

Electric Actuators
Valvcon® ADC-Series
with Optional Back-Up Power

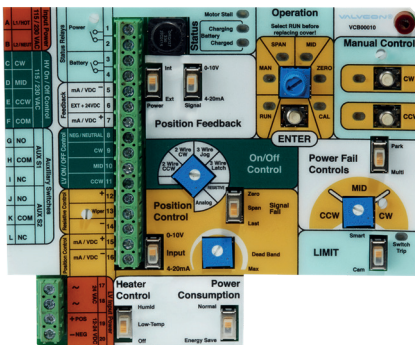


Providing
unparalleled
versatility of
power and
control options

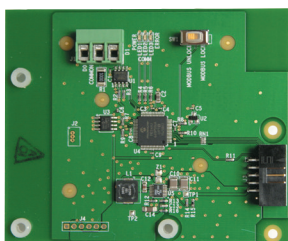




A Tradition of Innovation



Universal on/off / modulating board



MODBUS® communications board (optional)

Metso is a leading designer and provider of compact, reliable, electronically controlled electric actuators for valves and dampers. We offer a complete line of *Valvcon* electric actuators for accurate positioning of dampers and valves in the aerospace, automotive, consumer services, discrete manufacturing, energy, environmental, oil/pipeline, petrochemical, power/utilities, process, recreation, transportation, and water/wastewater industries.

Metso has developed and introduced the industry's most innovative products, including simple "set and go" calibration, intelligent processor-based digital electronics, "Plug-in" accessory boards, "Fail-Safe" actuators, as well as electric actuators designed for remote, solar-powered applications and two-wire network applications. Metso has built its reputation and success on the ability to

envision, implement, and deliver innovative actuator technology products and services to support emerging market requirements. As emerging technologies and market needs continue to evolve, Metso will lead the way with high quality *Valvcon* actuators that exceed industry expectations and further refine the valve actuation process.

ADC-Series actuators with optional back-up power are field-settable for "fail clockwise" or "fail counter clockwise"



Other Valvcon Actuators

V-Series

- Up to 3000 inch pounds (250 lb-ft; 339 Nm) for On/Off, Modulating or Automatic Cycling applications
- 115VAC and 230VAC voltages
- 75% Duty Cycle (55% on 3000 lb-in models)
- NEMA 4/4X and NEMA 4/4X/7&9 enclosures
- CSA (C US) Certified
- CE Compliant
- Certified to ATEX Directive 94/9/EC: Ex d IIB T6 Gb, and IECEx CSA 14.0057X ("WX" models only)
- Standard Features: manual override and visual position indicator
- Available Options: Modulating Control Board, Speed Control/Timer Board, Iso/Readback Board, extra limit switches, heater/thermostats, motor brake, feedback potentiometer, metric and "keyed" female outputs and handwheel override

I-Series Network Capable

- MODBUS®
- AS-Interface
- DeviceNet™
- Foundation Fieldbus
- Other fieldbus protocols (consult factory)
- CSA Certified to Canadian & U.S. standards

Q6-Series for Remote Solar Applications

- 600 inch pounds (50 lb-ft; 68 Nm)
- 12VDC
- Low current draw
- 80% Duty Cycle
- NEMA 4/4X/7&9
- CSA (C US) Certified

QX-Series for Economical DC-Powered On/Off Applications

- Up to 3000 inch pounds (250 lb-ft; 339 Nm) for On/Off applications
- Economical NEMA 4/4X/7&9 solution
- 12VDC & 24VDC voltages
- 80% Duty Cycle
- CSA (C US) Certified
- Standard Features: auxiliary limit switches, dynamic brake, manual override and visual position indicator
- Available Options: metric and "keyed" female outputs, heater/thermostats and handwheel override

Optional Internal Battery Back-Up

Valvcon ADC-Series electric actuators provide up to 3000 inch pounds (250 lb-ft; 339 Nm) of torque and can be equipped with internal back-up power to allow you to safely shut down your system in the event of an external power loss. Engineered to supply dependable valve and damper actuation, they can provide up to 10 complete cycles under their own internal power!

The universal ADC-Series PC board includes both on/off and modulating functionality, and accepts both AC and DC power inputs. The optional back-up power feature incorporates an internal battery pack that plugs right in to the PC board, which includes a built-in charging circuit, all fitting in the standard enclosure. Upon loss of external power the battery automatically activates as the main power supply and can immediately drive the actuator to a designated safe position or continue to respond to a control signal, if present.

"Optional internal battery pack allows for continued modulation during power outages, provided the control signal remains."



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