



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

Italiano

ATTUATORE OLEODINAMICO PER CANCELLI A BATTENTE

HALF TANK



MANUALE D'INSTALLAZIONE ed informazioni sulla sicurezza

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

CARATTERISTICHE E SPECIFICHE

Il prodotto **HALF TANK 100** e **HALF TANK 200** è un attuatore oleodinamico di grande qualità per uso condominiale per cancelli con ante di lunghezza max rispettivamente 6 m. e 7 m. con l'elettroserratura.

Disponibile nelle seguenti versioni:

AC (con blocco in apertura e chiusura)

SC (con blocco solo in chiusura)

SA (con blocco solo in apertura)

SB (senza blocco)

Il blocco viene garantito sulle ante con una lunghezza inferiore a 1,80 m. per l'Half Tank 100 mentre viene garantito fino a 2,20 m. per l'Half Tank 200. Per ante con lunghezza superiore rispettivamente a 1,80 m. e 2,20 m. è consigliato, in tutte le versioni, l'uso di una elettro-serratura.

Il Prodotto Half Tank 100 e 200 sono forniti di valvole by-pass per la regolazione della forza sia in apertura che in chiusura. Il rallentamento è regolabile elettronicamente in apertura e chiusura con la centralina GATE 2. Per le norme e direttive vigenti oggi in Europa è fortemente consigliato l'uso del Safety Gate (dispositivo per la lettura della posizione del cancello), necessario per permettere l'inversione dell'anta in caso di ostacolo.

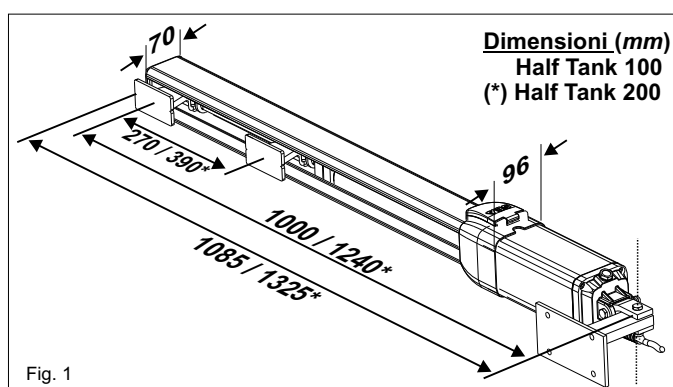
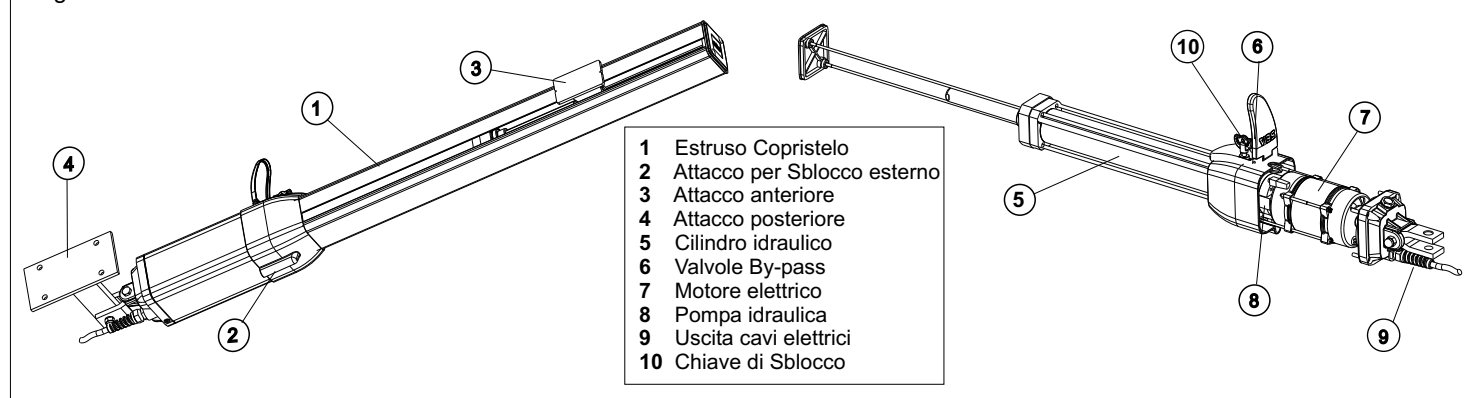
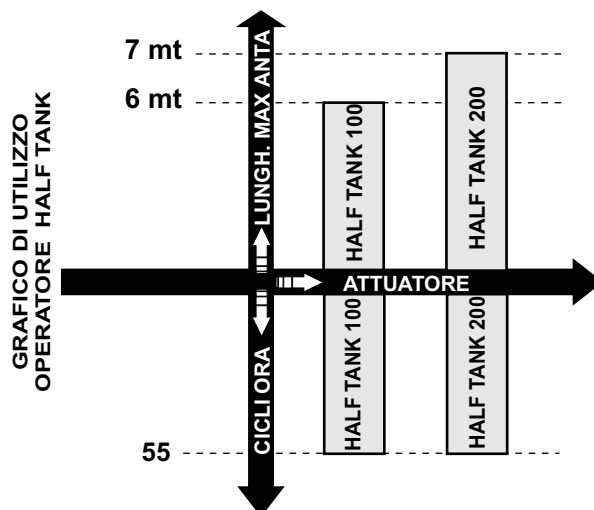


