

LYRA - JACK

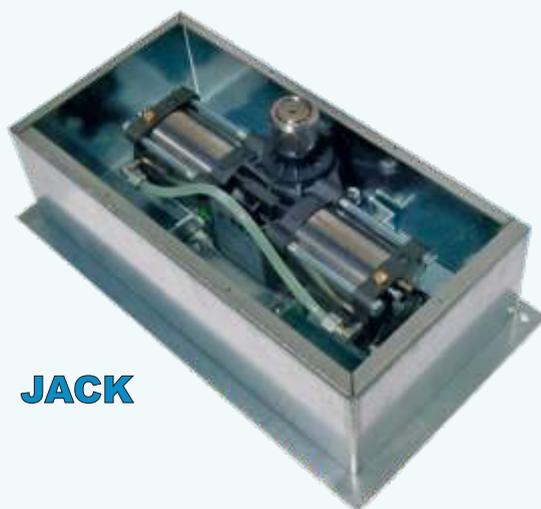
IN-GROUND HYDRAULIC OPERATOR



LYRA



JACK
CARRYING BOX



JACK

SEA S.p.A.

Zona Industriale Sant'Atto - 64100 - Teramo - ITALY
Telephone: + 39 0 861 588341 - Fax: + 39 0 861 588344

www.seateam.com

GENERAL FEATURES

The **LYRA JACK** is made of a hydraulic pump and a hydraulic jack. The jack is placed inside a **NON-CARRYING BOX** or inside a **STAINLES STEEL CARRYING BOX** according to the model.

The **LYRA pump unit** casing is used as an oil tank and contains the electric motor, the hydraulic pump, the distributor and the hydraulic oil. The **JACK** is composed by a double piston connected to a rack which engages with the pinion of the leaf dragging shaft.

Gates up to 2 meters long can be securely locked using the operators internal hydraulic locking system, to ensure a perfect keeping in opening and closing. For **gates of length over 2 meters** it is advisable to use operators without hydraulic lock and separate electrical locking device to ensure keeping in closing.

The operator can be **optionally** provided with an **adjustable hydraulic slowing-down device** operating in both opening and closing (**during the last 15° of rotation**).

The operator is equipped with a release system for the manual opening of the leaves in case of power failure

COMPONENTS

LYRA - HYDRAULIC UNIT

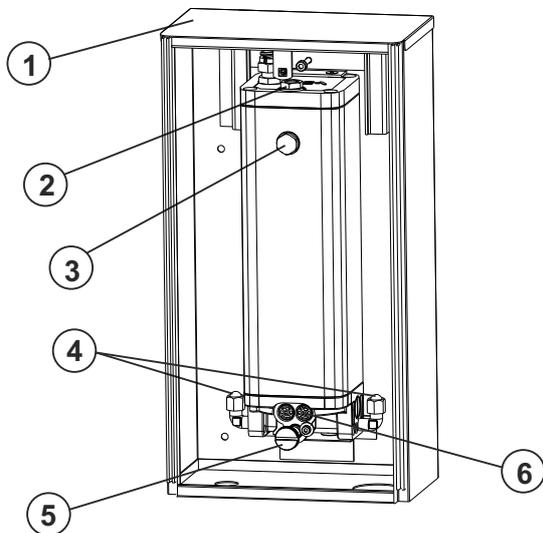


Fig. 1

- | | |
|-----------------------|--|
| 1 External box | 10 Foundation box |
| 2 Oil filler cap | 11 Foundation base |
| 3 Oil level indicator | 12 Braking adjustment screw (optional) |
| 4 Hydraulic fittings | 13 Greaser |
| 5 Release screw | 14 Rod support |
| 6 By-Pass Valves | 15 Draining screw |
| 7 Jack | 16 Electric cable exit hole |
| 8 Broached bush | 17 Water draining hole |
| 9 Box lid | |

JACK - NON-CARRYING BOX

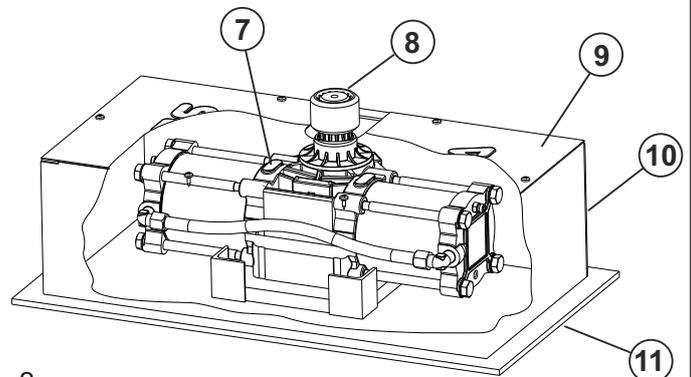


Fig. 2

JACK - CARRYING BOX

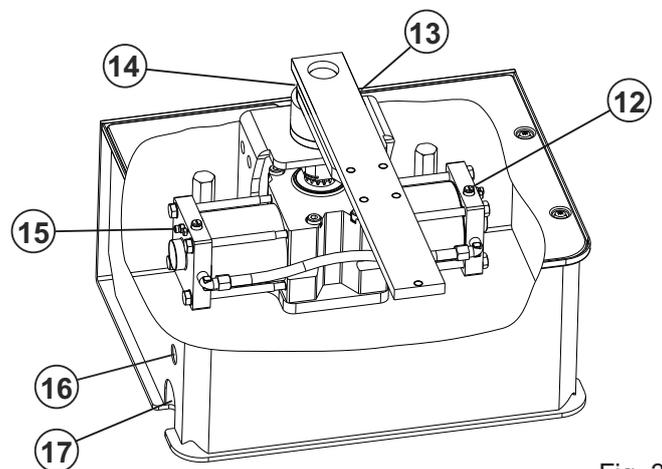


Fig. 3

APPLICATION CHARTS

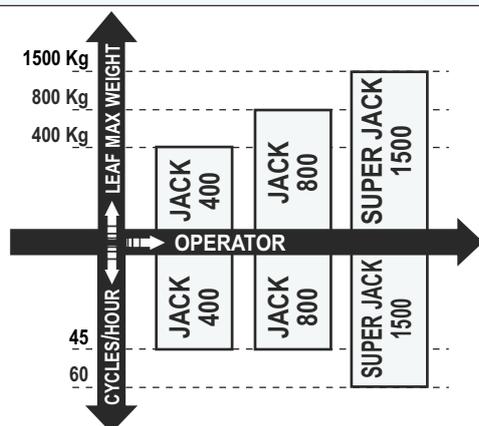


Fig. 4

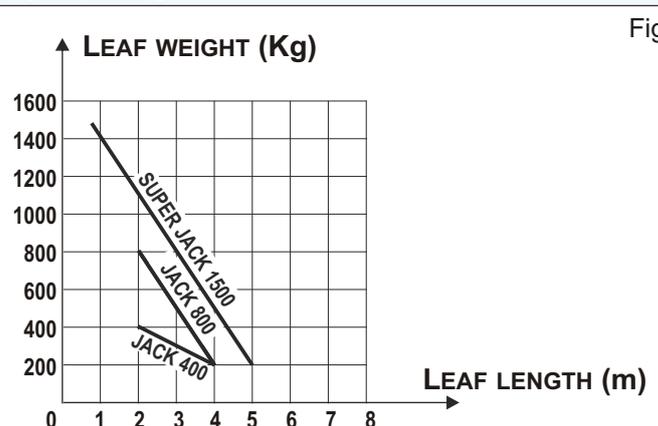


Fig. 5

TECHNICAL DATA	LYRA	SUPER LYRA	JACK 400	JACK 800	JACK 1500
POWER SUPPLY	230 Vac 50/60 Hz		—		
MOTOR POWER	220W	310W	—		
MOTOR ROTATION SPEED	1400 rpm		—		
ANGULAR SPEED	—		7° / s		8,2° / s
CYCLES HOUR (T = 20°C)	—		45		60
OPERATING TEMPERATURE	-20°C ↕ +55°C ↕				
THERMAL PROTECTION	130°	150°	—		
MAX TORQUE	—		56 daNm		75daNm
STARTING CAPACITOR	12,5 µF	10 µF	—		
PUMP CAPACITY	1 L	1,5 L	—		
HYDRAULIC SLOWDOWN	—		15° OPENING/CLOSING (OPTIONAL)		
OPERATOR Weight	—		8 Kg		
PROTECTION CLASS	IP67				
MAX. LEAF WEIGHT	—		400 Kg	800 Kg	1500 Kg
MAX. LEAF LENGTH	—		4 m		5 m
«JACK» ROTATION ANGLE	—		100° - 140° - 180°		100°

- ➔ The indicated frequency of use is valid only for the first operating hour and at a 20°C temperature
- ➔ DO NOT enable the electronic slow-down on the control unit if the operator is equipped with hydraulic slow-down

DIMENSIONS (in mm)

LYRA - HYDRAULIC UNIT

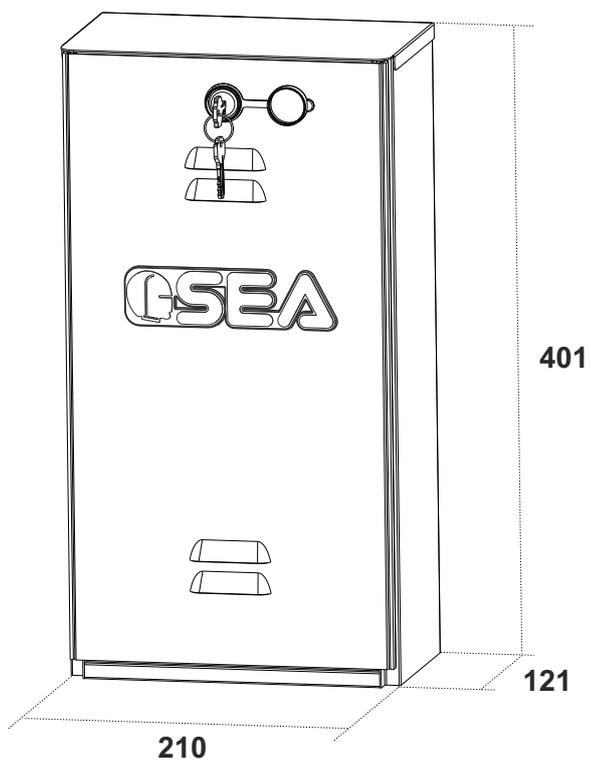


Fig. 6

JACK - NON-CARRYING BOX

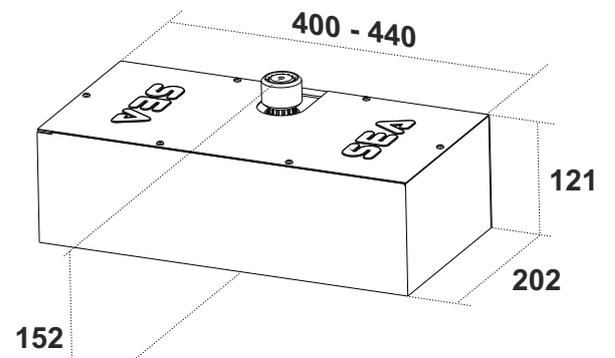


Fig. 7

400 mm → 100° - 140°
440 mm → 180°

JACK - CARRYING BOX

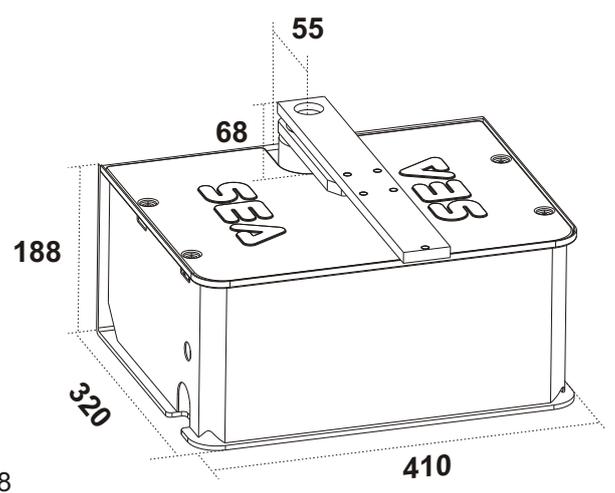


Fig. 8

1 - GATE ARRANGEMENTS

Before the installation, check that all gate parts (fixed and mobile) have a resistant and non-deformable structure; also make the following checks:

