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C40

INSTALLATION AND USE ISTRUCTIONS

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1- DECLARATION OF "CE" CONFORMITY



TOPP SPA - Via Galvani, 59 36066 SANDRIGO (VI) - ITALIA Tel. +39 0444 656700 Fax +39 0444 656701

Declares that the electric device

Called: CHAIN ACTUATOR FOR WINDOW AUTOMATION

Туре: С40 Мо

tecnologie del movimento

Models: C40/230V - C40/24V

Serial No. and Year of manufacture: see data plate and CE marking applied on the equipment

complies with the requirements of the following directives:

73/23/EEC

(Low Voltage Directive: electrical equipment destined to be used within given voltage limits)

89/336/EEC

(Electromagnetic Compatibility Directive - on the approximation of the laws of the Member States relating to electromagnetic compatibility)

and, besides, it declares that the following harmonized standards have been applied:

EN60335-1:1994; EN60335-1/Ec:1995; EN60335-1/A11:1995; EN60335-1/A1:1996; EN60335-1/A13:1998; EN60335-1:A14:1998; EN60335-1/A15:2000; EN60335-1/A2:2000; EN60335-1/A16:2001; EN55014-1(2000) +EN55014-1/A1(2001) +EN55014-1/A2(2002); EN61000-3-2 (2000); EN61000-3-3 (1995); EN61000-3-3/A1 (2001); EN55014-2 (1997) +EN55014-2/A1 (2001).

Date: 02/05/2004

Surname and name: Matteo Cavalcante

(AB Signature:



INSTALLATION AND USE ISTRUCTIONS

GENERAL REMARKS -2

2.1- GENERAL INSTRUCTIONS



C40

BEFORE INSTALLING AND USING THE ACTUATOR, IT IS COMPULSORY THAT THE INSTALLER AND THE USER CAREFULLY READ AND UNDERSTAND THIS MANUAL IN ALL ITS PARTS.



THIS MANUAL IS INTEGRAL PART OF THE ACTUATOR AND MUST COMPULSORILY BE PRESERVED FOR FUTURE REFERENCE.

THE MANUFACTURER HAS NO LIABILITY FOR ANY EVENTUAL DAMAGE TO PERSONS, ANIMALS AND THINGS DUE TO THE INOBSERVANCE OF THE PRESCRIPTIONS DESCRIBED IN THIS MANUAL.

2.2-INSTALLER AND USER



THE ACTUATOR INSTALLATION CAN BE PERFORMED EXCLUSIVELY BY COMPETENT AND QUALIFIED TECHNICAL PERSONNEL SATISFYING THE PROFESSIONAL AND TECHNICAL REQUIREMENTS FORESEEN BY THE LAWS IN FORCE IN THE COUNTRY OF INSTALLATION.



THE ACTUATOR CAN BE USED EXCLUSIVELY BY A USER ACTING IN COMPLIANCE WITH THE INSTRUCTIONS CONTAINED IN THIS MANUAL AND/OR IN THE MANUAL OF THE ACTUATOR CONTROL DEVICE (e.g.: CONTROL UNIT).

2.3-WARRANTY



THE ACTUATOR WARRANTY EXPIRES, IF ITS USE DOES NOT COMPLY WITH THE INSTRUCTIONS AND PRESCRIPTIONS DESCRIBED IN THIS MANUAL, AS WELL AS IF NON-ORIGINAL COMPONENTS, ACCESSORIES, SPARE PARTS, AND CONTROL SYSTEMS ARE USED.

2.4-TECHNICAL ASSISTANCE

For the technical assistance apply to your Dealer or to the Manufacturer.

2.5- RESERVED RIGHTS

The reserved rights on this manual "Installation and use instructions" remain property of the Manufacturer.

Each information herein contained (text, drawings, diagrams, etc.) is reserved.

None part of this manual can be reproduced and disclosed (totally or partially) by any reproduction means (photocopies, microfilms or other) without written authorization of the Manufacturer.

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3- TECHNICAL DESCRIPTION

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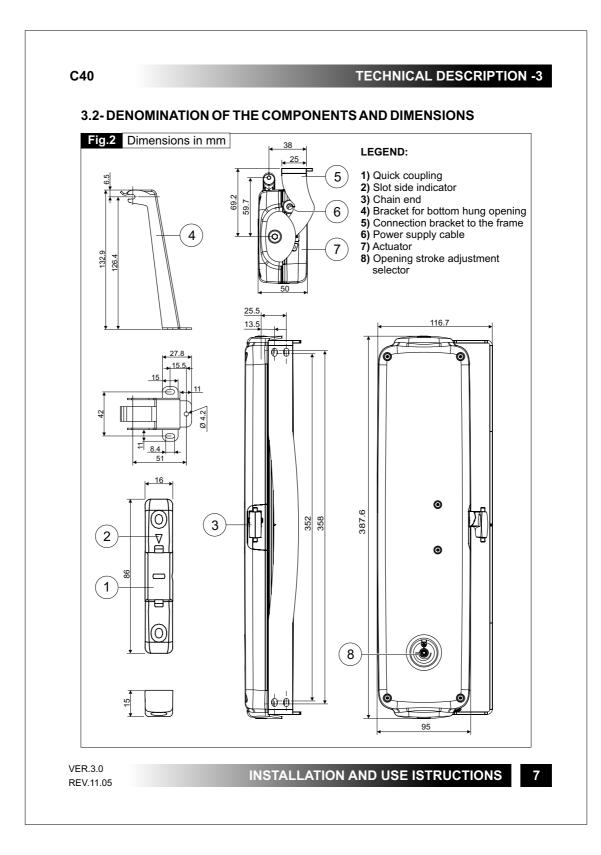
3.1- RATING PLATE AND "CE" MARKING

The "CE" marking certifies the compliance of the machine with the essential safety and health requirements foreseen by the product European Directives.

The rating plate is an adhesive plate in polyester, silk-screen printed in black, having the following size: L=36 mm - H=50 mm.