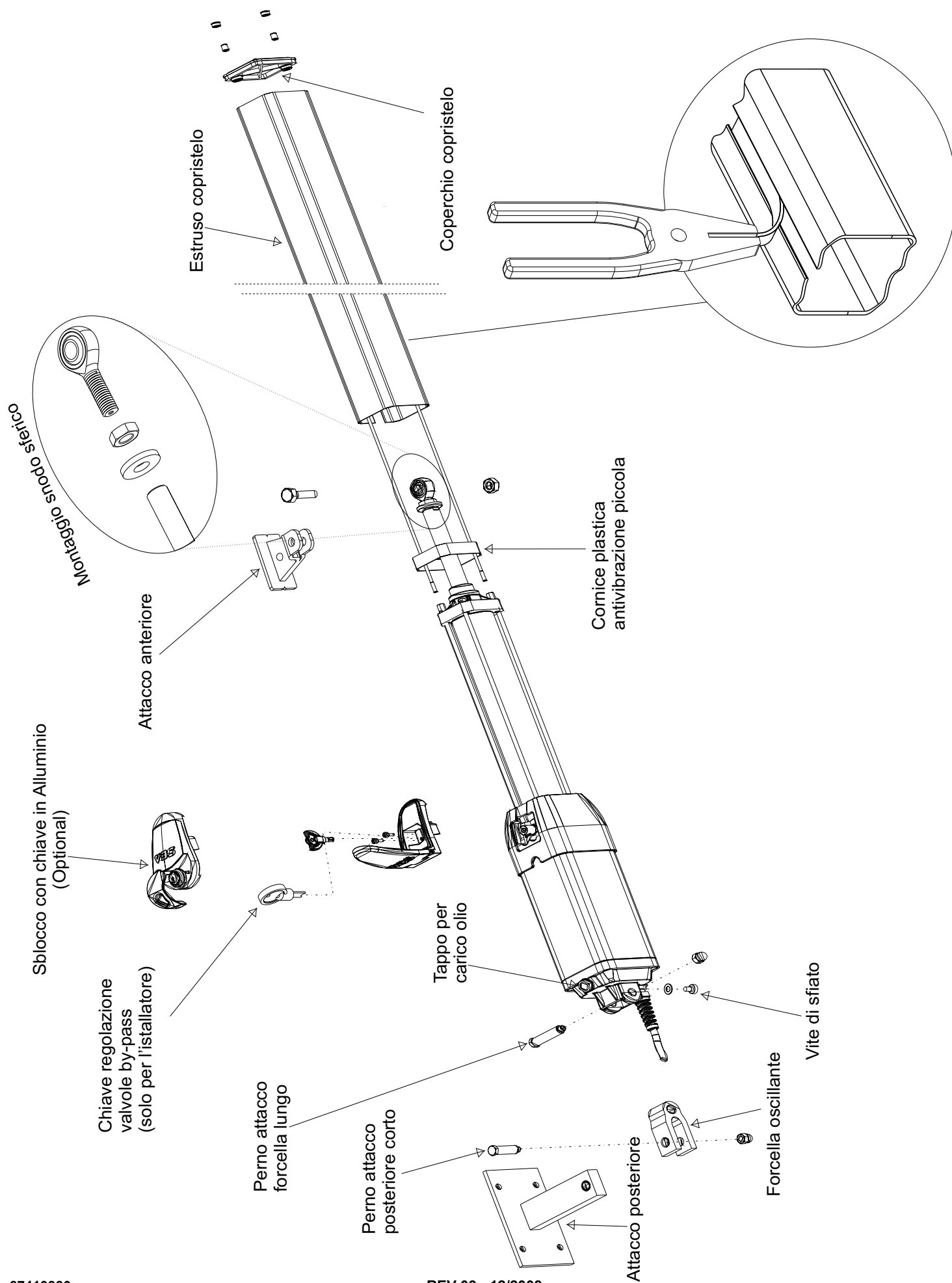
Fig. 1

Fig. 2

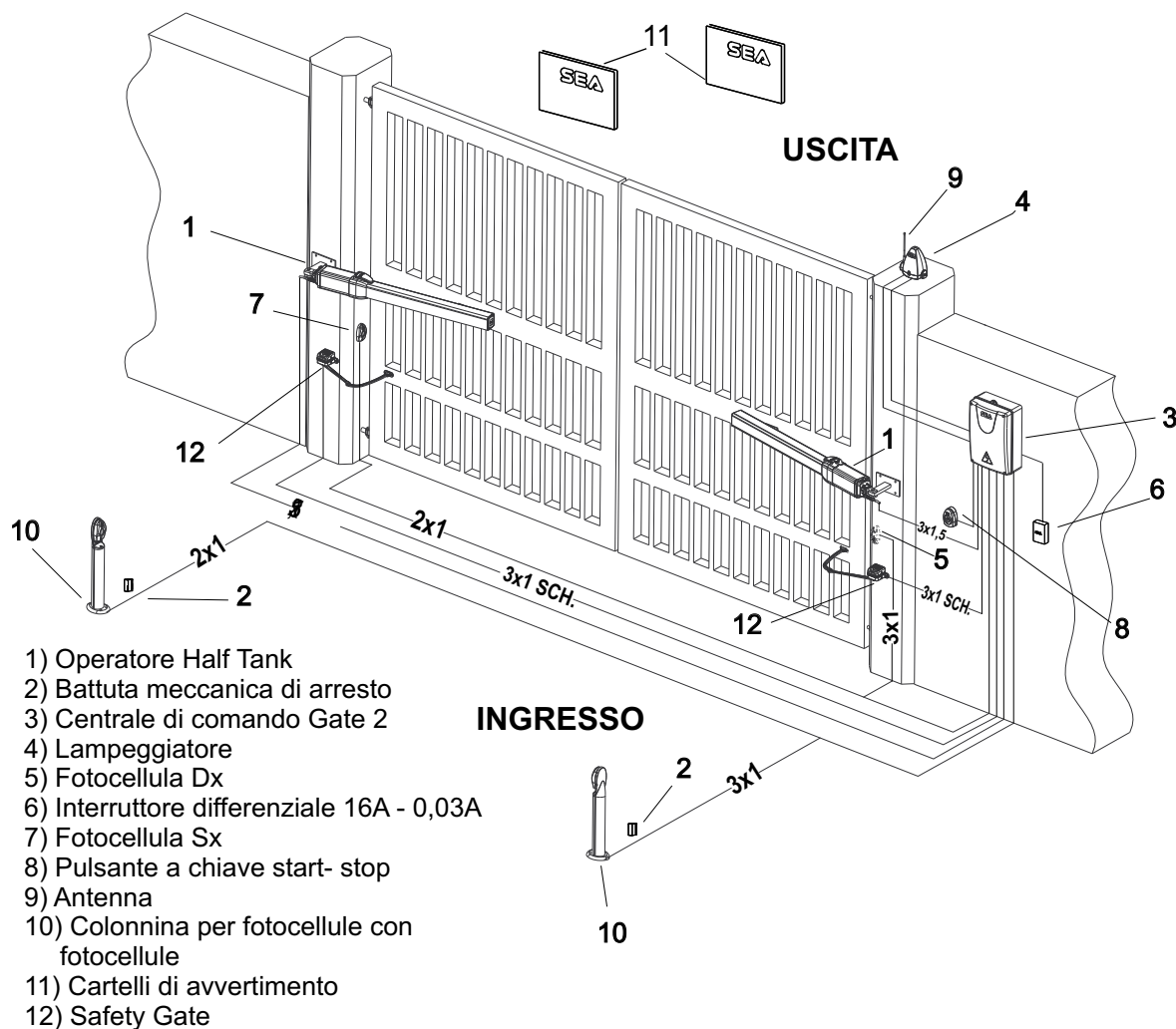


CARATTERISTICHE TECNICHE	HALF TANK 100	HALF TANK 200
Alimentazione	230 V (±5%) 50/60 Hz	
Potenza	220 W	
Corrente assorbita	1 A	
Corsa dello stelo	270 mm	390 mm
Cicli/ora (temp. di 20°C)	55	
Max pressione di lavoro	40 bar	30 bar
Temperatura di lavoro	-40°C +60°C	
Termo-protezione motore	130°C	
Max Spinta	640 daN	470 da N
Condensatore	12,5uF	
Peso	11,4 Kg	13,6 Kg
Grado di protezione	Ip55	
Lunghezza max. dell'anta	6 mt	7 mt
Gradi di apertura anta	90° - 125°	



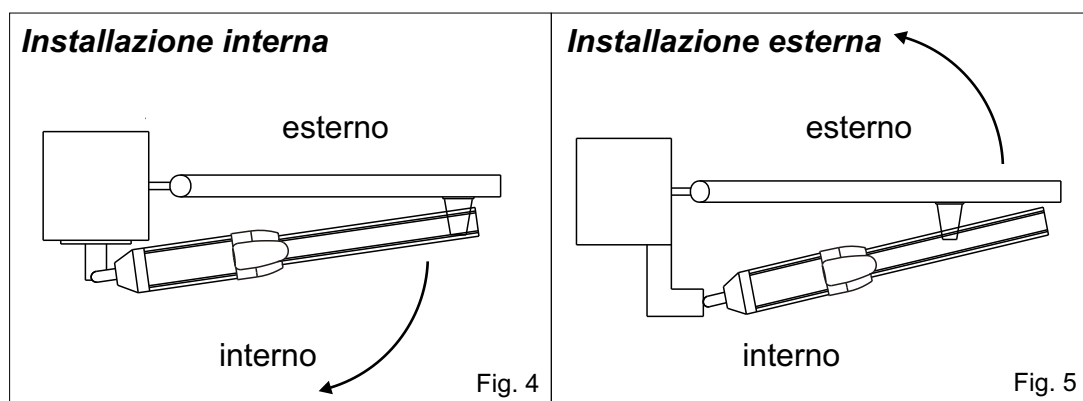


INSTALLAZIONE TIPICA



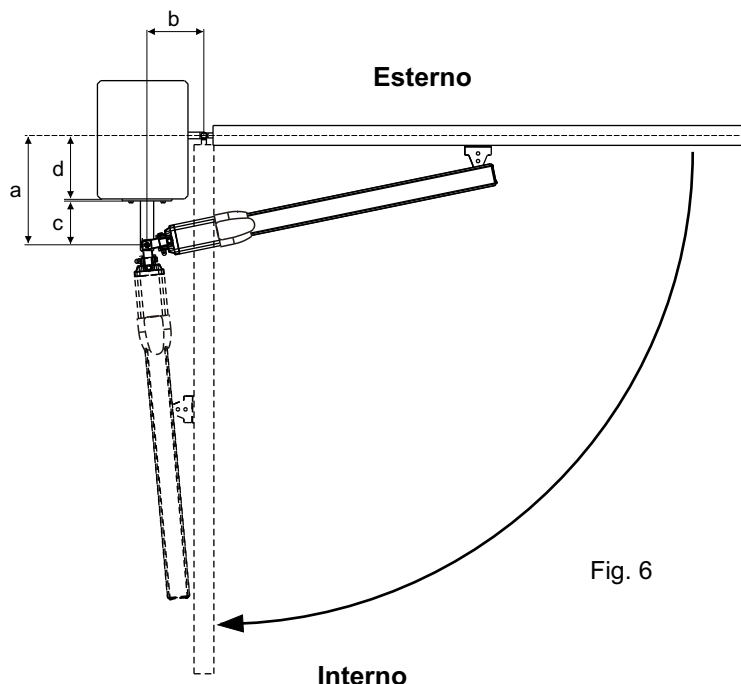
TIPO DI INSTALLAZIONE

E' possibile installare il Half Tank con l'apertura verso l'interno (Fig. 14) o verso l'esterno (Fig. 15).



Installare l'operatore
sempre all'interno della
proprietà

INSTALLAZIONE INTERNA

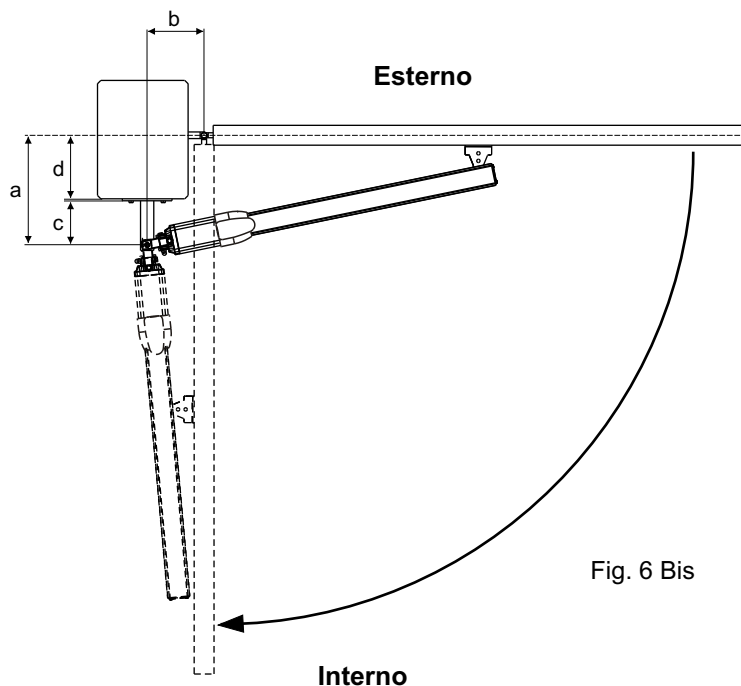


Corsa totale 270 mm - corsa max suggerita 250 mm

a (mm)	b (mm)	d _{max} (mm)	Massimo Angolo di apertura	Corsa stelo max (mm)	Corsa stelo per 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	

Per ottenere 110° con d > 55 mm bisogna fare una nicchia nel cancello.

INSTALLAZIONE INTERNA



Corsa totale 390 mm - corsa max suggerita 370 mm

a (mm)	b (mm)	d _{max} (mm)	Massimo Angolo di apertura	Corsa stelo max (mm)	Corsa stelo per 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	

Per ottenere 125° con d > 55 mm bisogna fare una nicchia nel cancello.

INSTALLAZIONE ESTERNA

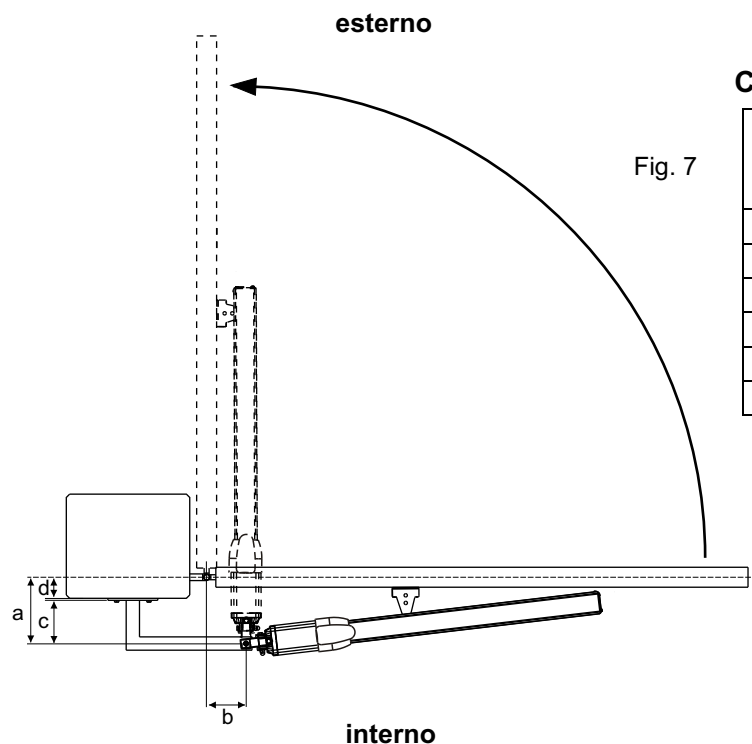


Fig. 7

Corsa totale 270 mm - corsa max suggerita 250 mm

a (mm)	b (mm)	Massimo Angolo di apertura	Corsa stelo max (mm)	Corsa stelo per 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	