- 1.1. the leaves must be rigid and compact;
- 1.2. the weight and length of each leaf should not exceed the values supported by the specific operator model (see tables);
- 1.3. the hinges and the structure of the gate must operate smoothly throughout the execution of the movement, without frictions or obstacles

ONLY THE UPPER HINGE IS SUFFICIENT TO INSTALL THE OPERATOR;

- 1.4. **THE INSTALLATION OF THE MECHANICAL STOPS IN OPENING AND CLOSING IS ALWAYS NECESSARY**

2 - INSTALLATION OF THE FOUNDATION BOX (NON-CARRYING BOX)

To install the foundation NON CARRYING box:

- 2.1. Based on the measurements shown in Fig. 9, prepare an excavation inside which the foundation box will be cemented

⚠ IT IS MANDATORY TO RESPECT THE MINIMUM DISTANCE OF THE ROTATION AXIS FROM THE PILLAR - 55 mm

- 2.2. Provide a **PVC DRAIN PIPE OF 40 mm Ø AT LEAST FOR THE DRAINAGE OF RAINWATER**, to be inserted in the slot inside the box before it is cemented (Fig. 10); **BRING THE PIPE TO THE DRAIN OF THE SEWER LINE**

- 2.3. Provide a **FLEXIBLE PLASTIC SHEATH OF 32 mm Ø AT LEAST FOR THE PASSAGE OF THE HYDRAULIC PIPES**, to be inserted in the slot inside the box before it is cemented (Fig. 10); **BRING THE PIPES UP TO THE «LIRA» HYDRAULIC UNIT**

- 2.4. Before cementing the foundation box, make sure that it is perfectly horizontal and perpendicular to the axis of the gate, using a level (Fig. 11 - Fig. 12)

Fig. 9

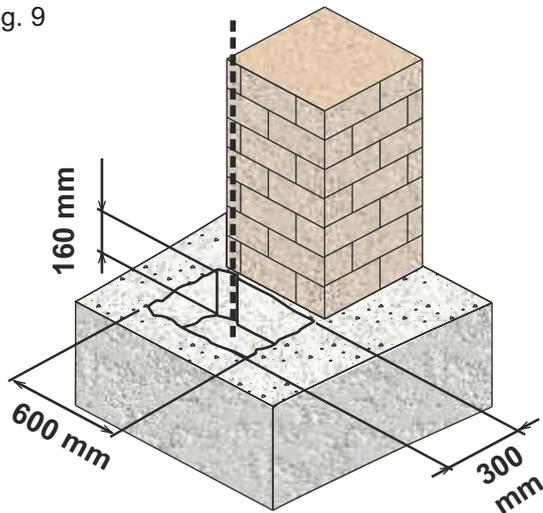


Fig. 10

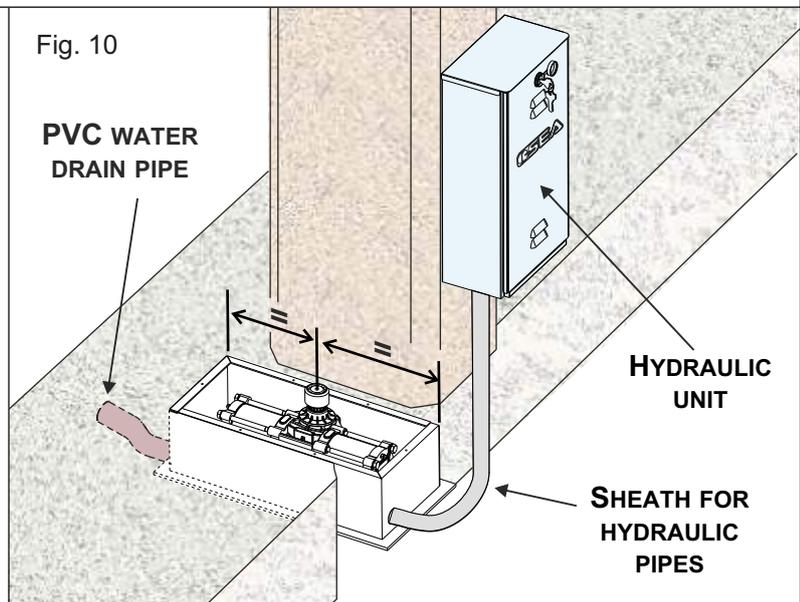


Fig. 11

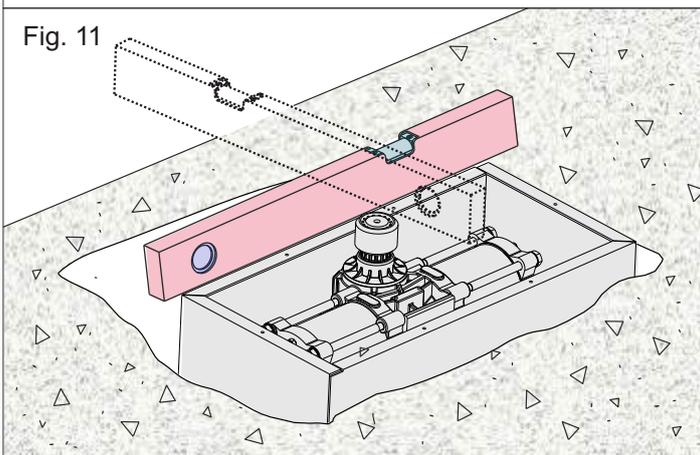
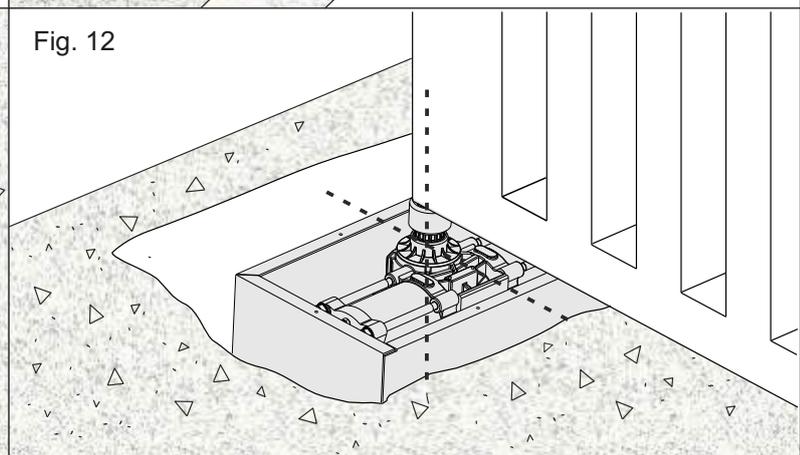


Fig. 12



3 - «JACK» INSTALLATION INSIDE THE NON-CARRYING BOX

3.1. Place the jack in the foundation box (Fig.13), positioning the axis of the output shaft aligned with the axis of the gate hinge; weld the 4 corners to fix (Fig.14)

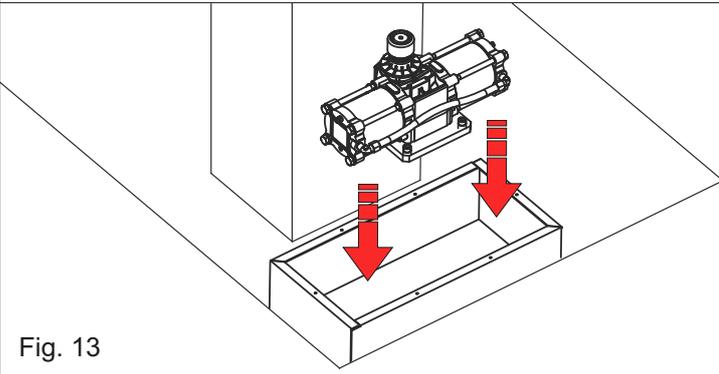


Fig. 13

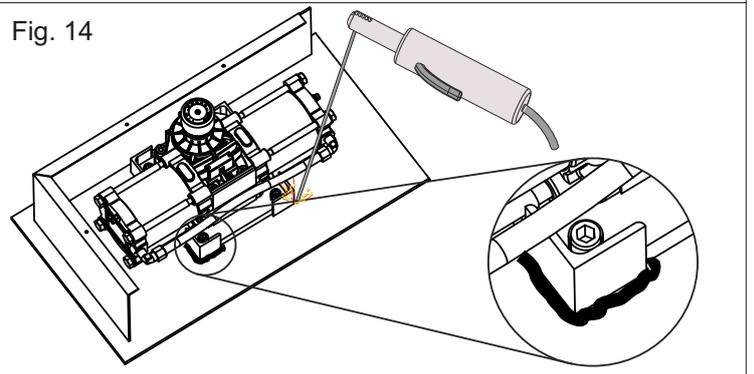


Fig. 14

4 - LEAF INSTALLATION ON THE NON-CARRYING BOX

4.1. Insert the broached bush on the jack shaft.

4.2. Turn the jack shaft toward closing until it stops.

⚠ FOR OPERATORS WITH BRAKE: MAKE SURE THAT THE JACK HAS REACHED THE STOP AND NOT ONLY THE SLOWDOWN BEGINNING POINT!

