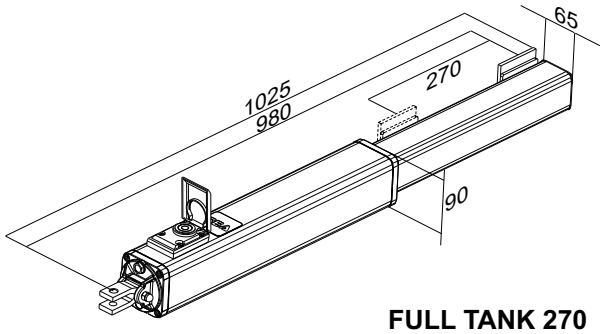
FEATURES AND SPECIFICATIONS

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)*

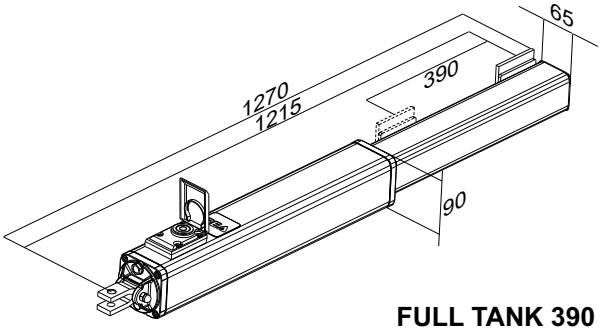
The lock is guaranteed for leaf lengths up to 180 m with the 270 version and up to 2,20 m with the 390 version. For leaf lengths exceeding 2,20 m it is necessery, in all versions, to install an electric lock.
The Full Tank is supplied with by-pass valves for the power regulation in both opening and closing. 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.

Fig. 1 **Dimensions (*mm*)**



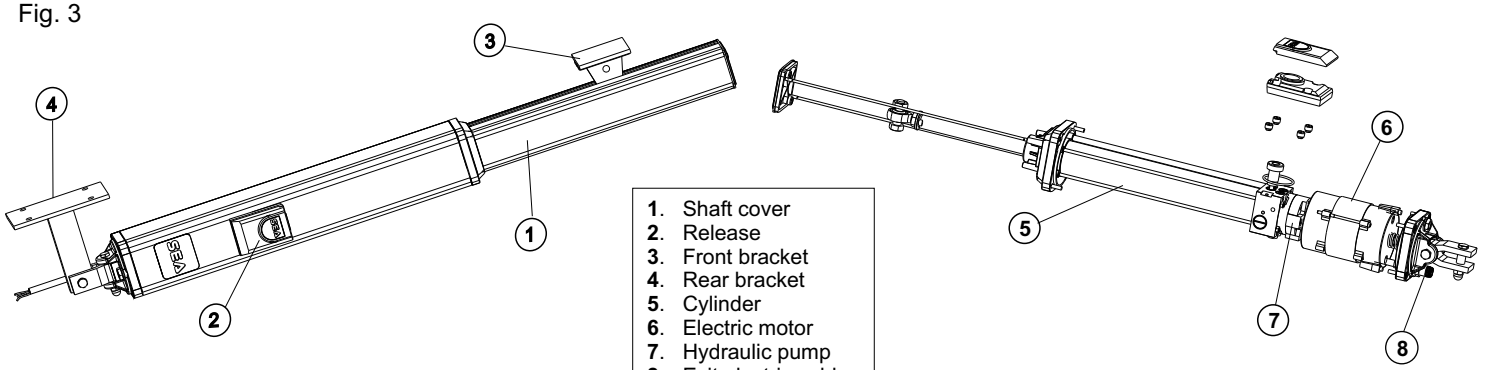
FULL TANK 270

Fig. 2 **Dimensions (*mm*)**



FULL TANK 390

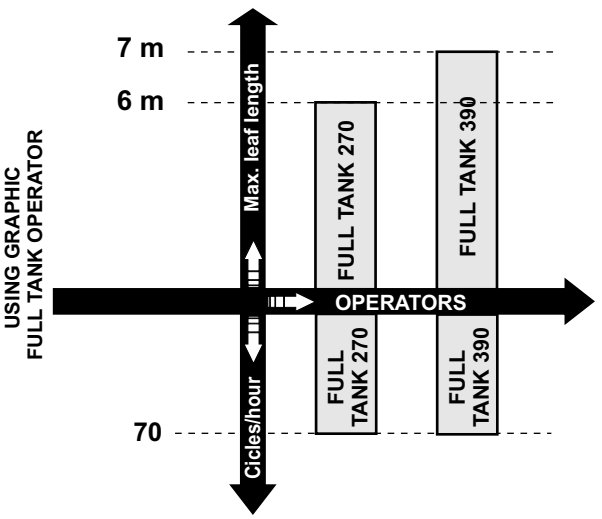
Fig. 3



1. Shaft cover
2. Release
3. Front bracket
4. Rear bracket
5. Cylinder
6. Electric motor
7. Hydraulic pump
8. Exit electric cables

TECHNICAL FEATURES	*FULL TANK 270*	*FULL TANK 390*
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 lenght	6 m	7 m
Opening degree of the leaf	90° / 125°	

Note: The frequency of use is valid only for the first hour at 20°C room temperature.



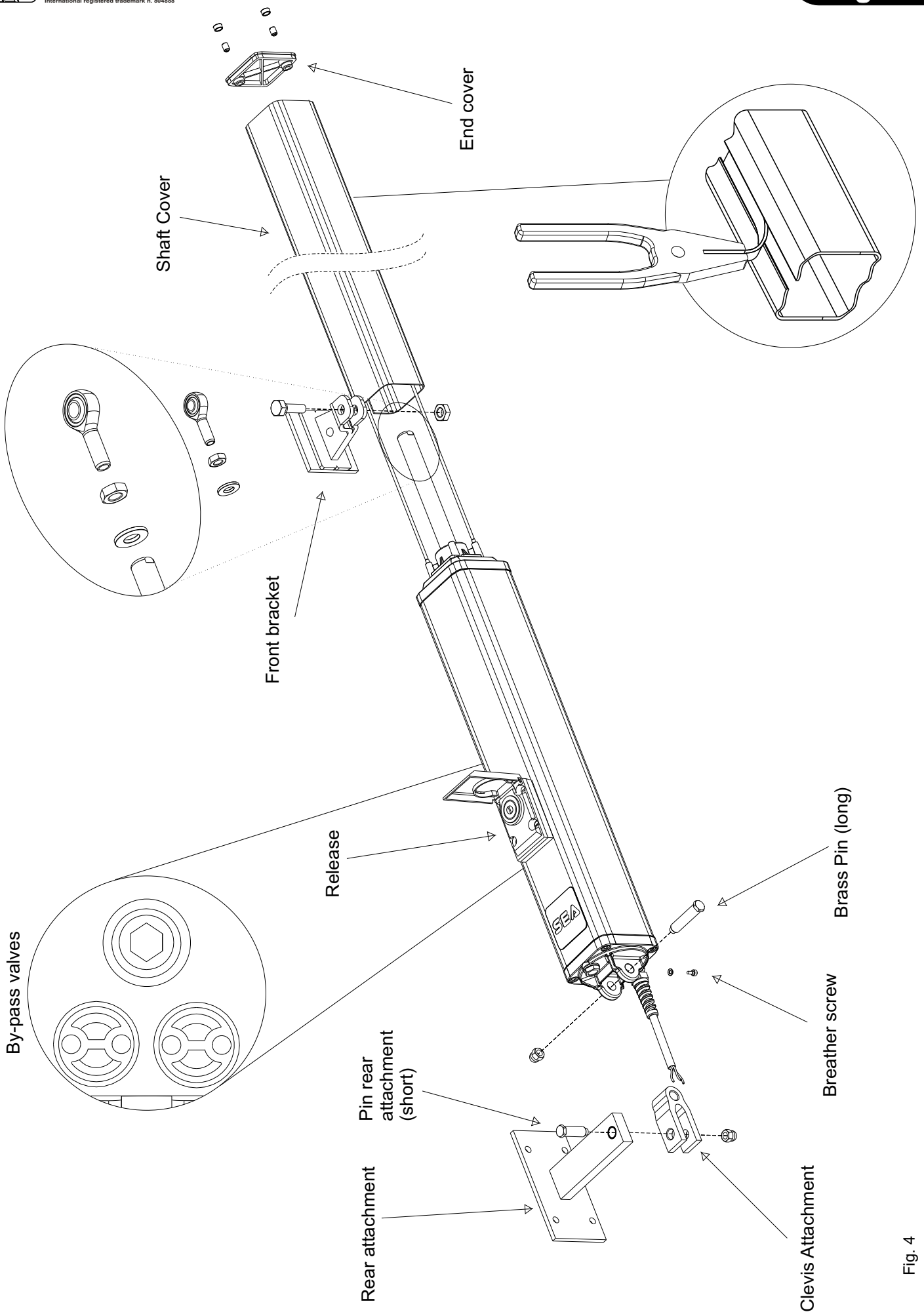
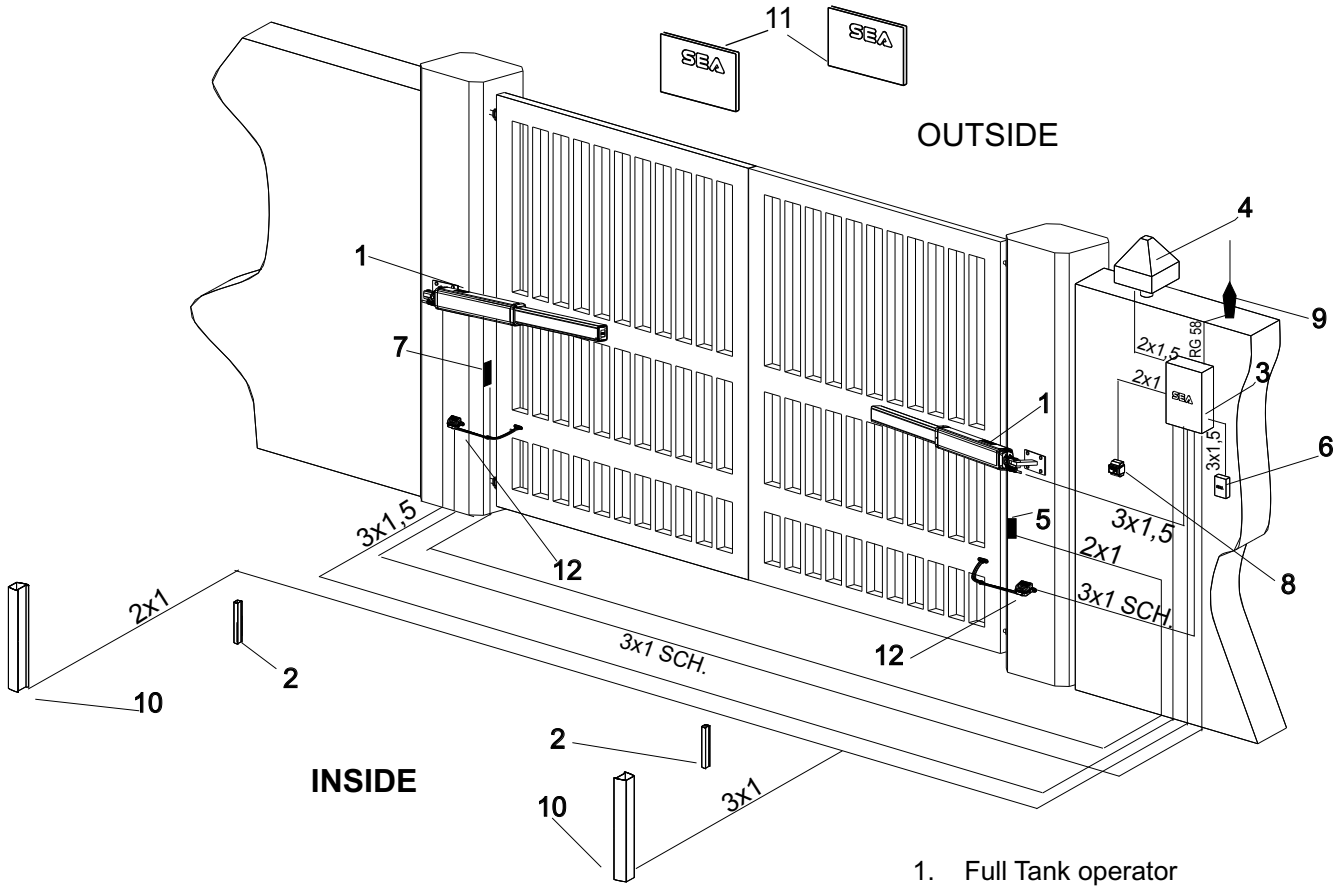