INSTALLAZIONE ESTERNA

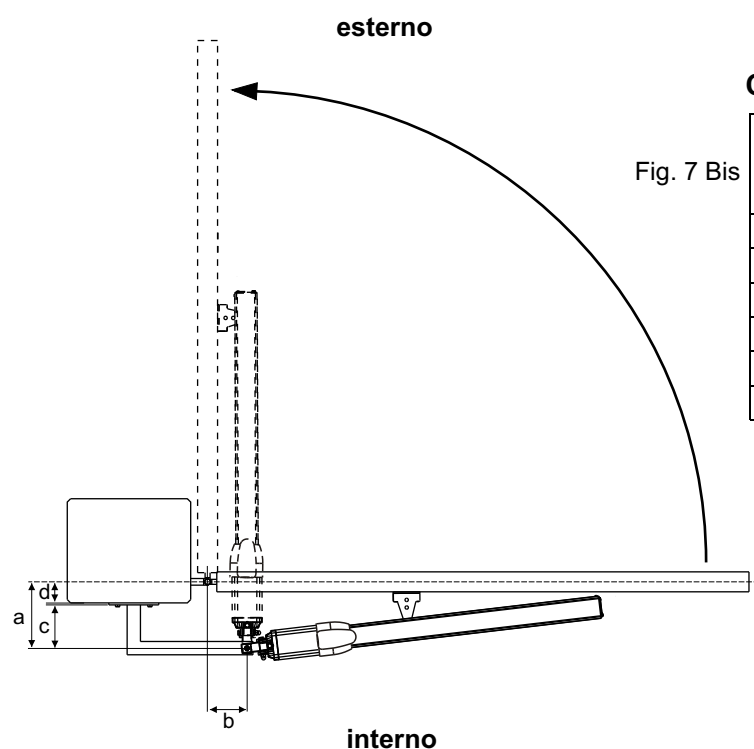


Fig. 7 Bis

Corsa totale 390 mm - corsa max suggerita 370 mm

a (mm)	b (mm)	Massimo Angolo di apertura	Corsa stelo max (mm)	Corsa stelo per 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	

INSTALLAZIONE FORCELLA OSCILLANTE

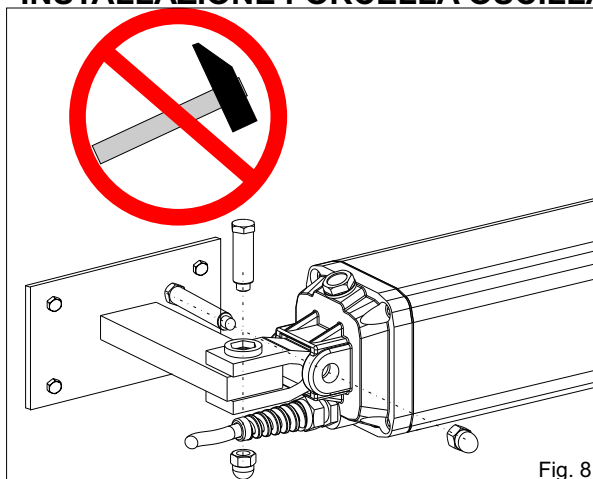


Fig. 8

PRELIMINARI

- Aprire con cura l'imballo, facendo attenzione a non perdere dei componenti riportati a fig.3
- Fissare la forcella oscillante come in fig.9

Attenzione: non utilizzare il martello per l'inserimento del perno di ottone corto; l'inserimento del perno sulla forcella e staffa deve avvenire con la semplice pressione delle mani

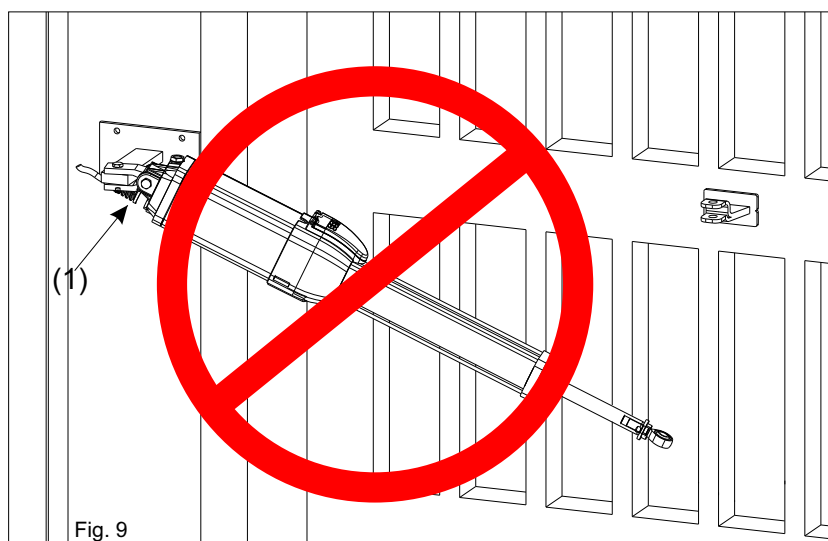


Fig. 9

Attenzione:

Non inclinare l'operatore oleodinamico oltre l'angolazione permessa dalla forcella oscillante (1), pena la possibile rottura della stessa.

INSTALLAZIONE ATTACCO POSTERIORE

In base alla scelta del tipo di apertura (interna o esterna) e in base scelta della rotazione massima dell'anta (vedi pag. 5), la staffa deve essere prima tagliata rispettando la quota "a" di pag.5 e poi saldata come in fig.10.

Il supporto deve essere posizionato in modo che l'operatore risulti perfettamente orizzontale (Fig. 10 ,Fig.12).

Attacco posteriore regolabile (con viti)
(Accessorio su richiesta)

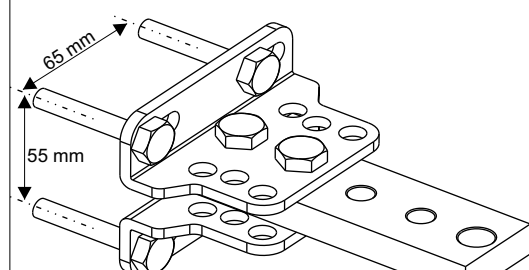


Fig. 11

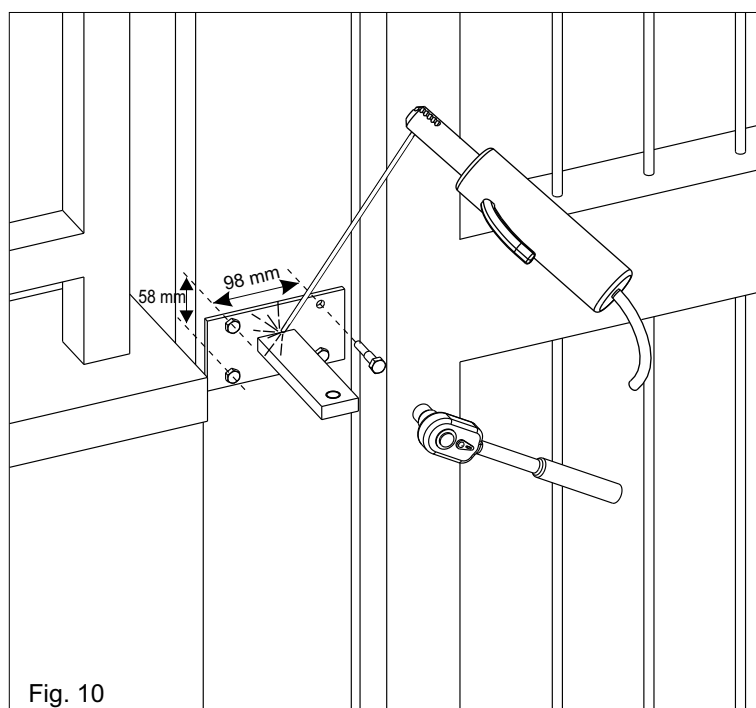


Fig. 10

POSIZIONAMENTO DELL'ATTACCO ANTERIORE

Una volta fissato l'operatore sull'attacco posteriore portare l'anta del cancello in posizione di chiusura ed eseguire le seguenti operazioni:

- 1) Sbloccare l'operatore (come in Fig. 23 di pag. 11)
- 2) Tirare fuori completamente lo Stelo cromato, **poi riportarlo indietro di minimo 1 cm**
- 3) Fissare lo stelo sul attacco anteriore (Fig. 13)
- 4) Posizionare l'operatore in modo che risulti perfettamente orizzontale e quindi segnare la posizione dell'attacco anteriore (Fig. 12)

Attenzione: evitare di saldare l'attacco anteriore con lo stelo dell'operatore oleodinamico già fissato; i residui (schizzi) di saldatura potrebbero compromettere la cromatura dello stelo.

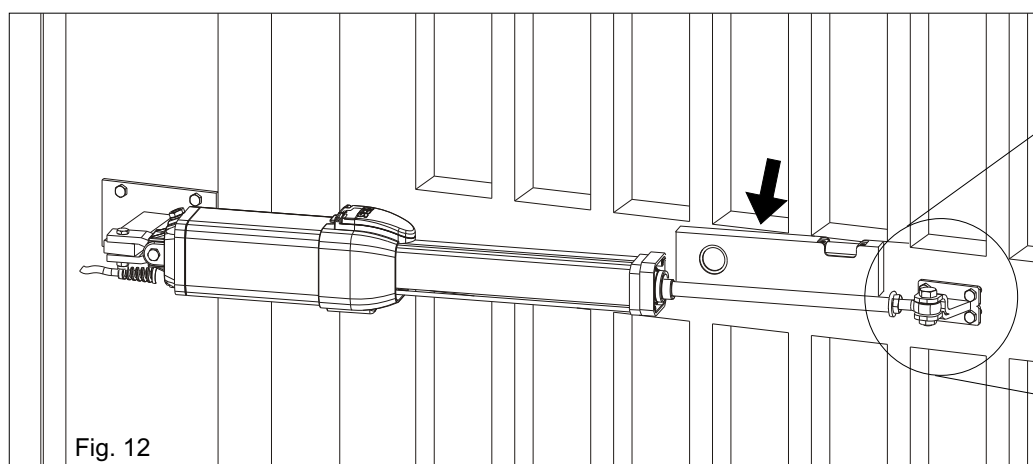


Fig. 12

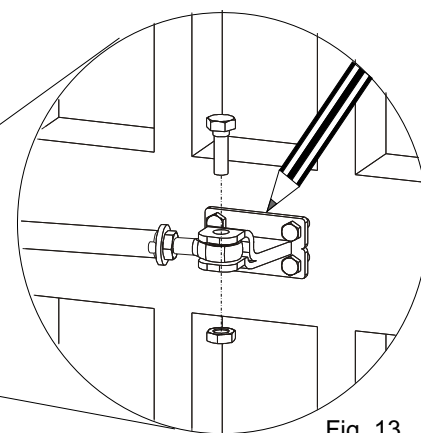


Fig. 13

SALDATURA DELL'ATTACCO ANTERIORE AL CANCELLO

L'attacco anteriore deve essere posizionato in maniera tale che l'operatore risulti perfettamente orizzontale.

L'attacco anteriore in base alla natura del cancello (legno, ferro, alluminio) può essere sia saldato che avvitato.