It is applied externally on the actuator. The plate (Fig.1) bears in readable and indelible way the following data:

- logo and address of the manufacturer
- type and model
- voltage and intensity of power supply (V A)
- type of service $S_2(min)$
- absorbed electric power P (W)
- $\mbox{ + thrust}$ and tractive force F (N)
- idle translation speed (mm/s)
- ${\scriptstyle \bullet \, \text{protection} \, \text{degree} \, (\text{IP})}$
- symbol of double insulation
- "CE" markingserial number
- year of construction



3- TECHNICAL DESCRIPTION

3.3-TECHNICAL DATA

Tab.1 contains the technical data characterising the actuators.

| | C40/2 | 230V | C40/24V | |
|---|--|-----------------|-----------------------------|--|
| Power supply voltage | 230 V | 50 Hz | 24 V DC | |
| Absorbed current | 0,24 | 4 A | 1 A | |
| Absorbed power with load | 50 | 50 W 24 W | | |
| Maximum applicable thrust load | | 400 N | | |
| Maximum applicable tractive load | 400 N | | | |
| Idle translation speed | 21 m | 21 mm/s 18 mm/s | | |
| Duration of the idle stroke | 24 | 24 s 28 s | | |
| Adjustable strokes on outlet ⁽¹⁾ | 100 - 150 | - 200 - 250 | - 300 - 400 - 500 mm | |
| Minimum height | Top hung | H= 300 | 500 mm (v. Fig.6a) | |
| of the window frame ⁽²⁾ | Bottom hung | H= 300 | 1000 mm (v. Fig.6b) | |
| Return end of stroke for the absorption in the last 100 mm | | | | |
| Double electric insulation | S | ì | / | |
| Type of service $S_2^{(3)}$ | 5 min 8 min | | | |
| Operating temperature | -5°C +50°C | | | |
| Protection degree of electric devices | IP 55 | | | |
| Adjustment of the window frame connection | Unnecessary | | | |
| Parallel connection of more than one actuator | Yes (see wiring diagram) | | | |
| Connection and synchronization of many actuators on the same window | Only with synchronization unit (see wiring diagram) | | | |
| Chain position control | | Yes | | |
| Actuator weight with brackets | 1,9 kg | | | |
| Gross weight | 2,2 kg | | | |
| Electronics with warning horn to signal to the user the wrong assembling ⁽⁴⁾ | | | | |

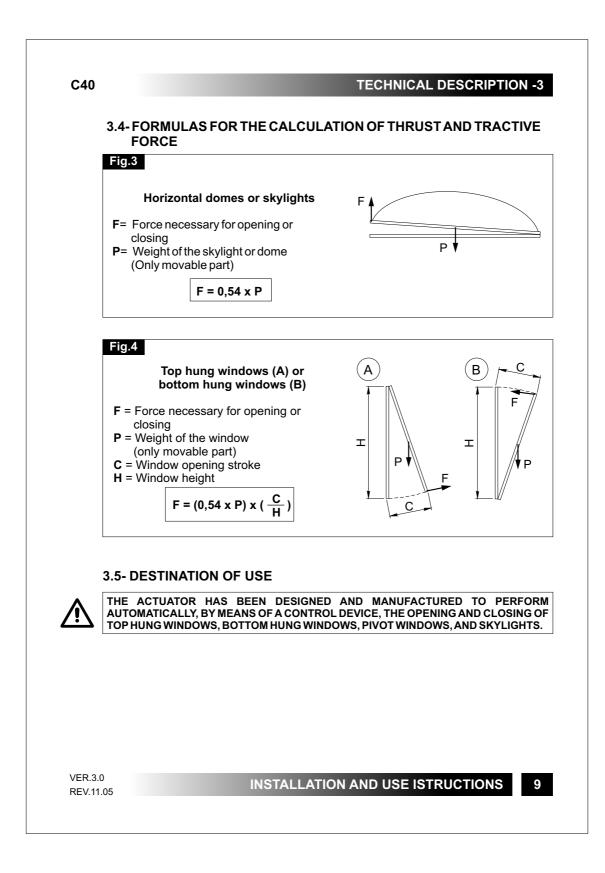
⁽³⁾ Service of limited duration according to EN 60034
⁽⁴⁾ The "buzzer" is enabled automatically, and emits a continuous "beep" until the actuator is supplied.

Tab.1

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3- TECHNICAL DESCRIPTION

3.6-USE LIMITS

The actuator has been designed and manufactured exclusively for the destination of use given in par.3.5, therefore, any other type of use is strictly forbidden in order to assure in any moment the safety of the installer and of the user, as well as the efficiency of the actuator itself.



IT IS STRICTLY FORBIDDEN TO USE THE ACTUATOR FOR IMPROPER USES OTHER THAN THE ONE FORESEEN BY THE MANUFACTURER (SEE PAR.3.5).



IT IS STRICTLY FORBIDDEN TO INSTALL THE ACTUATOR ON THE EXTERNAL SIDE OF THE WINDOW FRAME SUBJECT TO ATMOSPHERIC AGENTS (RAIN, SNOW, ETC.).

THE USE OF THE ACTUATOR IN ENVIRONMENTS WITH POTENTIALLY EXPLOSIVE CHILDREN.

ATMOSPHERE IS STRICTLY FORBIDDEN. IT IS COMPULSORY TO KEEP THE PACKAGE AND THE ACTUATOR OUT OF REACH OF

3.7-STANDARD PACKAGE

Each standard package of the product (cardboard box) contains (Fig.5):

- No.1 Actuator equipped with power supply cable;
- No.1 Window frame connection bracket (Ref.A);
- No.1 Bracket for bottom hung opening (Ref.B);
- No.1 Small part package (quick coupling, No. 2 bracket fastening lateral screws, No.9 screws AF Ø 4.2 x 19 mm fastening the bracket on the window frame and tightening the quick coupling, Allen wrench to adjust the stroke end) (Ref. C);
- No.1 Installation and use instructions (Ref.D).



MAKE SURE THAT THE ABOVE DESCRIBED COMPONENTS ARE CONTAINED IN THE PACKAGE, AS WELL AS THAT THE ACTUATOR HAS NOT BEEN DAMAGED DURING TRANSPORT.