End cover
Shaft Cover
Front bracket
Release
By-pass valves
Brass Pin (long)
Breather screw
Pin rear attachment (short)
Rear attachment
Clevis Attachment

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).

Inward installation

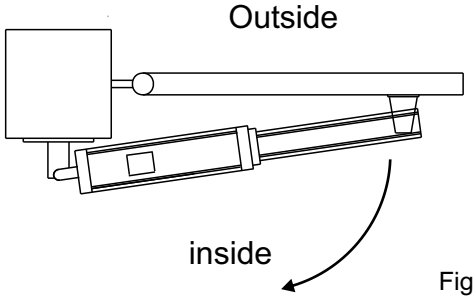


Fig. 5

Outward installation

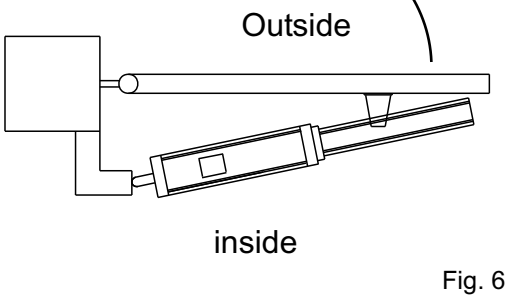


Fig. 6

Install the operator always inside the property

INSIDE OPENING INSTALLATION

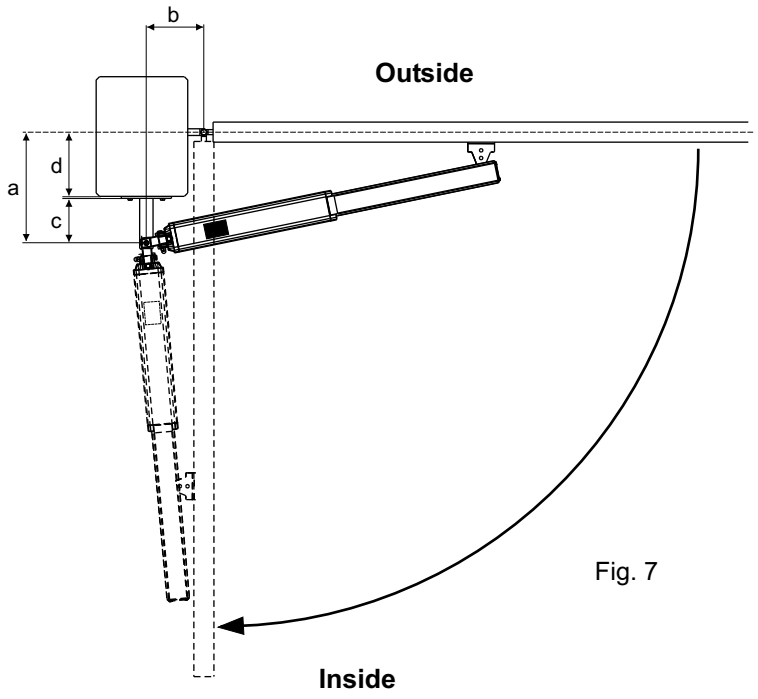


Fig. 7

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

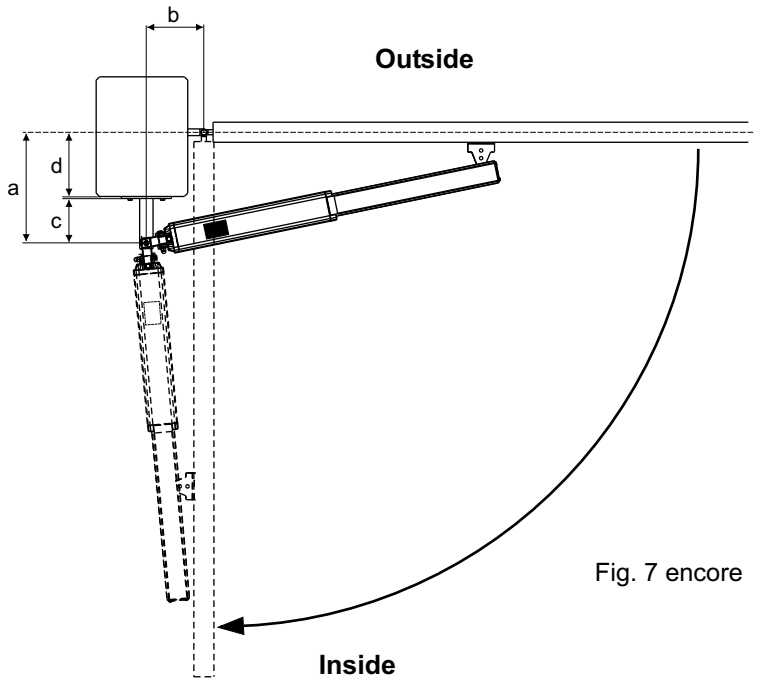


Fig. 7 encore

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

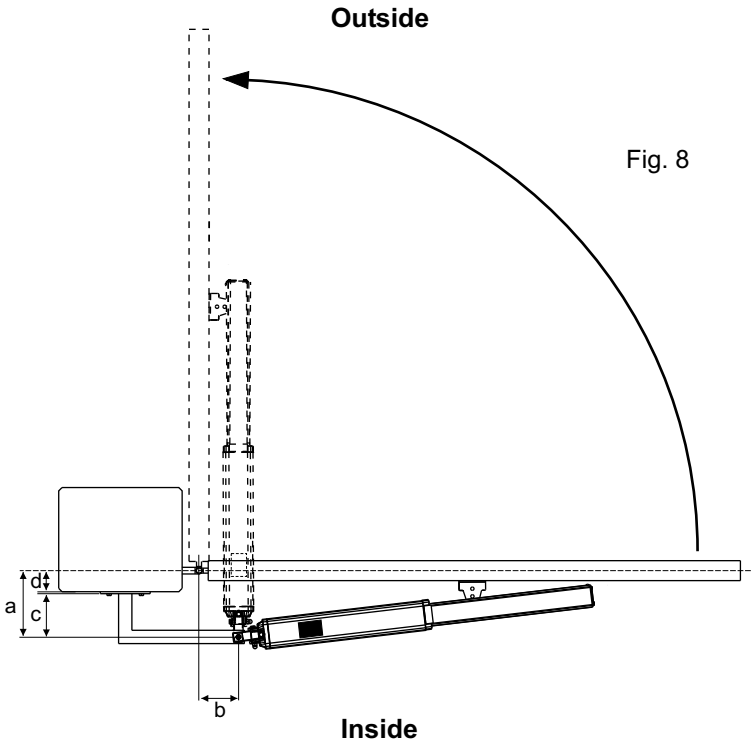


Fig. 8

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

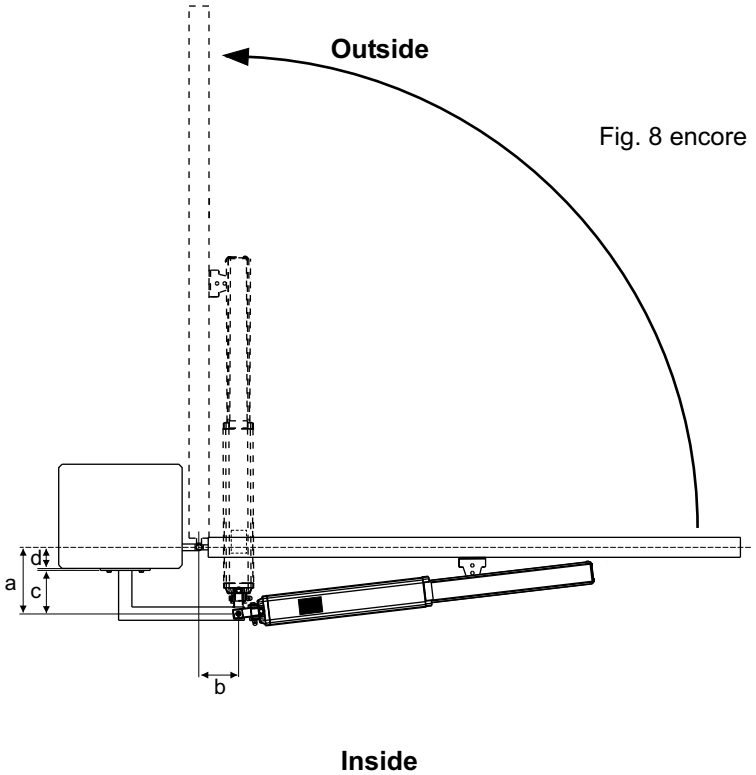


Fig. 8 encore

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

