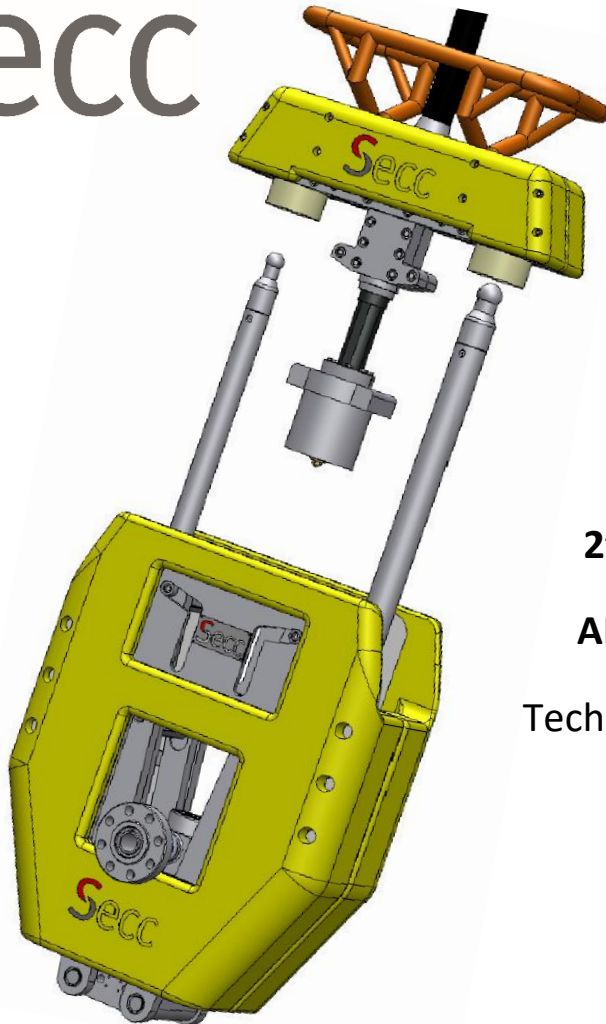


Secc



2" 15,000 psi

ALTUM QCDC

Technical Datasheet



ALTUM QCDC Datasheet			
DESIGN BASICS			
Coupling Type	15,000 psi EQD and Quick Connect/Disconnect Coupling QCDC (dual valved)		
Coupling Size	2" NB (50.8 mm)		
Pressure Rating	15,000 psi (1034 Bar)	Test Pressure	22,500 psi (1551 Bar)
Max Operating Depth	10,000 ft (3048 m)	Operating Temperature	-18°C to +121°C (Others available)
Flow Path	Full bore HIGHFLOW 90° elbow		
Design Code	API 6A & 17D PSL 3 PR2 for Other End Connectors (OEC) – PSL 3G available on request		
Material Classification	API material class FF in accordance with NACE MR0175. HH available.		
Quality Assurance	ISO 9001:2015 and full traceability		
Certification Level	EN 10204 3.1 (EN 10204 3.2 available on request)		
Operational	Quick connect and disconnect under full working pressure with zero leakage – can be supplied with hydraulic override		
Axial Load	0.8T at 0 psi and 2.6T at 15,000 psi (Tensioning Arm/Lock available)		
Orientation	Vertical or horizontal		
Installation	Receptacle fixed connection. Stab via ROV interface.		
Alignment Method	Guide probes and guide funnels		
Design Life	25 years (metallic components)		
Additional Options	Swivel options at either end of connector. Various deployment/locking/tethering options. Gimbal/Turret high angle disconnect system. Hydraulic override.		
PERFORMANCE			
Max. Bending Moment	5 kNm	Maximum Torque	5 kNm (infinite with Swivel options)
BASIC WEIGHT AND DIMENSIONS			
Stab Dimensions	1200 mm (L) x 1030 mm (W) x 450 mm (D)	Receptacle Dimensions	2400 mm (L) x 1040 mm (W) x 575 mm (D)
Connected Dimensions	2400 mm (L) x 1040 mm (W) x 575 mm (D)	Connected Mass in Air	980 kg
Stab Mass	200 kg	Receptacle Mass	780 kg
CONNECTION DETAILS			
Inlet Connection	2-1/16 15K API 6BX Flange (other end connections available)		
Outlet Connection	2-1/16 15K API 6BX Flange (other end connections available)		
MATERIALS			
Body	Super Duplex 32760	Trim Components	Stainless Steel 316
Probe	Inconel 6A718	Elastomeric Seals	HNBR (FKM or FFKM available)
Sleeve	Super Duplex 32760	Fasteners	A4 Stainless Steel
Inner Piston	Super Duplex 32760		
TESTING REQUIREMENTS			
Pressure Test	API 6A PSL 3 (3G available)	Impact Testing	ASTM A370
Qualification Test	API 6A 17D PR2 and 17G	Hardness Testing	ASTM E10 / ASTM E18
Ultrasonic	API 6A PSL 3	Magnetic Particle	API 6A PSL 3
Dye Penetrant	API 6A PSL 3	Radiography	As required (Weld)
Corrosion Testing	ASTM G48 Method A		
WITNESS REQUIREMENTS			
Customer Witness	Available on request	Third Party Witness	Available at additional cost
PAINTING REQUIREMENTS			
Painting Specification	NORSOK M501	Colour	ROV Interface: RAL 2004
NOTES / ADDITIONAL REQUIREMENTS			
These figures are based on known and estimated data. Secc reserves the right to change specifications without notice.			