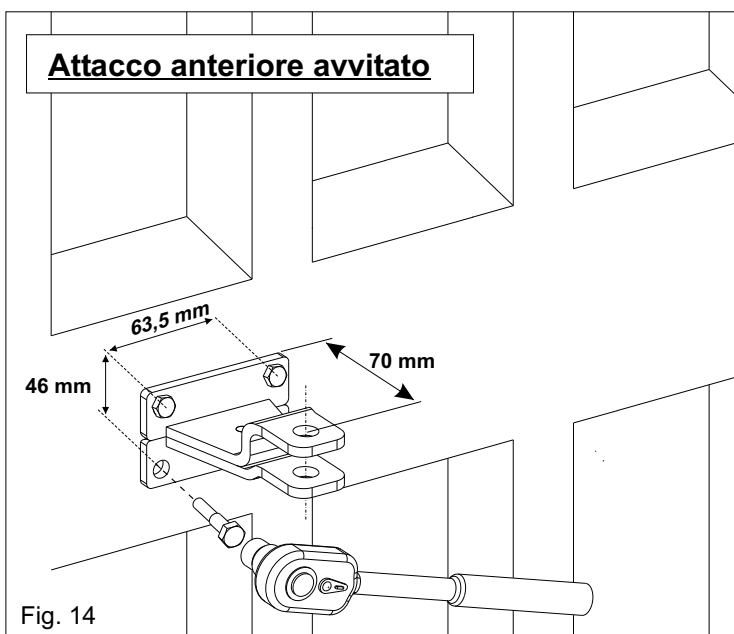


Fig. 14

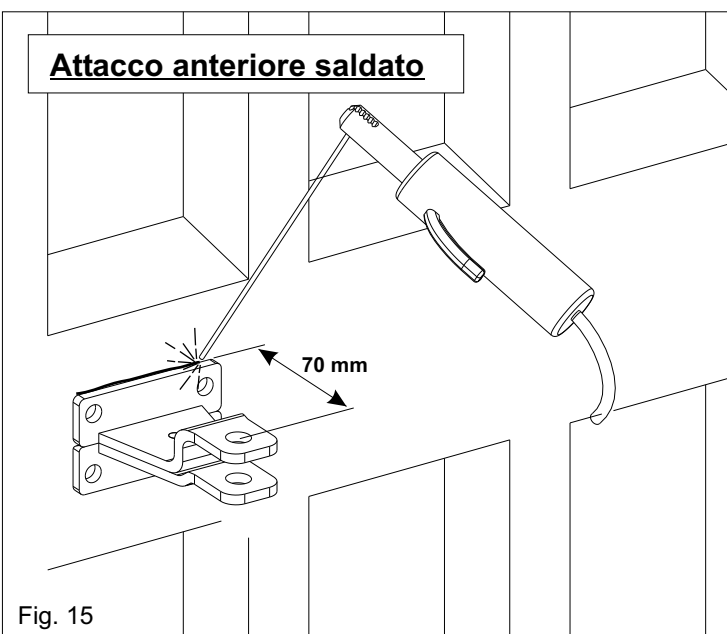


Fig. 15

INSTALLAZIONE DELLE BATTUTE FINE CORSA (Accessorio a richiesta)

- Sbloccare l'unità (come in Fig. 23 di pagina 10)
- Fare fuoriuscire stelo di 3/4 della sua corsa
- Mettere le battute di fine corsa sulla flangia anteriore dell'unità con i due tiranti (dei tre in totale presenti sulla battuta) che stanno in parallelo al cancello (Fig. 16)
- Fissare le battute con le viti incluse nella confezione.
- a questo punto agganciare lo stelo all'attacco anteriore
- Per regolare la battuta in apertura agire su disco 1, ed in chiusura su disco 2.

Attenzione : il montaggio della battuta meccanica non comporta una diminuzione della corsa dello stelo

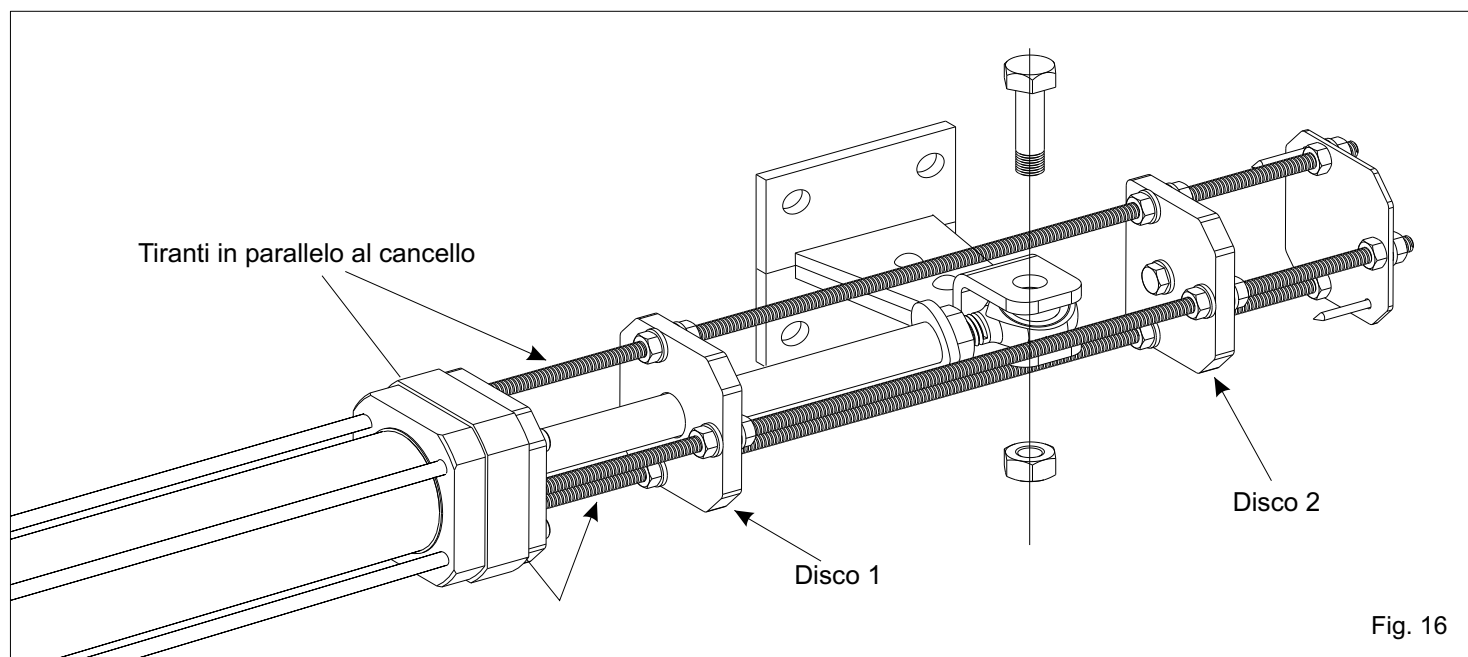


Fig. 16

VITE DI SFIATO

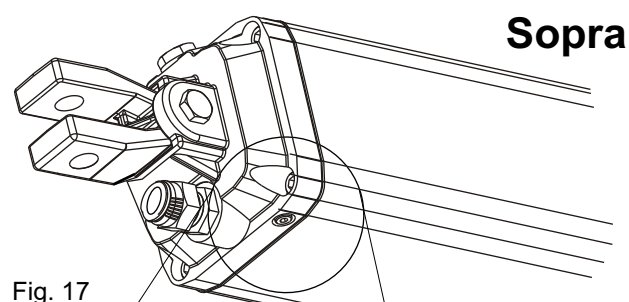


Fig. 17

Sopra

ATTENZIONE



E' obbligatorio togliere le viti di sfiato ad installazione terminata.

Sotto



Svitare e togliere alla fine dell'installazione

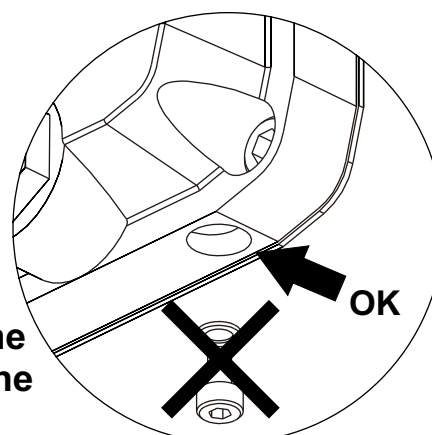


Fig. 18

INSTALLAZIONE DELLA PROTEZIONE DELLO STELO CROMATO

Verificare di aver inserito la cornice in plastica antivibrazione (A) prima d'inserire l'estruso copristelo (Fig. 19)

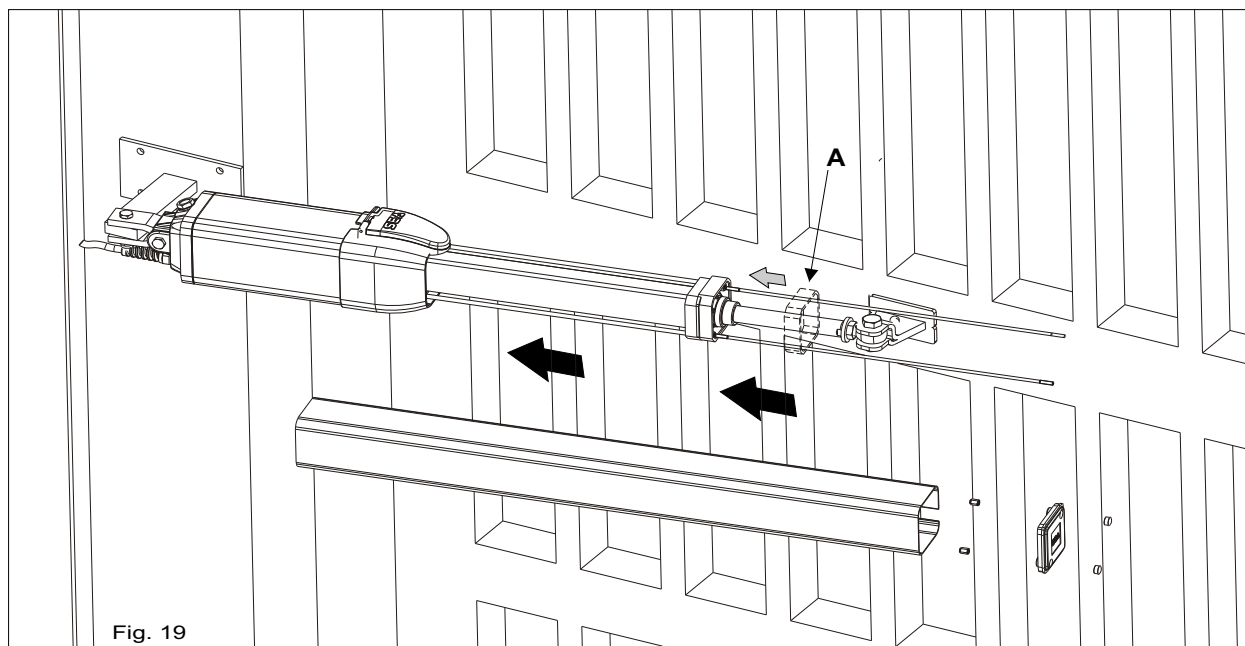


Fig. 19

REGOLAZIONE COPPIA (By-Pass Valvole)

In caso di prima installazione il coperchio dello sblocco non deve ancora essere inserito così come il copri by-pass. In questo caso fare riferimento alle fig. 20 e fig.22

In caso di regolazione valvole by-pass, eseguita in un secondo momento, a causa, ad esempio di manutenzione periodica o altro togliere la vite che blocca il copri by-pass (fig. 21), togliere il copri by-pass e regolare quindi la pressione delle valvole by-pass con l'apposita chiave data in dotazione solo all'installatore (Fig. 22).

