

VALVCON™ Q6-SERIES ELECTRIC ACTUATOR FOR SPECIAL APPLICATIONS, OIL FIELD

Neles is a leading designer and provider of Valvcon™ compact, reliable, electronically controlled electric actuators for valves and dampers. We offer a complete line of 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.

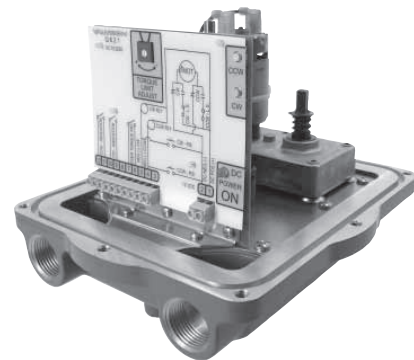
We have developed and introduced the industry's most innovative Neles Valvcon™ electric actuator products, including simple "set and go" calibration, intelligent processor-based digital electronics, "Plug-in" accessory boards, Back-Up Power actuators, as well as electric actuators designed for remote control, solar-powered applications and two-wire network applications.

FEATURES AND BENEFITS

The Valvcon™ Q6-Series actuator was designed for use in remote, solar powered locations. The low current draw DC motor, built in dual relays, lightning surge protection, and NEMA 4/4X/7&9 enclosure make this product suitable for use in oil and gas fields, off shore rigs, remote skids, and many other applications and locations. The actuator is DC powered and has a torque range up to 600 in-lb (50 lb-ft; 68 Nm). The Q6 models are available in two styles, depending on which options are required.

Isolation and Electrical

Internal electronic control boards will have clearly marked connection terminals for Power and Control connections to prevent miswiring. Electronic boards will include an insulating overlay containing easy to follow wiring information. All connections will plug-in or be hardwired to simplify field repairs. No maintenance is required.



Motor

The internal electric motor is a brushed DC type, capable of 80% duty cycle at full torque, at ambient temperature at or below 104° F.

Lubrication

All rotating power train components are coated with a multi-purpose grease. Lubricants are suitable for ambient conditions of -40° F to 150° F.

Gearing

The power train is comprised of hardened steel, machine cut spur gears. Non-metallic, aluminum, cast or stamped gearing is not used.

Limit Switches

Actuators have two standard end-of-travel switches, single pole double throw, rated at 11 amps at 250 VAC. The limit switches are adjustable to operate at any position as required by the process application.

On/Off (Open/Close) Operation

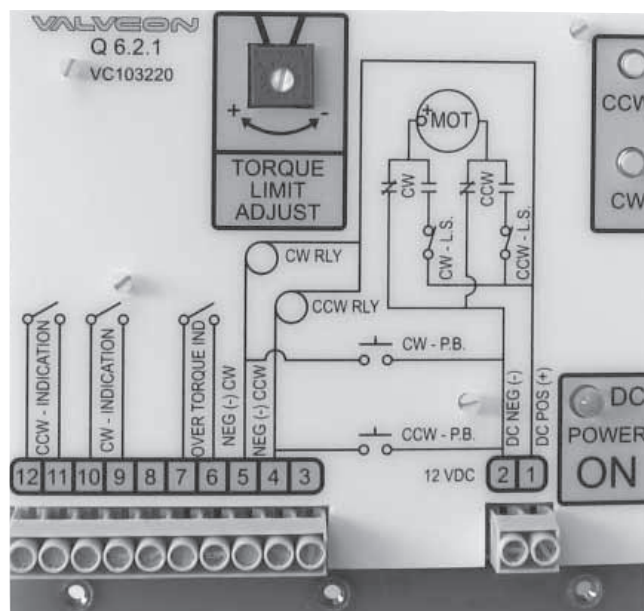
Open/Close actuators are controlled by two contacts, one for driving in the clockwise direction and one for driving in the counter-clockwise direction. The Control voltage may be removed mid-stroke to position the valve.

Breakaway Torque

Designed for efficiency and reliability, all Neles Valvcon™ actuators deliver the power you need when and where it is needed. With efficient gear trains and motors these actuators are rated at breakaway torque. Immediately upon power up, the actuator supplies the rated torque — when it is needed to break the valve away from its seat. Other manufacturer's actuators may be rated at running torque, but actually deliver significantly less breakaway torque.

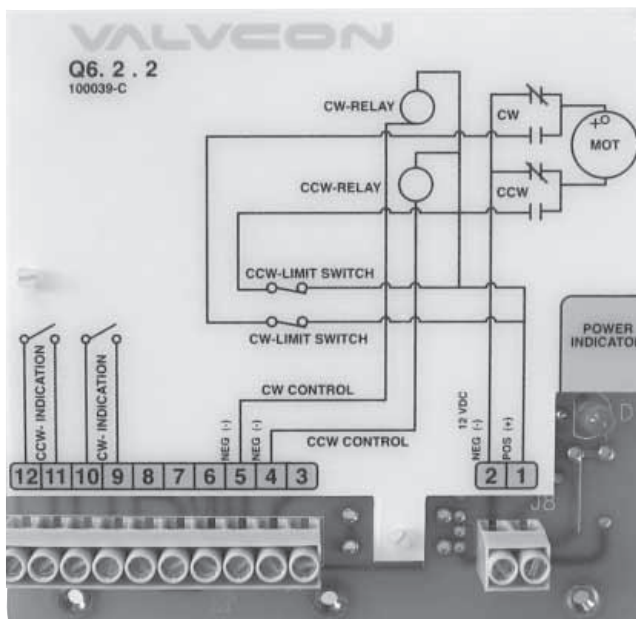
COMMON FEATURES AT A GLANCE!