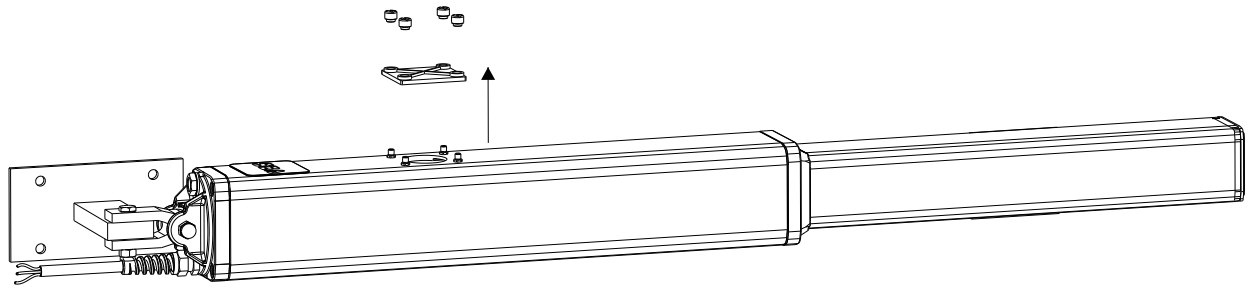


Fig. 9

Remove the transporting plate as shown in Fig. 9.

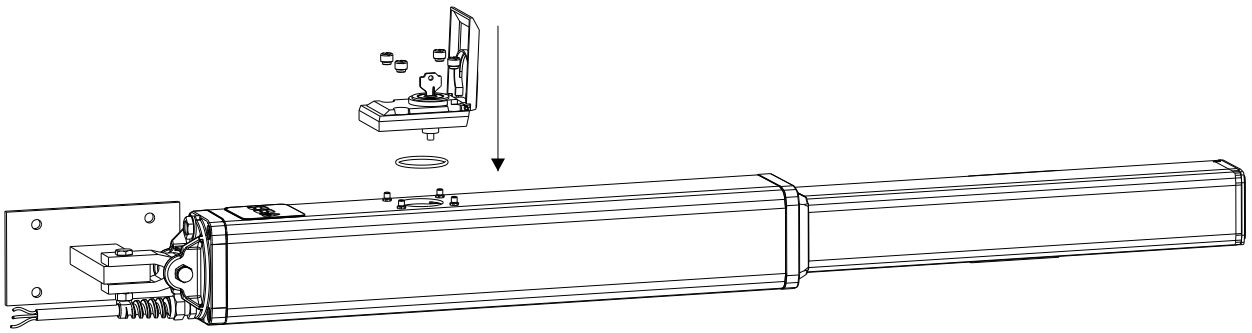


Fig. 10

Mount the release as shown in Fig. 10.

INSTALLATION OF THE OSCILLATING REAR BRACKET

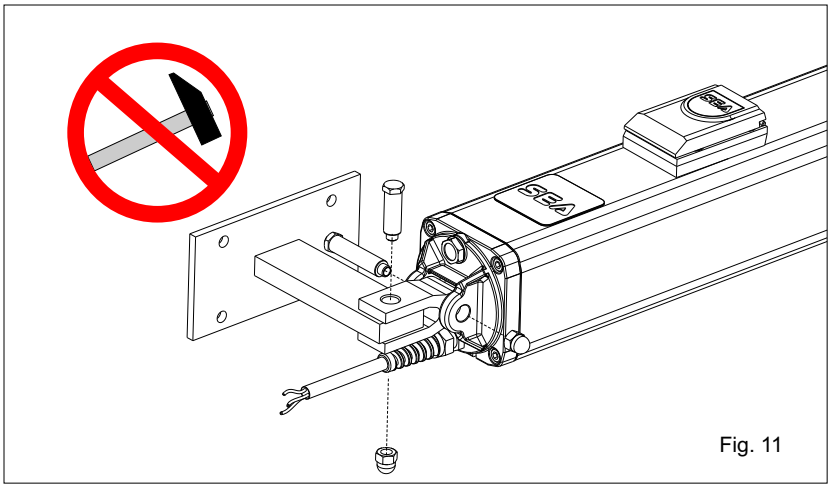


Fig. 11

- 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.

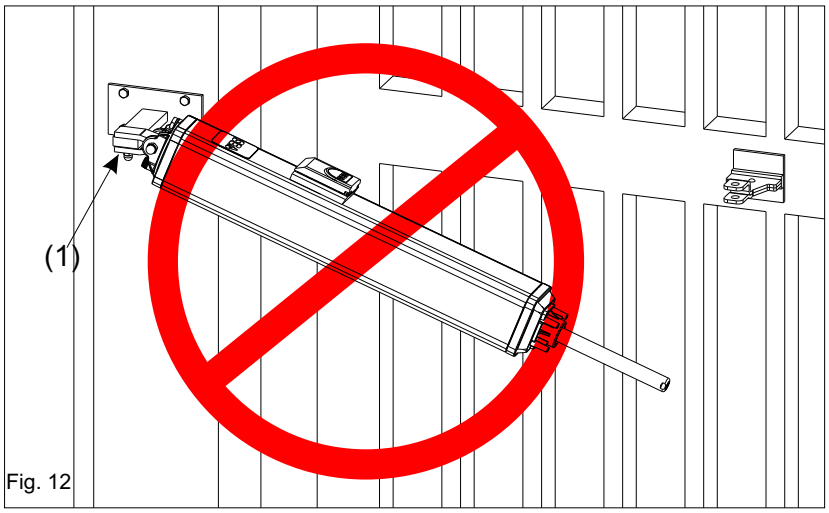


Fig. 12

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. 18-19), the rear bracket must first be cut respecting the quote “a” on pag. 18-19 and then welded as in fig. 13.

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

Adjustable rear bracket (with screws)
(Accessory on demand)

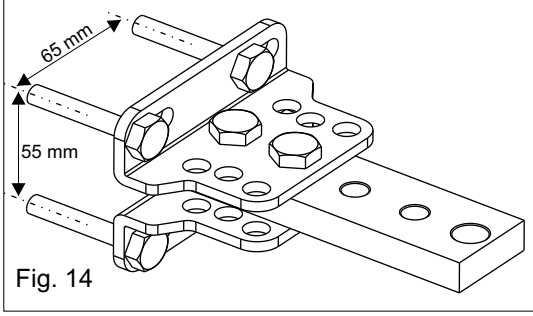


Fig. 14

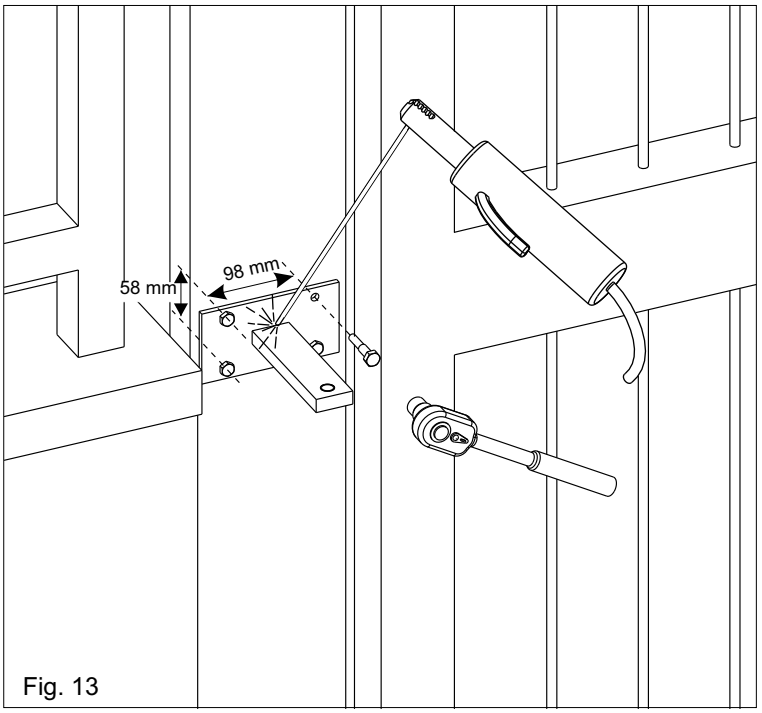
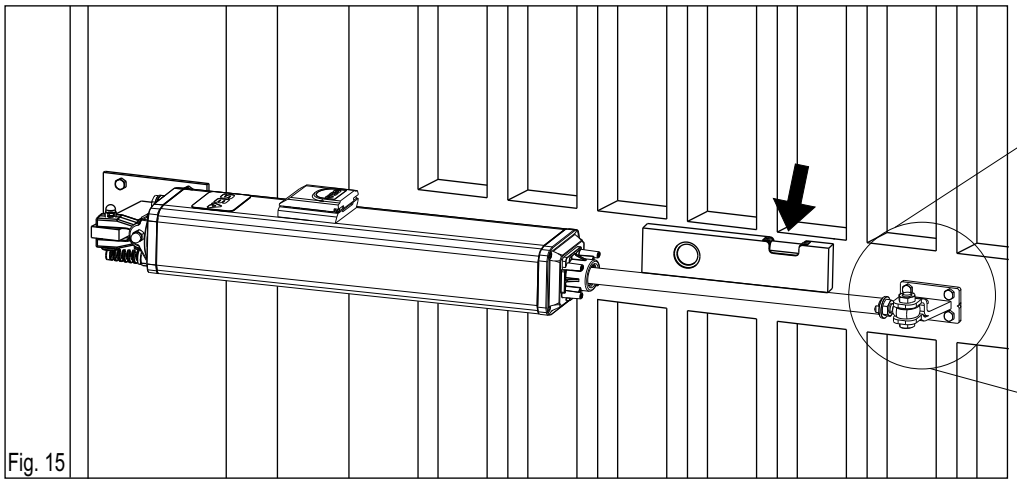


