

# VOLTA ZERO-EMISSIONS RETROFIT



**Team Volta is comprised of experts in Valves & Automation, Process Controls, Programming, IOT, Electrical, Mechanical and Fluid Power Engineering. Our Goal: Build a Zero-Emissions product that can not only replace Pneumatics, Direct Gas and Gas Over Oil, but could provide field retrofit to existing High-Emission control systems and convert them to Zero-Emissions. Our Goal, Our Responsibility=Your Solution.**

## HOW DOES VOLTA ACHIEVE ZERO-EMISSIONS?

We simply take your existing pipeline actuator (direct gas, gas over oil or rotary vane style actuator, remove all controls, volume tanks and replace with the Volta control system. -No more DOT quarterly inspections, just zero emissions.

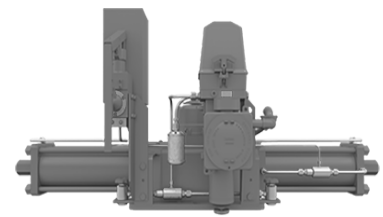
The aforementioned styles of actuator use high-pressure rated cylinders and can be converted to electro-hydraulic. This allows the end user to keep the valve, actuator and just replace the controls. The retrofit process with Volta lowers the cost of zero-emissions conversion by not replacing the complete actuator and adaptation hardware on the valve.

## WHAT INFORMATION IS REQUIRED?

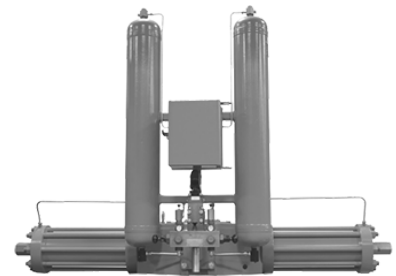
- What Brand/Model is your existing actuator?
- What is the displacement of the high-pressure cylinder?
  - Used to determine if a Standard or High Displacement Volta is required.
- What is the MAOP of the cylinder (Maximum Allowable Working Pressure)
  - Used to configure Volta Hydraulic System, Relief Valve Setting and Pump Control pressure.
- Will Volta be standalone Solar Powered? Or grid tied?
  - Volta is a 12-24VDC powered unit with Solar & Battery Storage. By adding Grid tied voltage it allows Volta to be charged via Solar with grid voltage as the back up. Volta automatically switches between solar and grid, so you're never without power.
  - In stand-alone units w/Solar only, we need to know geographical location. This allows us to size Battery Storage based on number of hours/days of sun as well as customers required standby capacity.
- If the unit is grid tied, what voltage do you have available?
  - Volta can accept 12/24Vdc, (Optional transformer for 120/220 1Ph, 480V 3ph).
- Do you have communications? Modbus/RS-485 Standard. (Optional TCP/IP, HART or RS-232 with ad-don Telemetry package. Volta is also available in 4G-LTE or Satellite. Volta 4G-LTE (connects to Verizon, AT&T, T-Mobile, US Cellular depending on signal).

## TYPES OF ACTUATORS VOLTA CAN CONVERT:

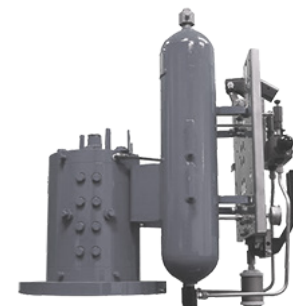
### DIRECT GAS



### GAS/OIL



### ROTARY VANE



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## WHAT IF I WANT TO KEEP MY EXISTING LOW VOLTAGE OR HYDRAULIC CONTROLS?

Volta can be used as a stand-alone HPU, self-powered and provide high-pressure hydraulic pressure to your existing controls.

## WHAT IS THE INSTALLATION PROCESS?

It's simple, it can be performed by most I/E Technicians in under 2 hours.

- It involves removing the controls off the existing actuator.
- Installing a Volta provided Limit Switch on the existing actuator and wiring it back to the terminals inside Volta.
- Attaching the Hydraulic Lines to the pressure port(s) of existing actuator.

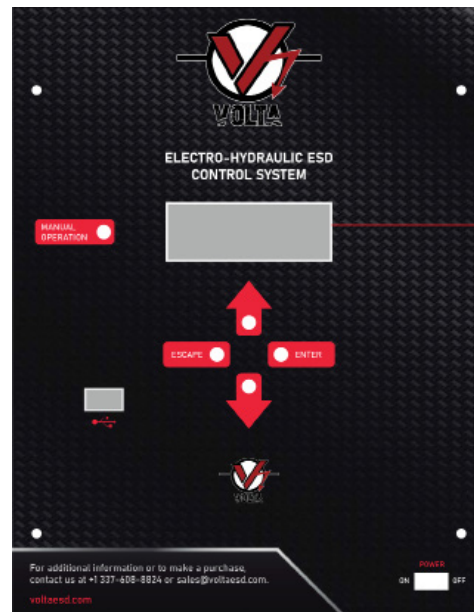
**JUST LIKE THAT, YOU'RE ON YOUR WAY TO ZERO-EMISSIONS.**

## VOLTA CONTROL SYSTEM



**NEMA 4X Shown**  
Also Available in Class 1, Div. 2

## VOLTA HMI USER INTERFACE



A Product of  
Southern Valve & Control, LLC.

**VISIT [VOLTAESD.COM](http://VOLTAESD.COM) FOR COMPLETE LIST OF FEATURES AND CAPABILITIES.**