



SEA[®]

Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 804888

English

HYDRAULIC OPERATOR FOR SWING GATE

FULL TANK



INSTALLATION MANUAL and Security Information

SEA S.r.l.
Zona Ind. S.Atto 64020 TERAMO Italy
Tel. +39.0861.588341 - Fax+39.0861.588344

e-mail: seacom@seateam.com
WEB SITE : www.seateam.com

FEATURES AND SPECIFICATIONS

The **FULL TANK** is a high quality hydraulic operator for condominium use for gates with leaf lengths up to max. 7 m.

Available in the following versions:

AC (*with lock in opening and closing*)

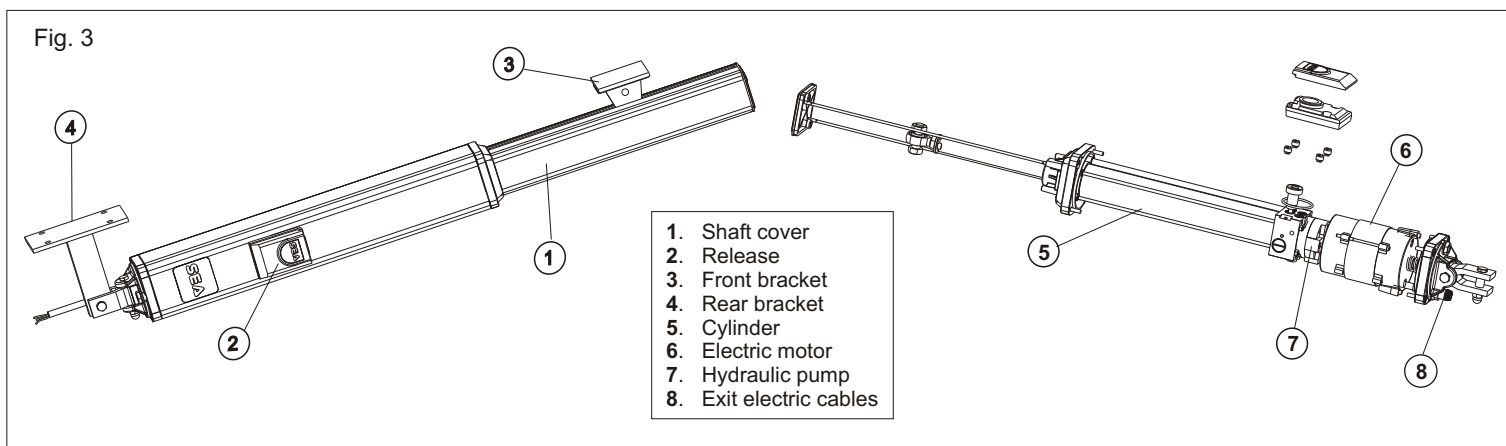
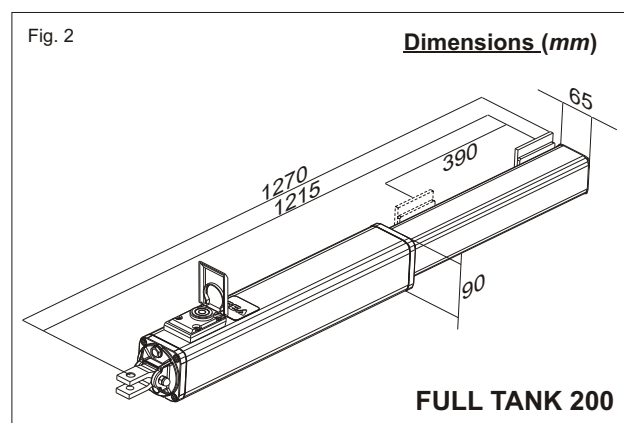
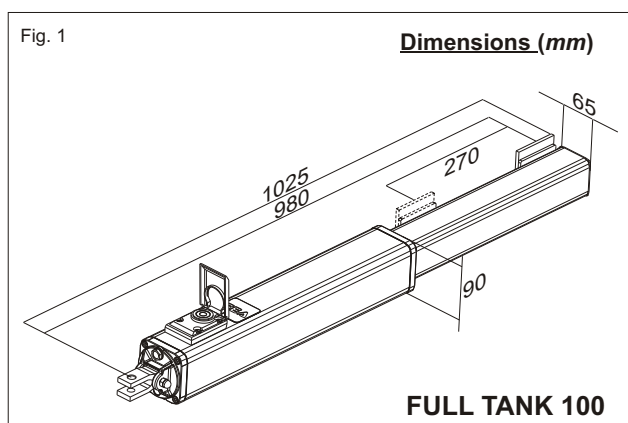
SA (*with lock only in opening*)

SC (*with lock only in closing*)

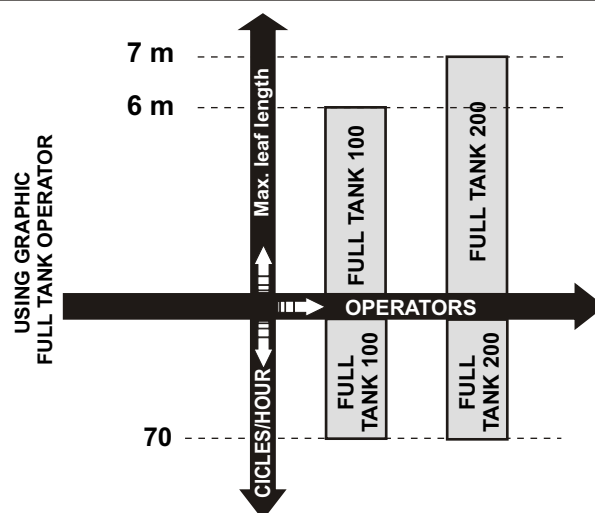
SB (*without lock*)

The lock is guaranteed for leaf lengths up to 180 m with the 100 version and up to 2,20 m with the 200 version. For leaf lengths exceeding 2,20 m it is necessary, in all versions, to install an electric lock.

The Full Tank is supplied with by-pass valves for the power regulation in both opening and closing. Electronic adjustable slow down in opening and closing with control board GATE 2. For the European laws and directives actually in force it is strongly recommended to use the Safety Gate (device for the reading of the gate position), for reverse in case of obstacle.



TECHNICAL FEATURES	FULL TANK 100	FULL TANK 200
Power supply	230 V (±5%) 50/60 Hz	
Power	220 W	
Absorbed current	1 A	
Stroke	270 mm	390 mm
Cycles hour (at a temp. of 20°C)	70	
Max working pressure	40 bar	30 bar
Operating temperatures	-20°C ↯	+55°C ↯
Thermal protection	130°C	
Max Thrust	640da N	
Capacitor	12,5uF	
Weight	12,8 kg	15,2 kg
Protection class	Ip55	
Max leaf length	6 m	7 m
Opening degree of the leaf	90° / 125°	



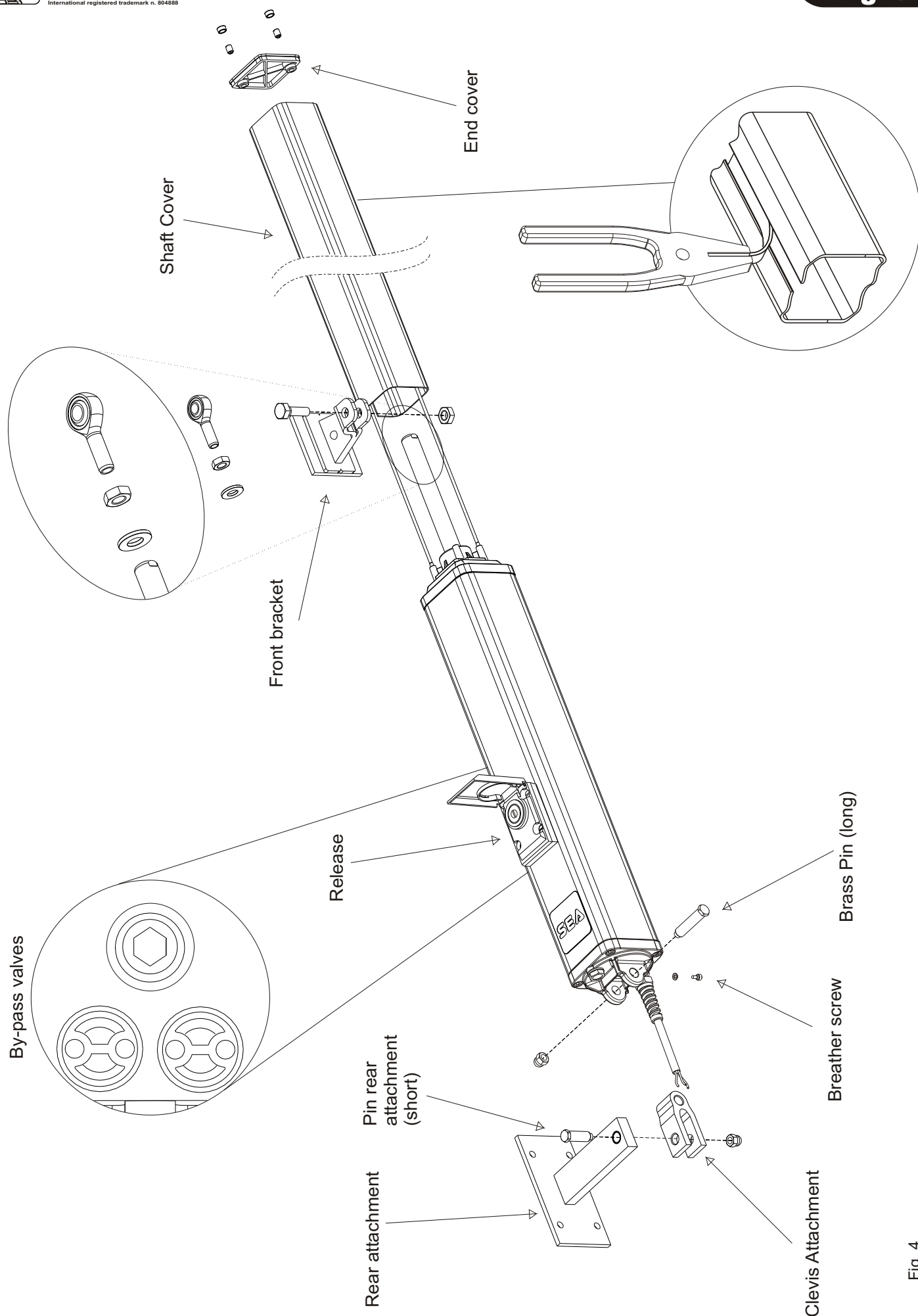
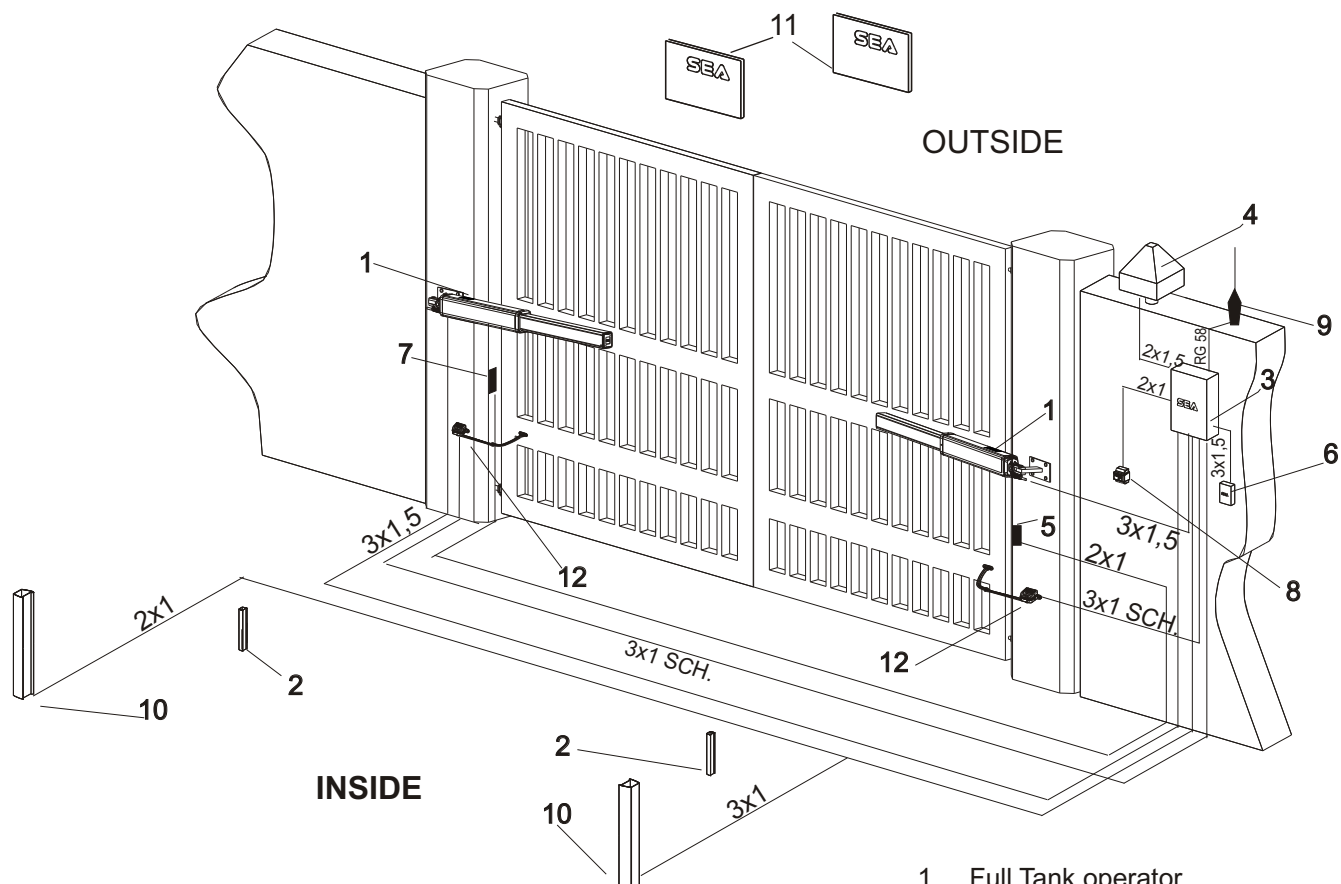


