"	M56	1550	155.5	172
	2-1/2"	M64			
	2-3/4"	M72			
F5	3"	M76	2562	257.0	215
	3-1/4"	M80 M85			
	3-1/2"	M90			

Maximum working pressure 1500 bar (21,750 psi)

Maximum piston stroke = 30 mm (1.81 inch)

Five tools cover standard pipe flange connections  
 above 4 inch NB with bolting in the size range

1 inch to 3-1/2 inch diameter.

Available with solid or quick release reaction nuts