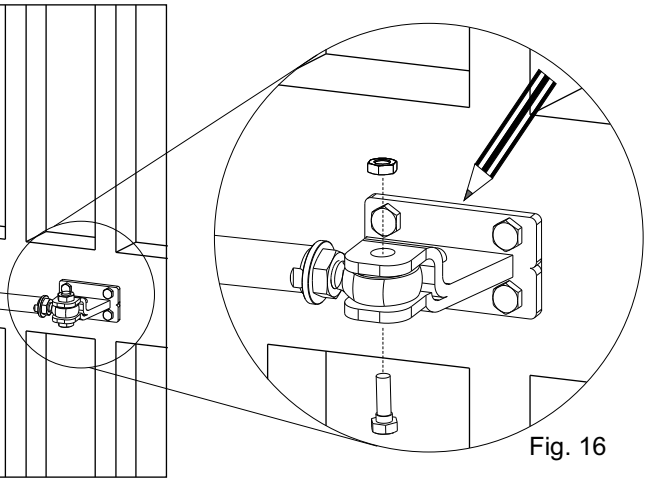
Fig. 13

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)
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, steal, Aluminium) can be:

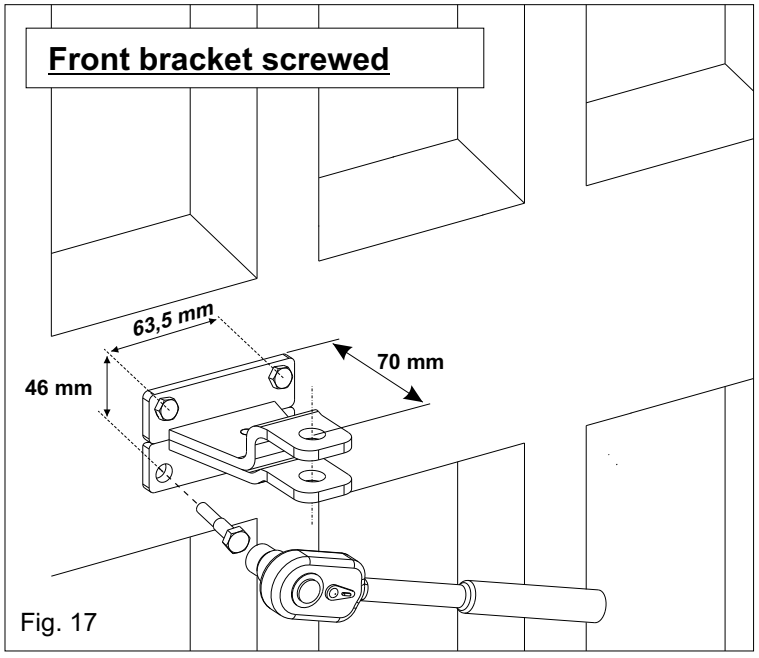


Fig. 17

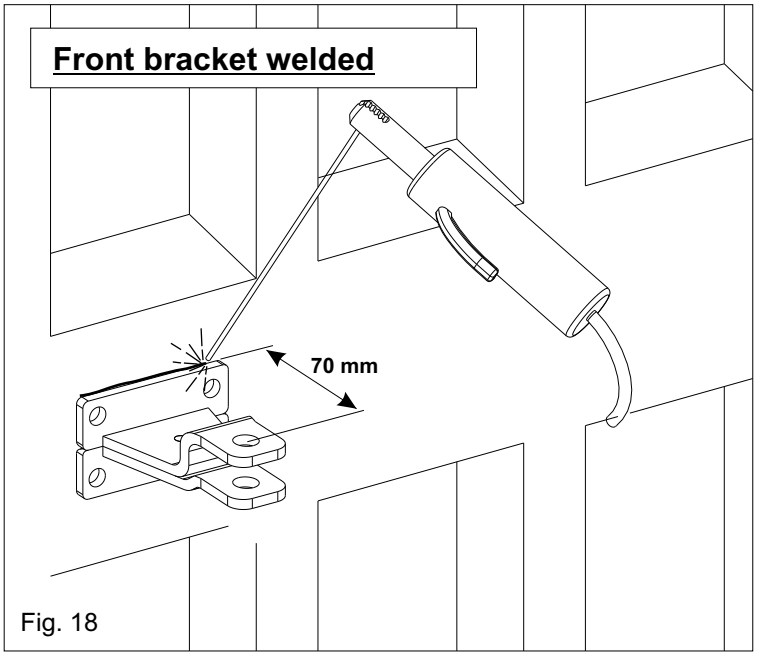


Fig. 18

INSTALLATION OF POSITIVE STOPS

- Release the unit (as in fig. 24)
- Make the shaft come out for ¾ 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.

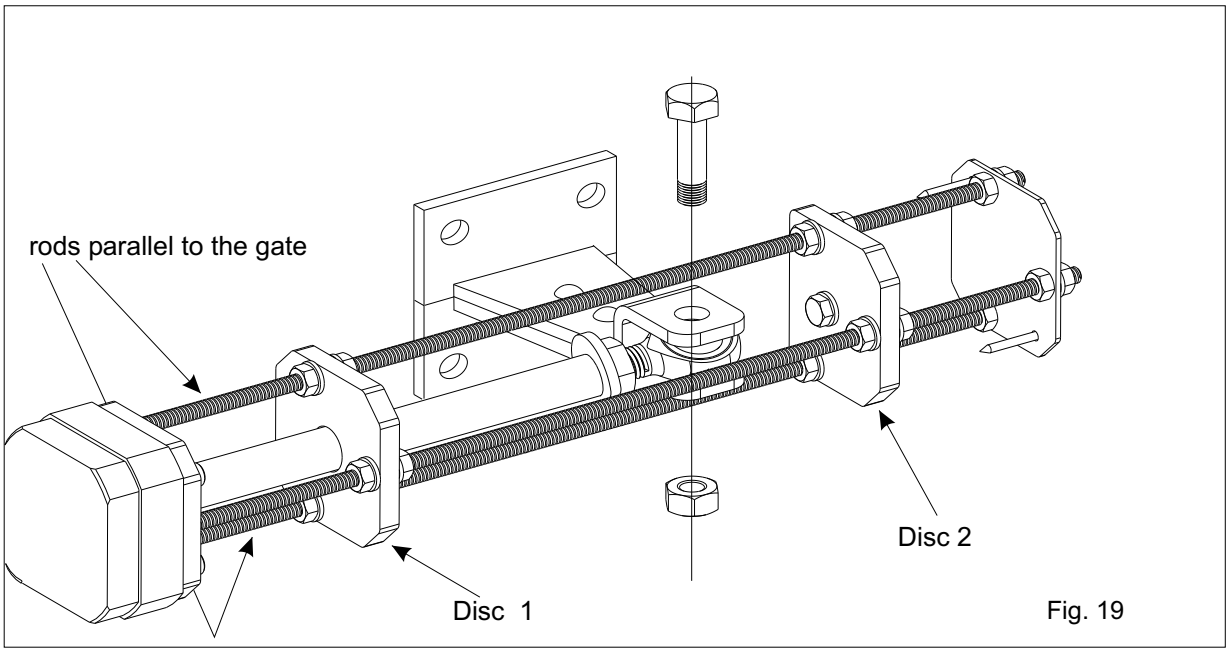


Fig. 19

BREATHER SCREW

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

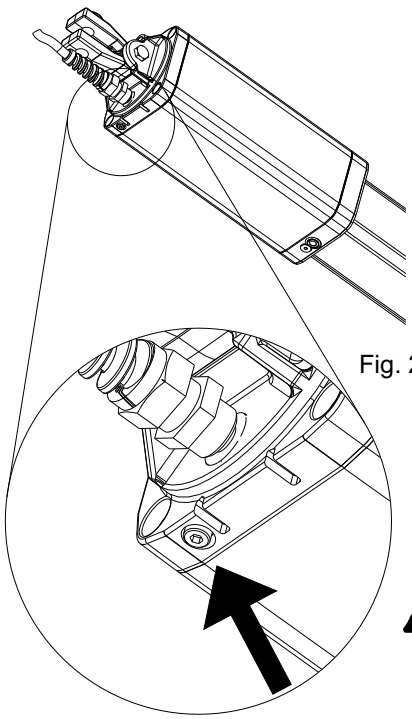


Fig. 20

Unscrew and remove the screw under the operator at the end of installation

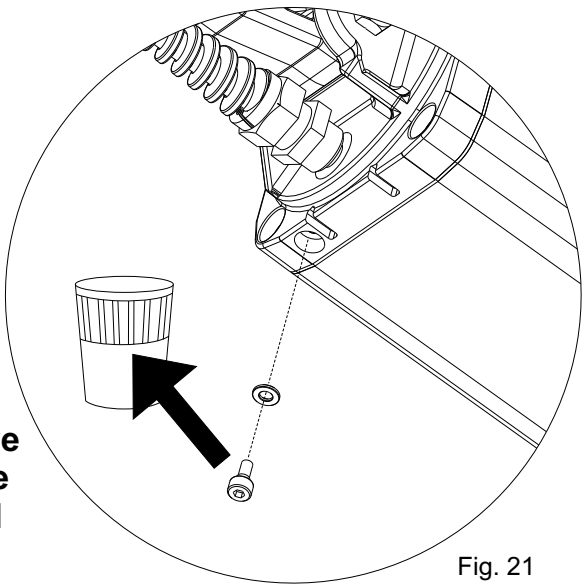


Fig. 21

TORQUE ADJUSTMENT (by pass valves)

