



The essentials

Be it for common flow control in a thermal power plant, in a water treatment plant, for ventilation systems or for any other kind of industrial applications, you need a compact, simple and reliable electric actuation solution.

In case of **moderate environmental and operational constraints**, BERNARD CONTROLS has created the FIRST BC label to identify products and solutions which offer to users **the Essentials**: the key functions to operate your valve safely and efficiently in case of **standard applications**.

In 2017, the FIRST BC label turns over a new leaf with the launch of product ranges with a brand new design - compact and optimized for their use. The quarter-turn applications can now be addressed with the **AQ range**. These electric actuators are even more closer to standard actuation needs of the power, water or various industry applications than the previous FIRST BC generation. Learn more in this brochure.



BERNARD CONTROLS GROUP

CORPORATE HEADQUARTERS

4 rue d'Arsonval - CS 70091 / 95505 Gonesse CEDEX France / Tel. : +33 (0)1 34 07 71 00 / Fax : +33 (0)1 34 07 71 01 / mail@bernardcontrols.com

CONTACT BY OPERATING AREAS

>AMERICAS

NORTH AMERICA
BERNARD CONTROLS UNITED STATES
HOUSTON
inquiry.usa@bernardcontrols.com
Tel. +1 281 578 66 66

SOUTH AMERICA
BERNARD CONTROLS LATIN AMERICA
inquiry.southamerica@bernardcontrols.com
Tel. +1 281 578 66 66

>ASIA

CHINA
BERNARD CONTROLS CHINA &
BERNARD CONTROLS CHINA NUCLEAR
BEIJING
inquiry.china@bernardcontrols.com
Tel. +86 (0) 10 6789 2861

KOREA
BERNARD CONTROLS KOREA
SEOUL
inquiry.korea@bernardcontrols.com
Tel. +82 (0)2 2183 6226

SINGAPORE
BERNARD CONTROLS SINGAPORE
SINGAPORE
inquiry.singapore@bernardcontrols.com
Tel. +65 65 654 227

>EUROPE

BELGIUM
BERNARD CONTROLS BENELUX
NIVELLES (BRUSSELS)
inquiry.belgium@bernardcontrols.com
inquiry.holland@bernardcontrols.com
Tel. +32 (0)2 343 41 22

FRANCE
BERNARD CONTROLS FRANCE &
BERNARD CONTROLS NUCLEAR FRANCE
GONESSE (PARIS)
inquiry.france@bernardcontrols.com
Tel. +33 (0)1 34 07 71 00

GERMANY
BERNARD CONTROLS DEUFRA
TROISDORF (KÖLN)
inquiry.germany@bernardcontrols.com
Tel. +49 2241 9834 0

ITALY
BERNARD CONTROLS ITALIA
RHO (MILANO)
inquiry.italy@bernardcontrols.com
Tel. +39 02 931 85 233

RUSSIA
BERNARD CONTROLS RUSSIA
inquiry.russia@bernardcontrols.com
Tel. +33 (0)1 34 07 71 00

SPAIN
BERNARD CONTROLS SPAIN
MADRID
inquiry.spain@bernardcontrols.com
Tel. +34 91 30 41 139

UNITED KINGDOM

BERNARD CONTROLS UNITED KINGDOM
inquiry.uk@bernardcontrols.com
Tel. +44 (0)7435 266310

>INDIA, MIDDLE EAST & AFRICA

AFRICA
BERNARD CONTROLS AFRICA
ABIDJAN - IVORY COAST
inquiry.africa@bernardcontrols.com
Tel. + 225 21 34 07 82

INDIA
BERNARD CONTROLS INDIA
inquiry.india@bernardcontrols.com
Tel. +971 4 880 0660

MIDDLE-EAST
BERNARD CONTROLS MIDDLE-EAST
DUBAI - U.A.E.

More than 50 agents and distributors worldwide. Contact details on www.bernardcontrols.com

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New

Weatherproof
Quarter-turn Actuators
AQ RANGE

> AQ range

The essentials

for quarter-turn electric actuation



AQ5 - AQ10 - AQ15 - AQ25 - AQ30 - AQ50 - AQ80 -
AQ150 - AQ280 - AQ430 - AQ610 - AQ830 - AQ1000
SWITCH version



AQ5 - AQ10 - AQ15 - AQ25 - AQ30 - AQ50 - AQ80 -
AQ150 - AQ280 - AQ430 - AQ610 - AQ830 - AQ1000
LOGIC version

Product overview

New camblock system

On SWITCH VERSION
Easy set up of the travel limitation system
with a standard screwdriver



Position signaling by 2 LEDs

(green / red configurable LEDs for open / closed)

Heavy duty design

Full aluminium enclosure protected by
durable powder coating !

Cable entries

up to 5 cable entries

Product specifications

- **Adaptation to all quarter-turn valves:**
 - > torque range from 50 to 800 Nm (direct quarter-turn)
 - > up to 200 000 Nm on request
- **Type of Controls**
 - > Electromechanical, SWITCH
 - > Integrated control, LOGIC (v2)
- **BC Duty & Modulating Classification**
 - > On-Off: Class A
 - > Inching/Positioning: Class B
 - > Modulating: Class III
- **IP68**
- **Corrosive environment: C4**
- **Operating temp.: -20...+60°C**
(-40°C as an option)

Mechanical position indicator on all models

Check the position of your valve at a glance



Flange according to ISO 5211
with removable socket

User-friendly local commands

through 2 buttons &
1 padlockable selector

New mobile application BC App

"Set up your actuator and more in a few clicks!"

- > Set up & Operate your actuator using your mobile phone
- > Get access to clear descriptions of alarms, troubleshooting functions, documentation, Bernard Controls Assistance
- > Upload & change the full actuator configuration in one step
- > Even complex settings are made easier



Bluetooth™
communication as standard on new LOGIC

Large LCD display

Easily orientable in a few clicks on the BC App or through local commands



Declutch-free handwheel

- > with motor priority
- > with foldable handle



Product benefits

• Compact & optimized design

- > Super compact design (including integrated controls)
- > Product architecture & torque range adapted to customers' requirements: 13 models from 50 to 10000 Nm
- > Multi-voltage (AC/DC) : suitable whatever your location on the globe
- > Optimized logistics: short delivery time

• Reliable design

- > BERNARD CONTROLS design methodology built-up on the nuclear market highly demanding requirements
- > 80+ years of continuous experience and BC inventor of the compact quarter-turn electric actuator
- > Heavy duty design: full aluminium enclosure protected by durable powder coating, IP68, low temperature option
- > 100% of delivered products are tested with automatic process before delivery
- > S4 Motor Service Duty on all models
- > Suitable for modulating applications (BC Class III complying with EN15714-2 Class C)

• Easy to use

- > Easy commissioning: pre-wired version (1-phase only), set up of travel limitation system with a standard screwdriver...
- > Large LCD display on LOGIC version for user-friendly commissioning and local command. Easily orientable (4-way direction) in few clicks
- > Declutch-free manual override: essential for quick intervention on site
- > BC APP: Bernard Controls new mobile application for setting, operating, troubleshooting and easy access to documentation

• The main functions of integrated control with the new LOGIC control (v2)

- > Turn-key, time & cost-saving solution
- > User-friendly & intuitive
- > Non-intrusive setting for enhanced safety and reliability
- > Compatible with common fieldbus protocols: Modbus RTU, Profibus DPV1.
- > Bluetooth communication (as standard) to communicate with Bernard Controls' BC App



Full range description, product specifications and technical data on BERNARD CONTROLS' website.