4.3. Move the leaf back about 5° and weld the bush to the with «U» shaped iron bar (not supplied), and to the gate leaf (Fig. 15)

4.4. Caution! Do not place the leaf outside the axes (Fig. 17 and 18); make sure that the shaft coincides with the rotation axis of the jack (Fig. 16)

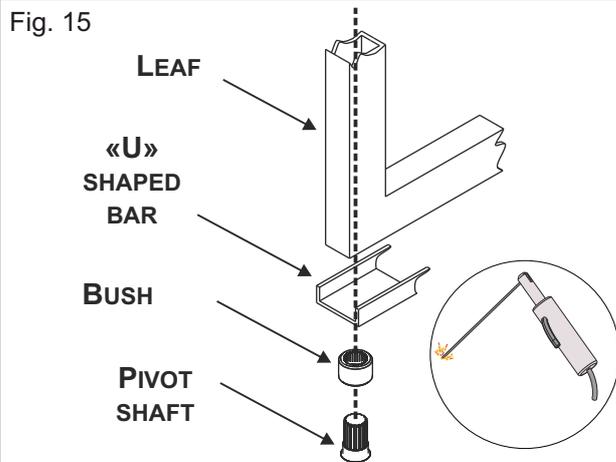


Fig. 15

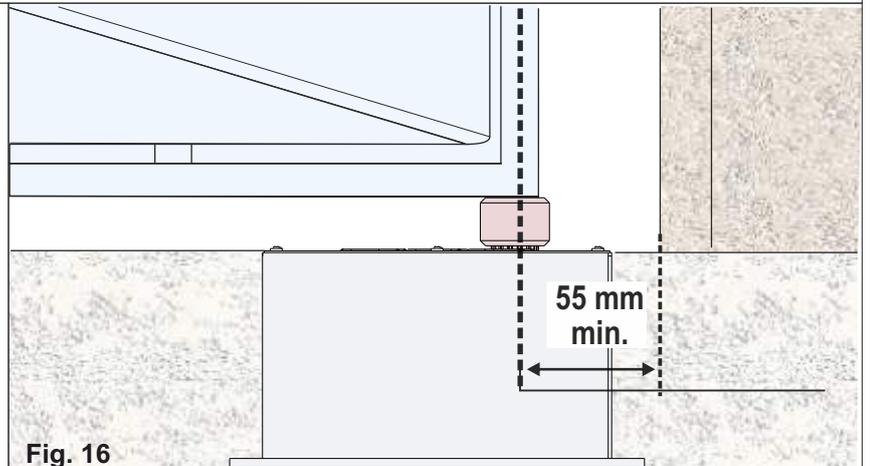


Fig. 16

⚠ DO NOT PLACE THE LEAF OUTSIDE THE AXES (FIG. 17 - 18); MAKE THE SHAFT COINCIDE WITH THE ROTATION AXIS OF THE LEAF HINGE; THE MINIMUM DISTANCE FROM THE COLUMN MUST BE 55 MM (FIG. 16)

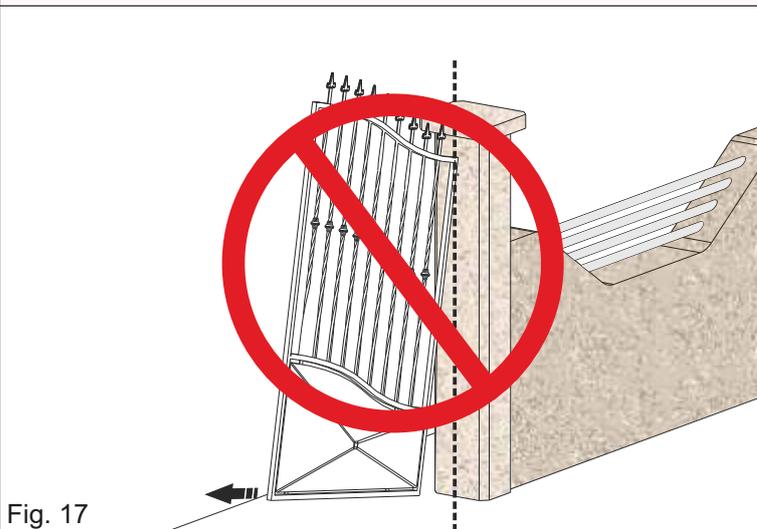


Fig. 17

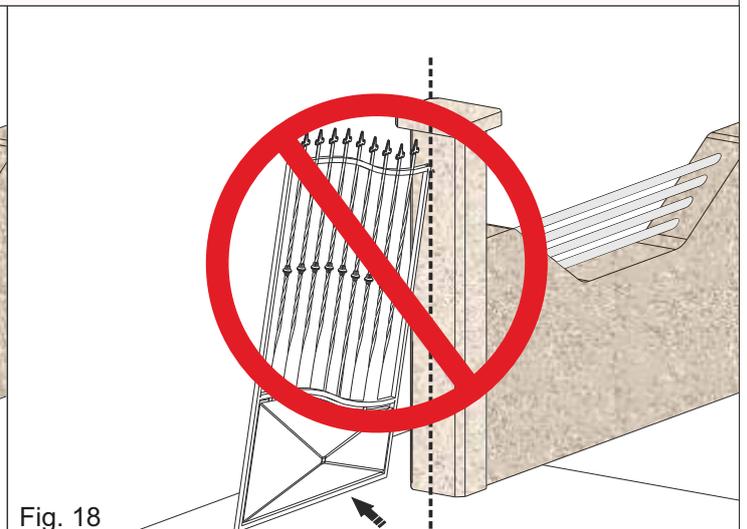


Fig. 18

5 - INSTALLATION OF THE CARRYING BOX (STAINLESS STEEL BOX)

To install the foundation CARRYING box:

5.1. Based on the measurements shown in Fig. 19, prepare an excavation inside which the foundation box will be cemented

! *IT IS MANDATORY TO RESPECT THE MINIMUM DISTANCE OF THE ROTATION AXIS FROM THE PILLAR - 55 mm*

5.2. Provide a **PVC DRAIN PIPE OF 40 MM Ø AT LEAST FOR THE DRAINAGE OF RAINWATER**, to be inserted in the slot inside the box before it is cemented (Fig. 20); **BRING THE PIPE TO THE DRAIN OF THE SEWER LINE**

5.3. Provide a **FLEXIBLE PLASTIC SHEATH OF 32 MM Ø AT LEAST FOR THE PASSAGE OF THE HYDRAULIC PIPES**, to be inserted in the slot inside the box before it is cemented (Fig. 20); **BRING THE PIPES UP TO THE «LIRA» HYDRAULIC UNIT**

5.4. Before cementing the foundation box, make sure that it is perfectly horizontal and perpendicular to the axis of the gate, using a level (Fig. 21 - Fig. 22)

Fig. 19

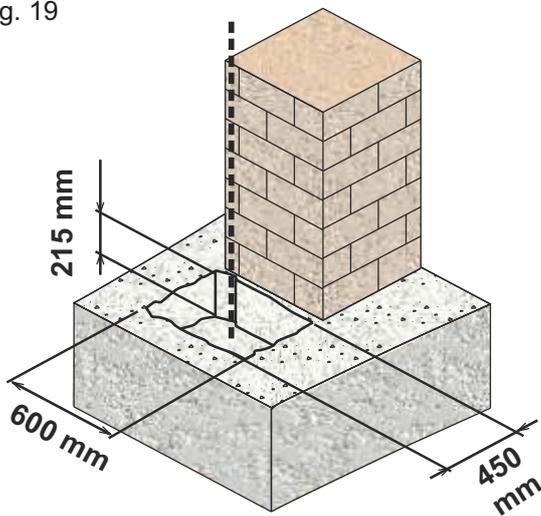


Fig. 20

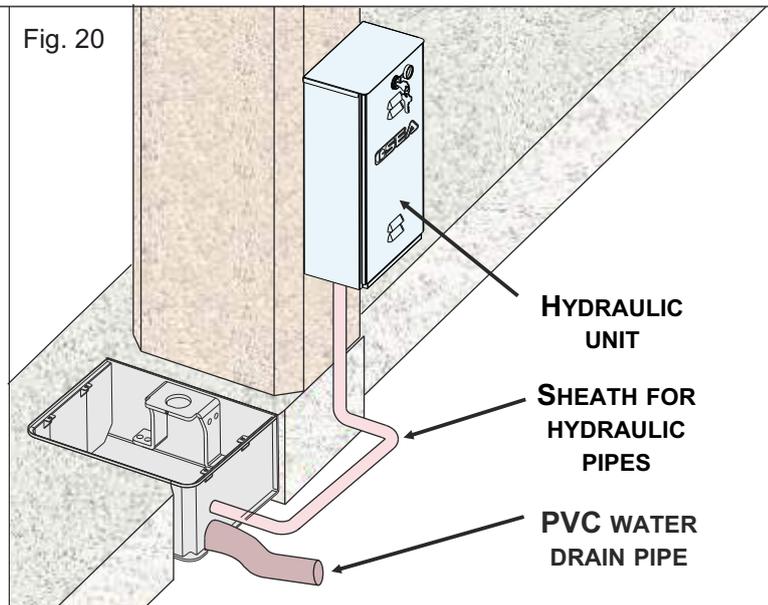


Fig. 21

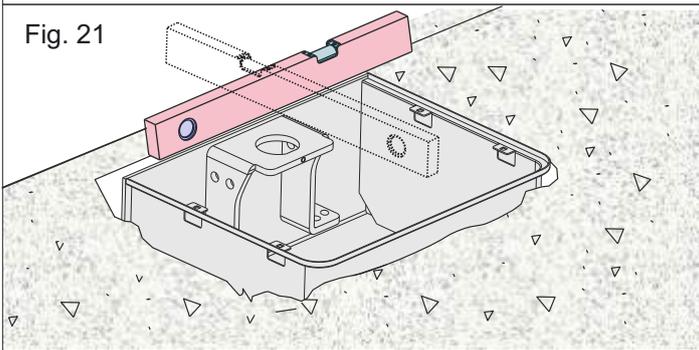
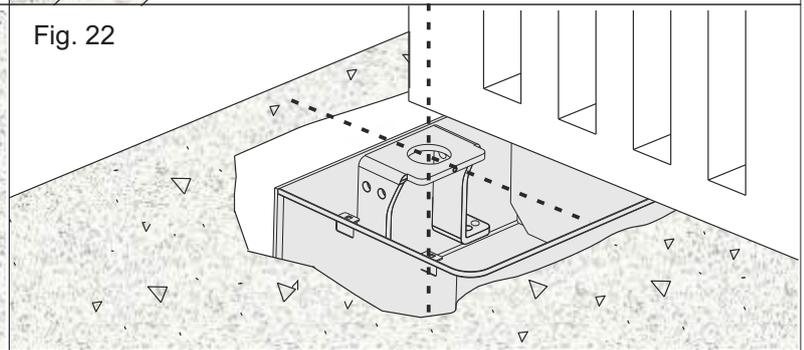


Fig. 22



6 - ASSEMBLY OF THE LEAF SUPPORTING RODS

! *WARNING! BEFORE ASSEMBLY, LUBRICATE ALL COMPONENTS WITH THE SUPPLIED GREASE*

6.1. Insert the sliding bushing into the box and secure it with the appropriate screw «A» (Fig. 23)

6.2. Insert all assemblies as shown in Fig. 23

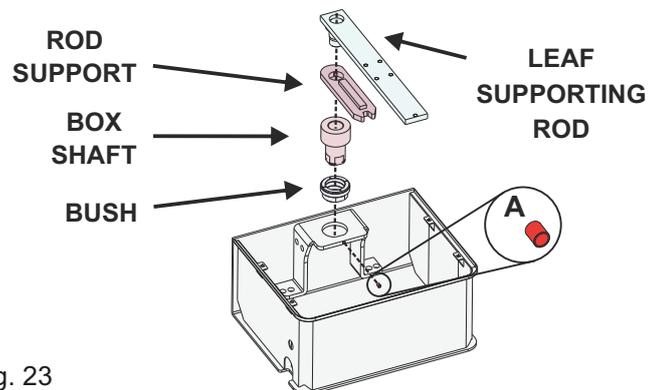


Fig. 23

7 - LEAF INSTALLATION ON THE CARRYING BOX

⚠ BEFORE INSTALLING THE LEAF ON THE FOUNDATION BOX, MAKE SURE THAT THE CONCRETE INSIDE THE EXCAVATION IS PERFECTLY SOLIDIFIED

