

The complete 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.**



LABEL



# 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)2 553 6957

**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  
TROIUSDORF (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.  
inquiry.middleeast@bernardcontrols.com  
Tel. +971 4 880 0660

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//////// Invest in Confidence //

Weatherproof  
Multi-turn Actuators  
**ST RANGE**

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# > ST range

## The complete solution

for multi-turn weatherproof electric actuation



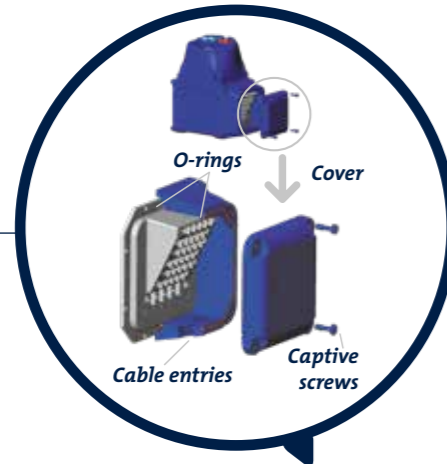
ST SWITCH



ST INTELLI+®

### Product overview

#### Double-sealing principle



#### Large LCD display

- > For user-friendly commissioning and local commands
- > Clear status, no abbreviations

#### Special cover



#### Handwheel



#### User-friendly local commands



#### Separated control box



#### Travel limit switches

#### Product specifications

- 30 to 2,200 Nm & up to 20,000 Nm on request
- Connector : Double-sealing with INTELLI+®
- Type of Controls :
  - > Electromechanical SWITCH
  - > Integrated INTEGRAL
  - > Integrated INTELLI+® (v2)
- BC Duty & Modulating Classification :
  - > On-Off: Class A+
  - > Inching/Positioning: Class B+
  - > Modulating: Class III
- Environment :
  - > IP 68 / C3 up to C5-M
  - > T: -20°C...+70°C (option low T: -40°C on all models and option high T: +90°C for SWITCH versions only)

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

### Product benefits

#### SECURITY AT ALL LEVELS

- **Actuator & valve protection**
  - > Weatherproof and corrosion resistant design
  - > 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 device)
  - > **Protection of change in direction**
  - > **Signaling continuity** (option)
  - > **SIL Certification** (option)
  - > **Double-sealing protection**
  - > **Motor thermal protection**
  - > **Trouble-free operation**

#### 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 position)
  - > 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 maintenance**

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,...)

#### Protection of your 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 monitoring relay**
- > **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 command.
- > **Programmable Timer** : to increase in operating time of the actuator, to avoid water-hammer effect in a pipe.

#### Separated control box (option)

#### Dec clutch-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 specifications and technical data on BERNARD CONTROLS' website.