

ROV – DIVER Subsea Sling Retainer (“SSR”) Tool

Introduction

TENSA markets the ROV-DIVER Subsea Sling Retainer (“SSR”). This represents an innovative and unique design application with the emphasis on operational safety and ease of application. The functional purpose of the design is to eliminate exit of the strop / sling from the shackle hook profile due to Subsea heave motion during operations. Therefore mitigating any risk of an uncontrolled lift.

Application

The “SSR” is fixed to an existing Crosby shank as shown on the surface and ready to be deployed. The gate mechanism is spring loaded in the open and locked position capturing the applicable positioned strop / sling. Indexing the ROV interfaced drive feature allows the gate to be locked capturing the sling as illustrated. In addition, an exposed lanyard facilitates the gate opening for sling release.

Design

The basis of the design of the “SSR” is to capture the strop / sling from exiting the shackle throat. This is achieved by securing the spring loaded (return) retaining gate via the indexing mechanism in the locked closed position. This is actuated by the ROV / DIVER interface drive feature located on both sides of the ‘SSR’ body assembly.



SSRToolv3

SPECIFICATIONS and FEATURES

- The “SSR” does not alter existing hook certification
- Spring loaded (return) retaining gate
- Retaining gate - dedicated ‘Closed / Locked’ position
- Fit for Purpose “Generic Design”
- One design fits all (only retaining Gate differs)
- Light weight Design – Est 20kg – 30kg (in Air)
- Non - Load bearing
- ROV / DIVER actuated Subsea & Manually actuated top side
- Universal HSE application
- Full operational ocean depth
- Fail Safe mechanical Gate operation / actuation – 2 positions (open / closed)
- Can interface with typical 5 & 7 function ROV manipulators
- IP / Patent Pending (IP Ref: 2011226775)
- SWL 5.4t, 11t, 20t, 31t