4.1. Place the gate leaf on the support rod, taking care to make the rotation axis of the leaf hinge coincide with the rotation axis of the support; be sure to respect the perpendicularity with the rotation axis (Fig. 24 - Fig. 25)

4.2. Carefully weld the support rod to the leaf, making fixing sections of about 3 or 4 cm along the contact surface and avoiding welding near the threaded holes (Fig. 26)

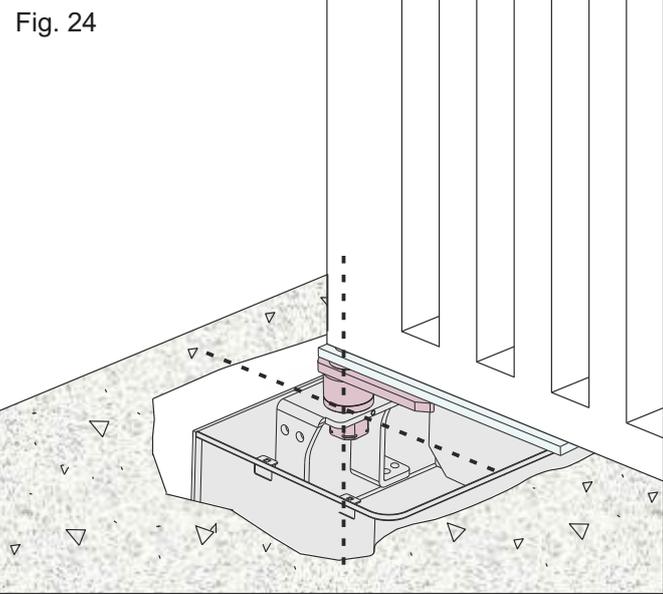


Fig. 24

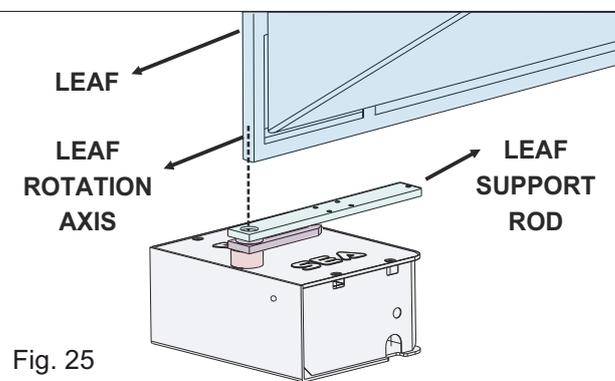


Fig. 25

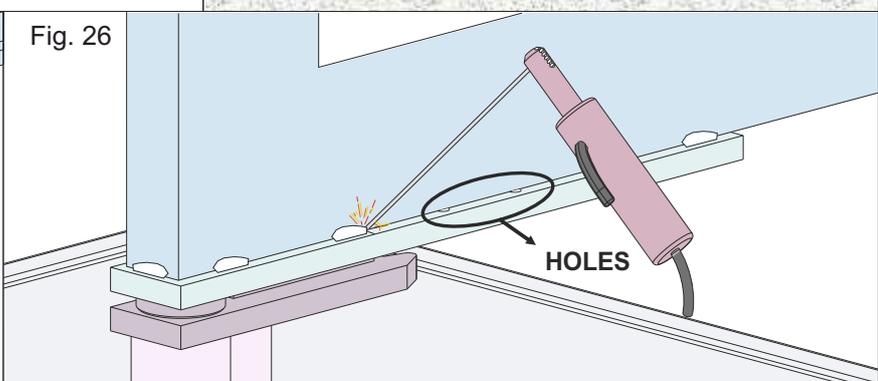


Fig. 26

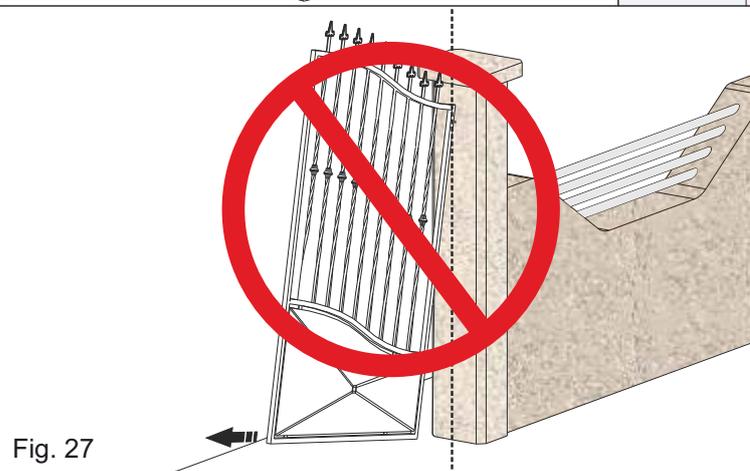


Fig. 27



Fig. 28

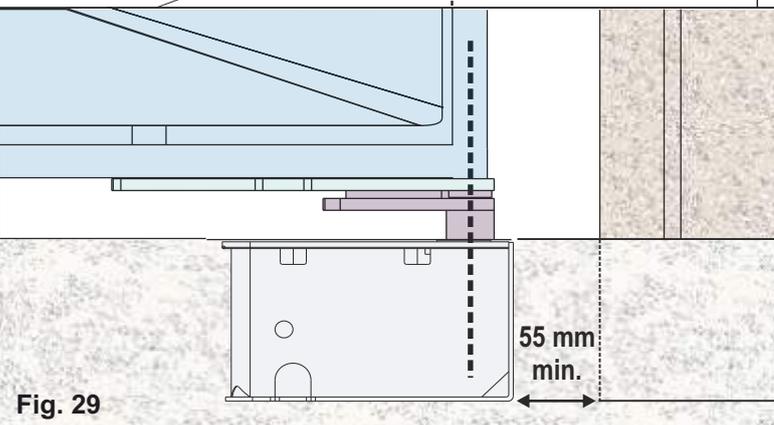


Fig. 29

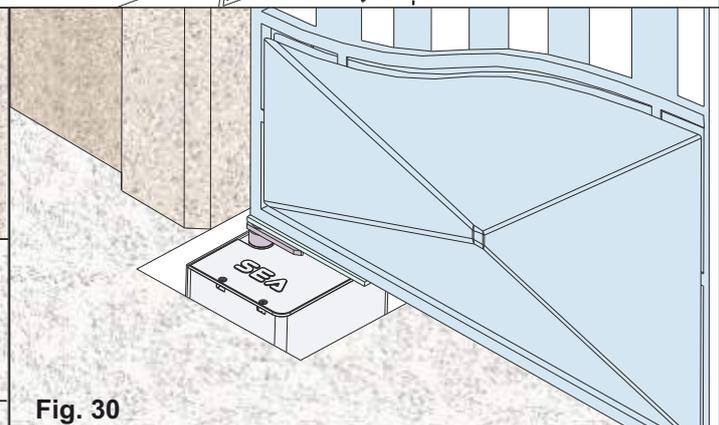


Fig. 30

⚠ DO NOT PLACE THE LEAF OUTSIDE THE AXES (FIG. 27 - 28); MAKE THE SHAFT COINCIDE WITH THE ROTATION AXIS OF THE LEAF HINGE; THE MINIMUM DISTANCE FROM THE COLUMN MUST BE 55 MM (FIG. 29) GREASE ALL PARTS BY THE USE OF THE SPECIAL GREASER (FIG.61), UNTIL THE GREASE COMES OUT FROM BOTH SIDES

8 - «JACK» INSTALLATION INSIDE THE CARRYING BOX

**MAKE SURE TO MOUNT THE OPERATOR IN THE CORRECT POSITION;
 REFER TO THE FOLLOWING DRAWINGS TO EXECUTE THE CORRECT OPERATOR POSITIONING SEQUENCE**

- 8.1.** Position the operator in correspondence with the carrying box and insert it vertically, making sure it is positioned in the correct direction, as shown in Fig. 31
- 8.2.** Once the operator has been placed into the box, move it forward (Fig. 32) until the splined shaft of the operator is in correspondence with the hole of the box shaft
- 8.3.** Lift the operator and insert its shaft inside the box shaft (Fig. 33)
- 8.4.** Secure the operator by acting on the screws «1» and «2» as shown in Fig. 34
- 8.5.** Make the connections of the hydraulic pipes to the unit and to the jack (*Chap. 12 - Fig. from 50 to 53*)

