



A Product of:



## ELECTRO-HYDRAULIC CONTROL SYSTEM FOR QUARTER-TURN, LINEAR, ON/OFF AND MODULATING VALVES

- ✓ Improve performance and reliability with a self-contained, zero emissions, electro-hydraulic system with battery backup and manual override.
- ✓ Provides complete visibility of valve position and offers secure remote control to open/close or modulating valves, or can be operated from existing PLC.
- ✓ Ability to connect multiple external devices to read transducers, tank level sensors, temperature sensors, limit switches, etc. The system can use any of these inputs to trigger ESD or operate up to 8 valves as an RTU.
- ✓ Self-diagnostics condition-based monitoring and maintenance are carried out via SCADA or Modbus RS 485 Protocol, or can be paired with an add-on Telemetry Pack.

### CONTACT US TODAY!

CONTACT@VOLTAESD.COM  
337-608-8824

VOLTAESD.COM



Volta Remote  
Mount NEMA 4

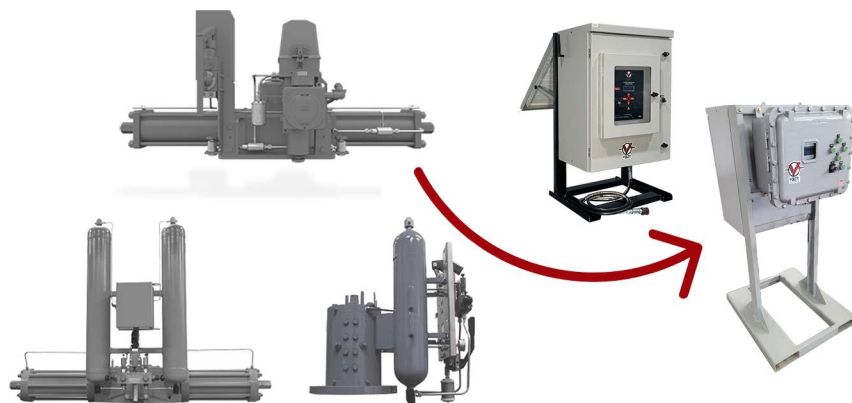


Autonomous  
Solar/Solar Backup



Volta "D2"  
Class 1, Div. 2  
(Optional Class 1, Div. 1)

# FOR QUARTER-TURN, LINEAR, ON/OFF AND MODULATING VALVES PIPELINE ESD CONTROL SYSTEM



**OPERATION** -The Volta Control System integrates an microprocessor controller with an electro-hydraulic pump allowing for the remote operation of a hydraulically actuated valve or system of valves.

**SELF-DIAGNOSTICS**-Continuous monitoring and recording of numerous parameters including valve position, hydraulic actuator pressure, and battery voltage. Partial stroke testing ensures reliability. The system is designed to allow the operator to read all inputs on the system locally as well as remotely via Modbus or SCADA protocol. (Optional package adds TCP/IP, HART) (1)

**CONTINUOUS HYDRAULIC PRESSURE COMPENSATION**-Monitoring of the actuator pressure allows the system to adjust for pressure decreases due to temperature swings, automatically increasing the pressure and eliminating what is known as "valve creep" or false trips.

**LINE PRESSURE MONITORING**-ESD Control System has 4 analog inputs, along with 8 digital inputs and 6 digital outputs available for line pressure monitoring and other sensor inputs including limit switches, transducers, temperature transmitters or level sensors. Expansion available.

**DATA ACQUISITION**-Both the real-time data of the valve position and the system diagnostics are transferred via SCADA with the Mod bus equipment, or add-on Telemetry Package including 4G-LTE or Satellite.

**SUITABLE FOR LOCATIONS WITHOUT POWER**-The low-power system operates on an 12-24-volt power w/battery backup that is easily recharged using on-site power if available or standard solar package. (Optional transformer: 120Vac, 220Vac, 480Vac)

## SIL2 CERTIFIED

Guarantees the security of the system.

1. The HART Protocol and TCP/IP require additional low-cost modules.

2. Optional Low-Temp to -50F



Maximizes well production, avoiding unplanned well closures.



Quick and easy installation



Eliminates constant inspection and maintenance visits.



Reduces CO2 emissions.

## STANDARD SPECIFICATIONS

Base	24 x 32 in (88 x 80 cm)
Height	67 in (170 cm)
Weight	207 lb (94 kg)
Hydraulic Connection	Tube x Hose
Hydraulic Outlet Pressure	300 to 3,000 PSI (1 to 207 b)
Oil Volume	.8 Gal. to 9+ Gal.
Operating Temperature	-20 to 140°F (2)
Electric Power	12/24Vdc, Battery and Solar
Communications	Modbus, RS 485 (Std) TCP/IP, HART, USB, 4G-or Satellite (Opt)
Modulation Accuracy	.+- .016%
SIL	SIL2 Certificate
Memory Capacity	> 6 months