

These instructions enable the actuator to be configured to suit the valve and must be carried out before electrical start up. For complete instructions see the installation manual that shipped with the actuator or refer to the publications listed below.

Infra-red Setting Tools and Setting Tool *Pro*'s are fully compatible with all IQ range actuators.

If an Infra-red Setting Tool is used with an IQ *Pro*/IQT *Pro* actuator the data download/upload facility will not be available. Navigation through the menu structure is facilitated using the 'down' and 'right' arrow keys. At the end of a menu section pressing the arrow right or arrow down key, as applicable, will return the menu to the start.

If a Setting Tool *Pro* is used with an IQ actuator (an actuator without 'split screen' text support) the 'back arrow' and data upload/download facility will be unavailable.

The following publications contain further configuration and setting information. Additionally, they also contain essential health and safety information and should be read before re-installing and re-commissioning the actuator.

IQ mk 1 actuator	- PUB002-023 (E170E)
IQ mk 2 actuator	- PUB002-024 (E170E2)
IQ <i>Pro</i> actuator	- PUB002-003 (E170E3)
IQT actuator	- PUB002-028 (E175E)
IQT <i>Pro</i> actuator	- PUB002-004 (E175E3)

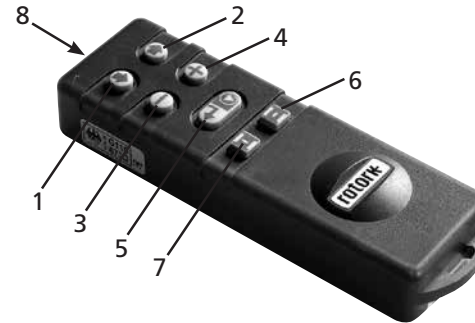
1 Non-textual (pre-*Pro*) Display



Fig. 1.1 IQ non-textual display

If your actuator is fitted with the pre-*Pro* Rotork IQ or IQT main board, your display will appear as fig 1.1. If so then follow the instructions in sections 5 and 7 to set the basic configurations for your actuator.

2 Infra-red Setting Tool



Infra-red Setting Tool

- | | |
|-----------|--|
| 1. ↓ Key* | Display next function down |
| 2. → Key* | Display next function across |
| 3. - Key | Decrease/change displayed function's value or option setting |
| 4. + Key | Increase/change displayed function's value or option setting |
| 5. ← Key | Enter displayed value or option setting |

* Pressing the two arrow keys together returns the actuator display to the position indication mode

Infra-red local operation (when enabled)

- | | |
|---------------------------------|----------------|
| 5. ← Key | Stop actuator |
| 6. ☰ Key | Open actuator |
| 7. ☷ Key | Close actuator |
| 8. Infra-red Transmitter Window | |

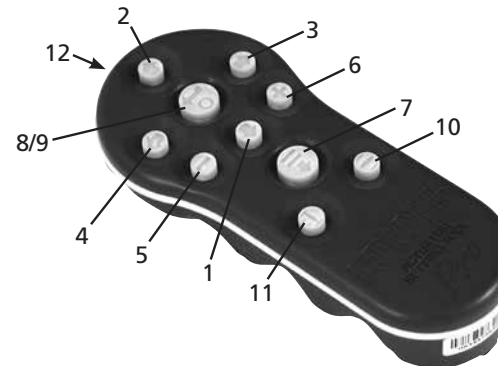
3 *Pro* Display



Fig. 2.1 IQ *Pro* display

If your actuator is fitted with the later Rotork IQ or IQT *Pro* main board, your display will appear as fig 2.1. If so then follow the instructions in sections 6 and 8 to set the basic configurations for your actuator.

4 Setting Tool *Pro*



Setting Tool *Pro*

- | | |
|-----------|--|
| 1. ↓ Key* | Display next function down |
| 2. ↑ Key | Display previous function up |
| 3. → Key* | Display next function across |
| 4. ← Key | Display previous function across |
| 5. - Key | Decrease/change displayed function's value or option setting |
| 6. + Key | Increase/change displayed function's value or option setting |
| 7. ⇅ Key | Initiate download/upload mode |
| 8. ← Key | Enter displayed value or option setting |

* Pressing these two arrow keys together returns the actuator display to the position indication mode