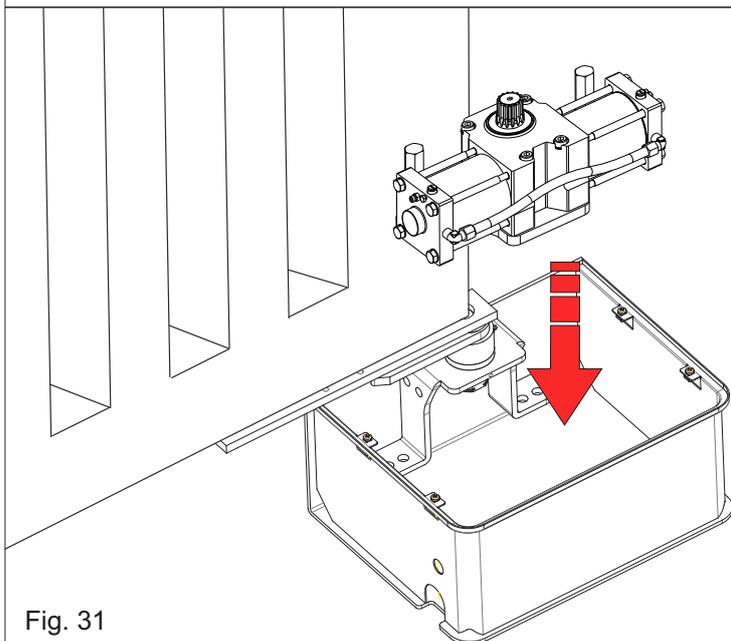


Fig. 31

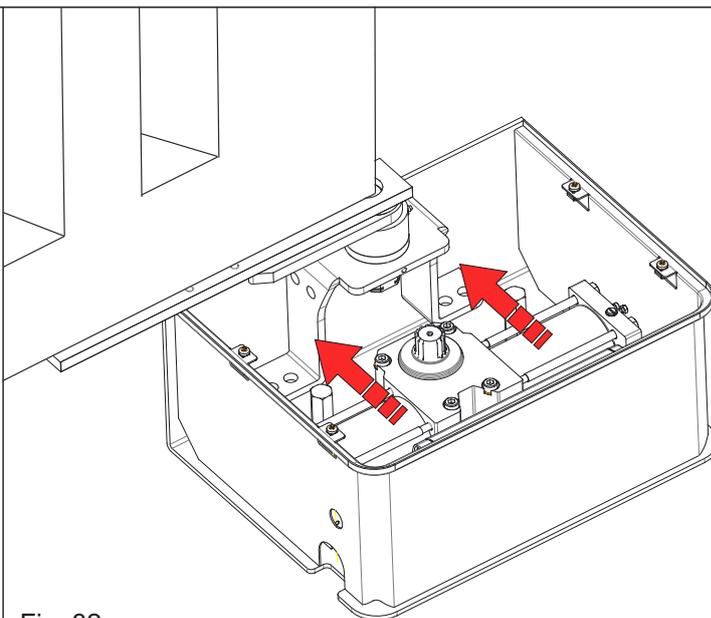


Fig. 32

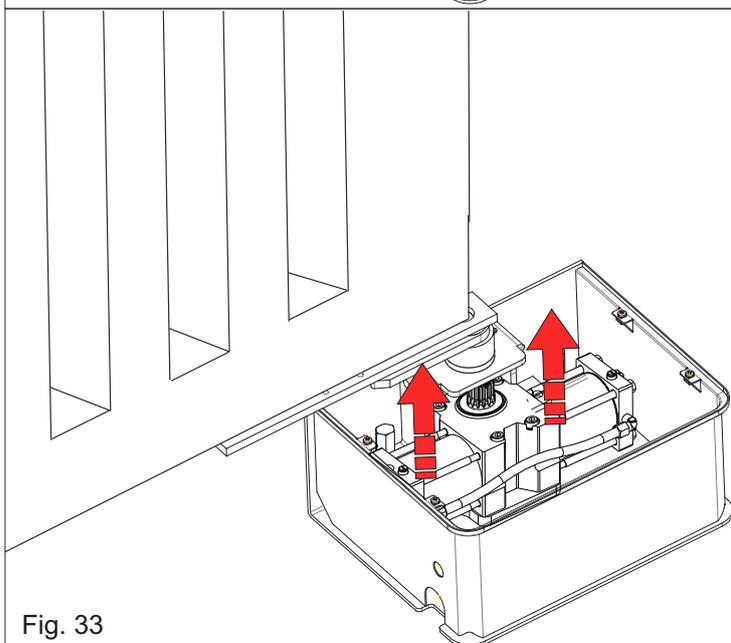


Fig. 33

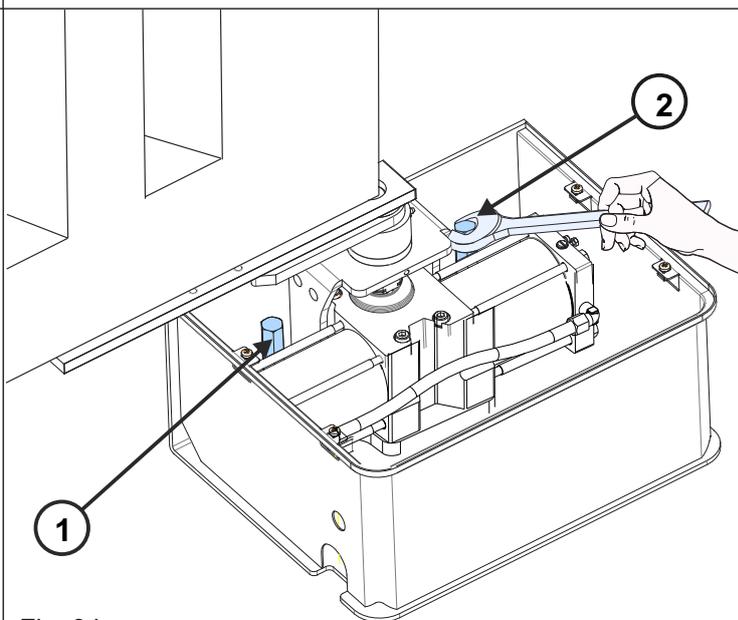


Fig. 34

⚠ IT IS ADVISABLE TO WELD THE ROD SUPPORT AND THE BOX SHAFT (FIG. 36) AFTER INSTALLING THE OPERATOR INSIDE THE BOX, IN ORDER TO TAKE ADVANTAGE OF ALL THE AVAILABLE STROKE AND, FOR VERSIONS WITH HYDRAULIC SLOWDOWN, TO SIMPLIFY THE REACHING OF THE DESIRED SLOWDOWN STARTING POINT

BEFORE WELDING THE TWO COMPONENTS, BE CAREFUL THAT ONE OF THE SHAFT PLANES COINCIDES WITH ONE OF THE ROD SUPPORT SIDES (FIG. 35) TO ENSURE THE MAXIMUM ANGLE WHEN THE «MECHANICAL STOP KIT» IS INSTALLED

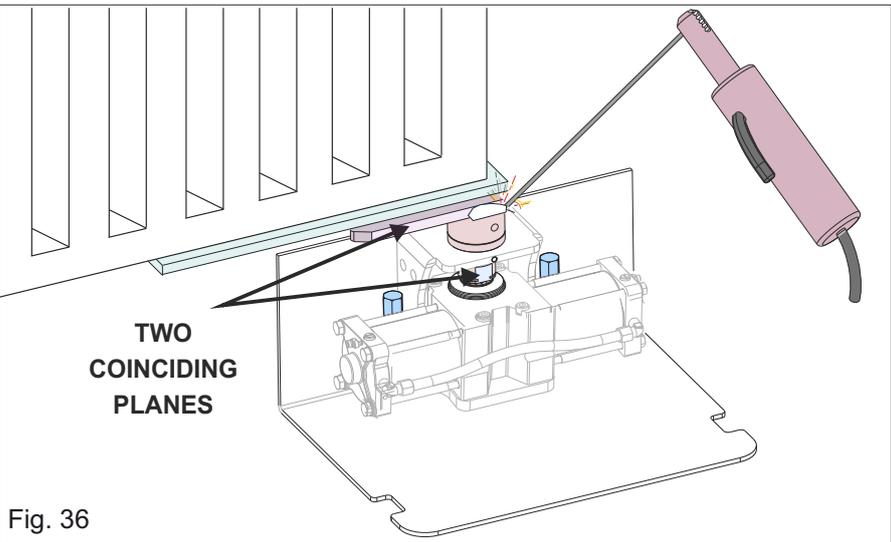
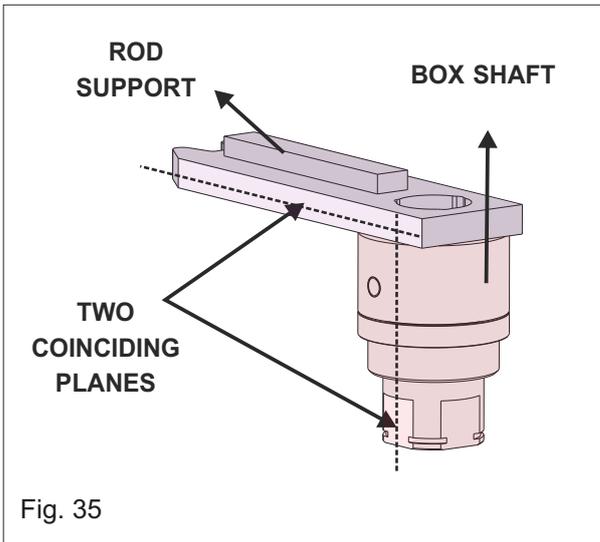


Fig. 35

Fig. 36

⚠ WELD ONLY AT THE TIME OF INSTALLATION (IN CASE THE OPERATOR IS INSTALLED LATER)

9 - ADJUSTABLE MECHANICAL STOP INSTALLATION

- 9.1. Insert the stop bracket into the box shaft, ***making sure it is oriented in the same direction of the leaf support bracket***, then lock it with the seeger (Fig. 37 and Fig. 38)
- 6.2. Fix the two stop supports «A» to the box using the provided screws «B» and their fixing bolts (Fig. 39)
- 6.3. Insert the two «stop screws» «C» into the special housings on the stop supports, using the bolts «D» as shown in (Fig. 39)

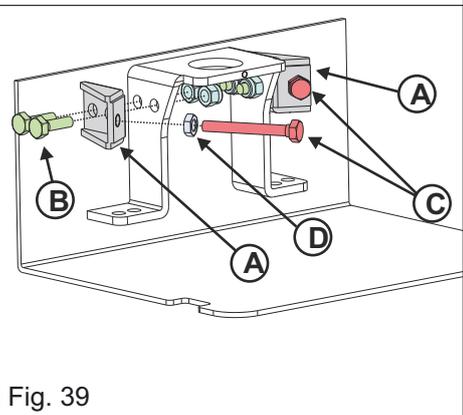
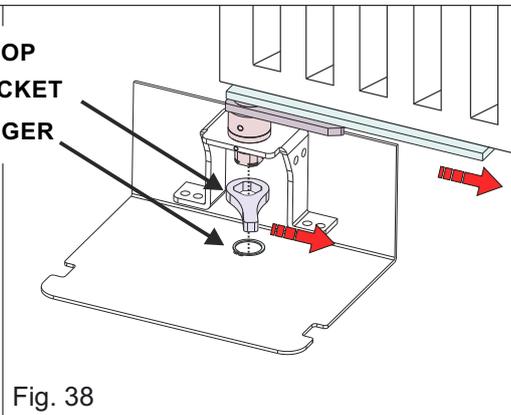
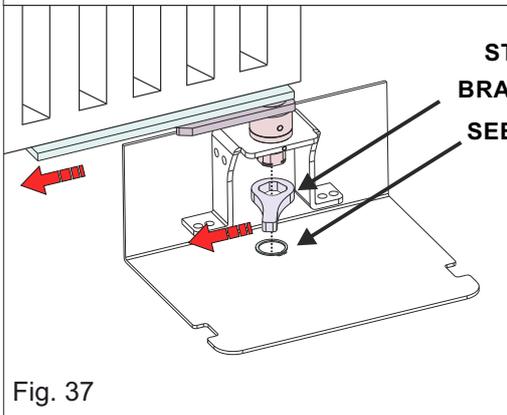