FEATURES

Quick Connect Disconnect (QCDC) and Emergency Quick Disconnect (EQD) Coupling

- Passive EQD (hydraulic option available)
- Plug and play QCDC – Fully reconnectable subsea
- ROV, diver or winch operable
- Zero fluid loss during connection or disconnection
- Up to 15,000 psi working pressure
- Full bore – **HIGHFLOW** rates achievable
- Pressure balanced dual barrier sealing technology
- DNV qualified to API 6A 17D PSL3 PR2 and API 17G

The ALTUM QCDC combines EQD and QCDC functionality in a single connector. As the Mk3 evolution of the HMHB, it incorporates lessons from test data, field experience and customer feedback to deliver enhanced performance and reliability.

Suitable for subsea or topside applications, the ALTUM QCDC is designed to mechanically disconnect following loss of vessel dynamic positioning (DP), including under full working pressure, without fluid loss or line contamination. This provides enhanced protection for personnel, equipment and the environment.

Fully Valved, Pressure-Balanced QCDC

The ALTUM QCDC is designed to enable efficient pumping / transfer of fluids while providing a reliable safety system.

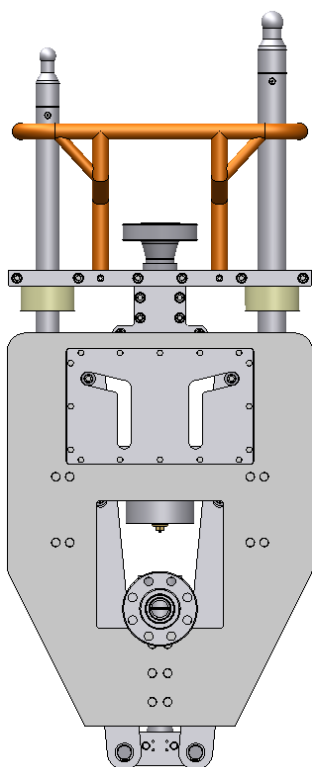


Figure 1 - Disconnected

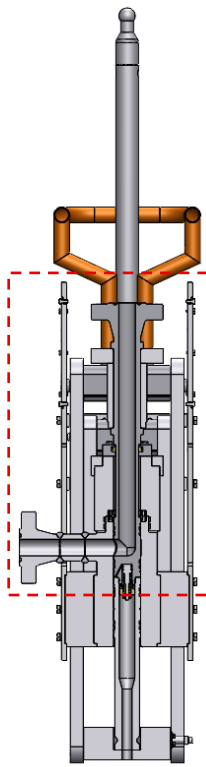


Figure 2 - Connected

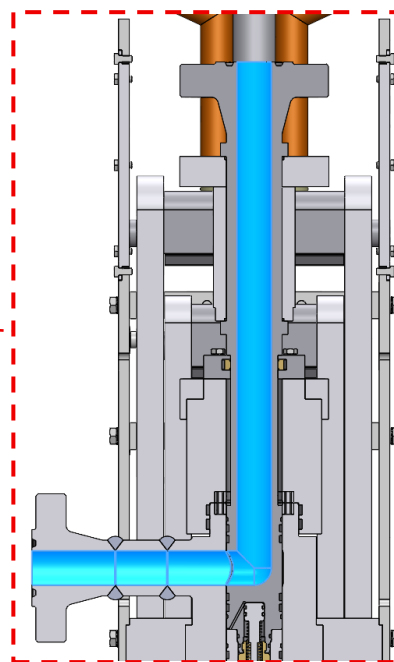


Figure 3 - Connected Flow Path