The complete PREMIUM solution ≤

The BC PREMIUM label guarantees "The complete solution", with many options and possible configurations to fit at best very specific needs.

Decades of return on experience from very demanding applications such as nuclear qualified valves actuation have shaped our technical orientations and our commitment to quality and safety.

The BC PREMIUM label reflects this long-lasting experience and in-depth expertise, working with the most demanding markets, where the ability to design customized solutions has always been decisive. It is the guarantee of quality and security for installations' actuation in the case of **severe** environment, demanding operational constraints and critical applications.





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Weatherproof **Quarter-turn Actuators SQ RANGE**



> SQ range The complete solution for quarter-turn weatherproof electric actuation

local commands

> Can be inhibited remotely

> Through 2 buttons







Product overview Large LCD display > For user-friendly commissioning and local commands > Clear status, no abbreviations **Travel limit** switches Laptop with Intellisoft **Handwheel Bluetooth Heavy duty User-friendly**

Separated control box

Double-sealing principle

Product specifications

- 45 to 10,000 Nm (up to 800 Nm direct mount) & up to 1,00,000 Nm on request
- Connector: Double-sealing wit
- Tupe of Controls:

- BC Duty & Modulating Classification:
- Environment :

*All electronical features and specifications on this brochure refer to INTELLI+(R) version



Product benefits

SECURITY AT ALL LEVELS

Actuator & valve protection

- > Weatherproof and corrosion resistant
- > Thanks to ABSOLUTE SENSORS, which constantly measure the position & torque of your valve INTELLI+ gets precise and reliable information.
- > INTELLI+ Phase monitoring (automatic phase correction
- > Protection of change in direction
- > Signaling continuity (option)
- > **SIL Certification** (option)
- > Double-sealing protection
- > Motor thermal protection
- > Trouble-free operation

Protection of uour installation

- > **Partial Stroking** to check the availability of the connected MOVs. Starting position as well as partial stroke amplitude are programmable.
- > Fieldbus lighting protection
- > Fault monotoring relay

command.

- > Protection by password
- > Alarms indication: INTELLI+® continuously monitors the actuator performances. Up to 17 different types of faults and alarm scan be reported.
- > Emergency shutdown (ESD) : Depending upon the valve operation, ESD can be configured as an Open, Close or Stop
- Programmable Timer: to increase in operating time of the actuator, to avoid water-hammer effect in a pipe.

EASY SITE MANAGEMENT

- During the actuator on valve setting procedure, the user is guided step by step by INTELLI+®
- > Choice of closing (on torque or on > Choice of direction to close
- > Drive the actuator to the closed and the
- open position and validate the position > The setting can be done automatically
- or manually by choosing the closed or open positions.

• Diagnostic & preventative

Thanks to its absolute sensors and its microprocessor technology, INTELLI+® continuously monitors its components as well as the actuator status and measures some important valve parameters INTELLI+® provides users with a great deal of information to help with system diagnostic and aid in scheduling their valves preventative maintenance. INTELLI+® helps maximise process availability by reducing maintenance downtime.

Actuator activity

Parameters are available on the display through the menu to check the activity of the actuator (Number of starts, Running time, Handwheel action,...)

- Separated control box (option)
- Declutch-free handwheel with electric command priority
- Bus continuity

BERNARD CONTROLS actuators can host a special Profibus connexion board which, ensures continuity of signal throughout the line even when the actuator is removed from the field.





Full range description product specificotions and technicol dota on



mechanical design