Fig. 4

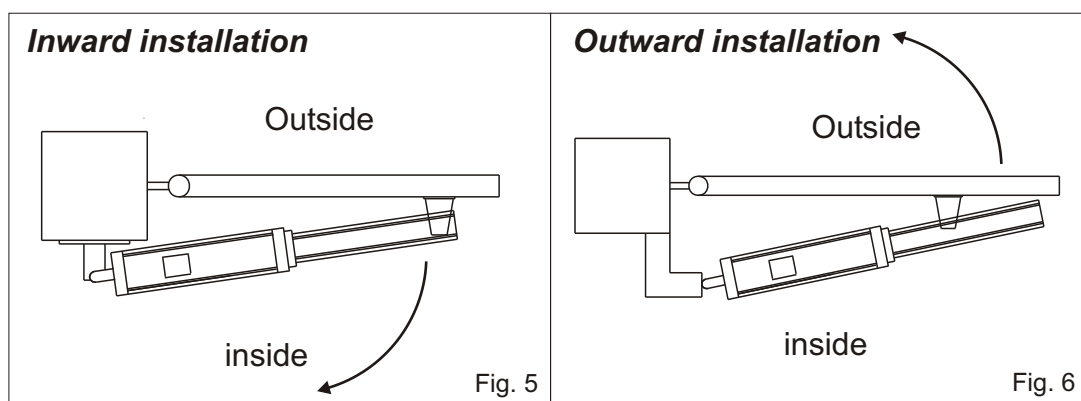
TYPICAL INSTALLATION



1. Full Tank operator
2. Mechanical stop
3. Gate 2 control board
4. Warning lamp
5. Photocell tx
6. Differential switch 16A-0,03A
7. Photocell rx
8. Key switch start-stop
9. Antenna
10. Column for photocells
11. Warning notice
12. Safety Gate

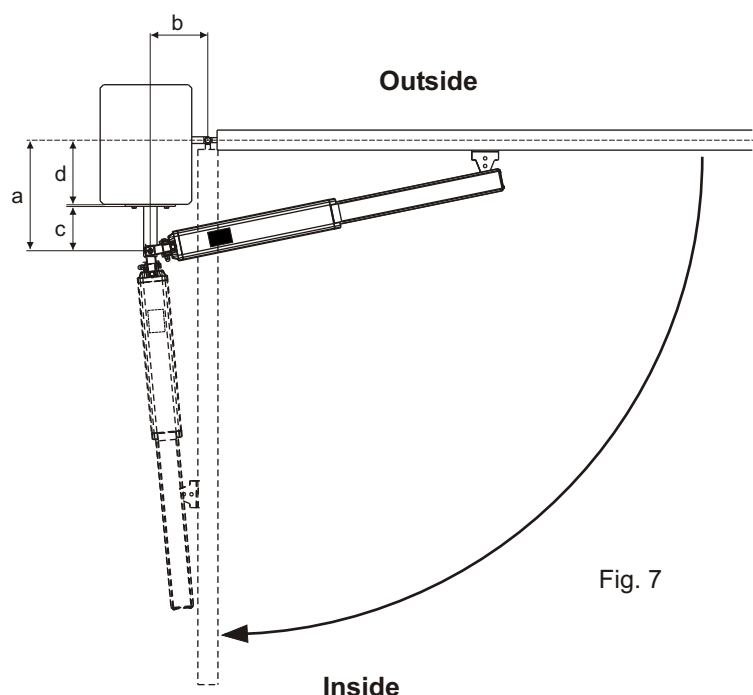
TYPE OF INSTALLATION

It is possible to install the Full Tank with opening inside (Fig.5) or opening outside (Fig.6).



**Install the operator always
inside the property**

INSIDE OPENING INSTALLATION

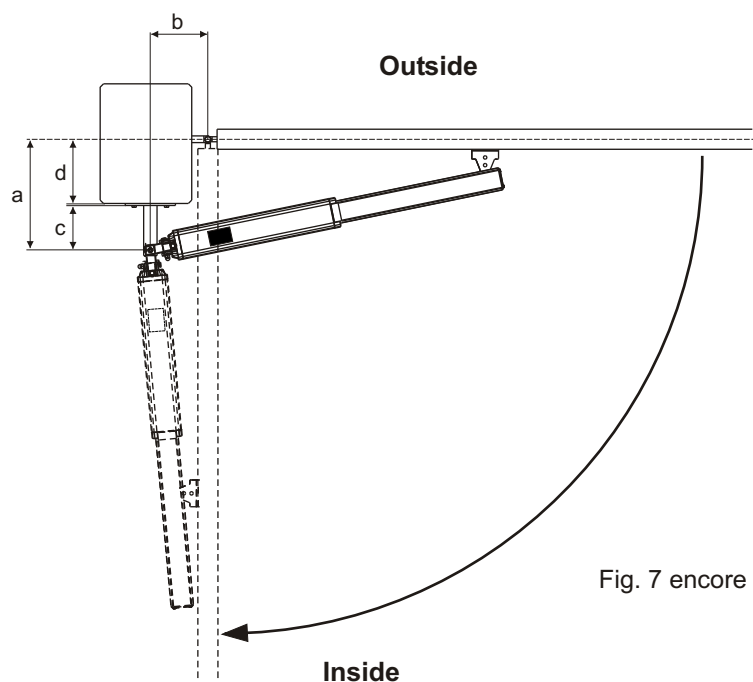


Total stroke 270 mm - max. recommended stroke 250 mm

a (mm)	b (mm)	d _{max} (mm)	Max. Opening Angle	Max. Stroke (mm)	Stroke for 90°(mm)
100	115	50	110°	250	215
100	150	50	90°	250	
105	110	55	110°	245	215
105	145	55	90°	250	
120	105	70	106°	250	225
120	130	70	90°	250	
125	125	75	90°	250	
140	95	90	100°	250	235
140	110	90	90°	250	
145	95	95	100°	255	242
145	105	95	90°	250	
150	100	100	90°	250	
155	85	105	96°	250	242
160	90	110	90°	253	
170	75	120	92°	250	
180	65	130	92°	250	

To obtain 110° with d > 55 mm it is necessary to make a niche in the gate.

INSIDE OPENING INSTALLATION

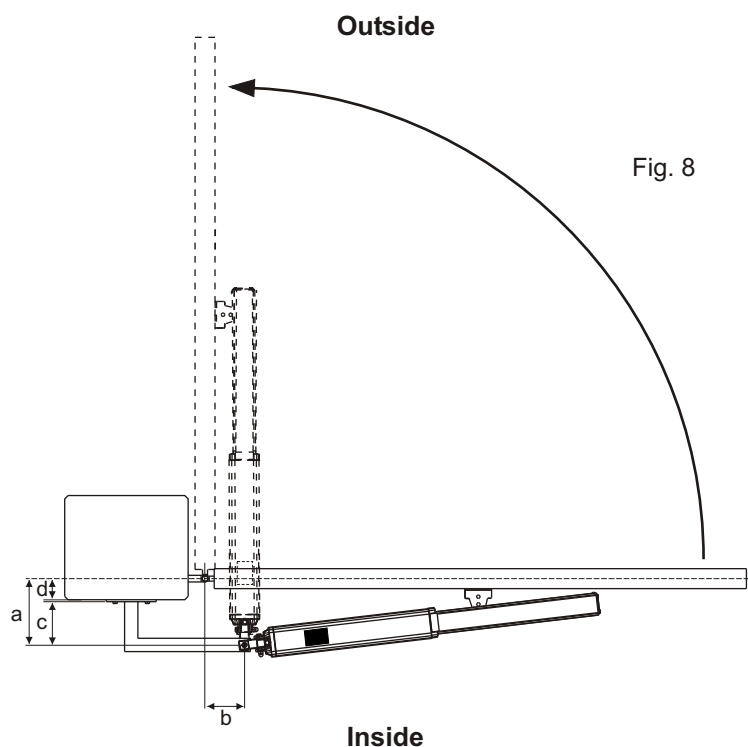


Total stroke 390 mm - max. recommended stroke 370 mm

a (mm)	b (mm)	d _{max} (mm)	Max. Opening Angle	Stroke max (mm)	Stroke for 90°(mm)
125	170	75	125°	368	295
130	170	80	125°	372	300
140	235	90	90°	370	
145	165	95	120°	372	310
145	230	95	90°	370	
160	210	110	90°	370	
175	195	120	90°	370	
185	145	130	110°	370	330
185	190	130	90°	370	
195	140	140	110°	371	355
195	175	140	90°	370	
240	110	185	100°	370	355
240	125	185	90°	370	
250	105	195	95°	370	360
250	115	195	90°	370	
260	95	205	95°	369	365
260	100	205	90°	370	
270	90	215	90°	370	
280	80	230	90°	370	
295	65	245	90°	369	

To obtain 125° with d > 55 mm it is necessary to make a niche in the gate.