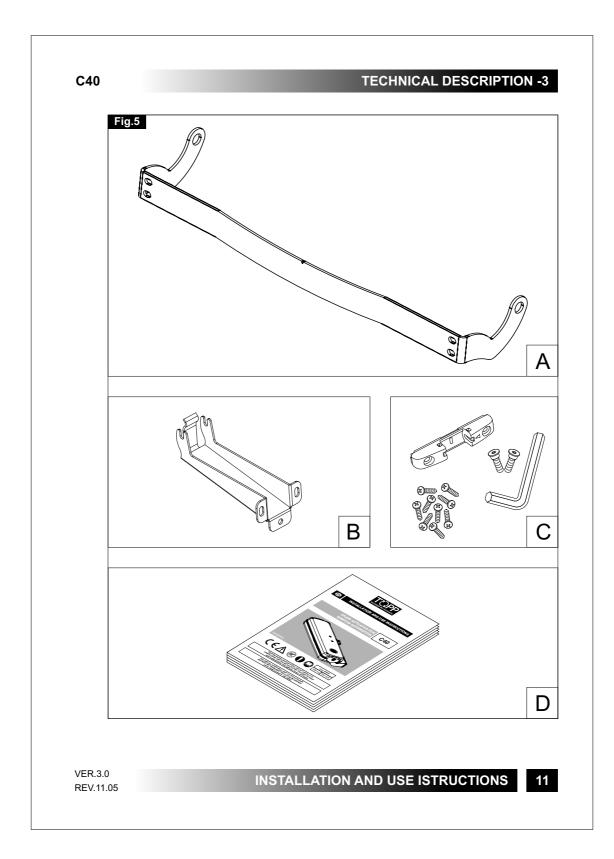
SHOULD ANY ANOMALY BE DETECTED, IT IS FORBIDDEN TO INSTALL THE ACTUATOR, AND IT IS COMPULSORY TO REQUIRE TECHNICAL ASSISTANCE FROM YOUR DEALER OR THE MANUFACTURER.



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THE PACKAGING (PAPER, PLASTIC, ETC.) HAS TO BE DISPOSED ACCORDING TO THE LAWS IN FORCE.

INSTALLATION AND USE ISTRUCTIONS



4- SAFETY

4.1-PROTECTION AGAINST ELECTRIC HAZARD

The actuator is protected against electric hazard due to direct and indirect contacts. The protection measures against direct contacts aim at protecting people against hazards due to contact with active parts, usually live parts; while the protection measures against indirect contacts aim at protecting people against hazards due to conducing part, which are usually insulated, but could become live in case of failure (insulation failure).

The adopted protection measures are the following:

- 1) Insulation of live parts by means of a plastic material body;
- 2) Enclosure with suitable protection degree;
- 3) Only for mod.C40/230V equipped with double insulation: Protection of passive type given by the use of components with double insulation, also called components of class II or with equivalent insulation (it is forbidden to perform the connection to the earthing system of the actuators equipped with double insulation).

4.2-RESIDUAL RISKS

The actuator does not have residual risks. The installer and the user are herewith informed that after the actuator has been installed on the window, the actuator drive can accidentally generate the following residual risk:

Residual risk:

Hazard of squashing or dragging of body parts inserted between the movable and the fix part of the window frame.

Exposure frequency:

Accidental and when the installer or the user decides to perform a wrong voluntary action.

Severity of the damage:

Light lesions (usually reversible).

Adopted measures:

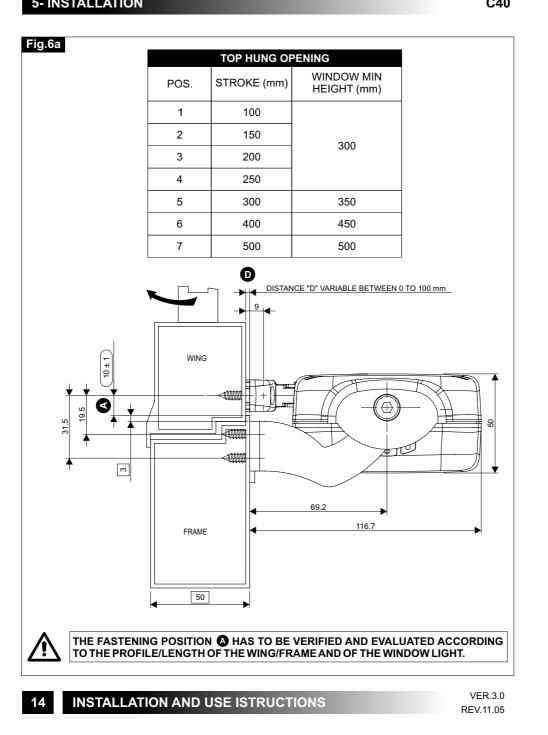
Before enabling the device, it is compulsory to verify that near the window there are not persons, animals or things whose safety may be accidentally jeopardized. During actuator operation, it is compulsory to be in a safe control position assuring visual control on the window movement.

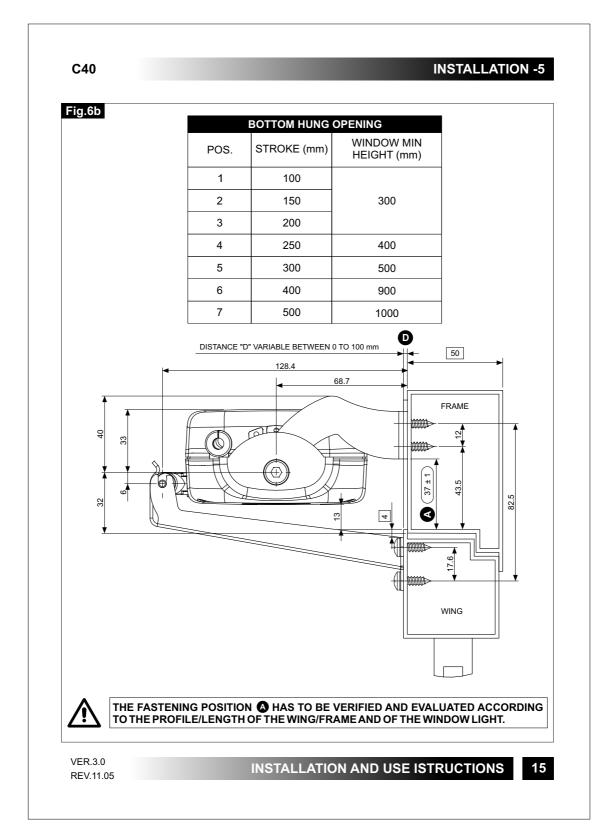
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INSTALLATION AND USE ISTRUCTIONS

