Highest integrity subsea mooring connectors for the harshest environments

Features and benefits of MoorLOK™

• Bigger balls and thicker ball cage offers zero risk of damage upon insertion
• Tool rests in the engaged position ensuring automatic engagement
• No pins, no protrusions, no ROV intervention during installation
• Patented TripLOK™ mechanism is failsafe even under zero loading or inversion
• Heave arrested immediately upon insertion ensuring ease of installation in all weather conditions
• Release clamps provided with a unique release and latch mechanism to guarantee a successful disconnect throughout the life of the field
• Low part count
• Forged from a proprietary grade F22 (mod) steel developed by Balltec metallurgists
• Over 250 connectors in service across the world
• 100% successful track record for the tools and the installation process

Outline Specifications

MBL: Up to 30,000kN
Material: All load bearing machined components manufactured from forged bar to Balltec proprietary specification. Balltec are in joint partnership with Celsa Huta Ostrowiec for the forging of load bearing components. Balltec and Celsa forge all MoorLOK™ connectors to the standards as specified in the ABS Rules for the Certification of Offshore Mooring Chain (2009)
Class: DNV, ABS, BV, Lloyds, Other
Proof Load: According to class
Connection: All connection types including Padeye (to LTM Shackle or H-Link), Clevis Head (to chain link – common, or end link), etc.

Balltec MoorLOK™ range of permanent, disconnectable subsea mooring connectors are designed, manufactured and tested in accordance with DNV Offshore Mooring Chain (2008) and ABS Rules for the Certification of Offshore Mooring Chain (2009).
“For the Blind Faith mooring system that used polyester ropes, the subsea mooring connector was a critical component. Given the large size, long service life and deepwater application with practically no maintenance during its lifetime, we needed a supplier whom we could trust to deliver a proven, robust and reliable product.

Balltec provided excellent engineering, procurement and fabrication transparency and traceability throughout this project and proved that they could deliver. The installation support we received during the long arduous process was also second to none.

Aker will not hesitate to consider Balltec again, both as supplier for subsea mooring connectors as well as for their other product lines such as heavy duty lifting tools and pipeline recovery tools.”

Indra Datta, Project Director, Aker Solutions, Houston USA