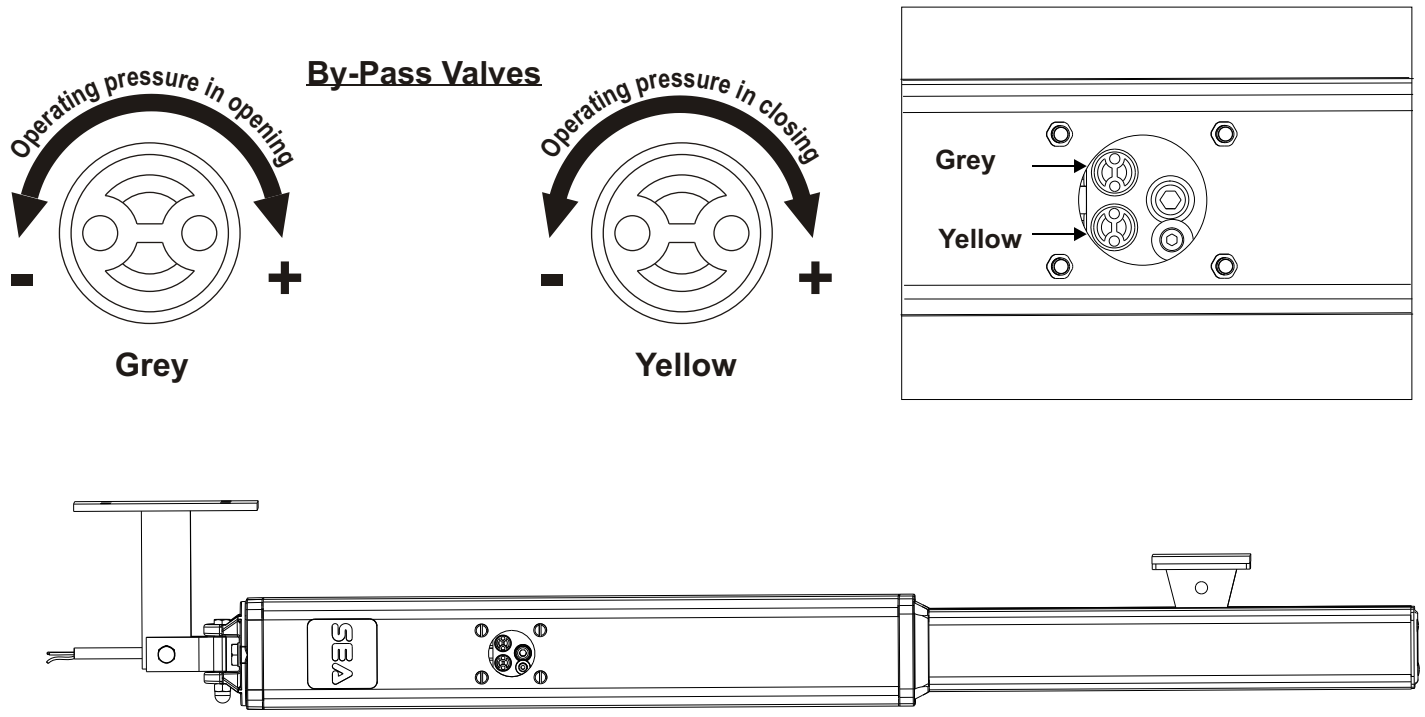


Fig. 22

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

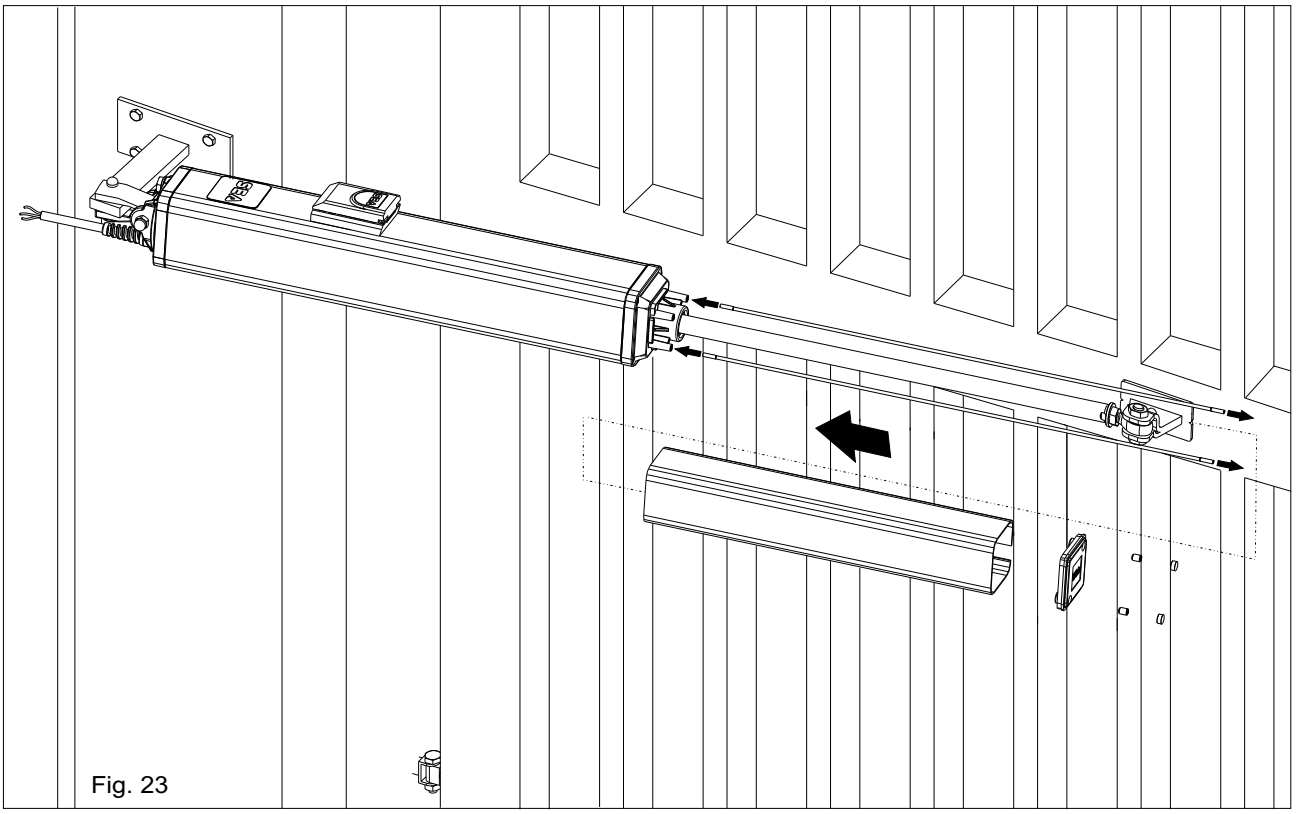


Fig. 23

To the attention of users and technicians

MANUAL RELEASE SYSTEM

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

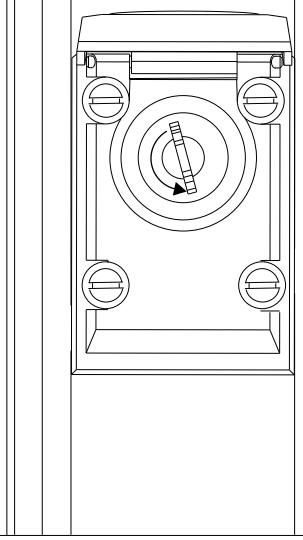


Fig. 24

To release, open the lid, insert the key, rotate starting from the stop of departure from ½ turn to a maximum of 1 turn (360°) in anti-clockwise direction (see fig.24).
To re-lock, turn the key into clockwise direction to the maximum, afterwards bring back the key into the position 0, turn it again in anti-clockwise direction (see fig. 25), remove the key and close the little door again.
Attention: Turning the key over 1 turn (360°) could damage the release .

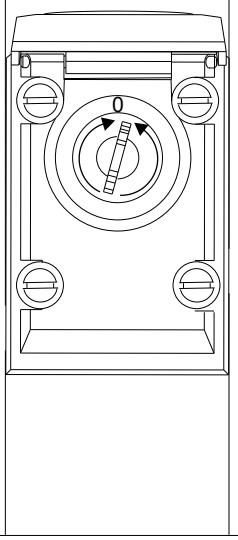


Fig. 25

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

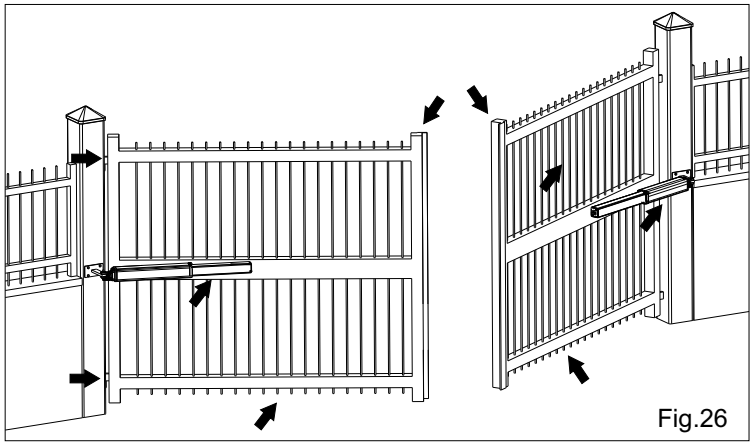
1) Check the solidity and the stability of the gate, especially the points of support and/or rotation of the gate (pivots).	Annual
2) Check the oil level of the hydraulic/in oil bath operators (cap on rear cover of the Full Tank)	Annual
3) Change the hydraulic oil with the one recommended from the head 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) Lubricate with grease SEA (GREASE GL 00 65000009)	Annual
12) **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.