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INSTALLATION -5 C40 **5.1-GENERAL INSTRUCTIONS** THE ACTUATOR INSTALLATION CAN BE PERFORMED EXCLUSIVELY BY COMPETENT AND QUALIFIED TECHNICAL PERSONNEL SATISFYING THE PROFESSIONAL AND TECHNICAL REQUIREMENTS FORESEEN BY THE LAWS IN FORCE IN THE COUNTRY OF INSTALLATION. THE ACTUATOR PERFORMANCE MUST BE SUFFICIENT TO ASSURE THE CORRECT MOVEMENT OF THE WINDOW. IT IS COMPULSORY TO VERIFY THE THRUST OR TRACTIVE FORCE ACCORDING TO THE TYPE AND WEIGHT OF THE WINDOW (PAR. 3.4). IT IS FORBIDDEN TO EXCEED THE LIMITS GIVEN IN TAB.1 CONCERNING THE TECHNICAL DATA (PAR.3.3). THE ACTUATOR INSTALLATION MUST BE PERFORMED EXCLUSIVELY WITH CLOSED WINDOW OR SKYLIGHT. BEFORE PERFORMING THE INSTALLATION OF THE ACTUATOR ON HOPPER WINDOWS, VERIFY THAT ON BOTH SIDES OF THE WINDOW TWO COMPASS STROKE LIMIT DEVICES ARE INSTALLED IN ORDER TO AVOID THE ACCIDENTAL FALL OF THE WINDOW. FOR CORRECT OPERATION OF THE ACTUATOR, THE WINDOW FRAME MUST HAVE A MINIMUM HEIGHT AS QUOTED IN THE TABLE OF FIG.6a FOR THE TOP HUNG ASSEMBLY AND IN THE TABLE OF FIG.6b FOR THE BOTTOM HUNG ASSEMBLY. VERIFY THAT THE POSITIONS OF THE LABELS LOCATED ON THE QUICK COUPLING CORRESPOND TO THE LABELS ON THE ACTUATOR: RED LABEL WITH LETTER "A" FOR THE TOP HUNG ASSEMBLY, GREEN LABEL WITH LETTER "B" FOR VERTICAL ASSEMBLY. VERIFY THAT THE DISTANCE "D" BETWEEN THE FRAME OF THE WINDOW FRAME (ON WHICH THE FIXING OF THE ACTUATOR IS FORESEEN) AND THE WING OF THE WINDOW FRAME (ON WHICH THE FASTENING OF THE BRACKET IS FORESEEN) IS INCLUDED BETWEEN 0 AND 100 mm BOTH FOR THE TOP HUNG ASSEMBLY (SEE FIG.6a) AND FOR THE BOTTOM HUNG ASSEMBLY (SEE FIG.6b). VER.3.0 INSTALLATION AND USE ISTRUCTIONS 13 REV.11.05



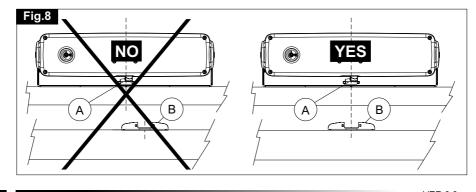


5.2- TOP HUNG WINDOWS (Fig. 7 and Fig. 13, 24)

- 1) Open the package (par. 3.7) and extract the various components;
- 2) Fig.13- With a pencil draw the centre line "X" of the window frame;
- 3) Fig.14- Align the quick coupling to the centre line using as reference the rib (Ref.1) located in the centre of the same with the quick release side indicator on the right (Ref.2);
- 4) Fig.15- Position the quick coupling at a minimum height of 10 mm from the frame and mark the drilling points;
- 5) Fig.16/17- With a suitable drill, perform two holes of Ø 3.7 on the wing and tighten the quick coupling with proper screws;
- 6) Fig.18- Align to the centre line the window frame connection bracket using as reference the indicator of the centre line (Ref.1) located in the middle of the same;
- 7) Position the bracket on the frame, aligning it to the profile of the frame within a distance of about 3 mm, as indicated in **Fig.19**, and mark the drilling points;
- 8) Fig.20/21- With a suitable drill, perform four holes of Ø 3.7 on the frame and tighten the bracket with proper screws;
- 9) Perform the electric connections in compliance with the provisions of par.5.4 and with reference to the wiring diagram and control the outlet of the chain for at least 50 mm of stroke; then, disconnect power supply;