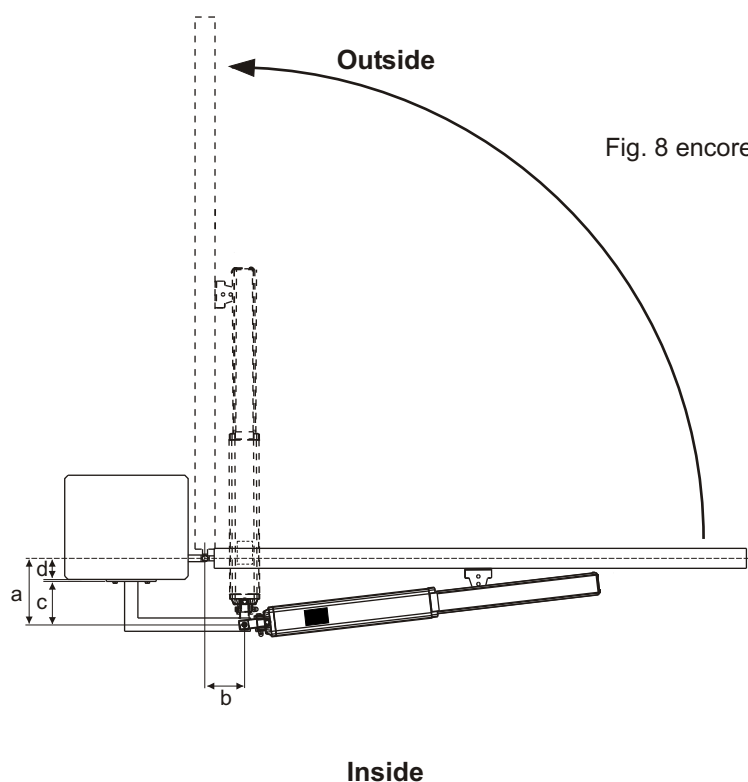
OUTSIDE OPENING INSTALLATION



Total stroke 270 mm - max. recommended stroke 250 mm

a (mm)	b (mm)	Max. Opening Angle	Stroke max (mm)	Stroke for 90°(mm)
150	90	95°	250	240
160	90	90°	250	
165	80	95°	249	243
175	80	90°	250	
180	70	90°	250	
180	65	90°	241	

OUTSIDE OPENING INSTALLATION



Stroke 390 mm - max. recommended stroke 370 mm

a (mm)	b (mm)	Max. Opening angle	Max. Stroke (mm)	Stroke for 90°(mm)
250	100	100°	356	342
255	95	95°	345	336
265	95	95°	342	335
270	90	90°	330	
275	90	90°	325	
275	90	90°	319	

RELEASE MOUNTING

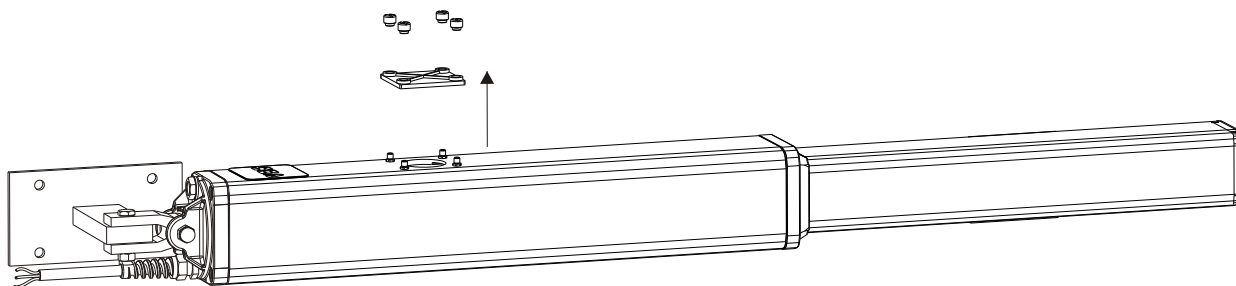


Fig. 9

Remove the transporting plate as shown in Fig. 9.

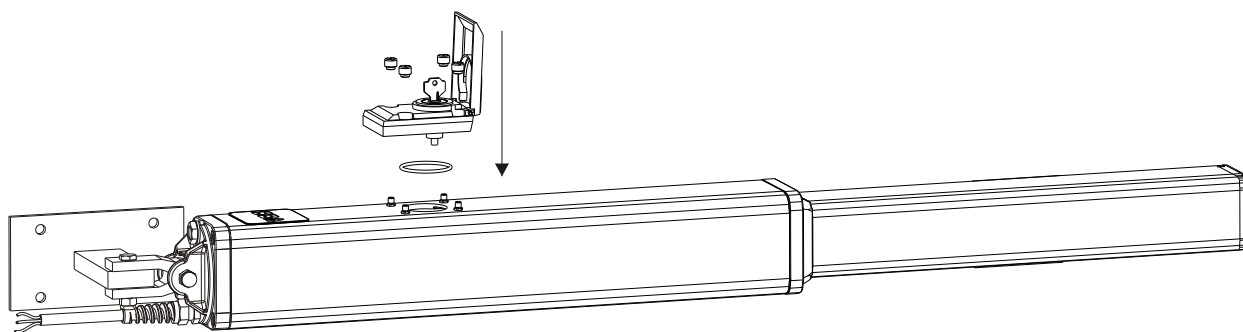
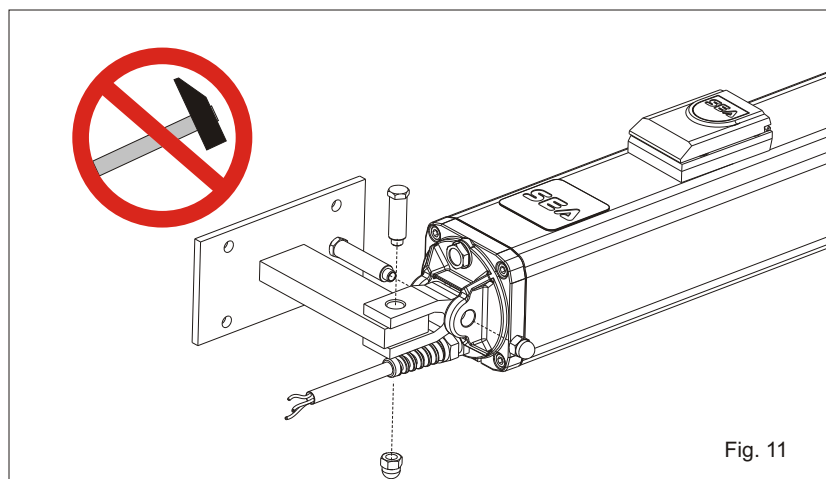


Fig. 10

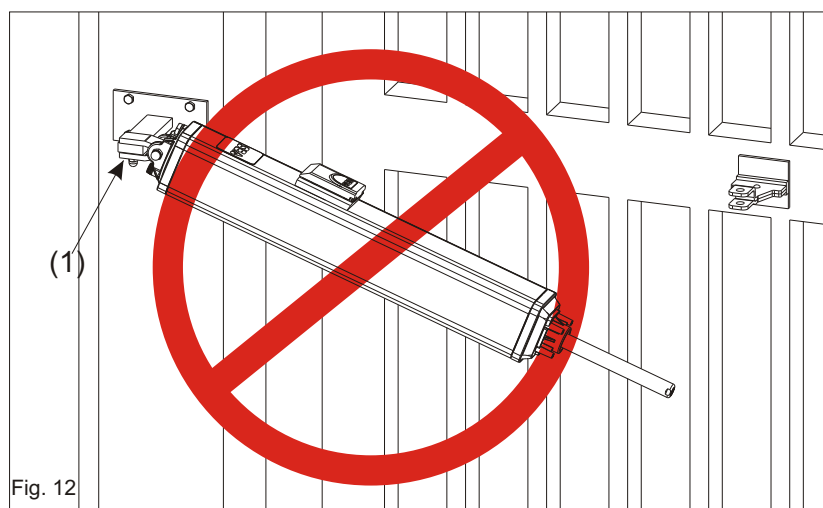
Mount the release as shown in Fig. 10.

INSTALLATION OF THE OSCILLATING REAR BRACKET



- Open carefully the package, making sure not to loose parts which are listed in fig. 4
- Attach the rear oscillating bracket as shown in fig. 12

Attention: Do not use a hammer for the insertion of the short brass pin; its fitting into the bracket and clevis attachment must be done by the simple pressure of the hands.

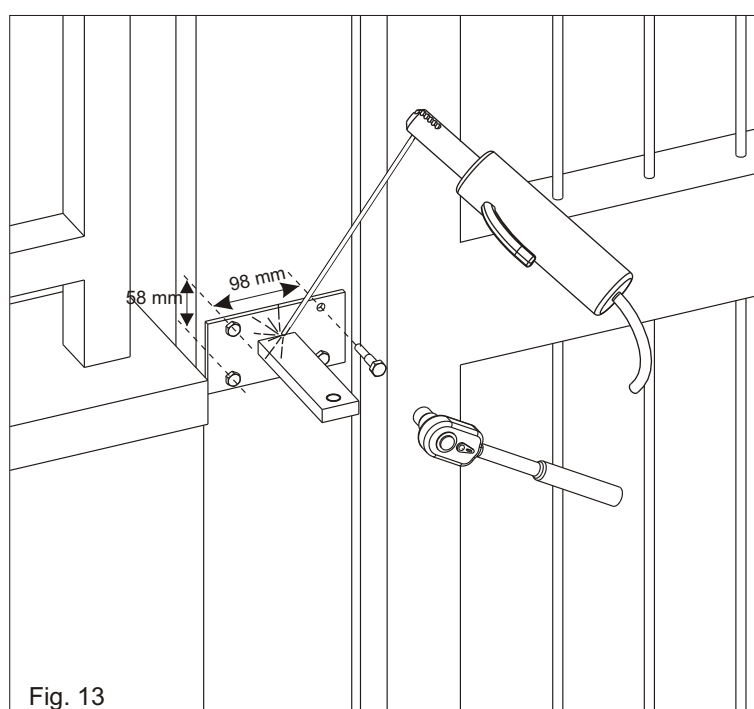
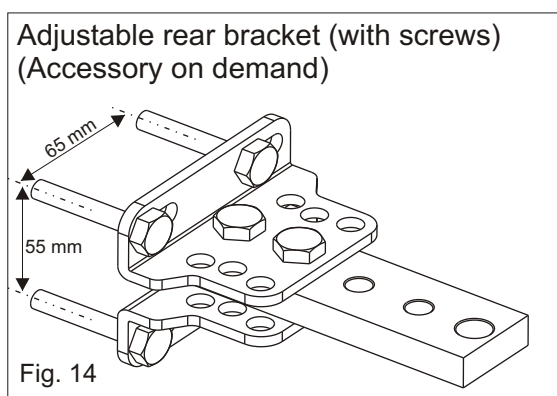


Attention: Do not incline the hydraulic operator further than the allowed angle of the oscillating bracket (1), risks the possible braking of it.