Fig. 37

Fig. 38

Fig. 39

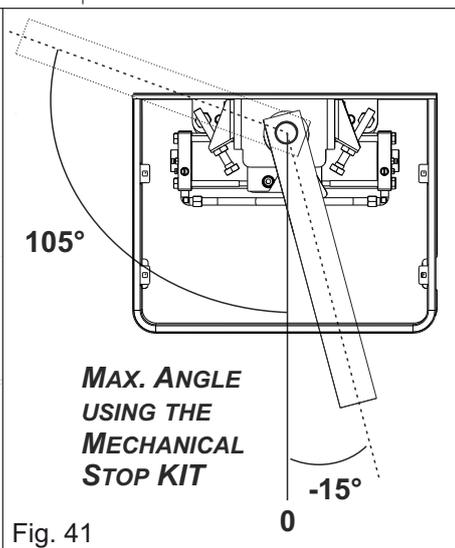
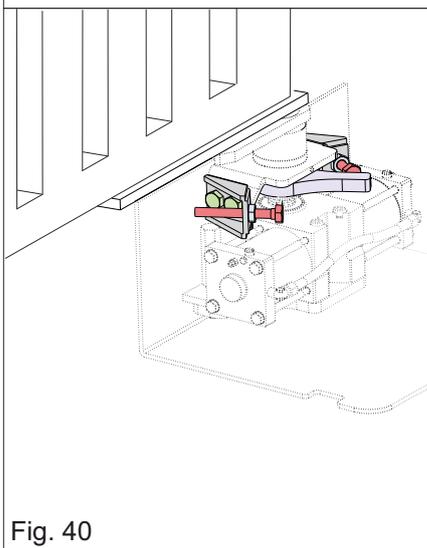


Fig. 40

Fig. 41

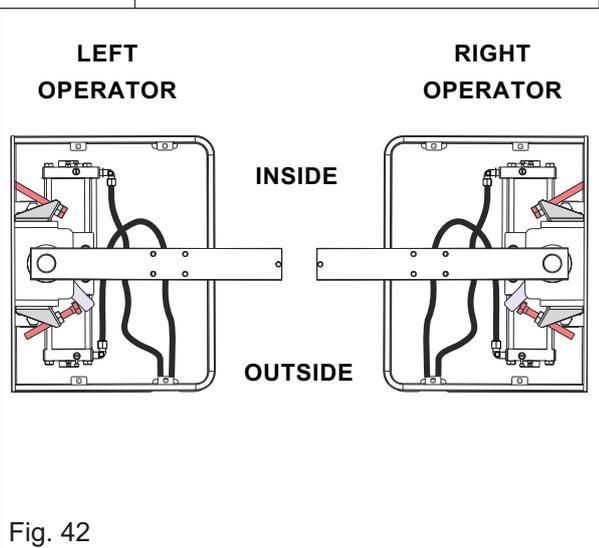


Fig. 42

10 - RELEASE MOUNTING - BASIC RELEASE / PLUS RELEASE

TWO TYPES OF RELEASE ARE AVAILABLE FOR «JACK» OPERATORS WITH CARRYING BOX:

BASIC RELEASE (WITH CUSTOMIZED KEY) OR PLUS RELEASE (WITH DIN KEY)

10.1. BASIC RELEASE: grease the coupling pin «A» and mount the release system under the leaf support rod using the 4 supplied screws (Fig. 43a)

10.2. PLUS RELEASE: grease the coupling pin «B» and mount the release system under the leaf support rod using the 5 supplied screws (Fig. 44a)

FOR THE ELECTRICAL WIRINGS OF THE RELEASE, REFER TO THE ELECTRONIC CONTROL UNIT USER MANUAL

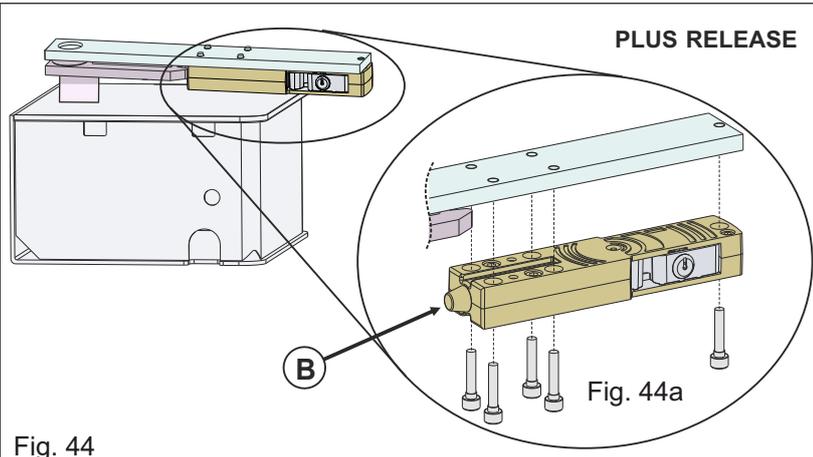
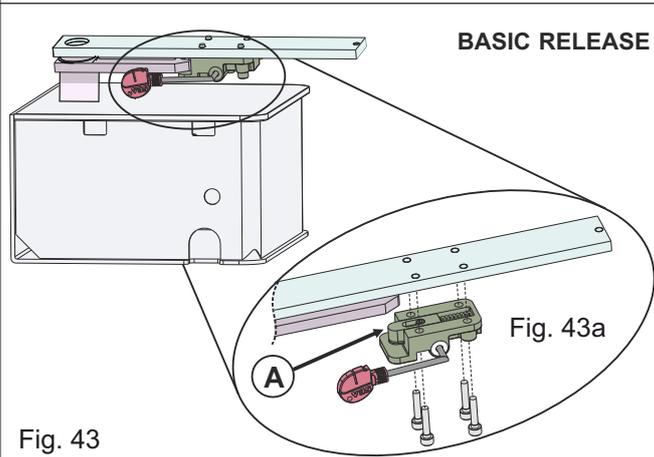


Fig. 43

Fig. 44

11 - RELEASE SYSTEM - BASIC RELEASE / PLUS RELEASE

 **ALL THE UNLOCKING AND LOCKING OPERATIONS MUST BE CARRIED OUT ONLY WHEN THE POWER SUPPLY IS OFF!**

11.1. BASIC RELEASE

TO UNLOCK

- insert the supplied Allen key in the slot «A» and turn 180° toward the center of the gate (Fig. 45)
- hold the key and move the leaf; once the desired leaf position has been reached, turn the key to its original position and remove it

TO LOCK

- move the leaf to its original position until the release system is re-hooked.

11.2. PLUS RELEASE

TO UNLOCK

- insert the supplied key into the lock and turn it 90° clockwise (Fig. 46)
- pull the key outwards up to its stop in order to extract the handle of the release system (Fig. 47)
- move the leaf to the desired position, close the handle of the release system and remove the key

TO LOCK

- move the leaf to its original position until the release system is re-hooked.

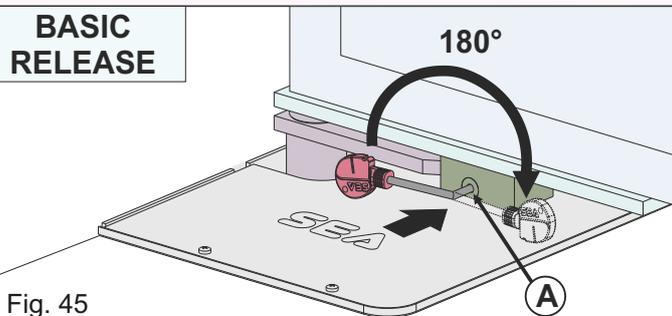


Fig. 45

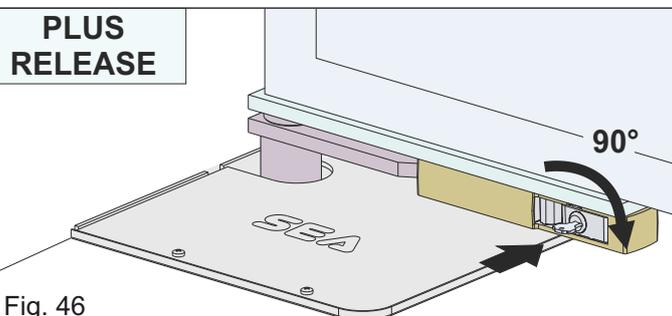


Fig. 46

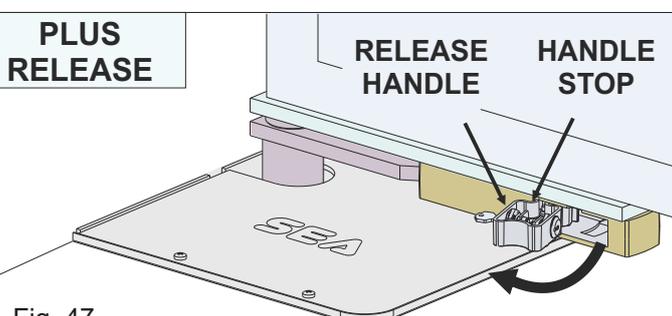


Fig. 47

12 - «LYRA» HYDRAULIC UNIT BOX WALL MOUNTING

12.1. Fix the «LYRA» box to the wall using the screws, as shown in Fig. 48

12.2. Connect the hydraulic pipes to the hydraulic unit and to the jack (Figures 49 to 53).

Fig. 48

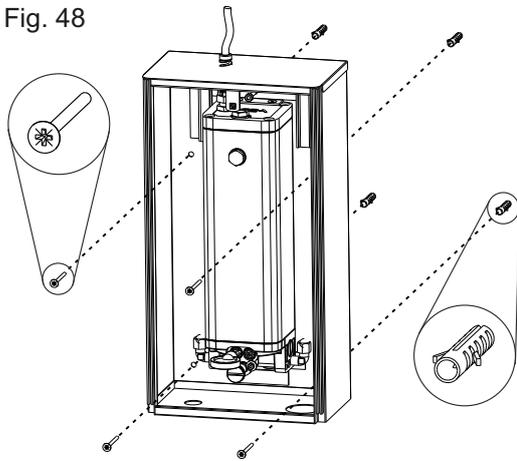


Fig. 49

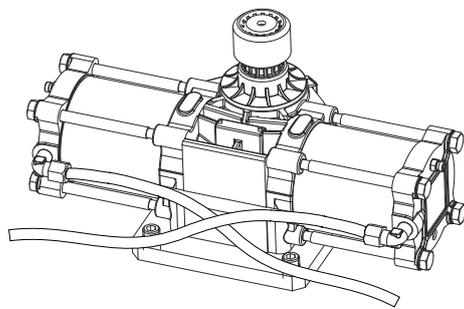
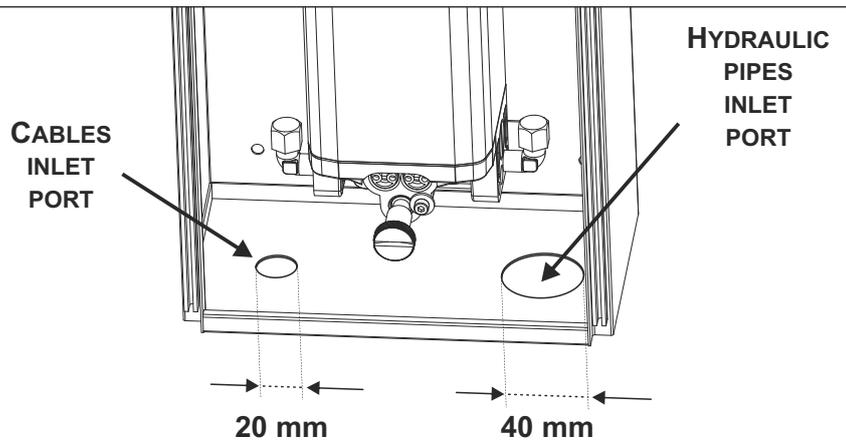