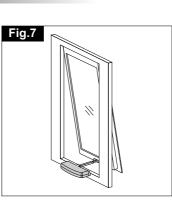
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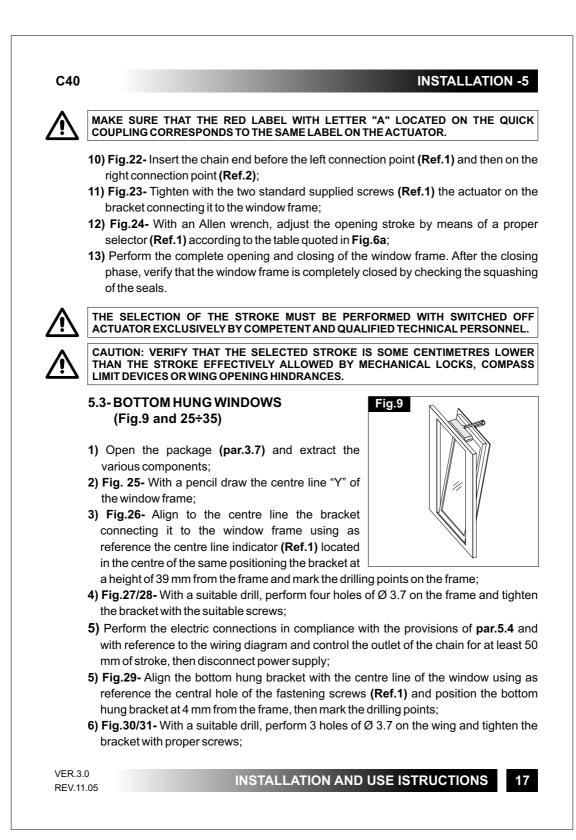
VERIFY THAT THE CHAIN ADJUSTMENT END (FIG.8-Ref.A) IS ON THE SAME AXIS OF THE QUICK COUPLING (FIG.8-Ref.B). OTHERWISE, REPEAT THE OPERATIONS AND POSITION CORRECTLY; WHEN THEY ARE NOT COAXIAL, THIS MAY DAMAGE THE ACTUATOR AND THE WINDOW FRAME (FIG.8).



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- 7) Fig.32- Tighten with the two standard supplied screws (Ref.1) the actuator on the bracket connecting it to the window frame;
- Fig.33- Connect the bracket for bottom hung opening (Ref.1) to the chain end (Ref.2);
- Fig.34- With an Allen wrench, adjust the opening stroke by a suitable selector (Ref.1) according to the table quoted in Fig.6b;
- **11)** Perform the complete opening and closing of the window frame. After the closing phase, verify that the window frame is completely closed by checking the squashing of the seals.

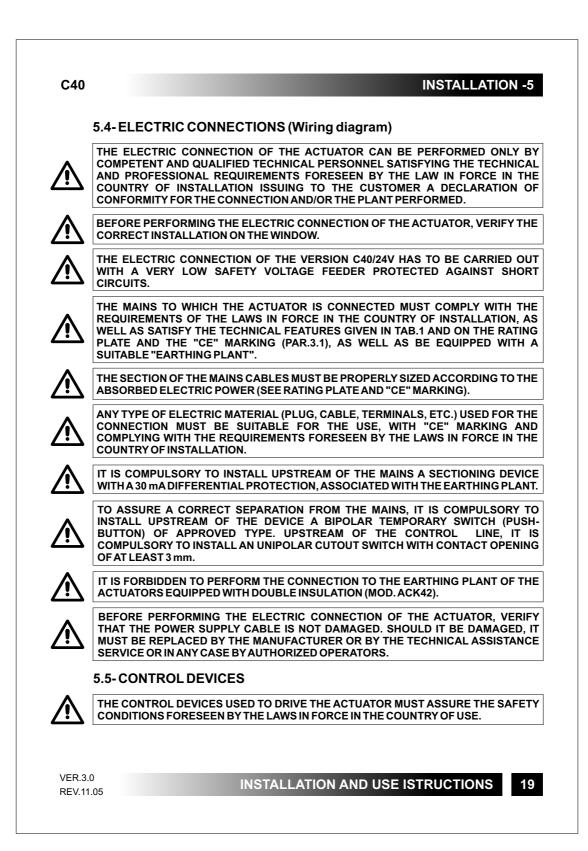


THE SELECTION OF THE STROKE MUST BE PERFORMED WITH SWITCHED OFF ACTUATOR EXCLUSIVELY BY COMPETENT AND QUALIFIED TECHNICAL PERSONNEL.

CAUTION: VERIFY THAT THE SELECTED STROKE IS SOME CENTIMETRES LOWER THAN THE STROKE EFFECTIVELY ALLOWED BY MECHANICAL LOCKS, COMPASS LIMIT DEVICES OR WING OPENING HINDRANCES.

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INSTALLATION AND USE ISTRUCTIONS



According to the different type of installations, the actuators can be driven by the following control devices:

1) MANUAL PUSH-BUTTON:

Bipolar switch button with central OFF position, with biased-off switch;

2) CONTROL AND FEEDING UNIT:

Microprocessor control units (e.g.: Mod. TF, EVP, etc.) controlling the single actuator or more than one actuator simultaneously by means of one or more manual pushbuttons, an infrared remote control or a 433 Mhz radio control.

To these control units, it is possible to connect the rain sensors (**RPR - 12V**), the wind sensor (**RW**) and the brightness sensor (**RL**);



THE EVENTUALLY USED UNITS MUST SUPPLY A VOLTAGE TO C40 FOR MAX. 120 s.

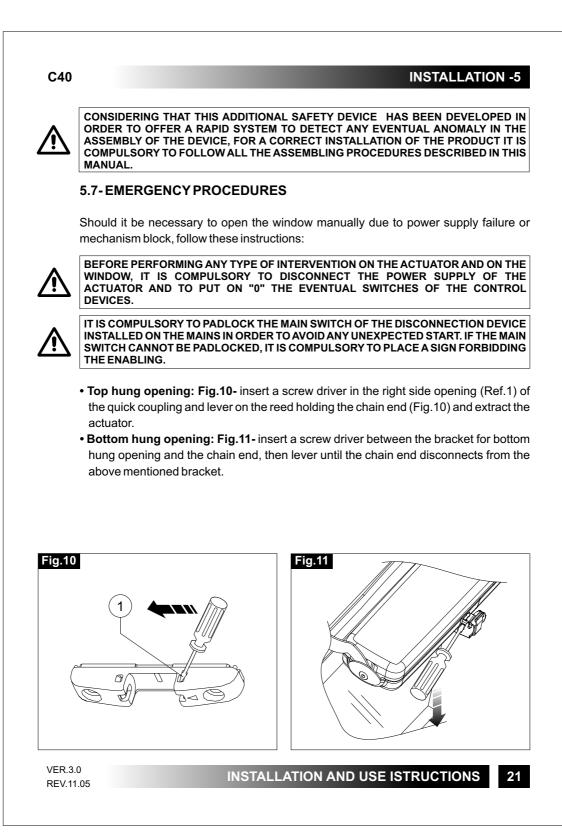
3) SYNCHRONIZATION UNIT:

Microprocessor control unit (e.g.: Mod. USA2) controlling by means of a manual push-button the simultaneous operation of 2 or 3 actuators installed on a single window assuring the regular opening and closing movement.