To the attention of users and technicians

RISK EXAMINATION

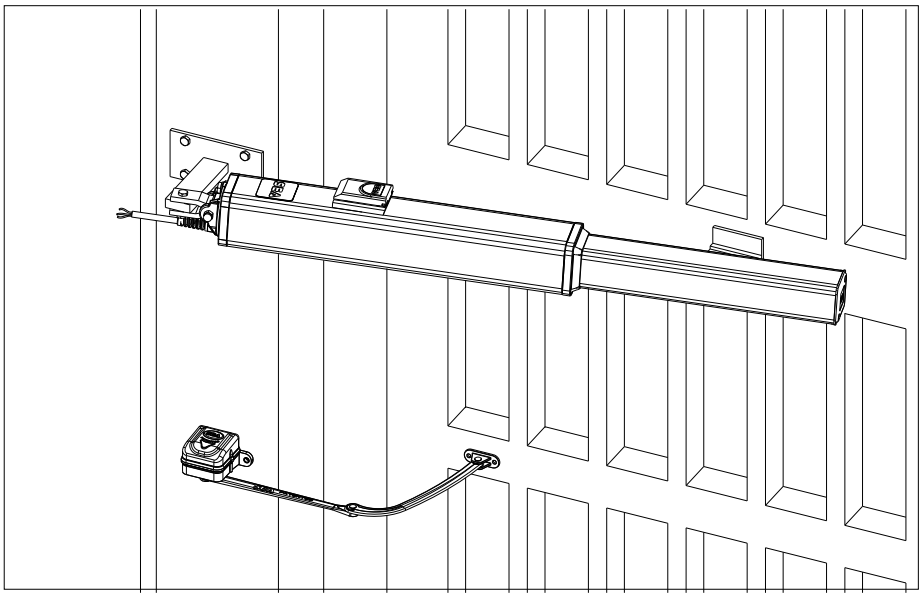
The points pointed by arrows in fig. 26 are potentially dangerous. The installer must take a thorough risk examination to prevent crushing, conveying, cutting, grappling, trapping so as to guarantee a safe installation for people, things and animals.
(Re. Laws in force in the country where installation has been made.)


Fig.26

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 intructions thoroughly. SEA products must only be used to automise doors, gates and lwings. 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.

To the attention of users and technicians

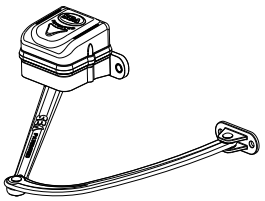
FULL TANK ACCESSORIES

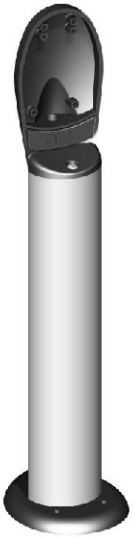

KEY SWITCH

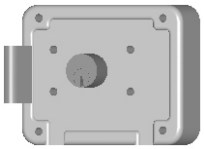

PHOTOCELLS

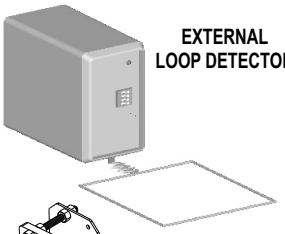

RADIO RECEIVER

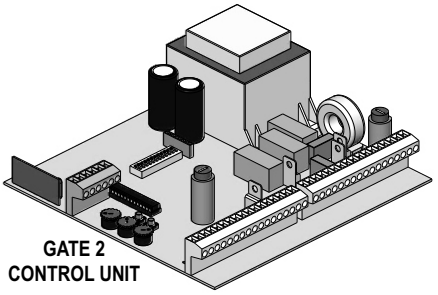

TRANSMITTER


SAFETY GATE

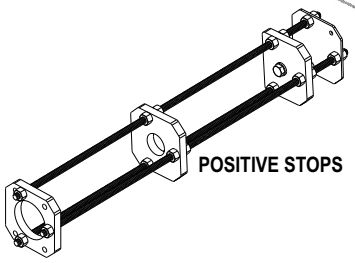

SUPPORTS
FOR PHOTOCELLS


ELECTRIC LOCK


EXTERNAL
LOOP DETECTOR


GATE 2
CONTROL UNIT


FLASHING LAMP


POSITIVE STOPS

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 planed 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
For the guarantee see the sales conditions on the official SEA price list.

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.

CONDIZIONI DI VENDITA

EFFICACIA DELLE PRESENTI CONDIZIONI GENERALI DI VENDITA: Le presenti condizioni generali di vendita si applicano a tutti gli ordini indirizzati a SEA s.r.l. Tutte le vendite fatte da SEA ai clienti sono regolate secondo le presenti condizioni di vendita che costituiscono parte integrante del contratto di vendita ed annullano ogni clausola contraria o pattuizioni particolari presenti nell' ordine o in altro documento proveniente dall' acquirente (cliente)

AVVERTENZE GENERALI Gli impianti di automazioni porte e cancelli vanno realizzati esclusivamente con componenti SEA, salvo accordi specifici. L'inosservanza delle norme di sicurezza vigenti (Norm. EUROPEE EN 12453 - EN 12445 e altro) e di buona tecnica esclude la SEA da ogni responsabilità. La SEA non risponde del mancato rispetto della corretta e sicura installazione secondo le norme.

1) PROPOSTA D'ORDINE La proposta d'ordine si intenderà accettata solo dopo la sua approvazione da parte della SEA. Conseguenza della sua sottoscrizione, l'acquirente sarà vincolato alla stipula di un contratto d'acquisto, secondo quanto contenuto nella stessa proposta d'ordine e nelle presenti condizioni di vendita. Viceversa, la mancata comunicazione all'acquirentedell'aprovazione della proposta d'ordine, non comporta la sua automatica accettazione da parte della SEA

2) VALIDITÀ OFFERTA Le offerte proposte dalla SEA o dalla sua struttura commerciale periferica, avranno una validità di 30 giorni solari, salvo diversa comunicazione in merito.

3) PREZZI I prezzi della proposta d'ordine sono quelli del listino in vigore alla data della redazione della stessa. Gli sconti applicati dalla struttura commerciale periferica della SEA si intenderanno validi solo dopo la loro accettazione da parte della SEA. I prezzi si intendono per merce resa franco ns. stabilimento in Teramo, esclusi IVA ed imballaggi speciali. La SEA si riserva il diritto di modificare in qualsiasi momento il listino, dando opportuno preavviso alla rete di vendita. Le condizioni speciali riservate agli acquisti con formula agevolata Qx, Qx1, Qx2, Qx3 sono riservate ai distributori ufficiali dietro accettazione scritta da parte della direzione SEA.

4) PAGAMENTI Le forme di pagamento ammesse sono quelle comunicate o accettate di volta in volta dalla SEA. Il tasso di interesse sul ritardo da pagamento è del 1,5% mensile e comunque non oltre il tasso massimo legalmente consentito.

5) CONSEGNA La consegna avverrà indicativamente ma non tassativamente entro 30 giorni lavorativi dalla data di ricezione dell'ordine, salvo diverse comunicazioni in merito. Il trasporto degli articoli venduti sarà effettuato a spese ed a rischio dell'acquirente. La SEA si libera dall'obbligo della consegna rimettendo la merce al vettore, sia esso scelto dalla SEA oppure dall'acquirente. Eventuali smarrimenti e/o danneggiamenti della merce dovuti al trasporto, sono a carico dell'acquirente.

6) RECLAMI Eventuali reclami e/o contestazioni dovranno pervenire alla SEA entro 8 giorni solari dalla ricezione della merce, supportati da idonei documenti provanti la loro veridicità.

7) FORNITURA L'ordine in oggetto viene assunto da SEA senza alcun impegno e subordinatamente alle possibilità di approvvigionamento delle materie prime occorrenti alla produzione; eventuali mancate esecuzioni totali o parziali non possono dar luogo a reclami e riserve per danni. La fornitura SEA è strettamente limitata alla sola merce di sua produzione, esclusi il montaggio, l'installazione ed il collaudo. La SEA declina pertanto ogni responsabilità per danni che dovessero derivare, anche a terzi, dall'inosservanza delle norme di sicurezza e della buona regola d'arte nelle fasi dell'installazione e dell'impiego dei prodotti venduti.

8) GARANZIA La garanzia minima è di 12 mesi e può essere estesa, come di seguito, in caso di riconsegna del certificato di garanzia.

SILVER: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 24 mesi dalla data di fabbricazione riportata sull'operatore.

GOLD: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 36 mesi dalla data di fabbricazione riportata sull'operatore.

PLATINUM: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 36 mesi dalla data di fabbricazione riportata sull'operatore. La garanzia di base (36 mesi) sarà estesa per ulteriori 24 mesi (fino ad un totale di 60 mesi) qualora venga acquistato il certificato di garanzie che dovrà essere compilato e rispedito alla SEA s.r.l. entro 60 giorni dall'acquisto. L'elettronica e le centrali di comando sono garantite per 24 mesi dalla data di fabbricazione. Nell'eventualità di difettosità del prodotto, la SEA si impegna alla sua sostituzione gratuita oppure alla sua riparazione, previa restituzione al proprio centro di riparazione. La definizione di stato di garanzia è ad insindacabile giudizio della SEA. I pezzi sostitutivi restano di proprietà della SEA. In modo vincolante, il materiale dell'acquirente ritenuto in garanzia deve essere spedito al centro di riparazione della SEA in porto franco e sarà rispedito dalla SEA in porto assegnato. La garanzia non si estende alla manodopera eventualmente accorsa. I difetti riconosciuti non produrranno alcuna responsabilità e/o richiesta di danni, di qualsiasi natura essi siano, da parte dell'acquirente nei riguardi della SEA. La garanzia non è in ogni caso riconosciuta qualora sia stata apportata alla merce qualsivoglia modifica, oppure vi sia stato un uso improprio, oppure si sia in presenza di una qualsivoglia sua manomissione o di un montaggio non corretto, oppure se sia stata rimossa l'etichetta apposta dal produttore comprensiva del marchio SEA registrato n° 804888. La garanzia non è inoltre valida nel caso la merce SEA sia stata in parte o in toto accoppiata a componenti meccanici e/o elettronici non originali, ed in particolare in assenza di una specifica autorizzazione in merito, ed inoltre nel caso in cui l'acquirente non sia in regola con i pagamenti. La garanzia non comprende danni derivati dal trasporto, materiale di consumo, avarie dovute al mancato rispetto delle specifiche prestazionali dei prodotti indicate nel listino. Non è riconosciuto alcun indennizzo durante il tempo di riparazione e/o sostituzione della merce in garanzia. La SEA declina ogni responsabilità per danni a cose o persone derivanti dall'inosservanza delle norme di sicurezza e della non conforme installazione o dall'impiego errato dei prodotti venduti. La riparazione dei prodotti in garanzia e fuori garanzia è subordinata al rispetto delle procedure comunicate da SEA.

