

ISO 13628-8 Class 1-4 (API 17D)

Torque Tool.



DESCRIPTION

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 FORUM 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 FORUM Universal Subsea Display, which would give a visual read-out of live torque feedback and/or turns counter. USD sold separately.

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 (80 ft lbs) the class 1&2 tool is recommended.

FEATURES

ISO 13628-8 Fig 18 (API 17D) Class 1-4

Max Torque 2,700 Nm (2,000 ft lbs)

Dual range

Dual Sensor Electronic Turns Counter

Internal Strain Gauge

Latching Wings

Supplied in offshore suitable transit case

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SPECIFICATIONS

| | |
|-----------------------|---|
| Torque Interface: | ISO 13628-8 fig 18 Class 1-4 |
| Torque Range: | 540-2700Nm (400-2000 ft lbs) (gearbox fitted) 108-540Nm (80-400 ft lbs) (direct drive) |
| Motor Size: | 236 cc |
| Latching Strength: | 1 tonne @ 160 Bar |
| Weight (Air/Water): | 45/35 kg (98/76lbs) |
| Hydraulic: | Mineral Oil |
| Electrical Connector: | 8 Pin Burton |
| Sensors: | Dual Sensor Inductive Turns count sensor Internal Strain Gauge |

PART NUMBERS & OPTIONS

| | |
|-----------------|---|
| A019-959-959/01 | Torque Tool System with sockets, case, hoses, handle. |
| A019-959-959/02 | As A019-959-959/01 plus subsea Torque & Turns Display |
| A019-959-202/S | Spares Kit. |
| A019-958-152/2 | Surface Verification Unit. |
| A019-958-601 | Subsea Verification Unit. |
| TL0017-0000-00 | Flying Lead Tool |
| A286-001-050/04 | Torque Tool Control System. (alternative to USD) |
| A019-959-150 | 17H (High Torque) Nose Adapter. |
| A019-959-400 | Petrobras Nose Adapter Kit . |
| A019-904-400/01 | Subsea Torque and Turns Display |

WHAT'S IN THE BOX

- 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.(Change to D-type after June 2013)
- Cage with USD mount.
- Hose Set
(JIC with Swagelok adaptors)
- Low range convertor
- Operations & Maintenance Manual.