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6- USE AND OPERATION

C40

6.1- USE OF THE ACTUATOR

THE ACTUATOR CAN BE USED ONLY BY A USER ACTING IN COMPLIANCE WITH THE INSTRUCTIONS GIVEN IN THIS MANUAL AND/OR IN THE MANUAL OF THE ACTUATOR COMMAND DEVICE (e.g.: WIND AND RAIN CONTROL UNIT).

BEFORE USING THE ACTUATOR, IT IS COMPULSORY FOR THE USER TO READ AND UNDERSTAND IN ALL ITS PARTS THIS MANUAL, AS WELL AS THE EVENTUAL MANUAL OF THE INSTALLED CONTROL DEVICE TYPE.

 \wedge

BEFORE OPERATING THE ACTUATOR, THE USER MUST COMPULSORILY VERIFY THAT NEAR AND/OR UNDER THE WINDOW THERE ARE NOT ANY PERSON, ANIMAL AND THING WHOSE SAFETY MAY BE ACCIDENTALLY JEOPARDISED (SEE PAR. 4.2).

DURING THE OPERATION OF THE ACTUATOR CONTROL DEVICE, THE USER HAS TO COMPULSORILY OCCUPY A CONTROL POSITION ASSURING VISUAL CONTROL ON THE WINDOW MOVEMENT.

 \triangle

THE FUNCTION EFFICIENCY AND THE RATED PERFORMANCE OF THE ACTUATOR, OF THE WINDOW FRAME ON WHICH IT IS INSTALLED AND OF THE ELECTRIC EQUIPMENT MUST BE VERIFIED STEADILY IN TIME BY PERFORMING, WHEN NECESSARY, INTERVENTIONS OF ROUTINE AND SUPPLEMENTARY MAINTENANCE ASSURING THE OPERATION CONDITIONS IN COMPLIANCE WITH THE SAFETY REGULATIONS.



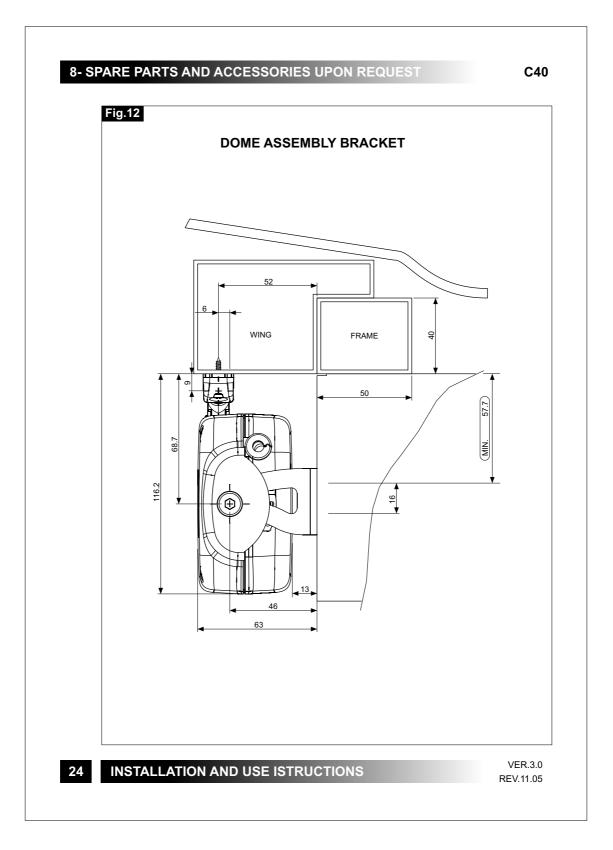
ALL ABOVE MENTIONED MAINTENANCE INTERVENTIONS MAY BE PERFORMED EXCLUSIVELY BY TECHNICAL COMPETENT AND QUALIFIED TECHNICAL PERSONNEL SATISFYING THE TECHNICAL AND PROFESSIONAL REQUIREMENTS FORESEEN BY THE LAW IN FORCE IN THE COUNTRY OF INSTALLATION.

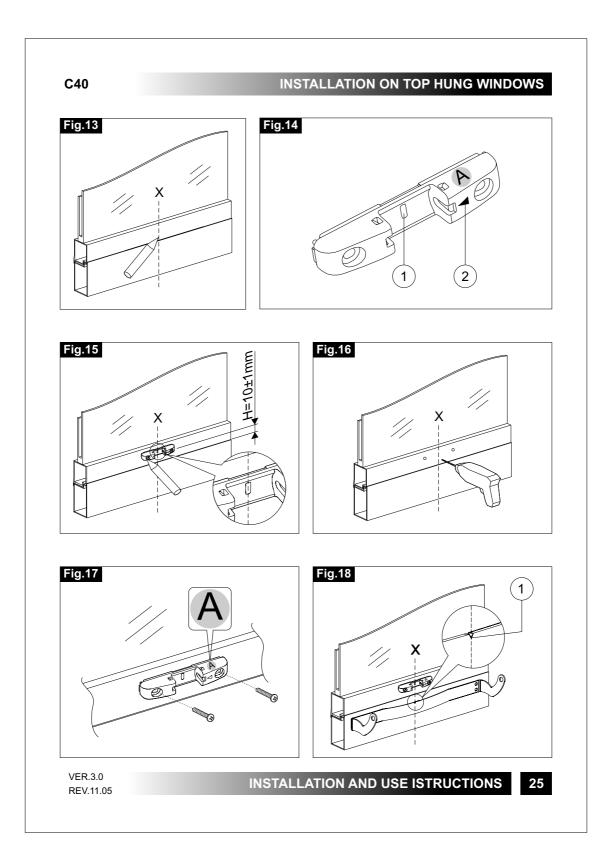
The use of the actuator allows to control automatically the opening and closing of the window according to the type of control device installed (see par.5.5).