9) RISERVATO DOMINIO Sulla merce venduta è valida la clausola del riservato dominio, della quale la SEA deciderà autonomamente se avvalersi o meno, in virtù della quale l'acquirente acquisisce la proprietà della merce, solo dopo che il suo pagamento sia stato completamente effettuato.

10) FORO COMPETENTE Per qualsiasi controversia avente per oggetto l'applicazione di questo contratto, viene eletto competente il Foro di Teramo. La lingua valida nell' interpretazione di cataloghi, manuali di installazione, condizioni di vendita o altro è quella italiana. La SEA si riserva la facoltà di apportare modifiche tecniche atte a migliorare i propri prodotti, presenti o meno in questo Listino, in qualsiasi momento senza preavviso. La SEA declina ogni responsabilità derivante da possibili inesattezze contenute nel presente listino, derivanti da errori di stampa e/o trascrizione. Il presente Listino annulla e sostituisce quelli precedenti. L'acquirente ai sensi della legge 196/2003 (codice privacy) acconsente all'inserimento dei propri dati personali derivanti dal presente contratto negli archivi informatici e cartacei della SEA s.r.l. al loro trattamento per motivi commerciali ed amministrativi.

Diritti di proprietà industriale: il cliente, con l'acquisto, accetta le presenti condizioni di vendita e riconosce in capo a SEA la titolarità esclusiva del marchio internazionale SEA registrato n. 804888 apposto sulle etichette dei prodotti e/o sui manuali e/o su ogni altra documentazione, e si impegna ad utilizzare il medesimo nella propria attività di rivendita e/o installazione secondo modalità che non ne riducano in alcun modo i diritti, a non rimuovere, sostituire o alterare marchi o altri segni distintivi di qualsiasi genere apposti ai prodotti.

E' vietata ogni forma di riproduzione o utilizzo del marchio SEA e di ogni altro segno distintivo presente sui prodotti, salvo autorizzazione scritta di SEA srl.

Agli effetti dell'articolo 1341 del C.C. si approvano specificatamente per iscritto le clausole di cui ai numeri:
4) PAGAMENTI - 8) GARANZIA - 10) FORO COMPETENTE

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 expressively clauses under numbers:
4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LOW

Italiano **AVVERTENZE GENERALI PER INSTALLATORE E UTENTE**

1. Leggere attentamente le **Istruzioni di Montaggi**o e le **Avvertenze Generali** prima di iniziare l'installazione del prodotto. Conservare la documentazione per consultazioni future
2. Non disperdere nell' ambiente i materiali di imballaggio del prodotto e/o circuiti
3. Questo prodotto è stato progettato e costruito esclusivamente per l'utilizzo indicato in questa documentazione. Qualsiasi altro utilizzo non espressamente indicato potrebbe pregiudicare l'integrità del prodotto e/o rappresentare fonte di pericolo. L'uso improprio è anche causa di cessazione della garanzia. La SEA srl declina qualsiasi responsabilità derivata dall'uso improprio o diverso da quello per cui l'automatismo è destinato.
4. I prodotti SEA sono conformi alle Direttive: Macchine (2006/42/CE e successive modifiche), Bassa Tensione (2006/95/CE e successive modifiche), Compatibilità Elettromagnetica (2004/108/CE e successive modifiche). L'installazione deve essere effettuata nell'osservanza delle norme EN 12453 e EN 12445.
5. Non installare l'apparecchio in atmosfera esplosiva.
6. SEA srl non è responsabile dell'inosservanza della Buona Tecnica nella costruzione delle chiusure da motorizzare, nonché delle deformazioni che dovessero verificarsi durante l' uso.
7. Prima di effettuare qualsiasi intervento sull'impianto, togliere l'alimentazione elettrica e scollegare le batterie. Verificare che l'impianto di terra sia realizzato a regola d'arte e collegarvi le parti metalliche della chiusura.
8. Per ogni impianto SEA srl consiglia l'utilizzo di almeno una segnalazione luminosa nonché di un cartello di segnalazione fissato adeguatamente sulla struttura dell'infisso.
9. SEA srl declina ogni responsabilità ai fini della sicurezza e del buon funzionamento della automazione, in caso vengano utilizzati componenti di altri produttori.
10. Per la manutenzione utilizzare esclusivamente parti originali SEA.
11. Non eseguire alcuna modifica sui componenti dell'automazione.
12. L'installatore deve fornire tutte le informazioni relative al funzionamento manuale del sistema in caso di emergenza e consegnare all'Utente utilizzatore dell'impianto il libretto d'avvertenze allegato al prodotto.
13. Non permettere ai bambini o persone di sostare nelle vicinanze del prodotto durante il funzionamento. L'applicazione non può essere utilizzata da bambini, da persone con ridotte capacità fisiche, mentali, sensoriali o da persone prive di esperienza o del necessario addestramento. Tenere inoltre fuori dalla portata dei bambini radiocomandi o qualsiasi altro datore di impulso, per evitare che l'automazione possa essere azionata involontariamente.
14.. Il transito tra le ante deve avvenire solo a cancello completamente aperto.
15. Tutti gli interventi di manutenzione, riparazione o verifiche periodiche devono essere eseguiti da personale professionalmente qualificato. L'utente deve astenersi da qualsiasi tentativo di riparazione o d'intervento e deve rivolgersi esclusivamente a personale qualificato SEA. L'utente può eseguire solo la manovra manuale.
16. La lunghezza massima dei cavi di alimentazione fra centrale e motori non deve essere superiore a 10 m. Utilizzare cavi con sezione 2.5 mm^2. Utilizzare cablaggi con cavi in doppio isolamento (cavi con guaina) nelle immediate vicinanze dei morsetti specie per il cavo di alimentazione (230V). Inoltre è necessario mantenere adeguatamente lontani (almeno 2.5 mm in aria) i conduttori in bassa tensione (230V) dai conduttori in bassissima tensione di sicurezza (SELV) oppure utilizzare un'adeguata guaina che fornisca un isolamento supplementare avente uno spessore di almeno 1 mm.

English **GENERAL NOTICE FOR THE INSTALLER AND THE USER**

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 srl declines all liability caused by improper use or different use in respect to the intended one.
4. The mechanical parts must be comply with Directives: Machine Regulation 2006/42/CE and following adjustments), Low Tension (2006/95/CE), electromgnetic 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 srl 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 it metal parts of the lock.
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 srl declines all liability as concerns the automated system's security and efficiency, if components used, are not produced by SEA srl.
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 system's 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. 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 mm^2 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.

Français **CONSIGNES POUR L'INSTALLATEUR ET L'UTILISATEUR**

1. Lire attentivement les instructions avant d'installer le produit.Conserver les instructions en cas de besoin.
2. Ne pas dispenser dans l' environnement le materiel d' emballage du produit et/ou des circuits
4. Ce produit a été conçu et construit exclusivement pour l'usage indiqué dans cette fiche. Toute autre utilisation non expressément indiquée pourraient compromettre l'intégrité du produit et/ou représenter une source de danger. SEA srl décline toute responsabilités qui dériverait d'usage impropre ou différent de celui auquel l'automatisme est destiné.Une mauvaise utilisation cause la cessation de la garantie.
5. Les composants doivent répondre aux prescriptions des Normes: Machines (2006/42/CE et successifs changements); Basse Tension (2006/95/CE et successifs changements); EMC (2004/108/CE et successifs changements). L'installation doit être effectuée conformément aux Normes EN 12453 et EN 12445.
6. Ne pas installer l'appareil dans une atmosphère explosive.
7. SEA srl n'est pas responsable du non-respect de la Bonne Technique de construction des fermetures à motoriser, ni des déformations qui pourraient intervenir lors de l'utilisation.
8. Couper l'alimentation électrique et déconnecter la batterie avant toute intervention sur l'installation.Vérifier que la mise à terre est réalisée selon les règles de l'art et y connecter les pièces métalliques de la fermeture.
9. On recommande que toute installation soit doté au moins d'une signalisation lumineuse, d'un panneau de signalisation fixé, de manière appropriée, sur la structure de la fermeture.
10. SEA srl décline toute responsabilité quant à la sécurité et au bon fonctionnement de l'automatisme si les composants utilisés dans l'installation n'appartiennent pas à la production SEA.

11. Utiliser exclusivement, pour l'entretien, des pièces SEA originales.
12. Ne jamais modifier les composants d'automatisme.
13. L'installateur doit fournir toutes les informations relatives au fonctionnement manuel du système en cas d'urgence et remettre à l'Usager qui utilise l'installation les "Instructions pour l'Usager" fournies avec le produit.
14. Interdire aux enfants ou aux tiers de stationner près du produit durant le fonctionnement. Ne pas permettre aux enfants, aux personnes ayant des capacités physiques, mentales et sensorielles limitées ou dépourvues de l'expérience ou de la formation nécessaires d'utiliser l'application en question. Eloigner de la portée des enfants les radiocommandes ou tout autre générateur d'impulsions, pour éviter tout actionnement involontaire de l'automatisme.
15. Le transit entre les vantaux ne doit avoir lieu que lorsque le portail est complètement ouvert.
16. L'utilisateur doit s'abstenir de toute tentative de réparation ou d'intervention et doigt s'adresser uniquement et exclusivement au personnel qualifié SEA ou aux centres d'assistance SEA. L'utilisateur doigt garder la documentation de la réparation. L'utilisateur peut exécuter seulement la manoeuvre manuel.
17. La longueur maximum des câbles d'alimentation entre la carte et les moteurs ne devrait pas être supérieure à 10 m. Utilisez des câbles avec une section de 2,5 mm^2. Utilisez des câblage avec cable à double isolation (avec gaine) jusqu'à proximité immédiate des terminaux, en particulier pour le câble d'alimentation (230V). Il est également nécessaire de maintenir une distance suffisante (au moins 2,5 mm dans l'air), entre les conducteurs en basse tension (230V) et les conducteurs de très basse tension de sécurité (SELV) ou utiliser une gaine ayant une épaisseur d'au moin 1 mm, qui fournisse une isolation supplémentaire.

