



Class I-IV Torque Tool

This Class I-IV subsea torque tool is specifically designed for operation with an ROV or a diver, and features integrated torque and turns count sensors for real-time readout of torque and turns. When matched with a “smart” torque tool control manifold, full torque and speed feedback and control can be achieved.

This torque tool features a robust, light weight tool design that is compliant with API17D & H, Class I-IV, (as incorporated in ISO 13628-8), and provides a maximum torque output of 2,000 ft-lbs (2700 Nm). Conversion between Class I-IV end effectors is easily achieved without disassembly of oil-filled gearbox, and clamping latches are fail-safe, enabling removal of the tool from the API receptacle when hydraulic pressure is removed.

Features

- ISO 13628-8 / API 17D & H Class I-IV
- Lightweight, compact design
- Suitable for use with ROVs or Divers
- 4,000 meter depth rated
- Real-time torque and turns readout available surface and subsea
- Extended battery life
- Supports torque / speed feedback & control

Specifications

Torque Tool

- Weight in air: 68 lbs (30.8 kg)
- Weight in water: 53 lbs (25.9 kg)
- Depth Rating: 4,000 meters
- Interface: API 17D & H, Class I-IV
- Torque output:
 - Class I: 0 to 50 ft-lbs (0 to 69 Nm)
 - Class II: 0 to 200 ft-lbs (0 to 270 Nm)
 - Class III: 0 to 1000 ft-lbs (0 to 1360 Nm)
 - Class IV: 0 to 2000 ft-lbs (0 to 2700 Nm)
 - OWI Class I-IV: 0 to 2000 ft-lbs (0 to 2700 Nm)

Subsea LED Display & Electronics

- Dual simultaneous display of torque/turn count
- Programmable character height (0.2” to 0.8”)
- Torque mode indicator (Class I-IV)
- Torque readout with rotational sign (+/-) in Nm or ft-lb
- Number of turns with rotational sign (+/-)
- Bi-directional RS-232 and RS-485 communications with topside
- Topside readout of torque, turns, RPM, battery charge; operator reset of number of turns
- 12v-24v external power supply with internal hot swap battery backup
- Torque readout accuracy +/- 10%
- Oil compensated electronics/torque transducer
- 100 hour life rechargeable battery
- Environmental: -20°-140° F (-28°-60° C)