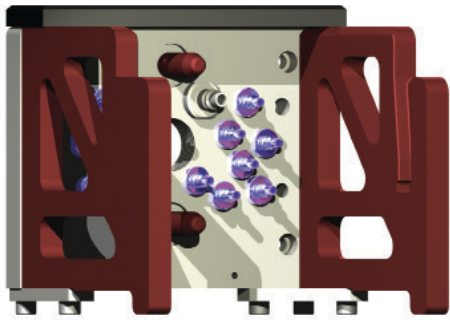


MQC TERMINATOR CHARLIE X-1 ROV-OPERATED MQC / STAB PLATE



Terminator Charlie X-1 Male



Terminator Charlie X-1 Female

IMPROVE SUBSEA SAFETY WITH LOW-COMPLEXITY STAB PLATES

UNITECH developed this low complexity ROV Operated Multi Quick Connector (MQC) in 2010 as an advance development of our Terminator Charlie Plate. The female plate has been designed to eliminate welding & bending as well as almost all mechanical joints/parts vulnerable to leakage.

- Low-complexity ROV-operated Multi Quick Connector (MQC)
- Female plate without pipe welding and bending complexity
- Male plate with optional secondary self-closing release function
- Drastically reduced installation and intervention cost and risk
- High reliability and safety during ROV docking and connection phase
- Inherently safe design, eliminating weak links in assembling umbilical lines to female plate
- All critical parts on retrievable ROV side



Qualified to
API 6A PSL-3G
standards

TERMINATOR CHARLIE X-1

FEATURES

- All critical latching / locking details retrievable
- Anti-galling materials: subsea stainless alloys
- No reaction forces transferred to manipulator
- Up to 30.000 psi working pressure
- Positively parked and positioned before hydraulic mating
- High-reliability vertical guide mechanism. Latching thread permanently engaged
- Double primary seals in hydraulic connectors
- Anti-extrusion seals connect and disconnect under full pressure
- Hydraulic connection points along bottom edge of stab plate
- No subsea engagement of threads required
- Vertical docking arrangement reduces installation risk
- Vertical docking gives maximum flexibility for installation techniques to suit conditions and resources available

SPECIFICATIONS

Standard plate suitable for up to 14/2 self-sealing hydraulic connectors with 2 seals for extra reliability. Other solutions available, depending on coupling size, quantity and pressure requirement.

Materials	
Fixed Plate	AISI 316 L
ROV Operated Plate	Titanium Gr. 23, Super Duplex or AISI 316 L per customer requirement
Hydraulic Elements	Inconel 625, Super Duplex, 254SMO, Nitronic 50 and AISI 316
Seals	
Hydraulic Connector	Double Seals; combinations of metal, PTFE & HNBR
ROV Interface	Torque Tool API 17H Class 4
Temperature Class	PRSTU
Nom. Mating Torque	50 Nm / 37 ft pound
Min. Pretension Torque	340 Nm / 250 ft pound
Break Out Torque	400 Nm / 295 ft pound
Design Torque	1000 Nm / 740 ft pound
Water Depth	Independent of water depth
Tube / Hose Termination	Light-, medium- or heavy-duty brackets, or customer requirements
End Termination	JIC, Autoclave, NPT, Customer Specified
Fluid Compatibility	Water, Hydraulic Fluid, Sea Water, Chemical Injection, Corrosion
Design Torque of Latching Mechanism	2000 ft lbs
Connection System Landing Limits	Vertical – unlimited Lateral – 100mm Z axis +/- 10 degrees Y axis +/- 10 degrees X axis +/- 10 degrees