



Class 1-4 Torque Tool (API 17D)

100-2700Nm class 1-4 torque tool

This torque tool has been specifically developed to provide the highest level of performance. It has integral torque and turns counting sensors for closed loop control. When matched with a PSS supplied torque tool control manifold, it can provide precise feedback on torque response of any subsea operation. These can alternatively be utilised by connecting a PSSL universal subsea display, which would give a visual read-out of live torque feedback and turns counter.

The tool conforms to the ISO 13628-8 fig 18 class 1-4 bucket interface used extensively in the subsea industry for valve overrides operated by ROV. The tool has latching wings allowing the tool to hold on to the interface. The latching wings are hydraulically driven forward and spring retracted. Thus in the case of a loss of hydraulic power the wings will release. The tool uses a high specification drive motor for consistent torque output characteristics, even if used with direct hydraulic pressure control without the feedback sensor. The motor shares casing oil with the gearbox therefore avoiding the need for a separate compensator.

Note that for applying torques less than 108Nm (80ft lbs) the class 1&2 tool is recommended.

Applications

Class 1-4 valve operations
Flying lead operations

Features

ISO 13628-8 fig 18 (API 17D) class 1-4
Max torque 2700 Nm / 2000ft lbs
Dual range
Dual sensor electronic turns counter
Internal strain gauge
Latching wings
Can be configured for diver use

In the box

Class 1-4 torque tool
Class 1 & 2 socket (11/16" sq)
Class 3 socket (1-1/8" sq)
Class 4 socket (1-1/2" sq)
Fish tail handle
Cage with USD mount
Hose Set (JIC with Swagelok adaptors)
Low range convertor
Operations and maintenance manual

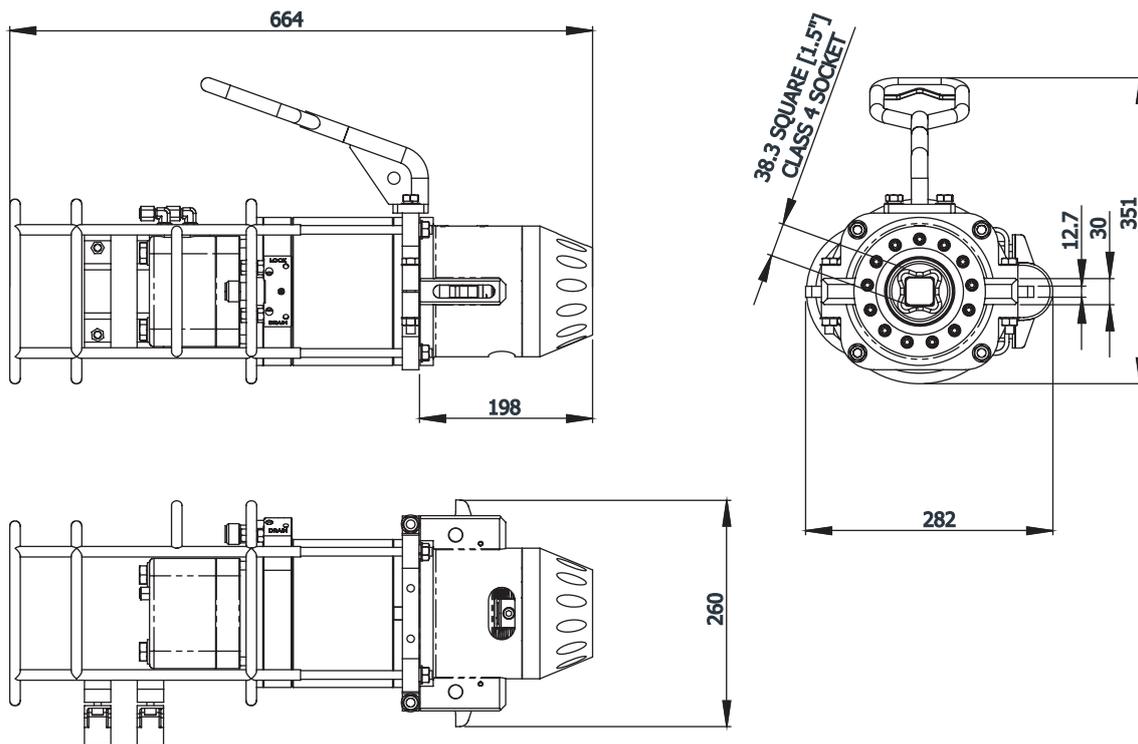


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Specifications



Torque interface	ISO 13628-8 fig 18 class 1-4
Torque range	540-2700Nm / 400-2000ft lbs (gearbox fitted)
	108-540Nm / 80-400ft lbs (direct drive)
Motor size	236cc
Latching strength	1t at 160bar
Weight in air	34kg / 75lbs
Weight in water	28kg / 62lbs
Electrical connector	8 pin burton
Hydraulic	Mineral oil



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