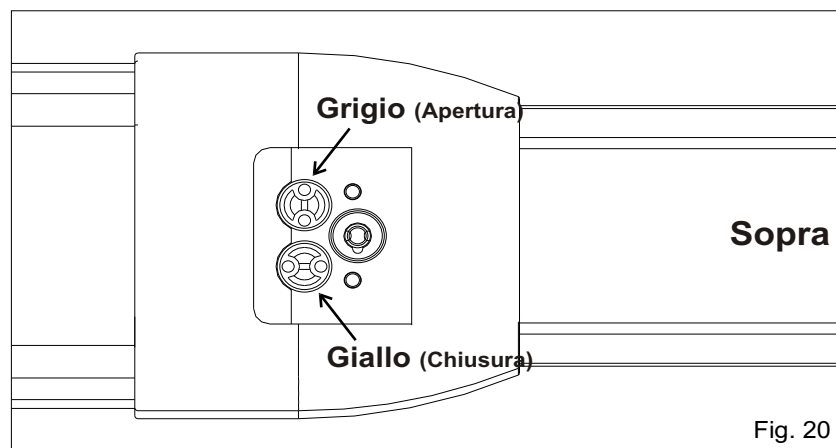


Fig. 20

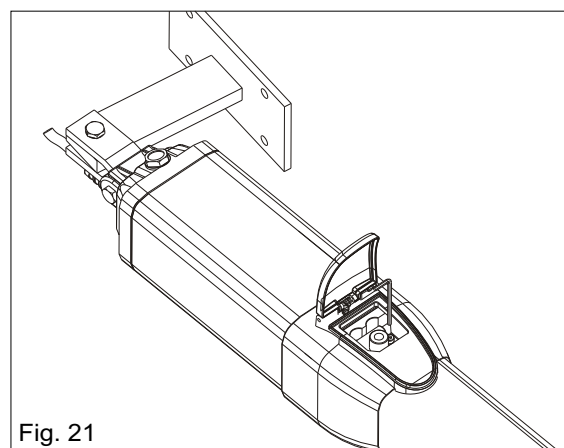
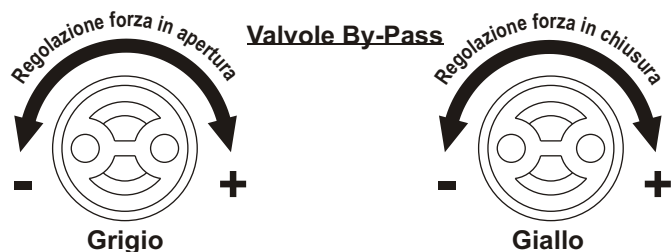


Fig. 21



Regolare la forza del cancello in apertura e in chiusura in modo da rispettare il diagramma delle forze (presente nella norma En12453); la forza di spinta comunque non deve mai essere superiore ai 15KgF.

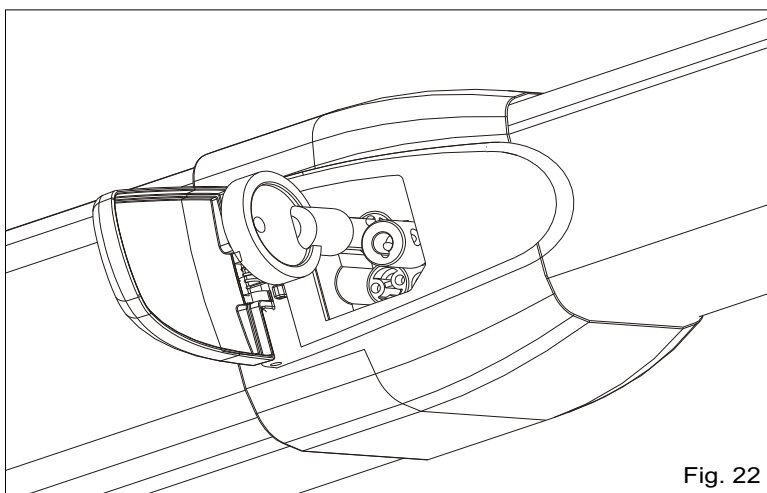


Fig. 22

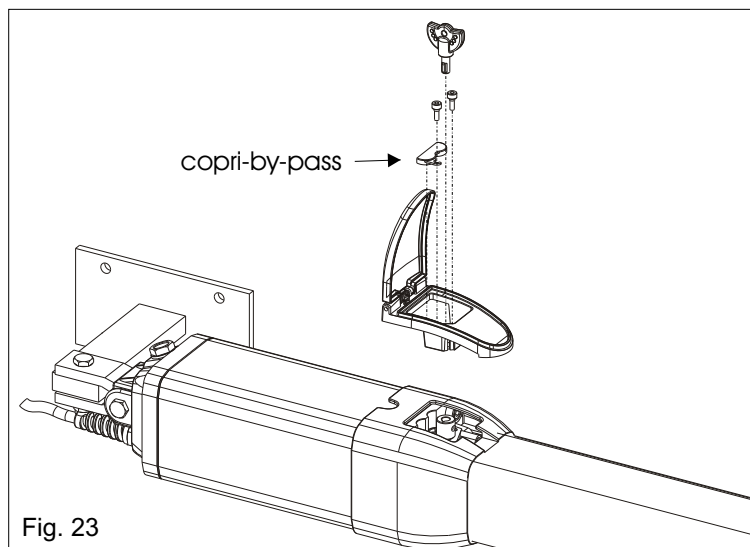


Fig. 23

MONTAGGIO SBLOCCO IN PLASTICA

ATTENZIONE: Il montaggio dello sblocco in plastica deve avvenire nel modo indicato in figura 23 **solo e soltanto dopo aver terminato tutte le operazioni di installazione montaggio del copristelo e di taratura delle valvole bypass.**

MONTAGGIO SBLOCCO IN ALLUMINIO CON CHIAVE (accessorio su richiesta)

ATTENZIONE: Il montaggio dello sblocco in alluminio deve avvenire nel modo indicato in figura 24 solo e soltanto dopo aver terminato tutte le operazioni di installazione montaggio del copristelo e di taratura delle valvole by-pass.

La chiave di sblocco viene custodita all'interno del coperchio dello sblocco in alluminio (vedi fig. 25)

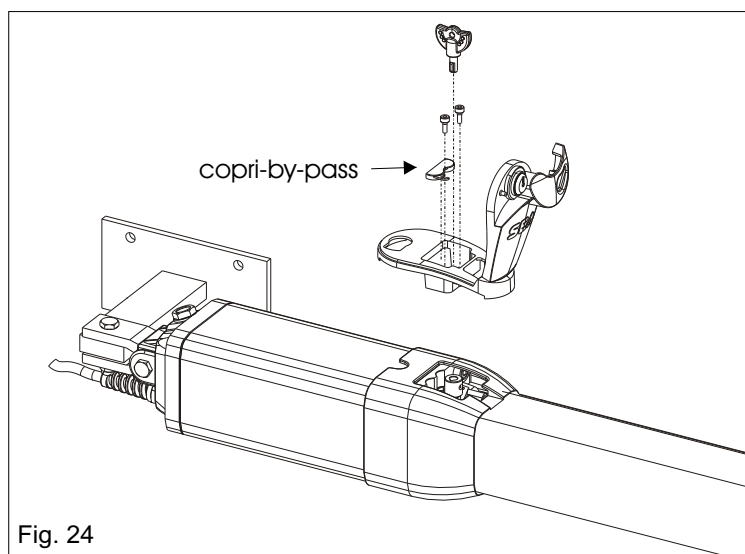


Fig. 24

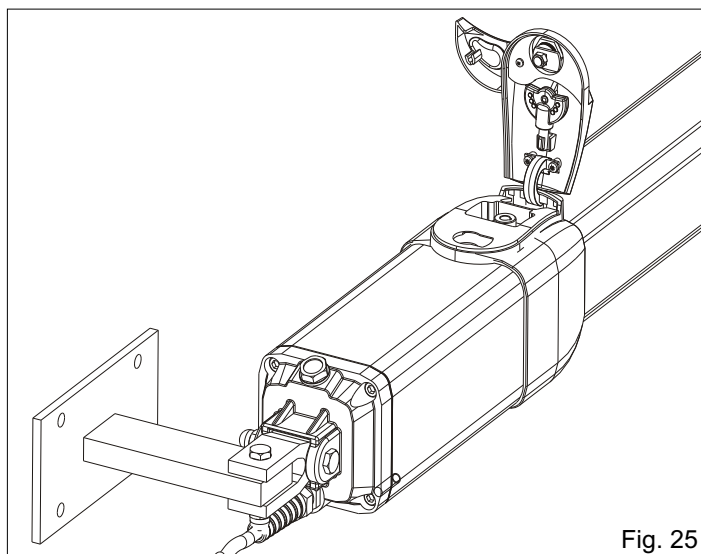


Fig. 25

MONTAGGIO SBLOCCO ESTERNO (accessorio su richiesta)

ATTENZIONE: Il montaggio dello sblocco esterno deve avvenire nel modo indicato nelle figure 26 e 27. Per maggiori dettagli fare riferimento all'istruzione di montaggio presente nel Kit di montaggio sblocco esterno per Half Tank.

