

Solutions Overview

NEW RANGES OF ACTUATORS AQ, AQL, AQXL, AT & BT

NEW MOBILE APPLICATION BC APP

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 and data for preventive maintenance. Compatible with our new controls: **LOGIC (v2)** & **INTELLI+® (v3)**



WEATHERPROOF RANGES

FIRST BC LABEL

The essentials

NEW Quarter-turn AQL RANGE

- 15 to 70 Nm (direct mount)
- Type of Controls: > **Electromechanical SWITCH**
- BC Duty & Modulating Classification

On-Off **A** Inching Positioning **B**

- Environment: > IP68 / C4 (High paint protection option C5)
- > T: -20°C ...+60°C



NEW Quarter-turn AQ RANGE

- 50 to 800 Nm (direct mount) & up to 200,000 Nm on request
- Type of Controls: > **Electromechanical SWITCH**
> **Integrated LOGIC (v2)**
- BC Duty & Modulating Classification

On-Off **A** Inching Positioning **B** Modulating **III**

- Environment: > IP68 / C4 (High paint protection option C5)
- > T: -20°C ...+60°C (Low T° option -40°C)



NEW Multi-turn AT RANGE

- 30 to 500 Nm (direct) & up to 8,000 Nm on request
- 10 to 127 rpm (direct)
- Type of Controls: > **Electromechanical SWITCH**
> **Integrated LOGIC (v2)**

On-Off **A** Inching Positioning **B** Modulating **III**

- Environment: > IP68 / C4 (High paint protection option C5)
- > T: -20°C ...+60°C (Low T° option -40°C)



FLEXIBLE & MODULAR

EXPLOSIONPROOF RANGES

NEW Quarter-turn AQXL RANGE

- 40 Nm and 70 Nm
- Compliance with international explosionproof standards: ATEX, IEC-Ex, NEMA 7...
- Type of Controls: > **Electromechanical SWITCH**
- BC Duty & Modulating Classification

On-Off **A** Inching Positioning **B**

- Environment: IP68 / C4 (C5 on request) / T: -20°C ...+60°C
- Linear applications



WEATHERPROOF RANGES

LABEL BC PREMIUM

The dedicated solutions

NEW Multi-turn BT RANGE

- 30 to 500 Nm (direct) & up to 8,000 Nm on request
- 10 to 127 rpm (direct) & **high speed: up to 180 rpm (direct)**
- Type of Controls: > **Integrated INTELLI+®(v3)**
- Wiring: **Double-sealing as standard**
> New terminal plate with pins for easy wiring
> Quick Connector

Advanced BC Duty & Modulating Classification

On-Off **A+** Inching Positioning **B+** Modulating **III+**

- Environment: > IP68 / C4 (High paint protection option C5)
- > T: -20°C ...+60°C Low T° (Low T° option -40°C)



FLEXIBLE & MODULAR

SPECIAL REQUESTS

Quarter-turn SQ RANGE

- For very high speed up to 1,000,000 Nm on request
- With type of Controls: > **Integrated INTELLI+®(v2)** With Fieldbus Redundant ... > SIL2
- Wiring: Double-sealing with INTELLI+



Multi-turn ST RANGE

- For High speed : up to 20,000 Nm on request & up to 190 rpm (direct & <300Nm)
- With type of Controls: > **Integrated INTELLI+®(v2)** With Fieldbus Redundant ... > SIL2



CUSTOMIZED DESIGN & PROJECTS:

At any time and anywhere on the globe, BERNARD CONTROLS teams are available for dedicated support. From the design stage to installation, commissioning, maintenance and training, our experts help you to define and implement the most appropriate solution to your specific needs thanks to our local R&D centers, test labs, calculation tools and training center.



EXPLOSIONPROOF RANGES

Quarter-turn & Multi-turn SQX & STX RANGES

- **SQX**: 80 to 800 Nm (direct) & up to 1,000,000 Nm on request
- **STX**: 25 to 2,200 Nm (direct) & up to 20,000 Nm on request
- Compliance with international explosionproof standards: ATEX, INMETRO, IEC-Ex, EAC-Ex, NEMA 7 & 9...
- Type of Controls: > **Electromechanical SWITCH**
> **Hardwired**
> **Integrated INTELLI+® (v2)**
> **SIL2**

BC Duty & Modulating Classification

On-Off **A+** Inching Positioning **B+** Modulating **III**

- Environment: IP68 / C3 up to C5-M / T: -20°C ...+70°C (low T° option: -60°C)
- Special configurations: Corrosion protection, Fire proofing, Extreme temperatures



FAILSAFE RANGES

Quarter-turn Failsafe Actuators FQ RANGE

Fast and shock-free reliable spring-return technology during emergency operation

- BC Duty & Modulating Classification

On-Off **A** Inching Positioning **B** Modulating **III**

- Environment: IP67 / C3 / T: -20°C ...+70°C (low T° option -40°C)



Failsafe Actuators FQX RANGE

- Explosionproof versions ATEX-NEMA

Quarter-turn & Linear Failsafe FSeX RANGE

The complete combination of modern electrics and power of hydraulics

- BC Duty & Modulating Classification

On-Off **A** Inching Positioning **B** Modulating **III**

- Environment: IP67 / C4 / T: -20°C ...+60°C
- ATEX-NEMA, SIL3



NUCLEAR RANGES



Nuclear classified Actuators

- SQN & ST & SN & SD Nuclear qualified electric actuators
- Full range of other Qualified Solutions: Quarter-turn, Multi-turn and Linear for inside & outside containment applications; Failsafe actuators



NEW GENERATION OF INTEGRATED CONTROLS



NEW

LOGIC (v2)

The main functions you expect from modern integrated controls

NEW

INTELLI+® (v3)

Advanced control solution for your critical applications!