



VALVE WORLD 2016
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BERNARD CONTROLS®

by

Welcome to Valve World Expo 2016 edition!

Once again we are pleased to welcome you on booth 3H45, share this key event with you and present new products and company news!

product labels. Finally, a new and unique experience to share with you : a virtual reality workshop! For the past two years, Bernard Controls has been building a new

accompany clients where they are and where they need support. Now that our organization has been shaped to meet customers' needs for support and services, and after a year of intense R&D developments, **Bernard Controls is proud to present the result of a long-lasting customer-oriented R&D Strategy: new products with new performances and specifications that perfectly fit to market demands.** Indeed, a few years after the launch of dedicated ranges for the Oil & Gas market (SQX & STX explosionproof electric actuators), Bernard Controls now focus on the Power-Water-Industry market. The AQ range of quarter-turn electric actuators and the AT multi-turn range are the new generation of the FIRST BC products. The essentials. Learn more on next pages...



BERNARD CONTROLS global Group organization

This year, Bernard Controls is proud to introduce major evolutions: first, the final stage of our global Group organization. Then, and most importantly, the redesign of our product offer with two new ranges that bring new performances within both the FIRST BC and BC PREMIUM

Group organization based on the global-local concept "global partner, local support". As part of our Customer Satisfaction commitment, this organizational pattern embedded in our "Always by your side" promise now reaches its final stage. Indeed, recently, the creation of a new Operating Area 'India, Middle-East, Africa' (IMEA) has confirmed the progresses of our business in the Middle-East region, also supported by the establishment of a new Operating Unit in Ivory Coast, BERNARD CONTROLS Africa. This new area then testifies of our will to



The essentials

For **moderate** environment,
moderate operational constraints,
standard applications.

Available for delivery in 2017, BC introduces these new innovative technologies and make the future meets the reality with a unique virtual reality experience designed with Dassault Systèmes! Come and try this 3D immersion to discover our new ranges!



The complete solution

For **severe** environment,
demanding operational constraints,
critical applications.

> New AQ range

The essentials for quarter-turn electric actuation



New product range

In 2017, the FIRST BC label turns over a new leaf with the launch of new 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 new products are even more closer to standard actuation needs in the power, water or various industry applications than the previous FIRST BC generation. This new AQ range guarantees the essential functions required to operate a valve or a damper in moderate environmental and operational constraints.

Product benefits

- **Compact & optimized design**
 - > Product architecture & torque range adapted to customers' requirements
 - > Multi-voltage & multi-frequency products (AQ3L & AQ7L): suitable whatever your location on the globe
 - > Short delivery time
- **Reliable design**
 - > BC design methodology built-up on the nuclear market highly demanding requirements
 - > 75+ years of continuous experience and BERNARD CONTROLS inventor of the compact quarter-turn electric actuator
 - > 100% of products undergo a rigorous testing process before delivery
- **Integrated control (LOGIC version)**
 - > Turn-key, time & cost-saving solution
 - > Non-intrusive setting for enhanced safety and reliability
 - > New LOGIC v2, compatible with common fieldbus protocols and Bluetooth communication

- **Easy to use**
 - > Easy commissioning: pre-wired version for direct quarter-turn (up to AQ50), set up of travel limitation system with a simple screwdriver...
 - > LCD Display for user-friendly commissioning and local command on LOGIC version
 - > BERNARD CONTROLS' new mobile application for commissioning, troubleshooting, documentation...
 - > Declutch-free manual override - essential for quick intervention on site



Full range description, product specifications and performances in the FIRST BC - AQ catalogue or on BERNARD CONTROLS' website.

Contact our sales teams on our **booth 3H45** for quotation, additional information or demo through virtual reality.



> New LOGIC control

The new AQ range will be released during the first half of 2017 and will be equipped with a brand new version of BERNARD CONTROLS LOGIC integrated control system. Now featuring a LCD display, this turn-key integrated control system enables non-intrusive settings and is now compatible with the most common fieldbus protocols. Bluetooth communication (as a standard) also enables to communicate with BERNARD CONTROLS' new mobile application for user friendly settings, basic commands and troubleshooting.

Product specifications

- **Adaptation to all quarter-turn valves:**
 - > 10 to 8000 Nm (up to 500 Nm direct mount) & up to 200 000 Nm on request
- **Type of Controls**
 - > Electromechanical, SWITCH
 - > Integrated control, LOGIC (v2)
- **BC Duty & Modulating Classification**
 - > On-Off: Class A
 - > Positioning: Class B
 - > Modulating: Class III
- **IP68**
- **Corrosive environment: C3**
- **Operating temp. : -20...+60°C**

New BC App



To communicate with these new actuators, BERNARD CONTROLS releases a new and unique mobile application available first for Android and a few months later for iOS and Windows 8/10.

The only application that allows not only to set up your actuator in a few clicks, but also to improve the reliability of your process thanks to key features such as alarm logs, torque curves and other valve data:

- Quick & easy access by Bluetooth, QR code or serial number
- Commissioning & diagnostic: Valve set-up, Operation, Valve activity data, Diagnostic
- Safe communication: password protected account
- Access to documentation: User's manual (IOM), drawings, wiring diagrams...

Discover soon in 2017 a new multi-turn electric actuator range

AT Range specifications

- **Torque:**
 - > 10 - 500 Nm (direct)
 - > up to 3,000 Nm (combi)
- **Speed:**
 - > 10 to 120 rpm (direct)
 - > **BC PREMIUM** : up to 180 rpm (direct & <300Nm)
- **Type of Controls:**
 - > Electromechanical SWITCH
 - > Integrated LOGIC (V2)
 - > **BC PREMIUM** : & INTELLI+® (V3)
- **Connector:**
 - > Screw Type Terminal
 - > **BC PREMIUM** : & Quick Connector



- **BC Duty & Modulating Classification:**
 - > On-Off : Class A/ **BC PREMIUM** : Class A+
 - > Inching/Positioning : Class B/ **BC PREMIUM** : Class B+
 - > Modulating : Class III/ **BC PREMIUM** : Class III+
- **IP 68**
- **Corrosive environment:**
 - > C3 / **BC PREMIUM** : & up to C5-M
- **Operating temperature:**
 - > -20°C ...+60°C
 - > **BC PREMIUM** : (option low T° -40°C/ high T° +70° C & +90°C for SWITCH version)

Visit us on our **booth 3H45** to live a unique experience and discover our new products in **virtual reality!**

DASSAULT SYSTEMES

Workshop and program developed with the collaboration of Dassault Systemes