INSTALLATION OF REAR BRACKET

According to the type of opening that you have chosen (inside or outside) and to the chosen leaf rotation (see pag. 20-21), the rear bracket must first be cut respecting the quote "a" on pag. 20-21 and then welded as in fig. 13.

The support must be positioned so that the operator is perfectly levelled (Fig. 13, Fig. 15)



POSITIONING OF THE FRONT BRACKET

Once the operator is attached to the post and the leaf set in the closed position execute the following operations:

1. Release the operator (as in fig. 24 pag.12)
2. Pull-out completely the chromate shaft and push it back in 1cm
3. Attach the shaft to the front bracket (Fig. 16)
4. Set the operator perfectly levelled and mark the position of the front bracket (Fig.15)

Attention: avoid the welding of the front bracket to the shaft of the hydraulic operator already attached; the welding scraps (daps) could ruin the chromium plating of the shaft.

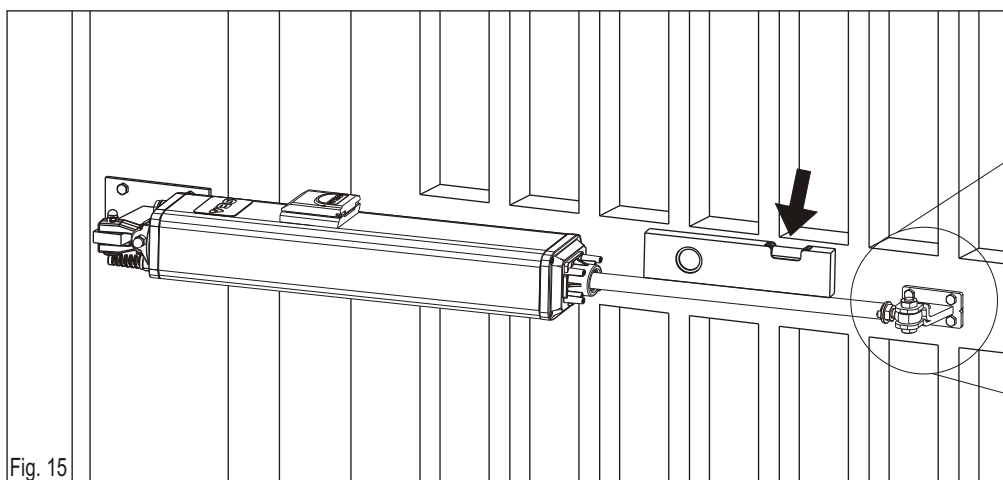


Fig. 15

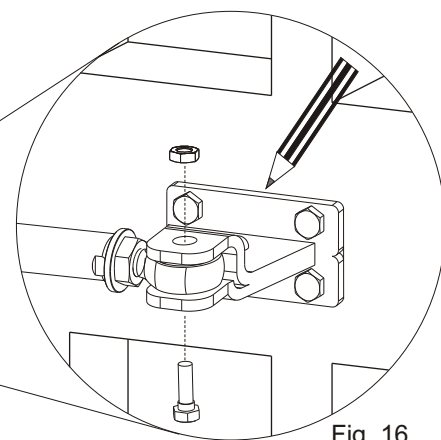


Fig. 16

WELDING OF THE FRONT BRACKET TO THE GATE

The front bracket must be positioned so that the operator is perfectly levelled

According to the nature of the gate the front bracket (wood, steel, Aluminium) can be:

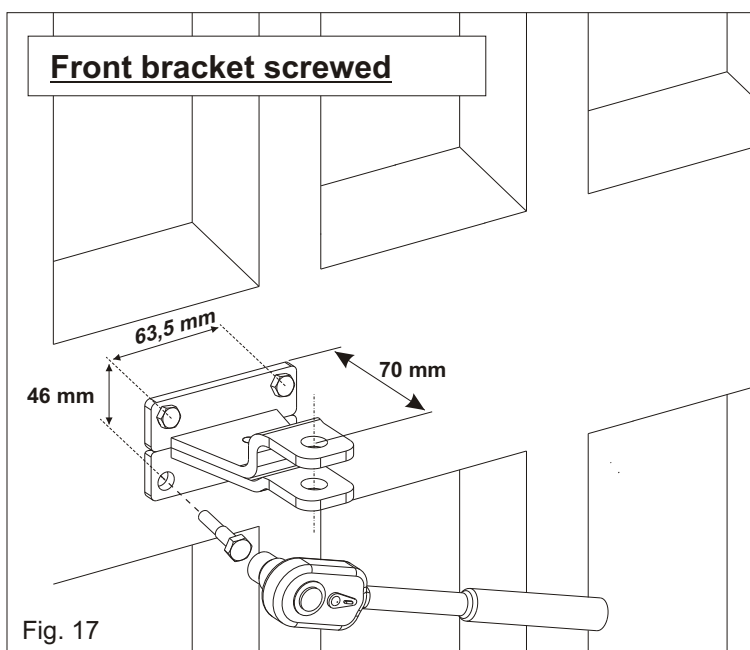


Fig. 17

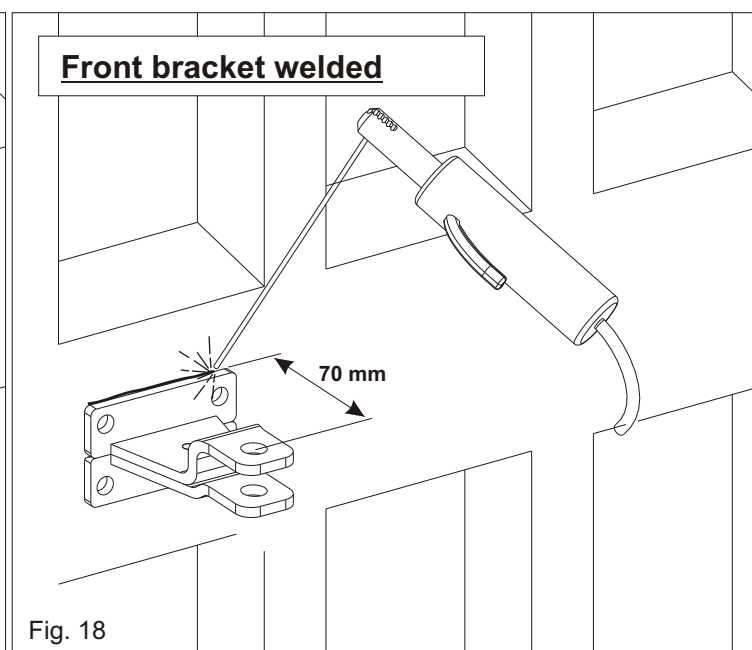
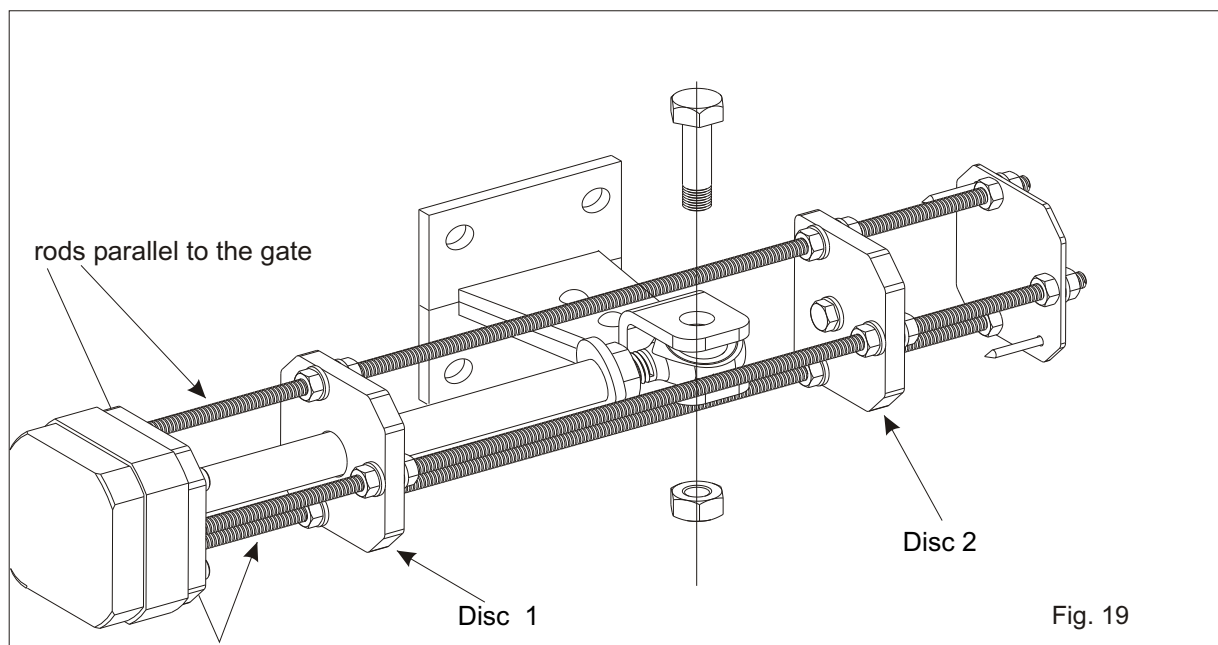


Fig. 18

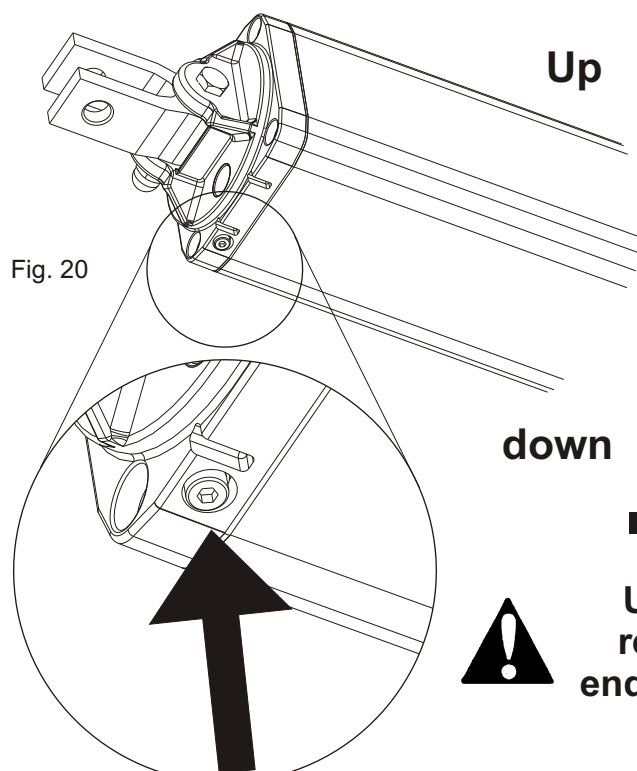
INSTALLATION OF POSITIVE STOPS

- Release the unit (as in fig. 24 of page 27)
- Make the shaft come out for $\frac{3}{4}$ of its stroke
- Put the positive stops into the front flange of the unit with the two tie rods (of the three present on the stops) which are parallel to the gate (Fig.19)
- Fix the positive stops with the provided screws
- Insert the ball joint after having installed the stops.
- At this point couple the shaft to the front bracket
- To adjust the positive stops in opening act on disk 1 and in closing act on disk 2.