Fig. 50

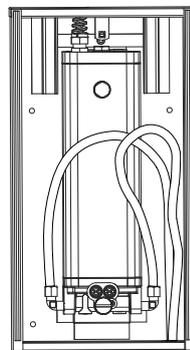


Fig. 51

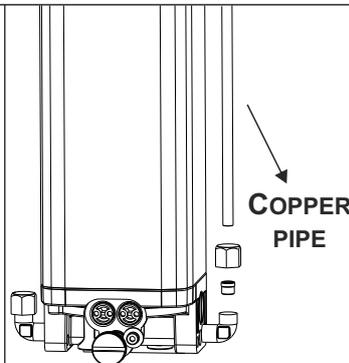


Fig. 52

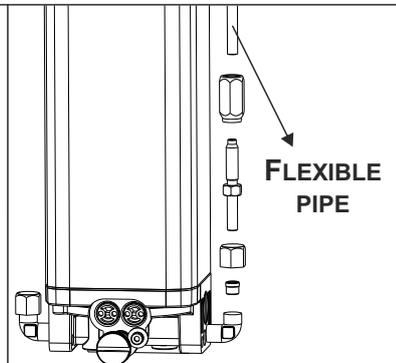


Fig. 53

13 - BREATHER CAP REMOVAL

13.1. Unscrew the red cap as shown in Fig. 54 and throw it away; replace it with the black cap (Fig. 55)

Fig. 54

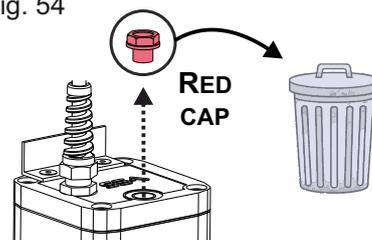
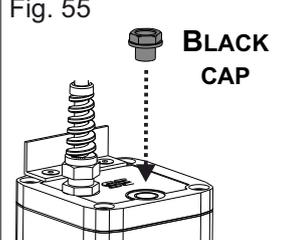


Fig. 55



! IT IS MANDATORY TO REMOVE THE BREATHER CAP AT THE END OF THE INSTALLATION!

14 - ADJUSTMENT OF THE THRUST FORCE

14.1. If necessary, adjust the thrust force of the leaf using the By-Pass valves placed on the front side of the «LYRA» hydraulic unit (Fig. 56)

14.2. Adjust the by-pass valves (Fig. 56) using the key «A» (*supplied to the authorized installers*).

Turn the key clockwise to increase the force;
Turn the key counter-clockwise to decrease the force;

! THE AUTOMATION IS FACTORY SET TO A FORCE OF 15 KgF, IN ORDER TO ENSURE THE ANTI-CRUSHING SAFETY, SO IT IS RECOMMENDED TO MODIFY THIS SETTING ONLY IN CASE OF ABSOLUTE NEED!

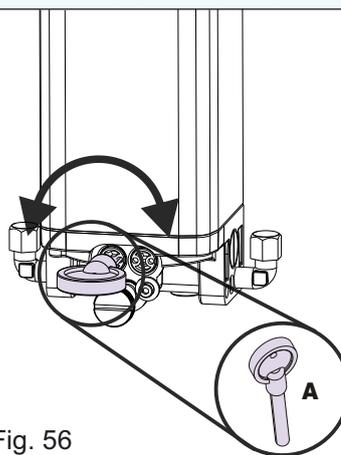
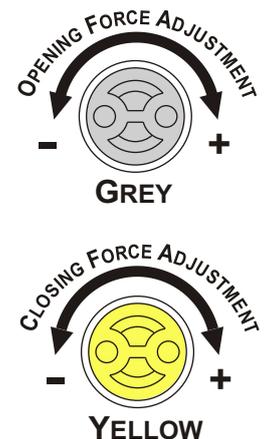


Fig. 56



15 - BRAKING ADJUSTMENT

(ONLY FOR OPERATORS EQUIPPED WITH OPTIONAL HYDRAULIC BRAKE)

It is possible to adjust the leaf slowdown in opening and closing, by the use of the braking adjustment screws:

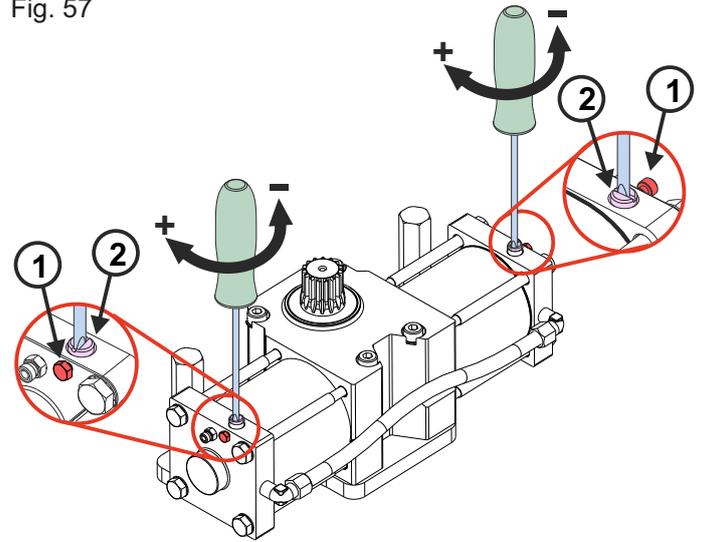
8.1. Loosen the Allen screw «1» which locks the brake adjustment screw «2» (Fig. 57);

adjust it **CLOCKWISE FOR A GREATER BRAKING**
(SPEED REDUCTION)

adjust it **ANTI-CLOCKWISE FOR LESS BRAKING**
(SPEED INCREASE)

8.2. At the end of the adjustment, tighten the Allen screw «1» to re-lock the braking adjustment screw «2»

Fig. 57



THE SLOWDOWN STARTS FROM THE LAST 15° DEGREES OF THE LEAF ROTATION!

16 - BLEEDING PROCEDURE

16.1. During the hydraulic pipes connection phase, air may enter the system and could cause irregular operation of the automation. This irregular operation consists in abnormal movement of the gate and excessive noise. To solve this problem, it is necessary to carry out the bleeding procedure:

- 1 - Open the gate by giving a «START» command
- 2 - While the gate is moving, loosen the bleed screw «A» (Fig. 59);
- 3 - Let the air escape until non-emulsified oil appears;
- 4 - Tighten the bleed screw «A» before the operator ends the opening cycle;
- 5 - Close the gate by giving a «START» command
- 6 - While the gate is moving, loosen the bleed screw «B» (Fig. 59);
- 7 - Let the air escape until non-emulsified oil appears;
- 8 - Tighten the bleed screw «B» before the operator ends the closing cycle.

It is recommended to repeat full operation on both screws after 2 or 3 opening/closing cycles

9 - Refill the oil level from the oil filler cap.

SEA recommends using only SEA 0X29 oil (supplied)

BLEED
SCREW

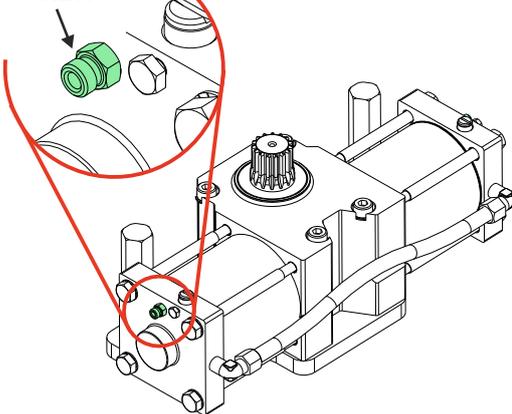


Fig. 58

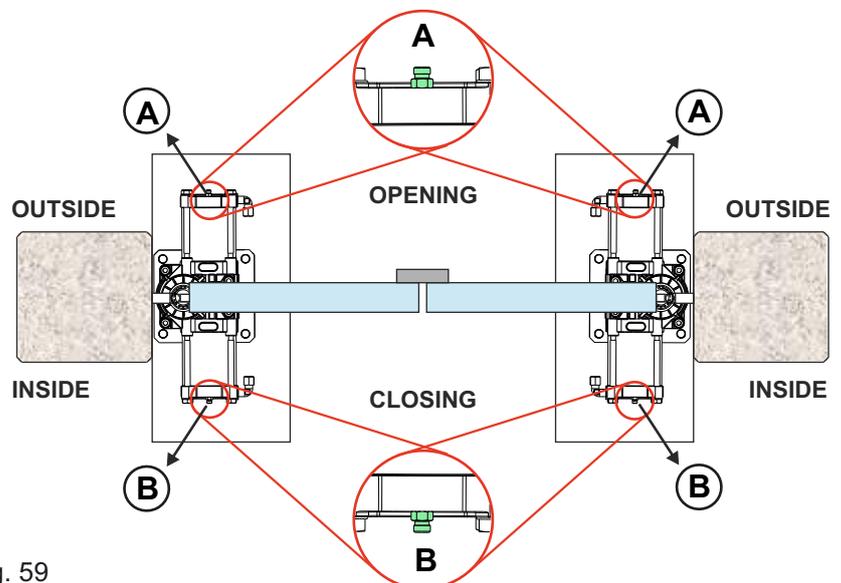


Fig. 59

17 - RELEASE SYSTEM ON HYDRAULIC UNIT

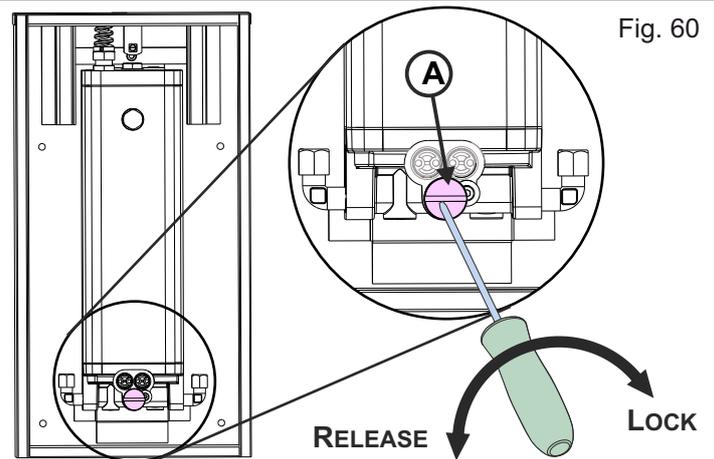
«JACK» with **NON-CARRYING BOX** can be released from the «LYRA» unit

17.1. TO RELEASE:

- Open the case-door with the special key supplied.
- Using a screwdriver, turn the release screw «A» anticlockwise, about 180°
- Manually move the gate.