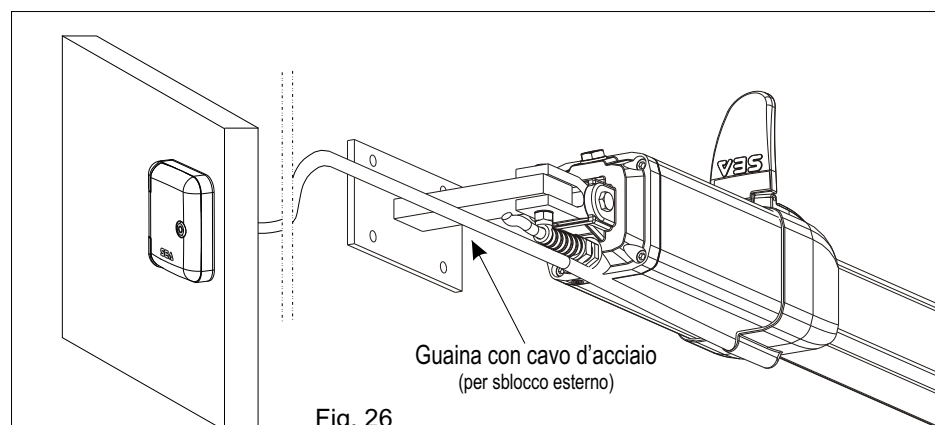


Fig. 26

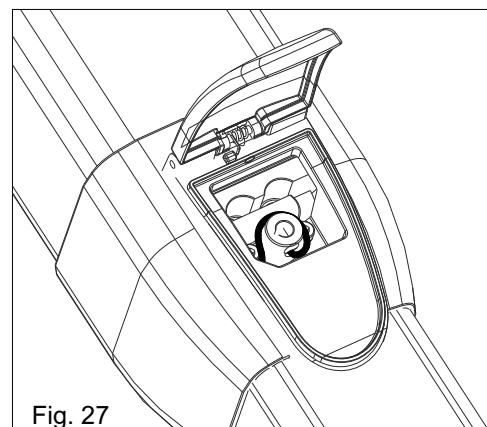


Fig. 27

SISTEMA DI SBLOCCO

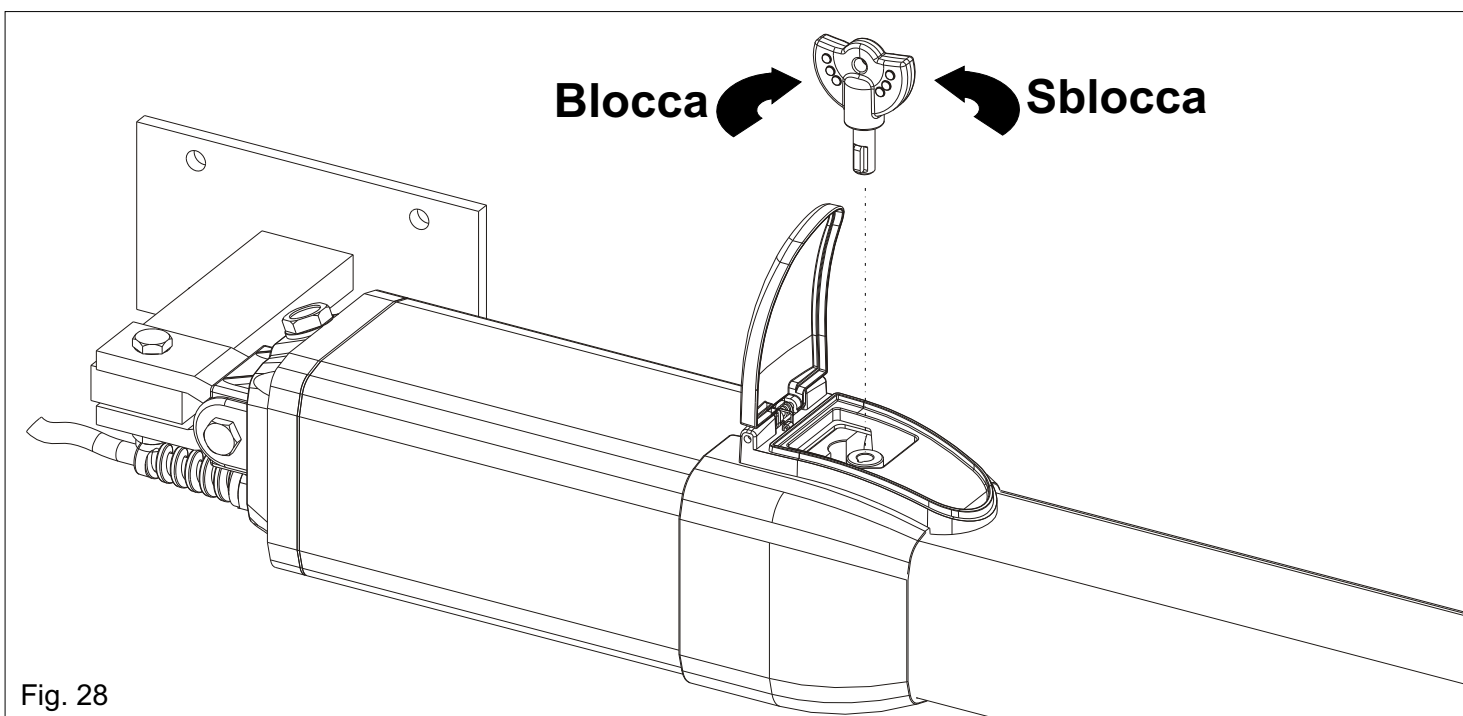
Per sbloccare operare come segue:

-Inserire la chiavetta e ruotarla in senso antiorario di 180 gradi (Fig.28).

Per bloccare nuovamente l'Attuatore operare come segue:

-Inserire la chiavetta e ruotarla in senso orario fino alla chiusura (Fig.28).

Attenzione: effettuare lo sblocco sempre in assenza di alimentazione



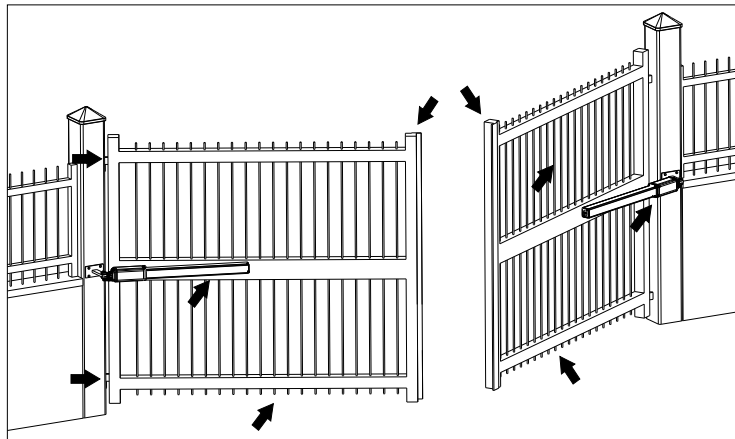
MANUTENZIONE PERIODICA

1) Controllare la robustezza e la stabilità del cancello, in particolar modo i punti di appoggio e/o rotazione del cancello (cardini).	Annuale
2) Controllare il livello dell'olio negli operatori oleodinamici/in bagno d'olio (Tappo posizionato sul coperchio posteriore dell'Half Tank)	Annuale
3) Sostituire l'olio idraulico con l'olio raccomandato dalla casa madre	4 Anni
4) Controllare la funzionalità dello sblocco	Annuale
5) Controllare la funzionalità delle valvole by-pass	Annuale
6) Controllare ed ingrassare i perni di fissaggio	Annuale
7) Controllare l'integrità dei cavi di collegamento	Annuale
8) Controllare la funzionalità e le condizioni delle battute di fine corsa in apertura e chiusura (ove è presente l'accessorio Battuta meccanica	Annuale
9) Controllare il buono stato di tutti gli apparati che sono soggetti a sforzo (attacco posteriore, forcella oscillante e attacco anteriore.)	Annuale
10) Controllare l'operatività di tutti gli accessori, in particolar modo la funzionalità di tutti i dispositivi di sicurezza e del Safety Gate.	Annuale
11) Dopo aver eseguito le operazioni di Manutenzione Periodica è necessario ripetere il collaudo e la messa in servizio dell'automazione	Annuale

Tutte le operazioni di cui sopra devono essere effettuate esclusivamente da un installatore autorizzato

ESAME DEI RISCHI

I punti indicati con le freccette in fig. 38 sono potenzialmente pericolosi. L'installatore deve effettuare un'esame approfondito dei rischi per prevenire: schiacciamenti, trascinamenti, tagli, agganciamenti, intrappolamenti e garantire un'installazione sicura per uomini, animali e cose.



In caso di malintesi che potrebbero sorgere, si consiglia di consultare il distributore di zona oppure di chiamarci. Queste istruzioni sono parte integrale del dispositivo e devono essere conservate in un posto ben conosciuto. L'installatore deve attenersi rigorosamente alle istruzioni. I prodotti della SEA s.r.l. devono essere usati esclusivamente per l'automazione di porte, cancelli ed ante. Qualsiasi iniziativa presa senza esplicita autorizzazione della SEA s.r.l. distoglie quest'ultima da qualsiasi responsabilit . L'installatore deve fornire note d'avvertimento per ulteriori rischi non valutabili. La SEA s.r.l. nel suo continuo scopo di migliorare i prodotti, ha diritto di effettuare qualsiasi

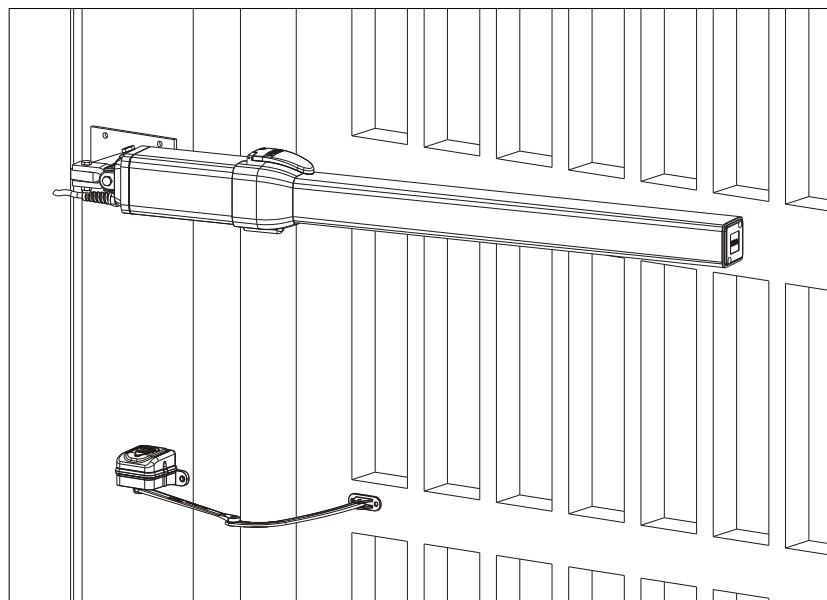
modifica senza obbligo di avvisare i propri clienti. Cio' non obbliga la Sea s.r.l. di migliorare la produzione passata. La SEA srl non puo' essere ritenuta responsabile per qualsiasi danno o incidente causato da prodotti rotti, se si tratta di danni o incidenti dovuti alla non osservanza di quanto riportato nelle presenti istruzioni. La garanzia non   valida e la responsabilit  del manufattore si annulla se sono stati usati pezzi di ricambio non originali della SEA srl. L'installazione elettrica deve essere effettuata da un tecnico professionista che rilascerà la relativa documentazione, come richiesto dalle leggi in vigore. Tenere lontano dalla portata dei bambini il materiale d'imballo come buste di plastica, polistirolo, chiodi etc., essendo potenziali fonti di pericolo.