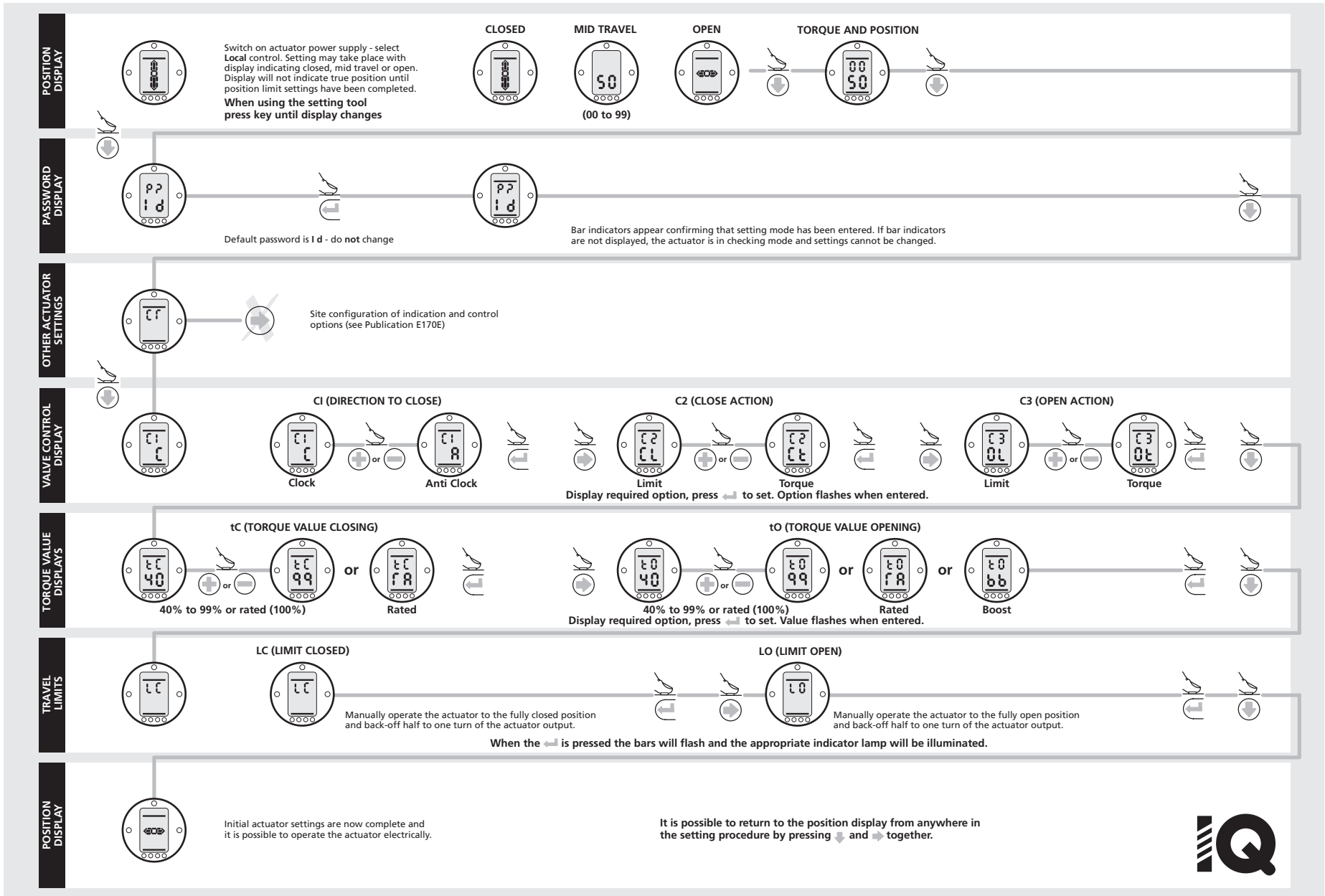
Infra-red local operation (when enabled)

- | | |
|----------------------------------|----------------|
| 9. ☷ Key | Stop actuator |
| 10. ☰ Key | Open actuator |
| 11. ☷ Key | Close actuator |
| 12. Infra-red Transmitter Window | |