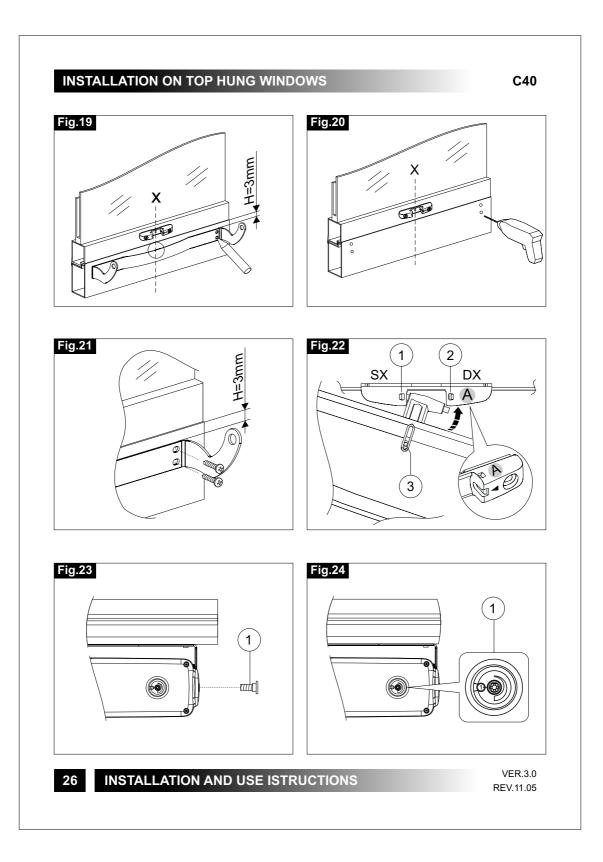
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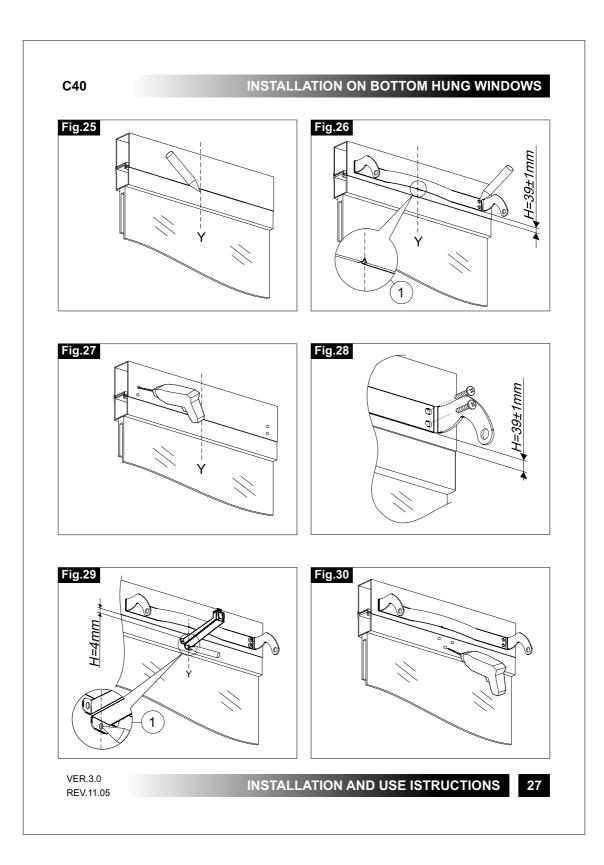
INSTALLATION AND USE ISTRUCTIONS

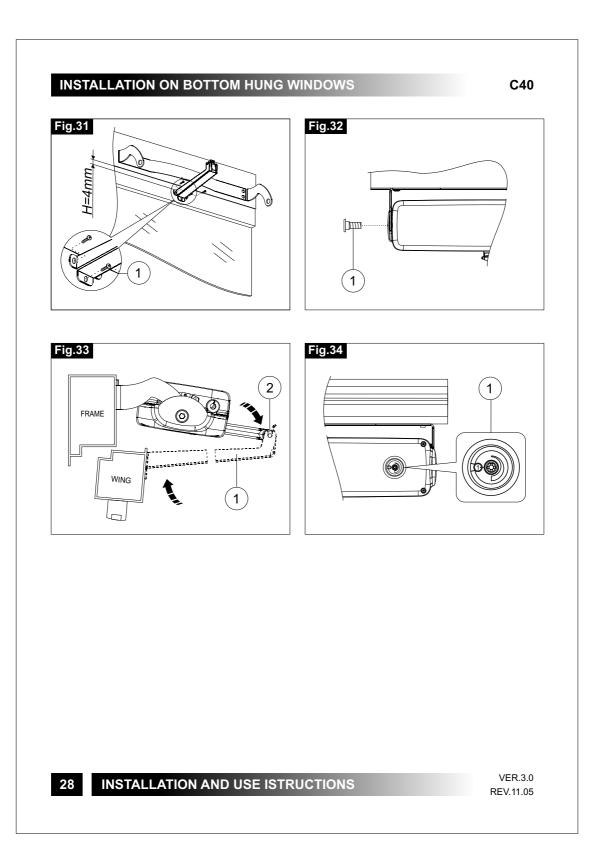
C40 **DEMOLITION -7** 7.1-GENERAL INSTRUCTIONS THE DEMOLITION OF THE ACTUATOR MUST OCCUR IN COMPLIANCE WITH THE LAWS IN FORCE ON ENVIRONMENT PROTECTION. DIFFERENTIATE THE PARTS MAKING UP THE ACTUATOR ACCORDING TO THEIR DIFFERENT MATERIAL TYPE (PLASTIC, ALUMINIUM, ETC.). **SPARE PARTS AND ACCESSORIES UPON REQUEST -8** C40 **8.1- GENERAL INSTRUCTIONS** THE USE OF "NON-ORIGINAL" SPARE PARTS AND ACCESSORIES WHICH MAY ENDANGER THE SAFETY AND THE EFFICIENCY OF THE ACTUATOR IS FORBIDDEN. THIS ACTION SHALL INVOLVE THE WARRANTY EXPIRATION. ORIGINAL SPARE PARTS AND ACCESSORIES HAVE TO BE REQUESTED EXCLUSIVELY TO YOUR DEALER OR TO THE MANUFACTURER STATING TYPE, MODEL, SERIAL NUMBER, AND YEAR OF CONSTRUCTION OF THE ACTUATOR. VER.3.0 INSTALLATION AND USE ISTRUCTIONS 23 REV.11.05