Attention: The mounting of the mechanical positive stops does not cause the reduction of the shaft stroke.



BREATHER SCREW



ATTENTION

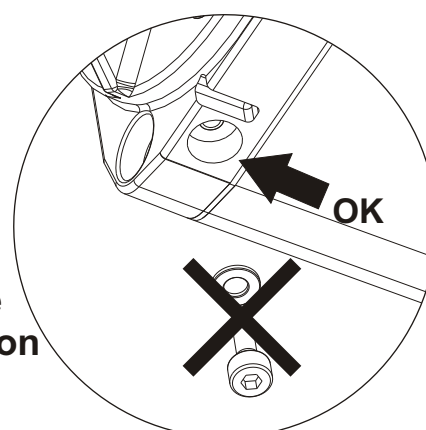


It is obligatory to remove the breather screw at the end of the installation.

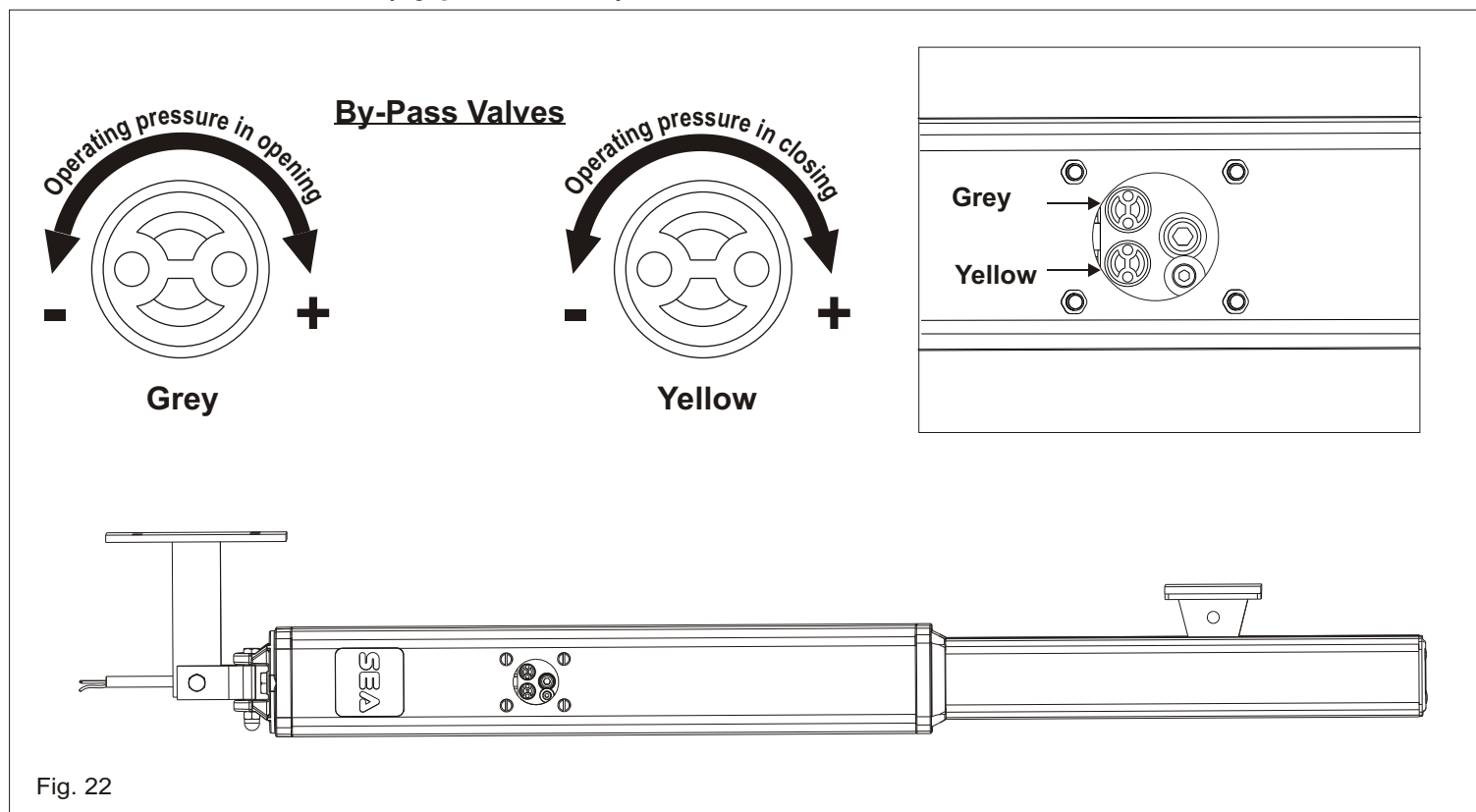
down



**Unscrew and
remove at the
end of installation**

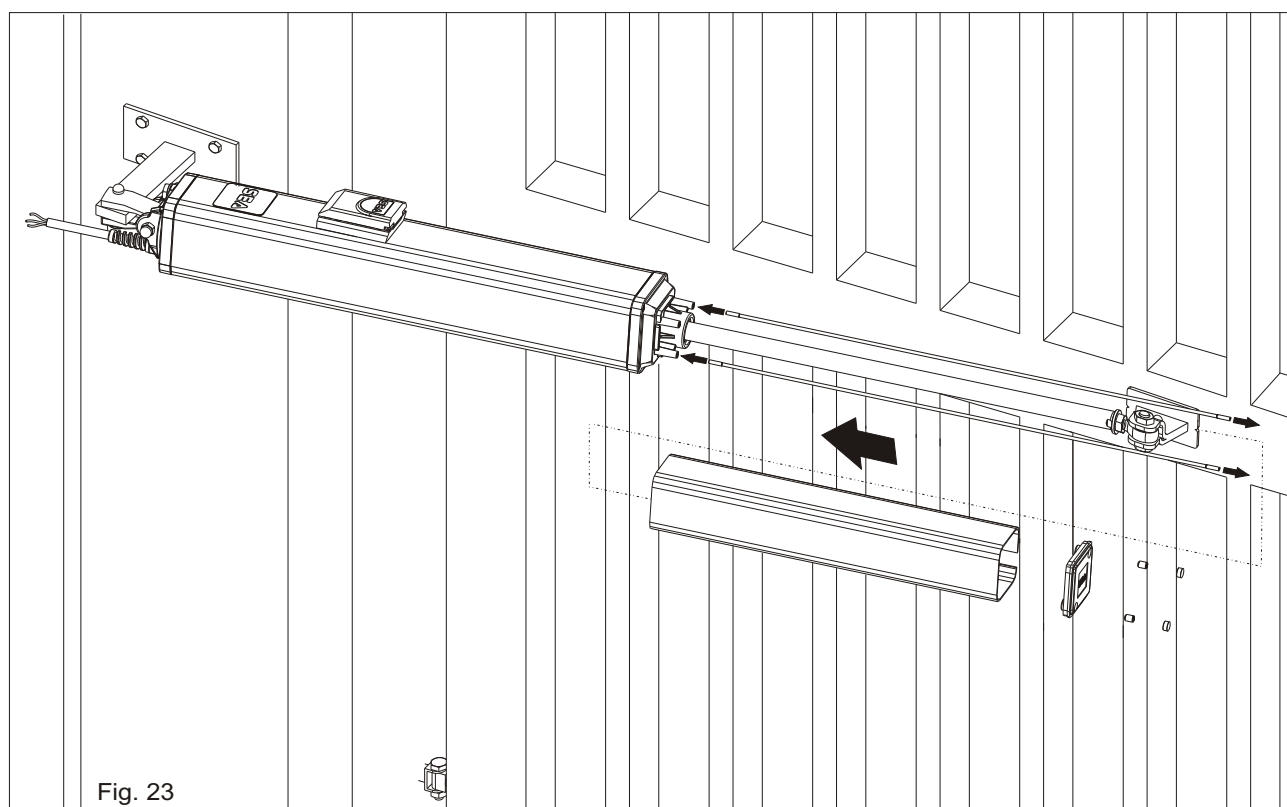


TORQUE ADJUSTMENT (by pass valves)