COLLAUDO INIZIALE E MESSA IN SERVIZIO

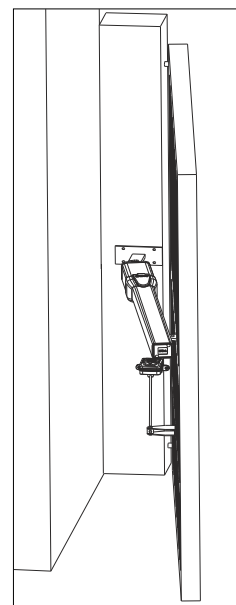
Dopo aver completato le operazioni necessarie, per una corretta installazione del prodotto HALFTANK, descritte nel presente manuale e aver valutato tutti i rischi residui che possono insorgere in qualsiasi installazione, **  necessario collaudare l'automazione per garantire la massima sicurezza** ed in particolare garantire il rispetto di quanto previsto dalle leggi e dalle norme del settore. In particolare il collaudo deve essere eseguito seguendo la **norma EN12445** che stabilisce i metodi di prova per la verifica degli automatismi per cancelli nel rispetto dei limiti imposti dalla **norma EN 12453**.

SAFETY GATE

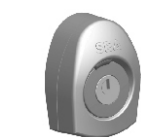
Per una corretta e sicura installazione   fortemente consigliato l'installazione del Safety Gate, che **permette il soddisfacimento del diagramma delle forze presente nella norma EN 12453** e quindi del collaudo e della messa in servizio di tutta l'installazione.



NOTA: in caso di installazione come in figura a destra   possibile utilizzare il Safety Gate con asticella dritta (risolvendo cos  il problema dell'ingombro del braccetto (grafico a sinistra))



ACCESSORI PER HALF TANK



PULSANTE A CHIAVE



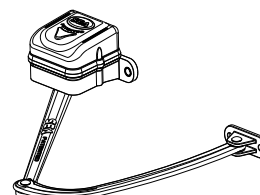
FOTOCELLULE



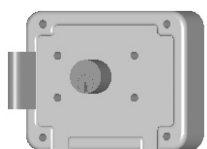
RICEVENTE RADIO



RADIOCOMANDO



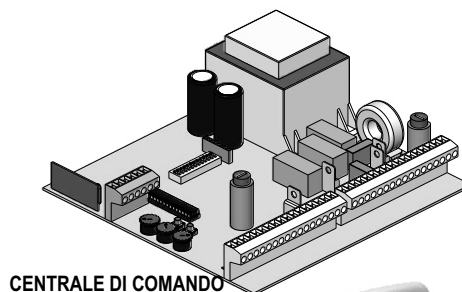
SAFETY GATE



ELETTROSERRATURA



LETTORE
DI SPIRA
MAGNETICA
ESTERNO



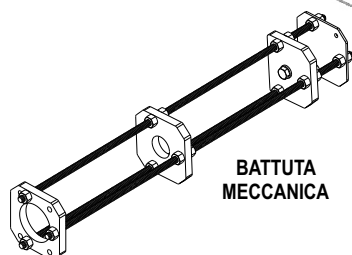
CENTRALE DI COMANDO
GATE 2



LAMPEGGIATORE



COLONNINA
PER FOTOCELLULE



BATTUTA
MECCANICA



KIT SBLOCCO ESTERNO

DICHIARAZIONE DI CONFORMITÀ

La SEA dichiara sotto la propria responsabilità che il prodotto

Half Tank in tutte le sue versioni

risponde ai requisiti essenziali previsti dalle seguenti direttive europee e successive modifiche (laddove applicabili):

98/37/CE (Direttiva Macchine)

89/336/CEE (Direttiva Compatibilità Elettromagnetica)

73/23/CEE (Direttiva Bassa Tensione)

AVVERTENZE :

L'installazione elettrica e la scelta della logica di funzionamento devono essere in accordo con le normative vigenti. Prevedere in ogni caso un interruttore differenziale da 16A e soglia 0,030A. Tenere separati i cavi di potenza (motori, alimentazioni) da quelli di comando (pulsanti, fotocellule, radio ecc.). Per evitare interferenze è preferibile prevedere ed utilizzare due guaine separate.

DESTINAZIONE D'USO:

Il Prodotto Half Tank in tutte le sue versioni è stato progettato per essere utilizzato unicamente per l'automazione di cancelli a battente.

RICAMBI:

Le richieste per parti di ricambio devono pervenire presso:

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

SICUREZZA E COMPATIBILITÀ AMBIENTALE:

Non disperdere nell'ambiente i materiali di imballaggio del prodotto e/o circuiti.

La movimentazione del prodotto deve essere eseguita con mezzi idonei.

GARANZIA

La garanzia del prodotto HALF TANK è di 36 mesi dalla data stampata sul prodotto. Quest'ultimo sarà riconosciuto in garanzia se non presenta danneggiamenti dovuti ad un uso improprio o a qualsiasi modifica o manomissione.

MESSA FUORI SERVIZIO E MANUTENZIONE:

La disinstallazione e/o messa fuori servizio e/o manutenzione del prodotto Half Tank deve essere eseguita solo ed esclusivamente da personale autorizzato ed esperto.

N.B. IL COSTRUTTORE NON PUÒ CONSIDERARSI RESPONSABILE PER EVENTUALI DANNI CAUSATI DA USI IMPROPRI, ERRONEI ED IRRAGIONEVOLI.

La SEA si riserva il diritto di apportare le modifiche o variazioni che ritenesse opportune ai propri prodotti e/o al presente manuale senza alcun obbligo di preavviso.

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'acquirente dell'approvazione 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.

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

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

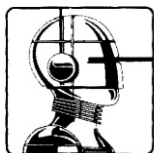
GOLD: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 36 mesi dalla data di fabbricazione riportata sull'operatore.

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.



SEA[®]

Sistemi elettronici
di Aperture Porte e Cancelli

English

HYDRAULIC SWING GATE OPERATOR

HALF 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

CHARACTERISTICS AND SPECIFICATIONS

The **HALF TANK 100** and **HALF TANK 200** products are two high quality hydraulic operators for condominium use for leaf lengths up to respectively 6 and 7 meters with electric lock.

Available in the following versions:

AC (*with lock in opening and closing*)

SC (*with lock only in closing*)

SA (*with lock only in opening*)

SB (*without lock*)

Hydraulic locking is guaranteed on gates with length up to 1.80 m with the Half Tank 100 operator while for lengths up to 2.20 m use the Half Tank 200. An electric lock should be used for leaves (in all versions) exceeding those lengths.

Both products Half Tank 100 and 200 are provided with by pass valves for the force adjustment in both opening and closing. The slowdown in opening and closing is electronically carried out by the GATE 2 control unit. Following the rules and normatives valid in the European countries it is strongly recommended to use a Safety Gate. (Device for the reading of the exact gate position), necessary for the inversion of the leaf in case of obstacles.

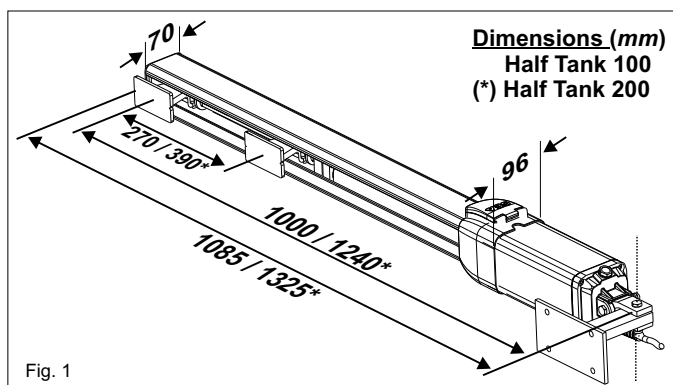
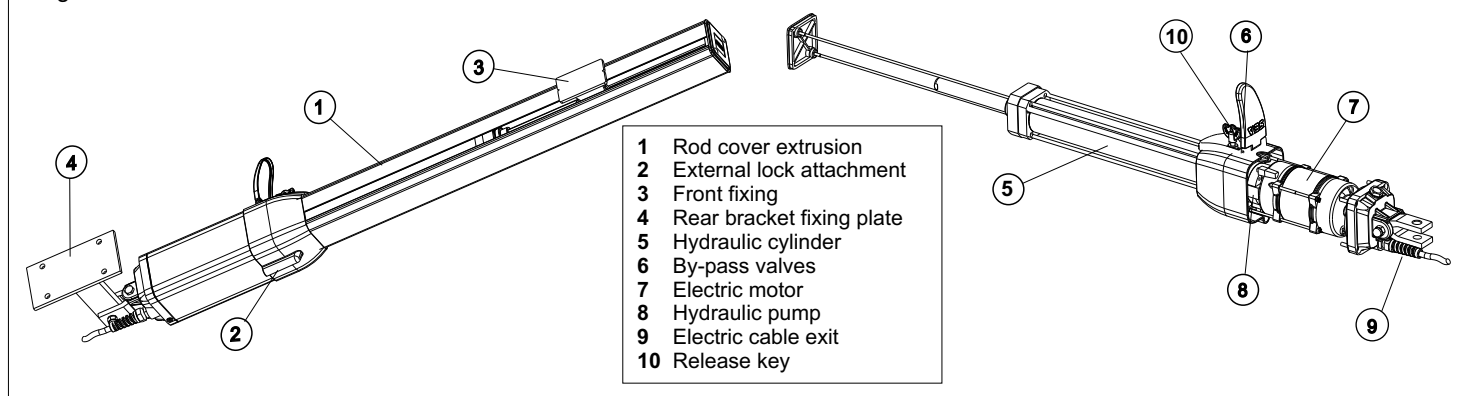
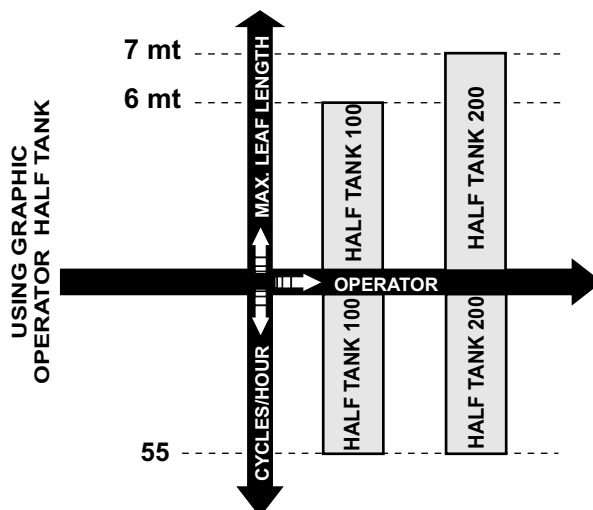
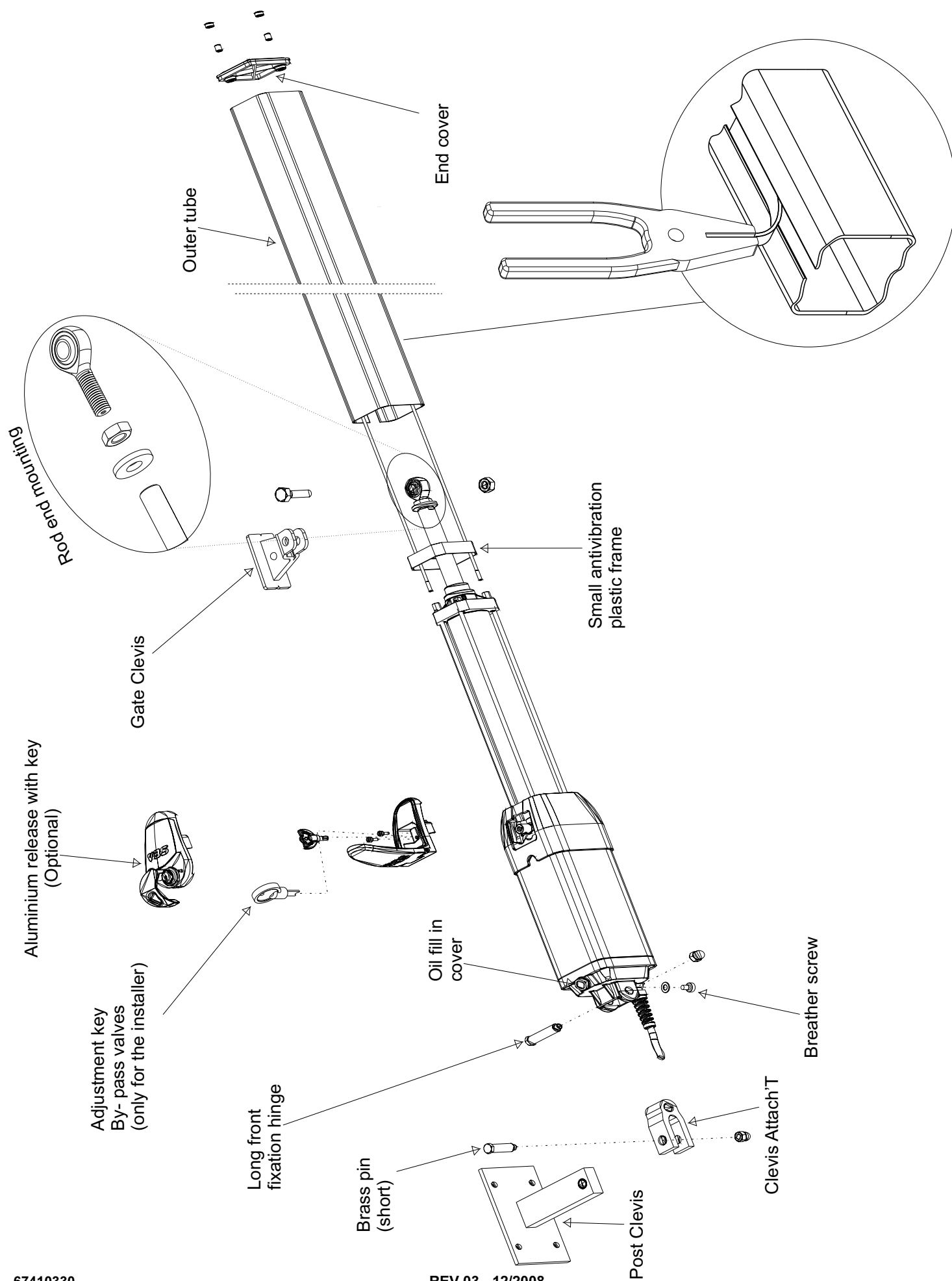