Basic Setting Instructions for IQ and IQT Actuators

5

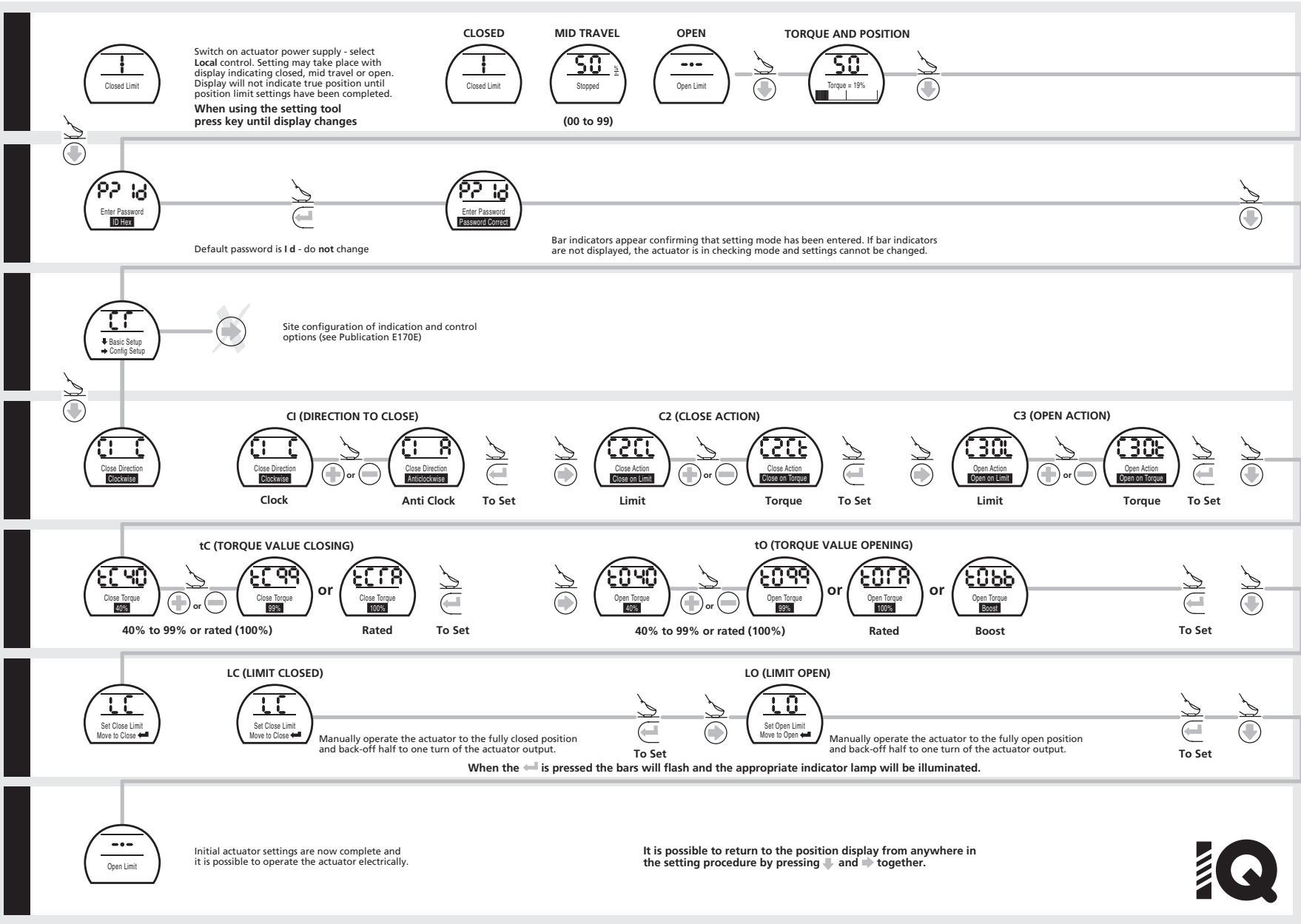
Basic Setting Instructions — Non-textual (pre-Pro) Display



Basic Setting Instructions for IQ and IQT Actuators

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Basic Setting Instructions — Pro Display



Basic Setting Instructions for IQ and IQT Actuators

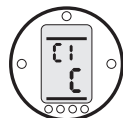
7

Check List — Non-textual (pre-Pro) Display

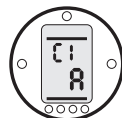
Checking actuator settings requires the use of  and  keys only. Displays on actuator show set values. Return to the start of the setting procedure (Position Display) by pressing  and  together. Checking may be carried out with the actuator in either Setting or Checking mode.



Until C1 (DIRECTION TO CLOSE)
is displayed



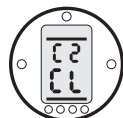
Clock



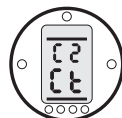
Anti-clock



To display C2 (CLOSE ACTION)



Limit



Torque



To display C3 (OPEN ACTION)



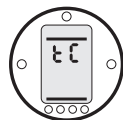
Limit



Torque



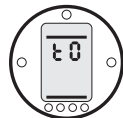
To display t C
(TORQUE VALUE CLOSING)



Display shows
selected torque



To display t O
(TORQUE VALUE OPENING)



Display shows
selected torque

Press  and  together to return to Position Display and move valve to fully closed condition checking that closed symbol and lamp appear just as the limit of travel is reached.

Move valve to fully open position checking that open symbol and lamp appear just as the limit of travel is reached.

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Check List — Pro Display

Checking actuator settings requires the use of  and  keys only. Displays on actuator show set values. Return to the start of the setting procedure (Position Display) by pressing  and  together. Checking may be carried out with the actuator in either Setting or Checking mode.



Until C1 (DIRECTION TO CLOSE)
is displayed



Clock



Anti-clock



To display C2 (CLOSE ACTION)



Limit



Torque



To display C3 (OPEN ACTION)



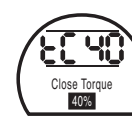
Limit



Torque



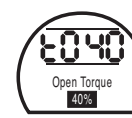
To display t C
(TORQUE VALUE CLOSING)



Display shows
selected torque
e.g. 40%



To display t O
(TORQUE VALUE OPENING)



Display shows
selected torque
e.g. 40%

Press  and  together to return to Position Display and move valve to fully closed condition checking that closed symbol and lamp appear just as the limit of travel is reached.

Move valve to fully open position checking that open symbol and lamp appear just as the limit of travel is reached.

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