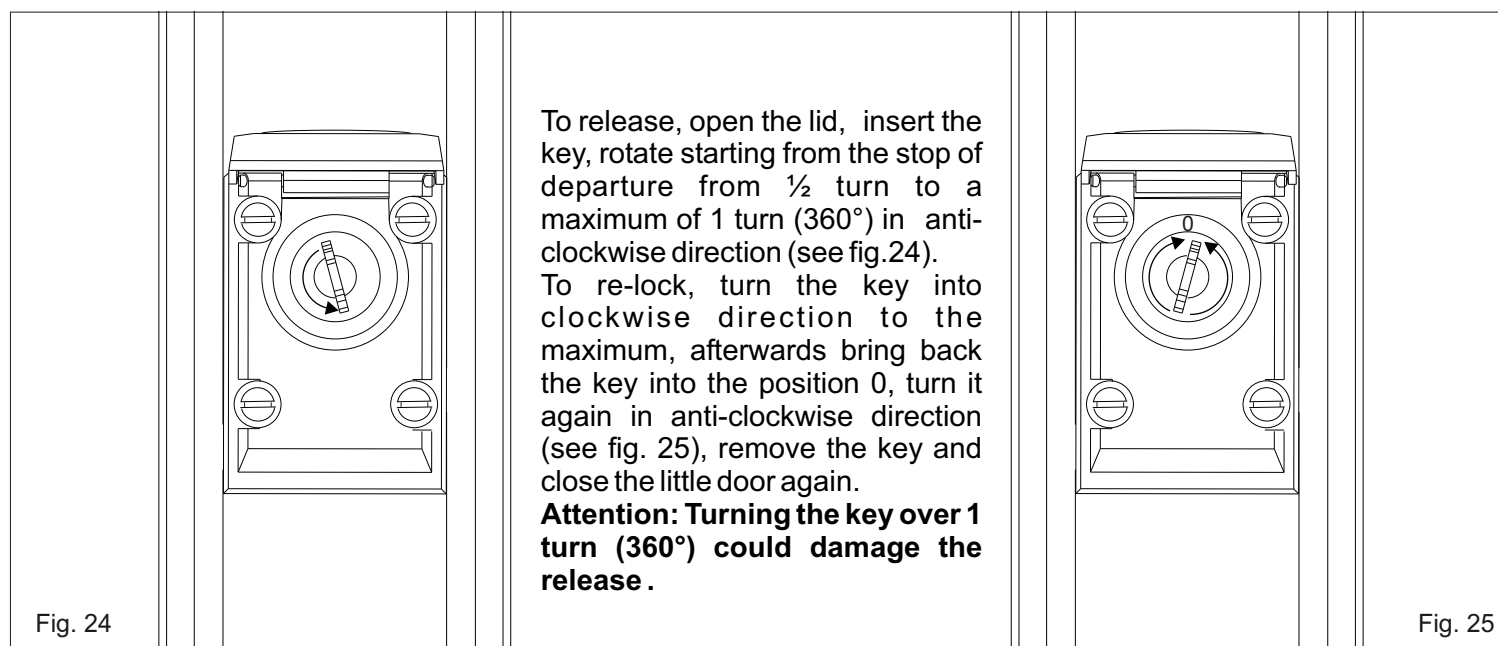
Adjust the opening and closing forces of the gate so that the diagram of the force is respected (present in the regulation EN 12453); Anyway the max. thrust force should never be superior of 15 kgF.

INSTALLATION OF THE CHROME PLATED SHAFT COVER



MANUAL RELEASE SYSTEM

WARNING: Always switch off the main power (110V or 230V) before servicing the operator.



WARNING: SEA recommends to the end user to release the operator only after having switched off the electric power.

Always contact a professional installer in case of not correct working of the operator.

PERIODICAL MAINTENANCE

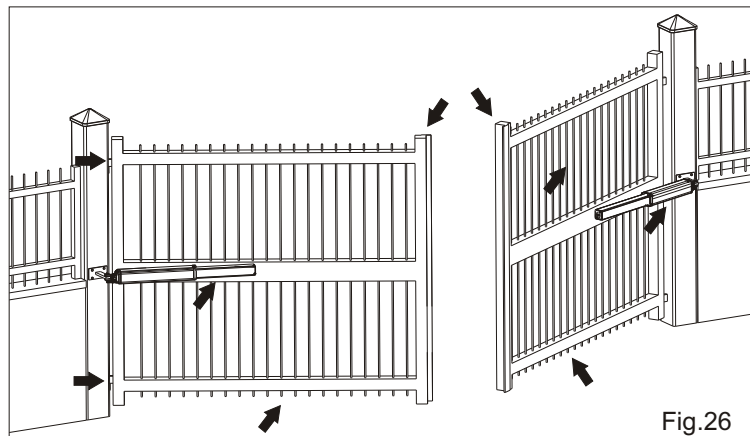
1) Check the solidity and the stability of the gate, especially the points of support and/or rotation of the gate (pivots).	Annual
2) Check the oil level of the hydraulic/in oil bath operators (cap on rear cover of the Full Tank)	Annual
3) Change the hydraulic oil with the one recommended from the head company	4 years
4) Check the release function	Annual
5) Check the by-pass valves function	Annual
6) Check and lubricate the fixing pins	Annual
7) Check the integrity of the connection cables	Annual
8) Check the function and the positive stops condition in opening and closing (where there is present a mechanical positive stop accessory)	Annual
9) Check the good status of all parts which are forced (rear bracket, oscillating bracket and front bracket).	Annual
10) Check the operating of all accessories, especially the function of all safety devices and of the Safety Gate.	Annual
11) After having executed the periodical maintenance operations it is necessary to repeat the test and the putting in service of the automation	Annual

All the above described operations MUST be made exclusively by an authorized installer.

RISK EXAMINATION

The points pointed by arrows in fig. 26 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.)

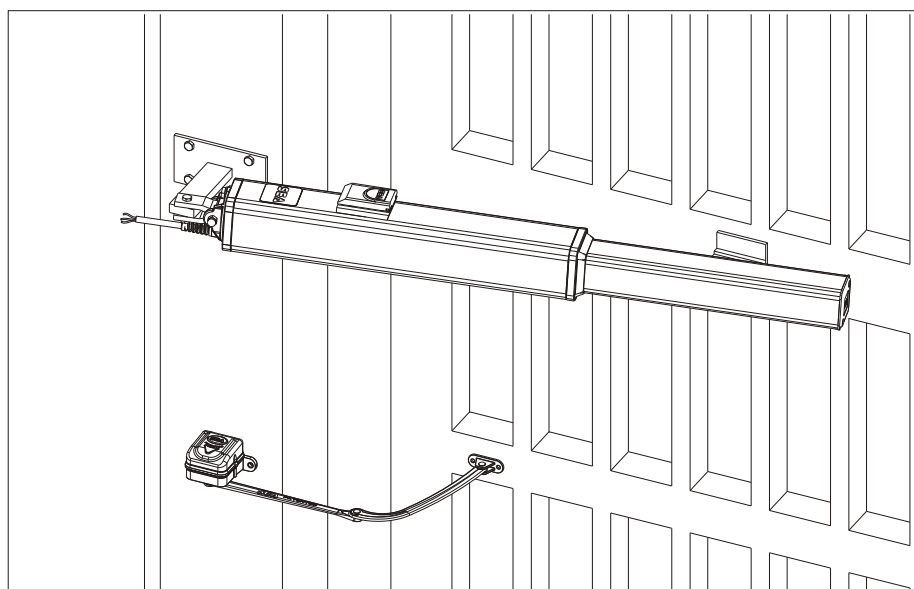


As for misunderstandings that may arise refer to your area distributor or call our help desk. These instructions are part of the device and must be kept in a well known place. The installer shall follow the provided instructions thoroughly. SEA products must only be used to automate doors, gates and hinged. 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 up-grade 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

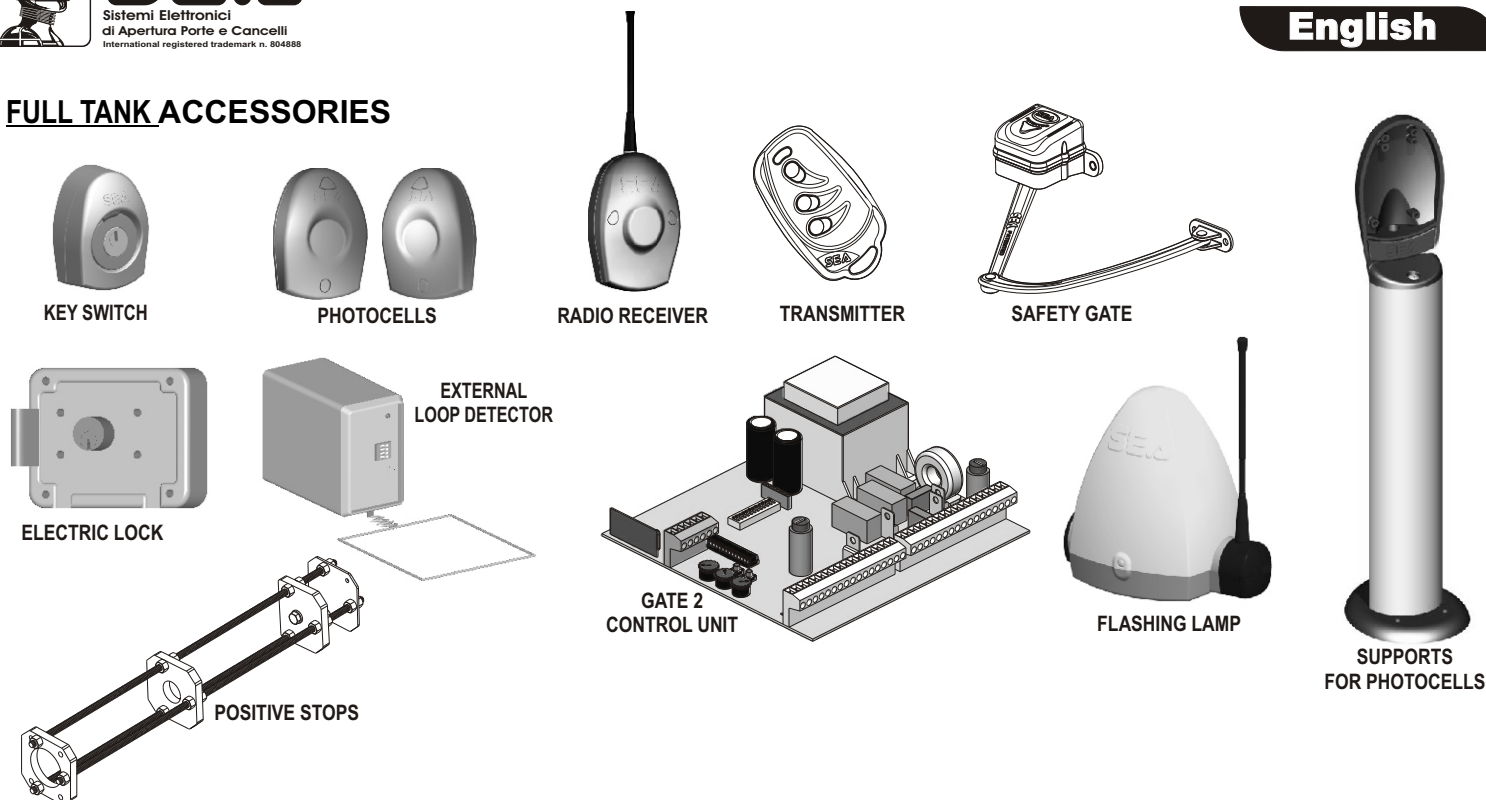
After having completed the necessary operations for a correct installation of the Full Tank product, as described in this manual, and after having valuated all resting risks which could arise in any installation, **it is necessary to test the automation to guaranty the maximum security and, in particular way, to guaranty that the laws and norms of this sector are fully respected.** Especially the test must be executed following the norm **EN 12445** which establishes the methods of tests for checking the gate automations respecting the limits established by the rule **EN 12453**.



SAFETY GATE

For a correct and safe installation it is strongly recommended to install a Safety Gate, **which allows the fulfilment of the force diagram included in the norm EN 12453** and consequently the test and start of the whole installation.

FULL TANK ACCESSORIES



DECLARATION OF CONFORMITY

SEA declares under its responsibility that the products

FULL TANK

meets the essential requisites provided for by the following European Directive and following changes:

89/392/CEE (Machine Directive)

89/336/CEE (Electromagnetic Compatibility Directive)

73/23/CEE (Low Tension Directive)

SAFETY PRECAUTIONS:

All electrical work should conform to current regulations. A 16 A 0,030 A differential switch must be incorporated into the source of the operators main electrical supply and the entire system properly earth bonded. Always run mains carrying cables in separate ducts to low voltage control cables to prevent mains interference.