17.2. TO LOCK:

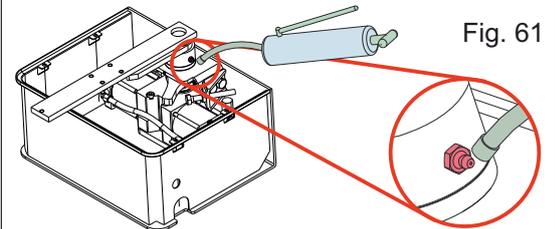
- Using a screwdriver, turn the release screw «A» clockwise until it stops.
- Close the case-door



18 - OPERATOR COMMISSIONING

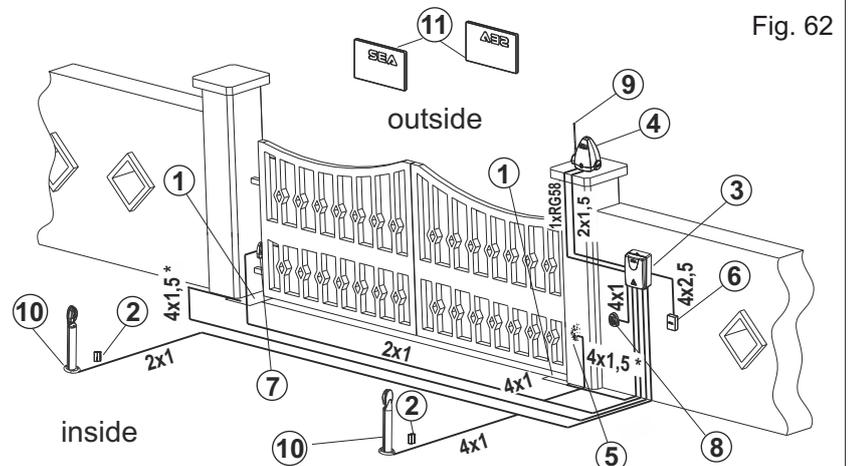
BEFORE STARTING THE OPERATOR, IT IS IMPERATIVE TO GREASE THE CASE THROUGH THE SPECIAL GREASER, (FIG. 61) UNTIL THE GREASE COMES OUT. USE GREASE DIN 51502 KP 2 N-20 - K 2 K-20

18.1. Once all the installation and adjustment operations have been completed, release the operator and carry out some **slow** manual movement, checking that there is no friction or irregularity and that travel is fluid along the full stroke of the gate



19 - STANDARD INSTALLATION

- 1) Operators
- 2) Mechanical stops
- 3) Control unit
- 4) Flashing lamp
- 5) Right photocell
- 6) 16A - 0,03A differential switch
- 7) Left photocell
- 8) «START/STOP» key-button
- 9) Antenna
- 10) Photocell columns
- 11) Warning notices



PERIODIC MAINTENANCE - FOR THE INSTALLER EXCLUSIVELY

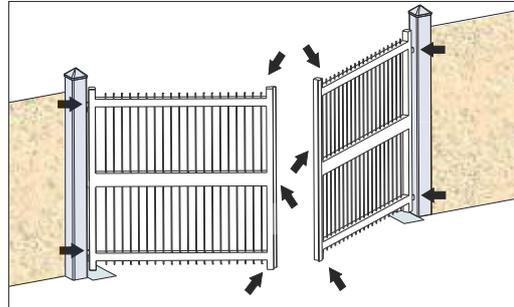
CHECK THE OIL LEVEL (TRANSPARENT CAP NO. 3 IN FIG. 1)	ANNUAL
REPLACE THE OIL	4 YEARS
CHECK THE CORRECT OPERATION OF THE BY-PASS VALVES (CHECK THE FORCE IN OPENING AND CLOSING)	ANNUAL
CHECK THE CORRECT OPERATION OF THE RELEASE SYSTEM	ANNUAL
CHECK THE SLOWDOWN SYSTEM ADJUSTMENT (ONLY FOR OPERATORS WITH HYDRAULIC BRAKE)	ANNUAL
CHECK THE CORRECT DRAINAGE OF RAINWATER	ANNUAL
CHECK THE INTEGRITY OF THE ELECTRIC CABLES	ANNUAL
GREASE ALL THE MOVING PARTS	ANNUAL
GREASE THE ROTATION SHAFT OF THE FOUNDATION BOX, AS SHOWN IN FIG. 61	ANNUAL

 ALL OPERATIONS MUST BE CARRIED OUT EXCLUSIVELY BY AN AUTHORIZED INSTALLER
SWITCH-OFF THE POWER SUPPLY BEFORE CARRYING-OUT MAINTENANCE OPERATIONS

PART FOR BOTH INSTALLER AND END-USER

GENERAL NOTICE

RISK EXAMINATION: The points pointed by arrows are potentially dangerous. The installer must take a thorough risk examination to prevent crushing, conveying, cutting, grappling, trapping so as to guarantee a safe installation for people, things and animals (Re. Laws in force in the Country where installation has been made). As for misunderstandings that may arise refer to your area distributor or call our help desk. These instructions are part of the device and must be kept in a well known place. The installer shall follow the provided instructions thoroughly. SEA products must only be used to



automate doors, gates and wings. Any initiative taken without SEA explicit authorization will preserve the manufacturer from whatsoever responsibility. The installer shall provide warning notices on not assessable further risks. SEA in its relentless aim to improve the products, is allowed to make whatsoever adjustment without giving notice. This doesn't oblige SEA to upgrade the past production. SEA can not be deemed responsible for any damage or accident caused by product breaking, being damages or accidents due to a failure to comply with the instructions herein. The guarantee will be void and the manufacturer responsibility will be nullified if SEA original spare parts are not being used. The electrical installation shall be carried out by a

professional technician who will release documentation as requested by the laws in force. Packaging materials such as plastic bags, foam polystyrene, nails etc must be kept out of children's reach as dangers may arise.

INITIAL TEST AND STARTING OF THE AUTOMATION: After having completed the necessary operations for a correct installation of the product and after having evaluated all the risks which could arise in any installation, **it is necessary to test the automation to guarantee the maximum security and, in particular, to guarantee that the laws in force are fully respected.** The first Start must be executed according to the rule **EN 12445** which establishes the methods of tests for checking the gate automation respecting the limits established by the rule **EN 12453**

SAFETY PRECAUTIONS: All electrical work should comply with the current regulations. A 16A / 0,030 differential switch must be used. Separate the source cables (operators, power supply) and command cables (photocells, push-buttons, etc). Be sure the entire system is properly earth bonded. Always run cables in separate ducts to prevent interferences

INTENDED USE: The operator has been designed to be used for the automation of swing gates only

SPARE PARTS: Send request for spare parts to: **SEA S.p.A. - Teramo - ITALY - www.seateam.com**

SAFETY AND ENVIRONMENTAL COMPATIBILITY: Don't waste product packing materials and/or circuits

STORAGE: T = -30°C/+60°C ; Humidity = min. 5% / max. 90% (without condensation); Materials must be properly packaged, handled with care and with appropriate vehicles

WARRANTY LIMITS - see the sales conditions

MAINTENANCE AND DECOMMISSION: must only be carried out by specialised and authorised personnel

THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT

SEA S.p.A. reserves the right to make any required modification or change to the products and/or to this manual without any advanced notice obligation.

1. **Read carefully these Instructions before beginning to install the product.** Store these instructions for future reference
2. Don't waste product packaging materials and /or circuits
3. This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger. SEA S.p.A. declines all liability caused by improper use or different use in respect to the intended one.
4. The mechanical parts must comply with Directives: Machine Regulation 2006/42/CE and following adjustments, Low Tension (2006/95/CE), electromagnetic Consistency (2004/108/CE); Installation must be done respecting Directives: EN12453 and EN12445.
5. Do not install the equipment in an explosive atmosphere.
6. SEA S.p.A. is not responsible for failure to observe Good Techniques in the construction of the locking elements to motorize, or for any deformation that may occur during use.
7. Before attempting any job on the system, cut out electrical power and disconnect the batteries. Be sure that the earthing system is perfectly constructed, and connect to it the metal parts of the gate
8. Use of the indicator-light is recommended for every system, as well as a warning sign well-fixed to the frame structure.
9. SEA S.p.A. declines all liability as concerns the automated system safety and efficiency, if components used are not produced by SEA
10. For maintenance, strictly use original parts by SEA.
11. Do not modify in any way the components of the automated system.
12. The installer shall supply all information concerning the system manual functioning in case of emergency and shall hand over to the user the warnings handbook supplied with the product.
13. Do not allow children or adults to stay near the product while it is operating. The application cannot be used by children, by people with reduced physical, mental or sensorial capacity or by people without experience or necessary training. Keep remote controls or other pulse generators away from children, to prevent involuntary activation of the system.
14. Transit through the leaves is allowed only when the gate is fully open.
15. The User must not attempt to repair or to take direct action on the system and must solely contact qualified SEA personnel or SEA service centers. The User can apply only the manual function of emergency.
16. The power cables maximum length between the central engine and motors should not be greater than 10 m. Use cables with 2,5 mm² section. Use double insulation cable (cable sheath) to the immediate vicinity of the terminals, in particular for the 230V cable. Keep an adequate distance (at least 2.5 mm in air), between the conductors in low voltage (230V) and the conductors in low voltage safety (SELV) or use an appropriate sheath that provides extra insulation having a thickness of 1 mm.

DECLARATION OF CONFORMITY DICHIARAZIONE DI CONFORMITÀ

SEA S.p.A. declares under its proper responsibility and, if applicable, under the responsibility of its authorised representative that, by installing the appropriate safety equipment and noise filtering, the products:

La SEA S.p.A. dichiara sotto la propria responsabilità e, se applicabile, del suo rappresentante autorizzato che, con l'installazione degli adeguati dispositivi di sicurezza e di filtraggio disturbi, i prodotti:

DESCRIPTION - DESCRIZIONE	MODEL - MODELLO	TRADEMARK - MARCA
LYRA AC (AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI)	12001005	SEA
SUPER LYRA AC (AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI)	12001031	SEA
JACK 400 100° (AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI)	1201005	SEA
JACK 800 100° (AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI)	12015010	SEA
SUPER JACK 100° (AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI)	12101070	SEA

are built to be integrated into a machine or to be assembled with other machinery to create a machine under the provisions of Directive 2006/42/CE;

comply with the essential safety requirements related to the products within the field of applicability of the Community Directives 2014/35/UE and 2014/30/UE

sono costruiti per essere incorporati in una macchina o per essere assemblati con altri macchinari per costruire una macchina ai sensi della Direttiva 2006/42/CE;

sono conformi ai requisiti essenziali di sicurezza relativi ai prodotti entro il campo di applicabilità delle Direttive Comunitarie 2014/35/UE e 2014/30/UE

THE MANUFACTURER OR THE AUTHORIZED REPRESENTATIVE
IL COSTRUTTORE O IL RAPPRESENTANTE AUTORIZZATO

SEA S.p.A.

ZONA INDUSTRIALE SANT'ATTO

64100 - TERAMO - ITALY

+ 39 0 861 588341

www.seateam.com

PLACE AND DATE OF ISSUE
LUOGO E DATA DI EMISSIONE

TERAMO, 24/10/2022

L'Administratore
The Administrator
Ennio Di Savino




Automatic Gate Openers

International registered trademark n. 804888

SEA S.p.A.

Zona Industriale Sant'Atto - 64020 - Teramo - ITALY

Tel. +39 0 861 588341 r.a. Fax +39 0 861 588344

www.seateam.com