Español **ADVERTENCIAS GENERALES PARA INSTALADORES Y USUARIOS**
1 Leer las instrucciones de instalación antes de comenzar la instalación.Mantenga las instrucciones para consultas futura
2. No disperdiciar en el ambiente los materiales de embalaje del producto o del circuito
3. Este producto fue diseñado y construido exclusivamente para el uso especificado en esta documentación. Cualquier otro uso no expresamente indicado puede afectar la integridad del producto y ser una fuente de peligro. El uso inadecuado es también causa de anulación de la garantía. SEA srl se exime de toda responsabilidad causadas por uso inapropiado o diferente de aquel para el que el sistema automatizado fue producido.
4. Los productos cumplen con la Directiva: Maquinas (2006/42/CE y siguientes modificaciones), Baja Tension (2006/95/CE, y siguientes modificaciones), Compatibilidad Electromagnética (2004/108/CE modificada). La instalación debe ser llevada a cabo de conformidad a las normas EN 12453 y EN 12445.
5. No instalar el dispositivo en una atmósfera explosiva.
6. SEA srl no es responsable del incumplimiento de la mano de obra en la construcción de la cacela a automatizar y tampoco de las deformaciones que puedan producirse durante el uso.
7. Antes de realizar cualquier operación apagar la fuente de alimentación y desconectar las baterías. Comprobar que el sistema de puesta a tierra sea diseñado de una manera profesional y conectar las partes metálicas del cierre.
8. Para cada instalación se recomienda utilizar como mínimo una luz parpadeante y una señal de alarma conectada a la estructura del marco.
9. SEA srl no acepta responsabilidad por la seguridad y el buen funcionamiento de la automatización en caso de utilización de componentes no producidos por SEA.
10. Para el mantenimiento utilizar únicamente piezas originales SEA srl.
11. No modificar los componentes del sistema automatizado.
12. El instalador debe proporcionar toda la información relativa al funcionamiento manual del sistema en caso de emergencia y darle al usuario el folleto de adjunto al producto.
13. No permita que niños o adultos permanecen cerca del producto durante la la operación. La aplicación no puede ser utilizada por niños, personas con movilidad reducida de tipo fisico, mental, sensorial o igual por personas sin experiencia o formación necesaria. Tener los radiomandos fuera del alcance de niños asì como cualquier otro generador de impulsos radio para evitar que el automación pueda ser accionada accidentalmente.
14. El tránsito a través de las hojas sólo se permite cuando la puerta está completamente abierta.
15. Todo el mantenimiento, reparación o controles deberán ser realizados por personal cualificado. Evitar cualquier intente a reparar o ajustar. En caso de necesitad comunicarse con un personal SEA calificado. Sólo se puede realizar la operación manual.
16. La longitud máxima de los cables de alimentación entre motor y central no debe ser superior a 10 metros. Utilizar cables con 2,5 mm^2. Utilizar cables con doble aislamiento (cables con váina) hasta muy cerca de los bornes, especialmente por el cable de alimentación (230V). Además es necesario mantener adecuadamente distanciados (por lo menos 2,5 mm en aire) los conductores de baja tensión (230V) y los conductores de baja tensión de seguridad (SELV) o utilizar una váina adecuada que proporcione aislamiento adicional con un espesor mínimo de 1 mm.

Deutsch ***ALLGEMEINE HINWEISE UND VERPFLICHTUNGEN FÛR DIE SICHERHEIT***
1. Lesen Sie die Installationsanweisungen sorgfältig durch, bevor Sie mit der Installation beginnen.Diese Installationsanweisungen gut aufbewahren.
2. Das Ve
2.Verpackungsmaterial des produkts und/oder des schaitkreise umweltgerecht entosorgen
3. Dieses Produkt wurde speziell und ausschließlich für den, in den Unterlagen beschriebenen Zweck, geplant und hergestellt. Jede andere Verwendung, die nicht ausdrücklich angegeben wurde kann die Integrität des Produkts und/oder eine Gefahrenquelle darstellen. Die nicht fachgerechte Nutzung des Produkts bewirkt die Erlöschung der Garantie.SEA GmbH lehnt jegliche Haftung, für unsachgemäße oder andere Nutzung, als die wofür das Produkt bestimmt ist, ab.
4. SEA Produkte entsprechen den folgenden Richtlinien: Maschinenrichtlinie (2006/42/EG und nachträglich geänderten Fassungen), Niederspannungs-Richtlinie (2006/95/EG und nachträglich geänderten Fassungen), EMV (2004/108/EG und nachträglich geänderten Fassungen). Installation gemäß Standard EN12453 und EN12445 durchfûhren.
5. Installieren Sie das Gerät nicht in explosionsgefährdeten Bereichen, das Vorhandensein von brennbaren Gasen oder Dämpfen stellt ein ernstes Sicherheitsrisiko dar.
6. SEA GmbH ist nicht, für die Nichtbeachtung der Guten Technik bei der Herstellung von zu motorisierenden Toren und für deren eventuellen Verformungen, die während des Gebrauchs auftreten könnten, haftbar.
7. Vor allen Eingriffen, das Gerät ausschalten und die Batterien trennen. Sicherstellen, dass die Erdung fachgerecht hergestellt wurde und die Metallteile des Tores daran anschließen.
8. Für jede Anlage wird empfohlen, mindestens ein Blinklicht zu montieren und ein Warnschild auf der Rahmenstruktur anzubringen.
9. SEA GmbH übernimmt keine Haftung für Sicherheit und reibungslosen Betrieb der Automation, bei Verwendung von Komponenten, die nicht von der SEA Produktion stammen.
10. Für die Wartung nur SEA Originalteile verwenden.
11. Keinerlei Änderungen auf Komponenten der Automation vornehmen.
12. Der Installateur muss den Nutzer der Automation über den manuellen Betrieb des Systems im Notfall unterrichten und ihm, die, dem Produkt beiliegende, Broschüre übergeben.
13. Der Aufenthalt von Kinder oder Erwachsenen in der Nähe des Gerätes während des Betriebes ist zu untersagen. Die Anlage darf nicht von Kindern, Personen mit eingeschränkten körperlichen, geistigen oder sensorischen Fähigkeiten oder von Menschen ohne notewendige Erfahrung oder Ausbildung benutzt werden. Fernbedingungen oder andere Impulsgeber außerhalb der Reichweite von Kindern halten, um die versehentliche Aktivierung der Anlage zu verhindern.
14. Die Durchfahrt zwischen den Flügeln ist nur bei vollständig geöffnetem Tor zulässig.
15. Sämtliche Wartungs-, Reparaturarbeiten oder periodische Kontrollen, müssen von qualifiziertem Fachpersonal durchgeführt werden, und müssen dokumentiert und vom.
16. Die maximale Länge der Anschlussleitungen von der zentralen Motor und sollte nicht größer als 10 m. Die Verwendung von Kabeln mit 2,5 mm^2. Verwenden Sie Kabel mit Kabel mit Doppel-Isolierung (Kabelmantel) in die unmittelbare Nähe des Terminals, insbesondere die Befugnis (230V). Es ist auch notwendig, um einen ausreichenden Abstand (mindestens 2,5 mm zu halten in Luft), die Leiter in Niederspannung (230V) von der Leiter in Niederspannung Sicherheit (SELV) oder verwenden Sie eine geeignete Hülle, die zusätzliche Isolierung sorgt mit einer Dicke von 1 mm.

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CE

Dichiarazione di conformità
Declaration of Conformity

La SEA s.r.l. dichiara sotto la propria responsabilità e, se applicabile, del suo rappresentante autorizzato che il prodotto:
SEA srl declares under its proper responsability and, if applicable, under the responsability of its authorised representative that the product:

Descrizione / *Description*	**Modello / *Model***	**Marca / *Trademark***
Full Tank 270 AC (e tutti i suoi derivati)	10601005	SEA
Full Tank 270 AC (and all its by-products)	*10601005*	*SEA*
Full Tank 390 AC (e tutti i suoi derivati)	10701010	SEA
Full Tank 390 AC (and all its by-products)	*10701010*	*SEA*

è costruito per essere incorporato in una macchina o per essere assemblato con altri macchinari per costruire una macchina ai sensi della Direttiva 2006/42/CE:
is 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:

è conforme ai requisiti essenziali di sicurezza relativi al prodotto entro il campo di applicabilità delle Direttive Comunitarie 2006/95/CE e 2004/108/CE.
it is conforming to the essential safety requirements related to the product within the field of applicability of the Community Directives 2006/95/CE and 2004/108/CE.

COSTRUTTORE o RAPPRESENTANTE AUTORIZZATO:
MANUFACTURER or AUTHORISED REPRESENTATIVE:

SEA S.r.l.
DIREZIONE E STABILIMENTO:
Zona industriale 64020 S.ATTO Teramo - (ITALY)
Tel. 0861 588341 r.a. Fax 0861 588344
Http://www.seateam.com

I test sul prodotto sono stati effettuati in configurazione standard e in riferimento alle norme specifiche per la sua classe d'utilizzo.
The products have been tested in standard configuration and with reference to the special norms concerning the classe of use.

(Luogo, data di emissione)
(Place, date of issue)
Teramo, 14/09/2010

L'Amministratore
The Administrator
Ennio Di Saverio

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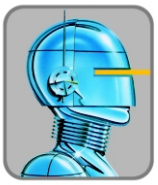
CE

Note - Notes - Note - Notas - Anmerkung

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Note - Notes - Note - Notas - Anmerkung



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electronic opening system

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 articulo ha sido producido siguiendo rigidos procedimientos de elaboracion y ha sido probando singolarmente a fin de garantizar los mas altos inveles 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.

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