INTENDED USE:

The operator Full Tank has been planned to be used for the automation of swing gate operator only.

SPARE PARTS:

To obtain spare parts contact:

SEA s.r.l. - Zona Ind.le, 64020 S. ATTO Teramo Italia

SAFETY AND ENVIRONMENTAL COMPATIBILITY:

Don't waste product packing materials and/or circuits.

When being transported this product must be properly packaged and handled with care.

LIMIT OF GUARANTEE

The Full Tank operator is guaranteed for a period of 36 months. The guarantee period starts from the date stamp printed on the unit. The Full Tank guarantee will be void if the unit has been incorrectly installed, not used for the purpose intended, tampered with or modified in any way.

The validity of this guarantee only extends to the original purchaser of the unit.

MAINTENANCE AND OUT OF SERVICE:

The decommission and maintenance of this unit must only be carried out by specialised and authorised personnel.

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

SEA reserves the right to do changes or variations that may be necessary to its products with no obligation to notice.

TERMS OF SALE

EFFICACY OF THE FOLLOWING TERMS OF SALE: the following general terms of sale shall be applied to all orders sent to SEA srl. All sales made by SEA to all costumers are made under the prescription of this terms of sales which are integral part of sale contract and cancel and substitute all apposed clauses or specific negotiations present in order document received from the buyer.

GENERAL NOTICE The systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EM12453 – EM 12445) and with good installation practice releases SEA from any responsibilities. SEA shall not be held responsible for any failure to execute a correct and safe installation under the above mentioned standards.

1) PROPOSED ORDER The proposed order shall be accepted only prior SEA approval of it. By signing the proposed order, the Buyer shall be bound to enter a purchase agreement, according to the specifications stated in the proposed order.

On the other hand, failure to notify the Buyer of said approval must not be construed as automatic acceptance on the part of SEA.

2) PERIOD OF THE OFFER The offer proposed by SEA or by its branch sales department shall be valid for 30 solar days, unless otherwise notified.

3) PRICING The prices in the proposed order are quoted from the Price List which is valid on the date the order was issued. The discounts granted by the branch sales department of SEA shall apply only prior to acceptance on the part of SEA. The prices are for merchandise delivered ex-works from the SEA establishment in Teramo, not including VAT and special packaging. SEA reserves the right to change at any time this price list, providing timely notice to the sales network. The special sales conditions with extra discount on quantity basis (Qx, Qx1, Qx2, Qx3 formula) is reserved to official distributors under SEA management written agreement.

4) PAYMENTS The accepted forms of payment are each time notified or approved by SEA. The interest rate on delay in payment shall be 1.5% every month but anyway shall not be higher than the max. interest rate legally permitted.

5) DELIVERY Delivery shall take place, approximately and not peremptorily, within 30 working days from the date of receipt of the order, unless otherwise notified. Transport of the goods sold shall be at Buyer's cost and risk. SEA shall not bear the costs of delivery giving the goods to the carrier, as chosen either by SEA or by the Buyer. Any loss and/or damage of the goods during transport, are at Buyer's cost.

6) COMPLAINTS Any complaints and/or claims shall be sent to SEA within 8 solar days from receipt of the goods, proved by adequate supporting documents as to their truthfulness.

7) SUPPLY The concerning order will be accepted by SEA without any engagement and subordinately to the possibility to get it's supplies of raw material which is necessary for the production; Eventual completely or partially unsuccessful executions cannot be reason for complains or reservations for damage. SEA supply is strictly limited to the goods of its manufacturing, not including assembly, installation and testing. SEA, therefore, disclaims any responsibility for damage deriving, also to third parties, from non-compliance of safety standards and good practice during installation and use of the purchased products.

8) WARRANTY The standard warranty period is 12 months. This warranty time can be extended by means of expedition of the warranty coupon as follows:

SILVER: The mechanical components of the operators belonging to this line are guaranteed for 24 months from the date of manufacturing written on the operator.

GOLD: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator.

PLATINUM: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator. The base warranty (36 months) will be extended for further 24 months (up to a total of 60 months) when it is acquired the certificate of warranty which will be filled in and sent to SEA s.r.l. The electronic devices and the systems of command are guaranteed for 24 months from the date of manufacturing. In case of defective product, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair centre. The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labour activities.

The recognized defects, whatever their nature, shall not produce any responsibility and/or damage claim on the part of the Buyer against SEA. The guarantee is in no case recognized if changes are made to the goods, or in the case of improper use, or in the case of tampering or improper assembly. Furthermore, the warranty shall not apply if SEA products are partly or completely coupled with non-original mechanical and/or electronic components, and in particular, without a specific relevant authorization, and if the Buyer is not making regular payments. The warranty shall not cover damage caused by transport, expendable material, faults due to non-conformity with performance specifications of the products shown in the price list. No indemnification is granted during repairing and/or replacing of the goods in warranty. SEA disclaims any responsibility for damage to objects and persons deriving from non-compliance with safety standards, installation instructions or use of sold goods.

9) RESERVED DOMAIN A clause of reserved domain applies to the sold goods; SEA shall decide autonomously whether to make use of it or not, whereby the Buyer purchases propriety of the goods only after full payment of the latter.

10) COMPETENT COURT OF LAW In case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo. SEA reserves the faculty to make technical changes to improve its own products, which are not in this price list at any moment and without notice. SEA declines any responsibility due to possible mistakes contained inside the present price list caused by printing and/or copying. The present price list cancels and substitutes the previous ones. The Buyer, according to the law No. 196/2003 (privacy code) consents to put his personal data, deriving from the present contract, in SEA archives and electronic files, and he also gives his consent to their treatment for commercial and administrative purposes. Industrial ownership rights: once the Buyer has recognized that SEA has the exclusive legal ownership of the registered SEA brand, he will commit himself to use it in a way which does not reduce the value of these rights, he won't also remove, replace or modify brands or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any particularity on the products, unless preventive and expressed authorization by SEA.

In accomplishment with art. 1341 of the Italian Civil Law it will be approved expressly clauses under numbers:

4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LAW

ENGLISH

GENERAL INSTRUCTIONS FOR A SAFE AND CORRECT INSTALLATION OF AUTOMATIC SYSTEMS FOR DOOR AND GATE OPENING

INTRODUCTION

Dear customer,

this brochure will give you all the possible information on the correct use of automatic systems of door and gate opening as well as advice on modes and kind of uses, correct maintenance and all necessary safety instructions.

We remind you a useful reading of this brochure for your personal safety. SEA products and this brochure are consistent with the Machine Regulation (89/392/CEE and following adjustments), Low Tension (73/23/CEE), Electromagnetic Consistency (89/336/CEE).

Before starting whatsoever installation, be aware of understanding the brochure in all its parts. In case of misunderstandings and further information refer to our area referents or phone assistance. They will be happy to give you all the information you may request.

Before starting whatsoever installation, be aware of reading this brochure even twice before using the system so to verify the correct assembling and good system working.

Remember that a correct installation followed by functional tests, is the most important step to assure your system a long-lasting life without damages and personal safety.

This brochure is part of your just bought system. Keep it in a well known-easy to find-place so that it is available every time you need it. Furthermore, the brochure is a main guide for SEA products installing; the installer must carefully comply with it.

Respecting the herewith enclosed data means conformity to regulations and reliability on a working and safe system.

SEA product you have just bought has to be used only for doors, gates, leaves and barriers automating. SEA is not responsible for uses not referred to or personal find-outs by installers, not authorised by SEA.

SEA gives the installers a Customer Phone Technical Assistance Service for explanations on this brochure and eventual information on training courses.

GENERAL DIRECTIONS

Before the installation takes place, make sure that the product has not been damaged in the parts which could compromise its assembling or safe working. Check the packing stuff and if you have the right fixing materials. On the check we refer to the instructions available on each model.

Make sure that the structure on which you are fixing the product is sufficiently strong for strains (e.g. against the wind force on the gate or product surface) and hold the anchorage firmly.

SEA S.r.l. forbids installation on unsafe, fragile or crumbling walls which can't hold strains and do not provide an effective sustain.

Consult a technician if you are not sure about the wall strength.

The place where the product has to be installed must be compatible with the product itself. Avoid: place excessively icy on winter times; direct exposure to corrosive agents or similar. It is not possible to make a list of all the possible negative conditions. Anyway, pay attention on where you are placing the system.

Further characteristics of the installation place (e.g. minimum spaces, distances to be kept) are available on the instructions of each product and sector regulation normative.

Further information for a correct installation (e.g. schemes of electrical connections) are usually available on the installation instructions of each product or enclosed schemes.

Product installation has to be executed by technicians only.

All the systems must be installed by sector technicians who will issue a document as provided by law.

Before connecting the electrical power to the network, make sure that engine data and distribution grid are the same and that electrical power is compatible with the maximum power.

The product electrical safety is reached only when it is connected to a efficient grounding as provided by safety law. Meeting the just stated requirement is very important; if doubtful refer to a qualified technician. SEA can't be hold responsible for damages being caused for no grounding.

It is not allowed the installation in presence of children or unauthorised person.

SEA forbids every kind of adjustment or modify of product anchorage points or product itself if not authorised.

Extra anchorages and adjustments required have to be directly shown to SEA with drawings attached of the required modification.

Only after eventual SEA written authorisation the product installation is possible. Without authorisation SEA is not responsible for failing assemble or product dysfunction.

A faulty installation can be cause of damage to people, animals and things which SEA can't be claimed responsible for.

Further conditions and details are directly reported in the UNI EN 13241-1 regulation to which to refer in eventual, special cases.

PLEASE NOTE: Packing stuff such as: plastic bags, foam polystyrene, screws etc. must be kept out of children reach ever since they could be dangerous.

FIRST SETTING UP AND CONTROLS

Make sure that product has not been damaged while being installed so to work poorly and unsafely.

Check the detectors, limit switches control and safety devices. They must be well installed and working.

If you are not sure about safety devices performance, start the system and be very careful.

During this first step, the installer has to be very close to the controls. If the system doesn't work perfectly the installer has to stop it immediately.

The installer is the only authorised person to use the product. Non authorised people are to be taken away from dangerous zone. The installer will work on the commands provided by SEA only.

As a precaution it is useful that a second person stays five metres far from the product being so able to watch the installer and helpful in case of danger.

Before starting the first operation keep runners, strokes, hinges and element moving spaces clear of obstacles.

On the first starting keep children, animal, non authorised person away.

Don't set any command if doubtful, don't modify any command provided.

Don't touch any electrical part if some part of your body is either wet or humid.

In case of dysfunction search the troubling causes by following installation instructions and solve the problems.

If it shouldn't prove to be enough, assemble the product again following the instructions available in your just bought product.

If a further assembling proved to be useless, refer to factory technicians.

EXPLOITABLE MODES

SEA products have been designed and built for buildings and whatever needing automatic systems for doors, gates, leaves and barriers.

