Volta Models (Quick Reference)

Volta N4 - Standard Displacement

- On/Off or Modulating Operation
- NEMA 4 IP66, remote mounted or non-area classified. Standard RTU with HMI; solar or grid powered. Standard 12/24 Vdc; optional 110/220 Vac or 480 Vac 3-phase. Double-acting or single-acting; onboard battery can convert double-acting to fail-safe.

Volta N4 - Large Displacement

- On/Off Operation
- NEMA 4 IP66, remote mounted or non-area classified. Standard RTU with HMI; solar or grid powered. Standard 24 Vdc; optional 110/220 Vac or 480 Vac 3-phase. Double-acting or single-acting; onboard battery fail-safe conversion. Optional adjustbale quick open/close on Spring-Return units.

Volta D2 - Class I, Division 2

- On/Off or Modulating Operation
- Class I, Div. 2; standard RTU with HMI. Standard 24 Vdc; optional 110/220 Vac or 480 Vac 3-phase. Double-acting, onboard battery fail-safe conversion. Onboard 4-20 mA input and feedback calibration with fine/coarse adjustment; internally powered (no loop power required). Modulating accuracy in most cases: 0.01% full scale.
- Optional Class I, Division 1.

Volta-BZ - Below Zero

- On/Off or Modulating Operation
- Designed for low-temperature operation to -40 F. NEMA 4 IP66, remote mounted or non-area classified. Standard Siemens RTU with HMI. Standard 12/24 Vdc; optional 110/220 Vac or 480 Vac 3-phase. Double-acting or single-acting; onboard battery fail-safe conversion.

Volta - Lite

- Small-displacement basic On/Off (suitable for up to 12-16 in., Class 600).
- Class I, Div. 2; push-button operation with local/remote selector. Standard 24 Vdc; optional 120 Vac. Single-acting fail-safe.
- Priced approximately the same as the N4 remote-mount system, with standard Class I, Div. 2 classification.

Volta-TLP - Autonomous Pig Launching/Receiving System

- Integrated electro-hydraulic control for pig launcher, kicker, and bypass valves.
- Supports automated scheduling and sequencing, as well as manual operation; valve position feedback, pig-launch verification, leak detection, and partial-stroke testing.
- System diagnostics and status reporting; Modbus TCP/IP communications and USB firmware updates. Integration options include Moxa, Cisco, Starlink, and FreeWave communications equipment.

Volta Solar - No Grid Power Remote Applications

- Autonomous solar power solution for Volta electro-hydraulic control systems; solar backup available for grid-powered installations.
- Solar skid can also support site communications and measurement equipment, subject to project-specific load and storage sizing.
- Solar array, battery capacity, and charge-control configuration are selected based on application power demand and site conditions.

Volta Standards

- Volta control systems work with gas/oil, hydraulic, and direct-gas actuator brands and models.
- Autonomous solar operation and solar backup are available subject to application-specific configuration.
- All models use low-voltage brushless DC motors.
- All models except Volta Lite include an onboard RTU (Modbus RS-485, dry contact, or analog).

- Volta Lite uses push-button Open/Close and Local/Remote operation with status lights.
- Hydraulic fluid: ExxonMobil Univis HVI 13, rated to -76 F (-60 C).
- 12-month warranty from installation/18 months from ship date; onsite commissioning included in the continental USA.

Ask About Other Options

- Loop-powered instrumentation integration
- Customer communication integration
- Modbus-to-analog integration
- Modbus RS-485-to-TCP/IP gateway integration