- ☐ Ideal for Remote, Solar Power Locations using RTUs
- ☐ Built-in Dual Relays Provide Signal Isolation
- ☐ Low current draw
- ☐ Two auxiliary limit switches
- ☐ One PC board (motherboard only)
- ☐ LED input power indicator
- ☐ ISO 5211 Mounting
- ☐ CSA Approved



OPTIONAL FEATURES (Q6.2.1 AND Q6.2.3 ONLY)

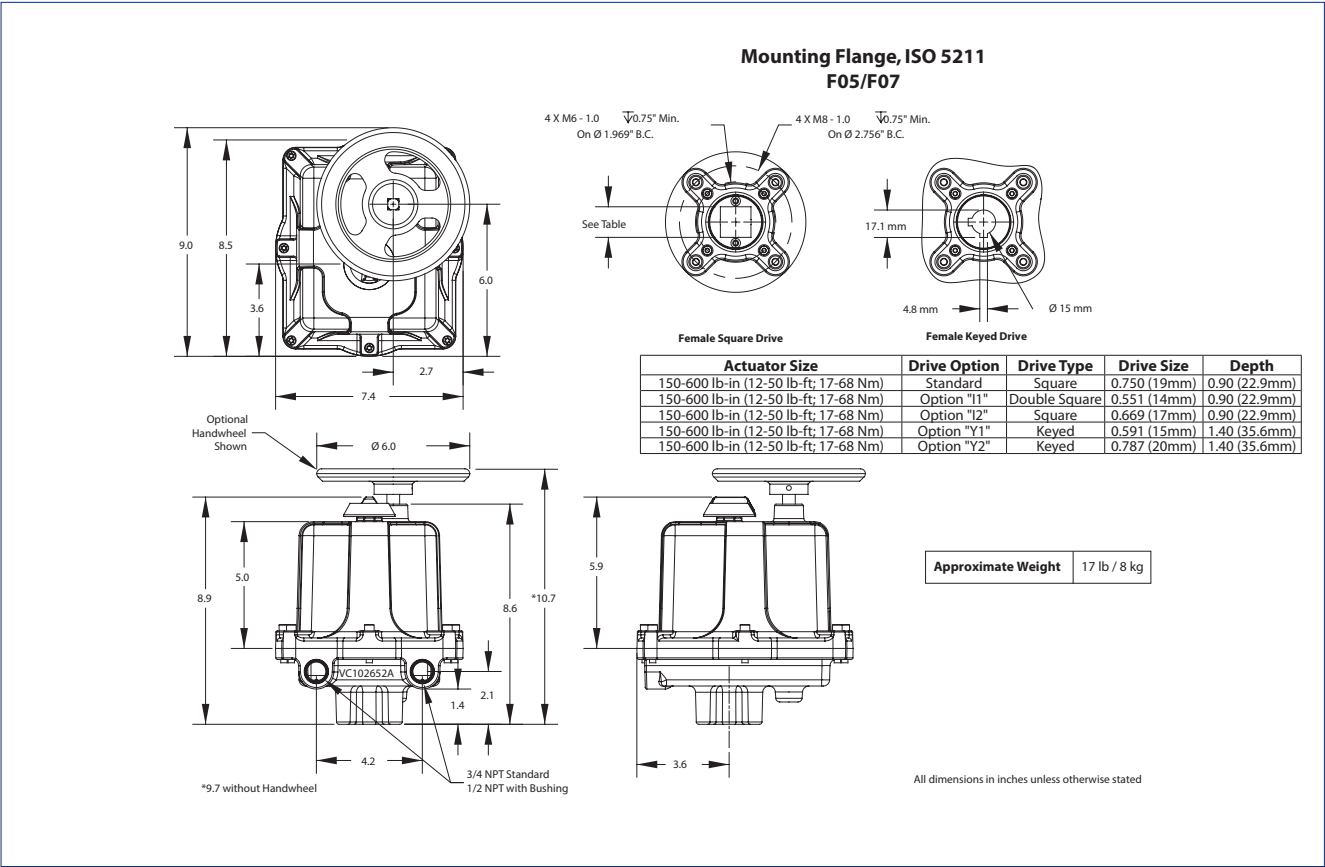
- ☐ Transient voltage protection
- ☐ Adjustable torque switch
- ☐ Manual push button control



Q6-SERIES DATA

Series	Torque	Voltage (VDC)	Amp Draw (running)	Amp Draw (idle)	Cycle Time (90 degrees)	Duty Cycle	Operation	Enclosure	Temp. Range
Q6	150 lb-in; 12 lb-ft; 17 Nm to 600 lb-in; 50 lb-ft; 68 Nm	12	.3 (no load) 1.3 (full load)	3mA	15 seconds	80%	Reversing	NEMA 4/4X/7&9	-40 - 150°F

Q6-SERIES ENCLOSURE



ALL DIMENSIONS IN INCHES

Committed to Customer Service

Neles worldwide web site: www.neles.com/products/actuators/electric-actuators/, provides 24 hour a day access to all technical support material - from sales brochures to instruction manuals to installation and troubleshooting tips. For local support, our network of trained stocking distributors/representatives are industry leading experts in valve automation. Visit the Neles, Valvcon™ product web site to locate the nearest stocking distributor/representative.

Timely Technical Support

Neles Product Support is on call to answer your engineering or application questions, and to quickly repair or upgrade your actuators. These highly trained support engineers offer a broad range of expertise, with the combined experience to assist specifying engineers and contractors with information on feasibility and special applications.

A Tradition of Quality

Neles is dedicated to producing superior-quality products that are second to none. Our development laboratory and manufacturing facilities exemplify our total commitment to producing quality products.

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Reinventing
reliability