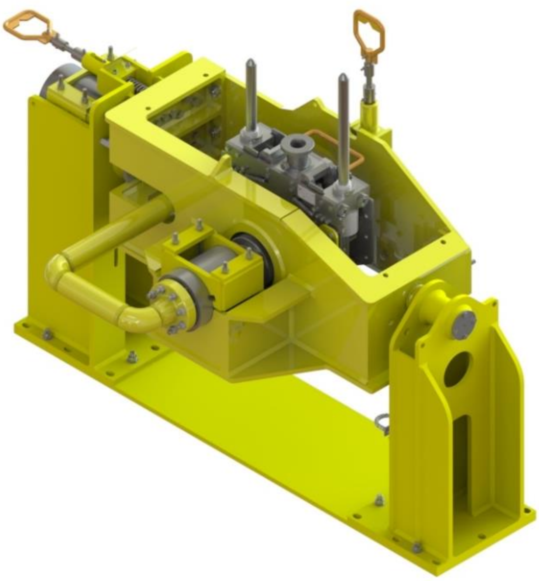


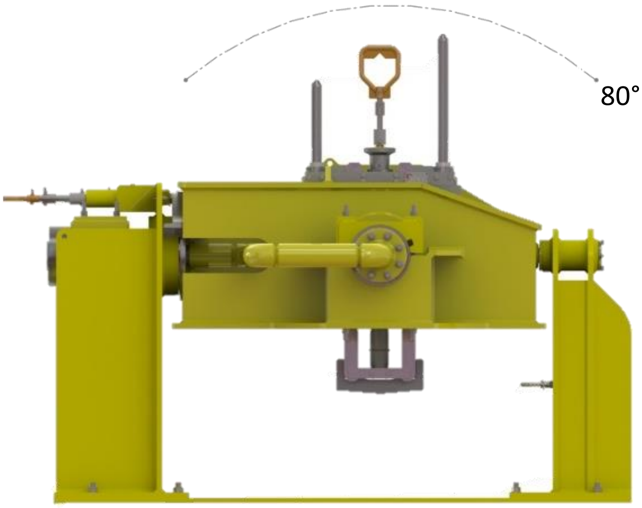
Gimbal Swivel System

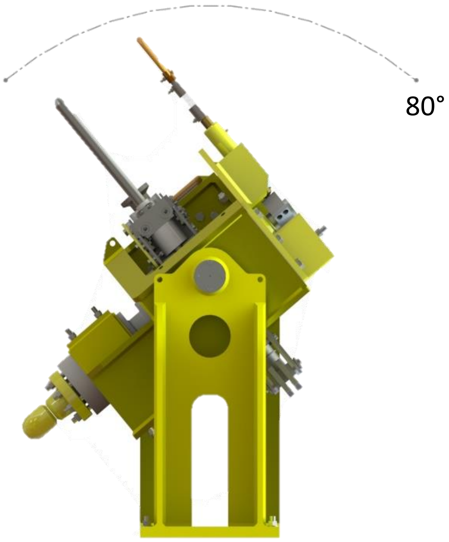
Technical Datasheet

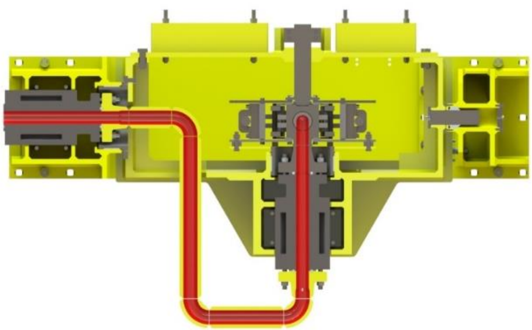
Gimbal Swivel System - Datasheet

DESIGN BASICS			
Coupling Type	Compatible with HOT MAKE HOT BREAK QCDC		
Coupling Size	1” to 4”		
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 HH in accordance with NACE MR0175. AA-FF also available		
Quality Assurance	ISO 9001:2015 and full traceability		
Certification Level	EN 10204 3.1 (EN 10204 3.2 available on request)		
Operational	Manually-rotates from external forces		
Torque to Operate	Specific to counterweights		
Orientation	Vertical or horizontal		
Installation	Fixed to client asset		
Alignment Method	Guide probes and guide funnels		
Design Life	25 years (metallic components)		
Additional Options	Proximity switches and directional control valves		
PERFORMANCE			
Max. Bending Moment	3.75 kNm	**Maximum Torque**	3.75 kNm
Swivel Rotation	X-Axis = 80°, Y-Axis= 80°		
BASIC WEIGHT AND DIMENSIONS			
Gimbal dimensions	1682 mm (H) x 2379 mm (W) x 1304 mm (D)	**Gimbal Mass**	~1615 kg
CONNECTION DETAILS			
Inlet Connection	2 1/16 10K API Flange (other end connections available)		
Outlet Connection	2 1/16 10K API Flange (other end connections available)		
MATERIALS			
Swivel Pipework	Inconel 625	**Elastomeric Seals**	FFKM (FKM or HNBR available)
Framework	Carbon Steel	**Bolting (Studs)**	A4 Stainless Steel
Handle	Stainless Steel 316	**Bolting (Nuts)**	A4 Stainless Steel
TESTING REQUIREMENTS			
Pressure Test	API 6A PSL 3	**Impact Testing**	ASTM A370
Qualification Test	API 6A 17D PR2 (OEC)	**Hardness Testing**	ASTM E10 / ASTM E18
Ultrasonic	API 6A PSL 3	**Magnetic Particle**	API 6A PSL 3
Dye Penetrant	API 6A PS L3	**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 M-501 System 7	**Colour**	YELLOW – RAL 1004 ORANGE – RAL 2004 (handles)
NOTES / ADDITIONAL REQUIREMENTS			

These figures are based on known and estimated data. Secc reserves the right to change specifications without notice.







Secc's Gimbal Swivel system offers operators increased movement around fixed connections without the use of non-metallic flexible joints. This increased movement can enable operators to manipulate hoses without fatigue or damage within practicable limits. Providing pre-determined freedom of operation to suit the hoses, associated loads, references points and operations.

Paired with Secc EQD (Emergency Disconnect) Coupling technology (HMHB - Hot Make Hot Break). This provides the ultimate EQD system.

Preventing damage, increasing operational scope and protecting the environment.

The Gimbal allows 80° movement around the X and Z-Axis.

Mechanical stops can be adjusted to suit the transfer system.

Direction control valves (DCV) facilitate autonomous actuation in the event the rotation of movement is exceeded.

The system is full bore throughout.

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CYGNET GROUP COMPANY