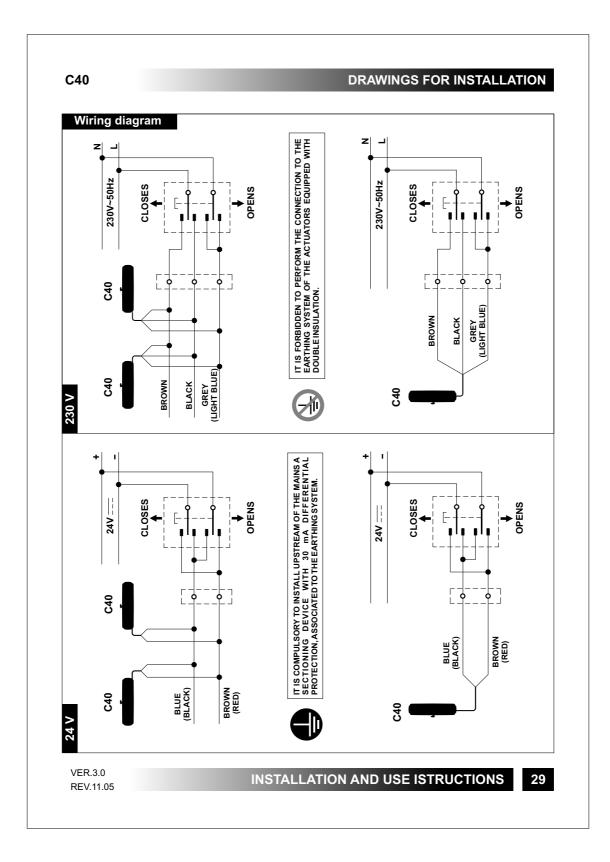


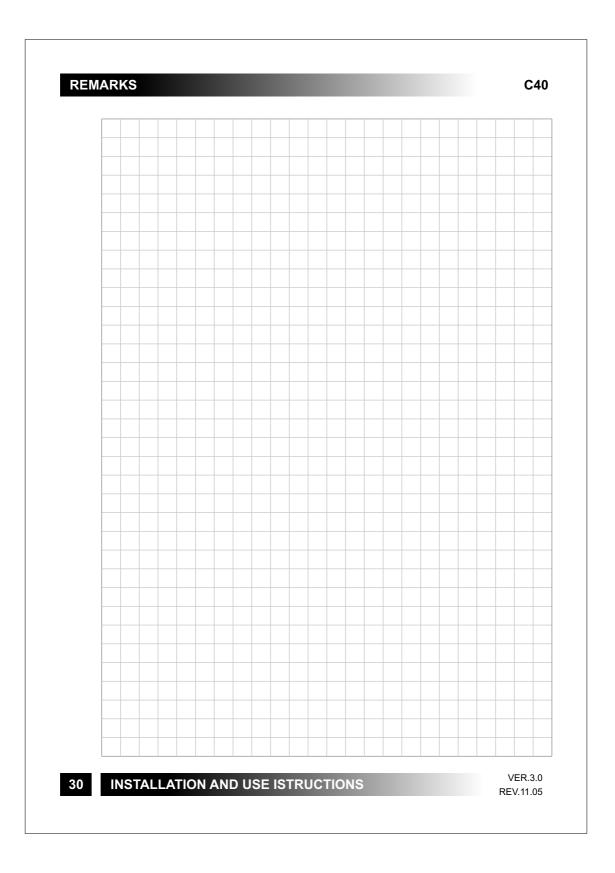












CERTIFICATE OF GUARANTEE

The warranty for the products, and their single parts, defective for poor materials or manufacturing defects is extended for a period of 24 months from the date of dispatch by the manufacturer.

The manufacturer provides that the products are reliable, which means that he undertakes to repair or replace free of charge any of the parts proved to be defective in materials or manufacturing during the warranty period, in the shortest possible time. The purchaser shall not expect any refund for any damage due to improper installation or any other expenses. Such warranty will not however apply to any particularly fragile parts, or to parts exposed to natural wear as well as to corrosive operations and to current overloads (even if only temporary), etc. The manufacturer shall not be considered liable against any damages due to improper installation, manoeuvring or insertion, as well as to excessive solicitations or misuse.

The manufacturer shall not be liable if the product has been modified, dismantled, if the label is missing or if it shows clear signs of collision or other. Repairs under guarantee are considered "ex manufacturer's factory", which means that all the arising transport expenses (in- and outward) are always to the purchaser charge. For any inspections by a skilled staff, cost of labour shall be to the manufacturer charge. Displacement costs (in- and outward journey), journey hours, board and lodging must, on the other hand, be refunded from the purchaser. Such warranty has validity only if the present form, being part of the instructions manual, is duly filled in and the damage cause is clearly described in the assistance report.

The products must be installed and used in compliance with the technical features and the instructions given by TOPP, as well as according to the safety regulations and the standards that rule the installation and employment of the electrical devices in the country where the products are installed and used. For such reason, the purchaser expressly relieves TOPP from any responsibility arising from improper use, from the inobservance of the safety regulations, of the technical specifications as well as of the operating instructions.

| MODEL | | TECHNICAL REPORT | |
|---|----------------------------|------------------|--|
| SERIAL No. | | | |
| CUSTOMER | | | |
| ADDRESS | | | |
| RETAILER'S | NAME (STAMP AND SIGNATURE) | | |
| | | | |
| | | | |
| | | | |
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