Product opening and closing must be carried out by runners and strokes provided by SEA.

SEA, forbids whatsoever modification of forces acting on the product (e.g. by adding weight to leaves, changing panels or glasses, varying motor power).

The building owner is responsible for the instruction and information of eventual users.

SEA is not responsible for accidents due to users poor instruction. The product has not to be used by children and non authorised person.

The use is forbidden on occasion of ice and whatever situation could damage the product (e.g. during a thunderstorm).

The use of the product is forbidden if it is badly preserved or the safety device doesn't work properly (e.g. the product is too old).

The use of the product is also forbidden in presence of whatsoever chemical agent compromising the product and user safety (e.g. chemical agents damage product characteristics and user clearness of mind as well).

Before starting the first operation keep runners, strokes, hinges and element moving spaces clear of obstacles.

Keep clear of the manoeuvring area, hinges and mechanic organ moving.

Put out a clear warning notice if the product is remote controlled.

PLEASE NOTE! Don't stick any object to the product in its parts. Product surfaces and whatever part have to be kept free of additional obstruction, weights, limit switches that haven't been provided in the installation.

PLEASE NOTE! If product leaves, its support structure or other parts are damaged by accidental impacts, stop the system immediately. The product will not be used afterwards unless repaired.

USE ADJUSTMENTS

Every adjustment process is being carried out during the product installation. The adjustment is on charge of the installer who has to follow the installation brochure.

ENABLED USES

SEA product you have just bought has to be used for doors, gates, leaves and barriers automating only. SEA is not responsible for uses not referred to or personal find-outs by installers, not authorised by SEA.

DIFFERENT EXPLOITATION WAYS

Never use the product for different aims. **Whatever use different from the ones enabled is forbidden.** Different uses will be considered out of place and outside the provider limits. SEA is not responsible for eventual damages and the warranty will be called off.

PRODUCT CLEANING

Obstructions on the movement points can affect the efficiency and time length of the product.

Bear in mind that cleaning is subject to external factors such as: Weather factors, use mode, product age, corrosive agents, etc.

The evaluation and intervention on dirtiness is left to users who will increase or reduce cleaning frequency according to product state time by time.

Cleaning has to be done when the system is stopped and the electric board is off (Check the differential switch, 16A 0,030 A).

Never use solvent, abrasive material or unsuitable methods contrasting the product features.

If the product gets in touch with damaging materials, keep the area clear of materials and clean the whole product

On winter time, because of low temperatures, it is better to keep the runners dry ever since ice could damage their functions

MAINTENANCE

Put the differential switch (16A 0,030 A) of the power supply off before maintenance. In case of trouble refer to authorised technicians.

As far as the electric board is concerned refer to an authorised electric technician. The electric scheme must be never modified in all its parts.

Check the screws twice a year, since movement vibrations make them unscrew.

SEA advises not to use greases unfit for weather conditions which dry very early. We recommend the use of a flexible grease gun.
Refer to SEA for repairs.
Check the safety devices in time. Machine protections have to be sound; if they are not, they must be replaced.
Never act on parts which haven't been indicated on the brochure unless troubles or needs calling. Before acting ask for information.

PLEASE NOTE! *If you are unable to a professional maintenance, if tools or specialised offices are unavailable, contact the nearest installation service.*

MAIN SAFETY STANDARDS

Check that runners and stroke are free moving.
Never adjust or maintain while the system is working. As for maintenance, make sure the product is stopped, electrical board is off and working cycle excluded.
Don't remove the protections. If obliged, fix them back with care before usage.
Never use the product outside its operative capacity as described in the brochure (inaccuracy is cause for calling the warranty off).
Suggestions on the warning notice placed on the product must be respected for question of safety.
As for suggestions not available in the brochure, refer to normative laws in which the system works.
Use SEA original spare parts: they guarantee safety standards. (The use of non original spare parts is also cause of warranty calling off).
If the product frame is deformed (e.g. shocks) its use is not allowed. Damaged parts must be replaced (small sheet or leaves dents are not compromising and are therefore allowed). Contact our area distributor for further information.

WARNING NOTICE

The installer has to provide for the necessary warning notice for eventual and/or unpredictable dangers.
Warning notice must be kept clear and visible. They must not be hidden or taken away. They must be replaced if unreadable.

TRANSPORT

The product is packed and all the components are in their own boxes.
As for transport, behave as for packages of the same dimensions.
Be very careful for eventual lifting in the packing weight and linking points.
Load must be well shared between the linking points; it has to be centred and well balanced as well.
Use the hoist or lifting stripes with a tackle to share the load.
While using the lifting stripes do not deform the package.
Don't use tools which could compromise the balance during the lifting process. Don't touch or deform the product on the move.
Use licensed lifting tools; read carefully the instructions as for means of transport and tools (e.g. tackle, hoist etc.)
Product can be carried by means of transport. Loading limits and local transport laws must be respected.
Prevent the packed good against twists or moves during loading and transport.
Remember safety instructions while lifting or transporting the product.
SEA S.r.l. is not responsible for damages on the transport unless the transport is on its charge.
If an already installed product must be transported it has to be uninstalled and dismantled in its parts as it was before assembling. The elements must be packed as if they were newly packed. Therefore follow the before mentioned instructions.

PLEASE NOTE! *SEA, forbids the lifting and transport of already installed products not being uninstalled, well dismantled and correctly packed.*

PLEASE NOTE! *It is forbidden whatever transport form or means different from the before mentioned ones.*

INSTRUCTIONS FOR OUT SERVICING

If the product is scrapped get rid of it in the right way (e.g. separate metal, rubber, wires, oil). Refer to authorised factories according to the disposal of waste material law.

ADJUSTMENTS

In its continuous striving to improve its products, SEA has the right to adjust it at any time without warning. SEA is not obliged to adjust the products manufactured in the past.

SPARE PARTS

Refer either to the factory where the product was bought or to SEA area distributor indicating the replacing part. For electrical and electronic waste, this marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. (Applicable in the European Union and other European countries, with separate collection systems).

WARRANTY

For the warranty conditions see the official SEA price list.

The warranty is a replacement of the faulty part if the damage is due to faults in the material or manufacturing. Under no circumstance Sea responsibility will exceed the single part buying price. Therefore the purchaser will not be refunded for damages such as:

loss of production;
loss of profit or selling;
machines stop;
whatever circumstantial damage, non applicable to the simple use of the product.

Warranty is also not applicable in the following circumstances:

irrational or faulty uses of the product;
transgression of the use, maintenance and safety instructions;
non authorised adjustments;
assembling of non original spare parts;
passing the power limits in the data;
connection to a non conformity electric net;
if the product is being resold even within the warranty time;
laws in the customer country.

Parts being normally used (e.g. gaskets, bearings) and general consumption materials (e.g. oil, grease etc.) are excluded from warranty unless being faulty in the assembling or manufacturing.

SEA is not responsible for damages or accidents being produced by eventual product breaking if they are consequent to instruction default. Eventual damages occurred in the transport or delivery, are excluded from warranty unless the transport is on SEA charge.

IMPORTANT!

Warranty is not valid and SEA is not responsible if SEA original spare parts are not being used.

INSTRUCTIONS FOR THE ELECTRICAL SYSTEM

All the systems must be installed by sector technicians who will issue a document as provided by law.

Packing stuff such as: plastic bags, foam polystyrene, screws etc. must be kept out of children reach ever since they could be dangerous.

Before connecting the electrical power to the network, make sure that engine data and distribution grid are the same and that electrical power is compatible with the maximum power.

Make sure that wiring is fit for the product power.

A faulty installation can be cause of damage to people, animals and things which SEA can't be claimed responsible for.

The product electrical safety is reached only when it is connected to an efficient grounding as provided by safety law. Meeting the just stated requirement is very important; if doubtful refer to a qualified technician. SEA can't be hold responsible for damages being caused for no grounding.

Don't touch any electrical part if some part of your body is either wet or humid.

Don't allow the use of the product to children or non authorised people. Keep the customers informed on the correct use, maintenance or safety.

Warning notice must be stored in a proper place.

Turn the differential switch (16 A 0,030 A) off before maintenance.

Refer to authorised technicians for damages.

Refer to SEAS.r.l. for repairs.

Don't make a spiral winding of the supplying wire to avoid dangerous over heating.

Keep clear of the machine hinges and moving parts.

Attach a visible warning notice if the product is remote controlled.

Check in time if safety controls are working.

[illegible]



Questo articolo è stato prodotto seguendo rigide procedure di lavorazione ed è stato testato singolarmente al fine di garantire i più alti livelli qualitativi e la vostra soddisfazione. Vi ringraziamo per aver scelto SEA.

This item has been produced following strict production procedures and has been singularly tested for the highest quality levels and for your complete satisfaction. Thanks for choosing SEA.

Cet article a été produit suivant des procédures d'usinage strictes et il a singulièrement été testé afin de garantir les plus hauts niveaux de qualité pour votre satisfaction. Nous vous remercions d'avoir choisi SEA.

Este artículo ha sido producido siguiendo rigidos procedimientos de elaboracion y ha sido probando singolarmente a fin de garantizar los mas altos niveles de calidad y vuestra satisfaccion. Le agradecemos por haber escogito SEA.

CERTIFICATO DI ESTENSIONE GARANZIA CERTIFICATE OF WARRANTY EXTENTION

n.

PRODOTTO/ PRODUCT

- Modello/Model _____
- Matricola n. /Serial Number _____
- Data di acquisto/Date of order _____
- Data di installazione/Date of installation _____

Centrale/Control unit

SEA ☐

Altri/Others

☐

Fotocellule/Photocells

SEA ☐

Altri/Others

☐

RX - TX

SEA ☐

Altri/Others

☐

Altri accessori /Other accessories

SEA ☐

Altri/Others

☐

UTENTE/Customer

Nome e Cognome _____

First Name and Family Name _____

Indirizzo/Address _____

INSTALLATORE/Installer

Ragione sociale/Company Name _____

Nome e Cognome/First and Family Name _____

Indirizzo/Address _____

INSTALLATORE/INSTALLER

Firma per il trattamento dei dati personali 196/2003

Agreement of law No. 196/2003 (Privacy Code)

Copia da restituire

Copy to be returned

Firma e Timbro

Sign and Stamp _____

N.B: L'estensione della garanzia legale di 12 mesi a 24 mesi e 36 mesi è valida solo se il presente modulo viene rispedito per posta o fax a SEA Srl entro 15gg dalla data di acquisto. Allegare relativa fattura d'acquisto.

Note: The extension of the legal standard warranty of 12 months to 24 months and to 36 months, is valid only if the present form is returned by mail or fax to SEA Srl within 15days from the date of purchase. Attach customer invoice.



SEA®
Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 804888

SEA srl - Zona Industriale San Atto- 64020 Teramo (Italy)

Phone +39 0861 588341- Fax +39 0861588344

www.seateam.com - info@seateam.com



SEA S.r.l.
Zona industriale 64020 S.ATTO Teramo (ITALY)
Tel. 0861 588341 r.a. Fax 0861 588344

seacom@seateam.com

www.seateam.com