

TAKING subsea automation TO NEW DEPTHS



CALM BUOY

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SUPREME INTEGRATED
TECHNOLOGY, INC.

SUBSEA POWER, AUTOMATION & VALVE CONTROL

Single source responsibility from design to start-up

- Central Control for any number of valves
- Pressure Vessels and accumulators ASME/ABS Certified
- Remote or Local PLC based control logic options
- Temperature compensated design
- Redundant electric motors and hydraulic pumps
- DNV lifting frame available

From concept to creation we drive efficiency through integrated design methods that provide a competitive edge for our clients.

GWC FORGED TRUNNION MOUNTED BALL VALVES WELDED BODY

GWC produces a full line of API-6D Trunnion Mounted Ball Valves Welded Body design. In a full range of materials in carbon, alloy and stainless steel from general to severe in application, including sub sea.

SPECIFICATIONS

- Size Range: 2"- 64"
- Pressure Class: ASME 150-1500
- API Standards (6D, 6D SS) and ASME B16.34

FEATURES

- 1-Piece Body
- Full and Reduced Bore
- Trunnion Mounted
- Double Block and Bleed
- Blow Out Stem
- Static Device
- Firesafe to API-607/6FA
- Spring Loaded Seats
- Sealant Injection
- NACE MR-01-75

EMERSON POSITION INDICATION SWITCH OPTION

Non-contact indicator switches

LEVER-LESS LIMIT SWITCH

Single Pole-Double Throw switch mechanism which requires no power no physical contact to operate. The switch detects the position of a ferrous target via an electro-magnetic field.

INDUCTIVE PROXIMITY SWITCH

Direct Current (DC) powered inductive position sensor which outputs mA current based on ferrous target detection. No physical contact required between sensor and target.

SHAFER DIVER FRIENDLY SUBSEA VALVE ACTUATORS

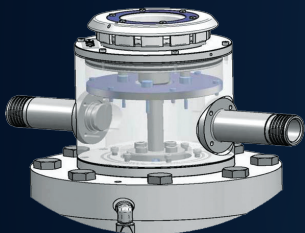
SPECIFICATIONS

- 40 years in the market
- Compact (balanced torque) Rotary Dual Vane Design
- Double-Acting Operation
- Diver-activated quick connect/disconnect design option
- Non-compensated, at depths up to 3000 feet (1000 Meters)
- Purging (flushing) and by-pass valving for initial commissioning or remounting subsea

HYDRAULICALLY ACTUATED
500 to 3000 PSI

TORQUE
Double-Acting 565,000 Nm / 5,000,000 lb-in

DEPTHS
Designed to client specifications



CHAMPALLE-ALCEN TELEMETRY SYSTEM

Stand-alone system which provides all operation and system data to aid in offloading operations at both Onshore (Oil Terminal) and on the tanker.

SPECIFICATIONS

- RTU (Remote Telemetry Unit) split into RTU-A and RTU-B which both interface to physical I/O signals
- Power System (Solar Panels, Battery Box, Control Module) for Autonomy
- NavAids (Fog Detector, Fog Horn, Marine Lantern, Berthing aids, etc.)
- Complete CALM instrumentation (Gas Detector and Flame Detector for Safety, Load Pins for mooring hawser tension monitoring, Product Pressure Transmitter, Level Transmitter, Product Flow Transmitter, etc.)

FEATURES

- PLC base design for no proprietary hardware technology purpose
- RTU equipment: Local Control Panel and Battery Box on turntable and others in buoy fixed compartment area
- DGPS Base station
- MTU PLC cabinet with Touchscreen HMI for CALM Buoy historical display
- PTU with Wireless Mobile Device (HMI)
- Redundant Radio systems between MTU/RTU/PTU



DANTORQUE SUBSEA VALVE ACTUATORS

SPECIFICATIONS

- 28 years in the market
- Compact and concentric (balanced torque) design
- ROV interface, ISO 13628 / API 17D
- ROV clutch clamp design for deep water installation
- Double-Acting, Helical Spline Gear design
- Single-Acting, Fail-Safe (Open/Close), Spring-Return Operation

HYDRAULICALLY ACTUATED

103 to 210 Bar

TORQUE

Double-Acting, 403,000 Nm / 3,600,000 lb-in

Single-Acting, 182,500 Nm / 1,616,000 lb-in

DEPTHS

Designed to client specifications



With over 50 years of experience in multiple disciplines, SIT can overcome rigorous requirements for demanding applications.

BETTIS GS - SERIES SCOTCH YOKE SUBSEA VALVE ACTUATOR

SPECIFICATIONS

- 40 years in the market
- Powr-Swivl™
- Tension-Lok™
- Double-Acting and Spring Return
- ROV Interface, ISO 13628 / API 17D

HYDRAULICALLY ACTUATED

135 to 210 Bar (2,000 to 3,000 PSI) Optional 5000 PSI Design

TORQUE

Double-Acting, 687,000 Nm / 6,000,000 lb-in

Single-Acting, 339,000 Nm / 3,000,000 lb-in

DEPTHS

Designed to client specifications



SUBSEA applications

- Valve control on subsea tieback installations
- Valve control on subsea pipelines
- Valve control on riser installations
- FPSO automated turret manifold valves
- Platform ballast valves
- Valve control on SSIV skids

why partner with SUPREME INTEGRATED TECHNOLOGY

- Turnkey system integration solutions
- 75 years of COMBINED subsea application experience
- Shallow and ultra-deep water capabilities
- Global life cycle support
- System customization to meet extreme applications
- Single source responsibility from design to start-up



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