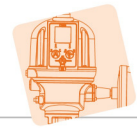


Solutions Overview



NEW RANGES OF ACTUATORS AQ, 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



The essentials

For moderate environment, moderate operational constraints, standard applications.

NEW

Quarter-turn AQ RANGE

- 15 to 500 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 / 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)**
- Wiring: > Screw Type Terminal
- BC Duty & Modulating Classification
- On-Off **A** Inching Positioning **B** Modulating **III**
- Environment: IP68 / C4 / T: -20°C ...+60°C
Low T° option -40°C



NEW GENERATION OF INTEGRATED CONTROLS

SWITCH

Electromechanical non-integrated controls

NEW

LOGIC (v2)

The main functions you expect from modern integrated controls

NEW

INTELLI+® (v3)

Advanced control solution for your critical applications!

WEATHERPROOF RANGES



The complete solution

For severe environment, demanding operational constraints, critical applications.

Quarter-turn & Multi-turn SQ & ST RANGES

- SQ: 45 to 10,000 Nm (up to 800 Nm direct mount) & up to 1,000,000 Nm on request
- ST: 60 to 2,200 Nm (direct) & up to 20,000 Nm on request
10 to 120 rpm (direct) & high speed: up to 190 rpm (direct & <300Nm)
- Type of Controls: > **Electromechanical SWITCH**
> **Integrated INTEGRAL (1)**
> **Integrated INTELLI+®(v2) (2)**
- BC Duty & Modulating Classification
- On-Off **A+** Inching Positioning **B+** Modulating **III**
- Wiring: Double-sealing with INTELLI+®
- Environment: IP68 / C3 up to C5-M / T: -20°C ...+70°C
Low T° option -40°C / High T° option +90°C (for SWITCH versions only)



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: > **Electromechanical SWITCH**
> **Integrated LOGIC (v2)**
> **Integrated INTELLI+®(v3)**
- Wiring: Double-sealing as standard
> New terminal plate with pins for easy wiring
> **Quick Connector**
- BC Duty & Modulating Classification
- On-Off **A+** Inching Positioning **B+** Modulating **III+**
- Environment: IP68 / C4 up to C5-M / T: -20°C ...+70°C
Low T° option -60°C / High T° option +90°C (for SWITCH versions only)



(1) LOGIC (v2) available later (2) INTELLI+® (v3) available later

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**
> **Integrated INTELLI+® (v2) (2)**
- 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, SIL2



SPECIAL DESIGN & EXPERTISE

Nuclear Qualified Actuators

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



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)
- Explosionproof versions ATEX-NEMA



Continuous Modulating Actuators: MODULATING RANGE

- OAP, MA, MB, MAS, MBS, SQXM & STXM MODELS
- Explosionproof versions ATEX-NEMA (SQXM/STXM)
- Type of Controls: **Electromechanical SWITCH** & **Integrated INTELLI+® (v2)**
- BC Duty & Modulating Classification
- Continuous Modulating **II**
- Environment: IP68 / C3 up to C5-M / T: -20°C ...+60°C (low T° option -40°C)



Special Actuators:

- For severe environments: Special Corrosion protection, Fire protection, Extreme temperatures
- Hydraulic Multi-turn Actuators for LNG carriers & Offshore applications

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.



