In order to have a right automation of the valve, is necessary to use a Valbia electric actuators whose range has a torque of at least 25% over the valve.

4.0 Actuator mounting

2.0 Transportation and storage

The electrical actuators at the end of their life cycle contributes to preventing possible negative effects on the environment and favors recycling of the materials of which the equipment is composed; of their life cycle, separating the different materials for the proper disposal and/or recovery. The crossed-out rubbish bin symbol indicates that the product, at the end of its life cycle, becomes WEEE (Waste Electrical and Electronic Equipment) and has to be disposed of in a way that protects human health and the environment.

6.3 Clearance and space requirements (Fig.5)

- Opening: the in-progress/current operation is interrupted.
- Closing: the actuator supplies a torque greater than the nominal one. The emergency stop button on the electrical connections board, if present, has to be pressed for stopping the operation. In case of emergency stop button absence, the use of the emergency stop function, the remote signal's auxiliary contact (paragraph 6.2);

7. Power on the actuator and carry out the closing operation;

The procedure necessary to adjust the actuator stroke is the following:

5.2 POWER REQUIREMENTS AND CURRENT DRAW INFORMATION

- Make sure that the actuator is in the OFF position (paragraph 6.3) and it has no torques applied.
- Remove the external hand-wheel.
- Loosen 8 both travel stop stud bolt nuts. Manually operate towards the CLOSE position (paragraph 7.0) until the closed limit switch trips.
- Loosen the rest times after an operation. The use of the actuator with a higher duty cycle or with a nominal temperature over 55°C (131°F) can cause premature aging of the mechanical components.

2.0 TRANSPORTATION AND STORAGE

7.0 Manual actuator

• Torque limiter alert.
- If the actuator torque reaches a value higher than the nominal one, a high-speed audible alert is produced (1500 Hz, a noticeable increase in the sound level, higher than the noise level of the motor).
- The actuator torque momentarily rises up to a high maximum value (2.5-3.0 times) and then drops down. The high-speed audible alert is produced again.
- If the actuator torque is higher than the nominal one for more than 30 seconds, the actuator stops and an error message is generated (over torque).

3.0 APPLICATIONS

3.3 Specifications and technical information (Tab.1-2)

1.0 Specifications

- Efficiency:
- Nominal voltage:
- Min. Nm:
- Max. Nm:
- Nom. A:
- Max. A:

5.0 Specifications and technical information (Tab.1-2)

4.3 Practical resonance frequency

- In order to guarantee the desired "type", the following models of electric connectors should be used: HSK-M (1.609.1200.70) or HSK-K (1.609.1201.70). To guarantee the safety and correct functionality of the motorized valve it is necessary to use the manufacturer's specified connectors, especially at high temperature.

4.0 Outline of the electric actuator (Fig.1)

- If the actuator is in the OFF position (paragraph 6.3) and it has no torques applied.
- Remove the external hand-wheel.
- Loosen 8 both travel stop stud bolt nuts. Manually operate towards the CLOSE position (paragraph 7.0) until the closed limit switch trips.
- Loosen the rest times after an operation. The use of the actuator with a higher duty cycle or with a nominal temperature over 55°C (131°F) can cause premature aging of the mechanical components.

4.2 Auxiliary switch

- The VB110M / VB190M / VB270M / VB350M models are supplied with an external hand-wheel "H" (Fig.10), to manually perform the opening and closing operations.

4.1 Power connection

The battery is a component that guarantees a limited number of charge/discharge cycles (over 500), therefore its life is inversely proportional to the number of charge/discharge cycles.

- Continuous duty: the actuator is used for a continuous period of 30 minutes or less.

The battery is a component that guarantees a limited number of charge/discharge cycles (over 500), therefore its life is inversely proportional to the number of charge/discharge cycles.

- Battery removal (Fig.6)

WARNING: In case of opening or closing operation, check if the gate valve is in the "OPEN" position and if the safety system is in the OFF position, otherwise the actuator is not activated.

The actuator must be maintained at least every 3 months, or every 12 months if it is not used frequently.

9.2 WEEE management of WEEE. For all the information contact VALBIA s.r.l.