Fig. 2



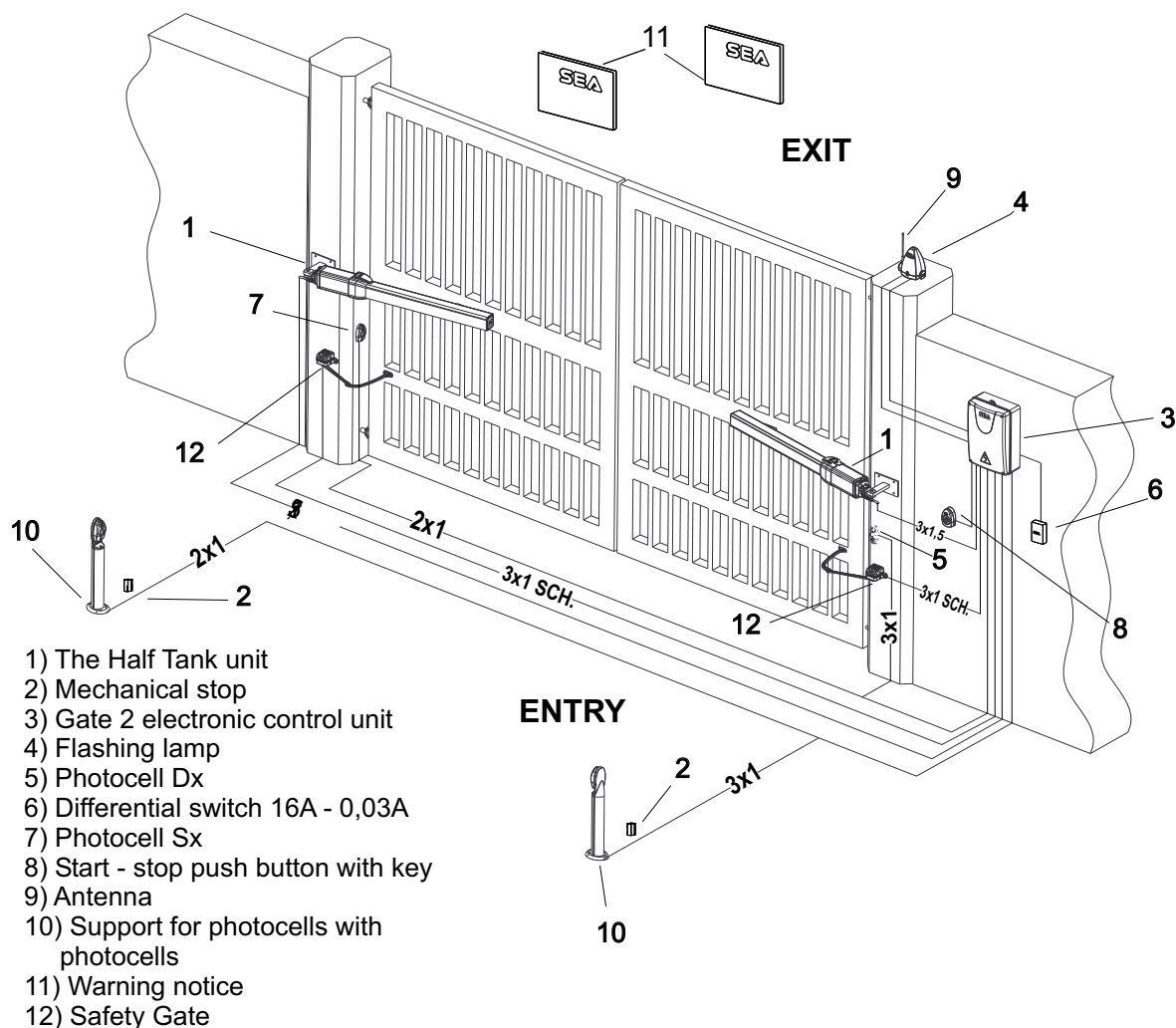
TECHNICAL DATA	HALF TANK 100	HALF TANK 200
Power supply	230 V (±5%) 50/60 Hz	
Force	220 W	
Absorbed current	1 A	
Stroke	270 mm	390 mm
Cycle/hour (temp. of 20°C)	55	
Max working pressure	40 bar	30 bar
Operating temperature	-40°C +60°C	
Motor thermal protection	130°C	
Max. thrust	640 daN	470 da N
Capacity	12,5uF	
Weight	11,4 Kg	13,6 Kg
Protection	Ip55	
Max. Leaf length	6 mt	7 mt
Leaf opening degree	90° - 125°	





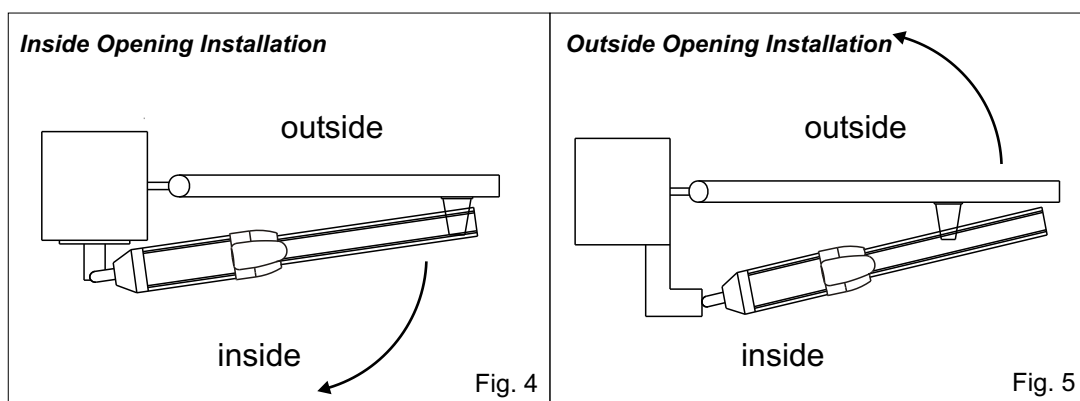


STANDARD INSTALLATION



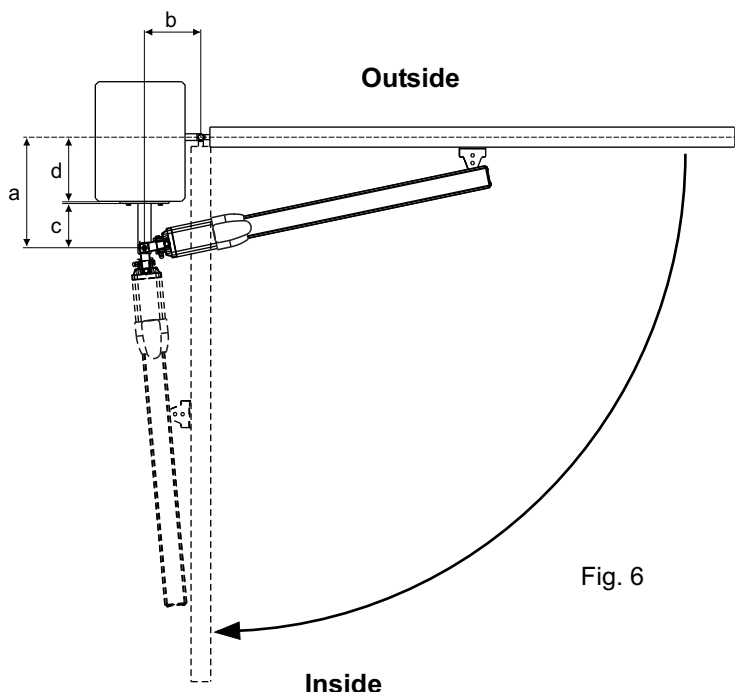
INSTALLATION TYPE

It is possible to install the Half Tank with the opening towards the inside (Fig. 14) or towards the outside (Fig. 15).



Install the operator always
on the inside of the
property

INSIDE OPENING INSTALLATION

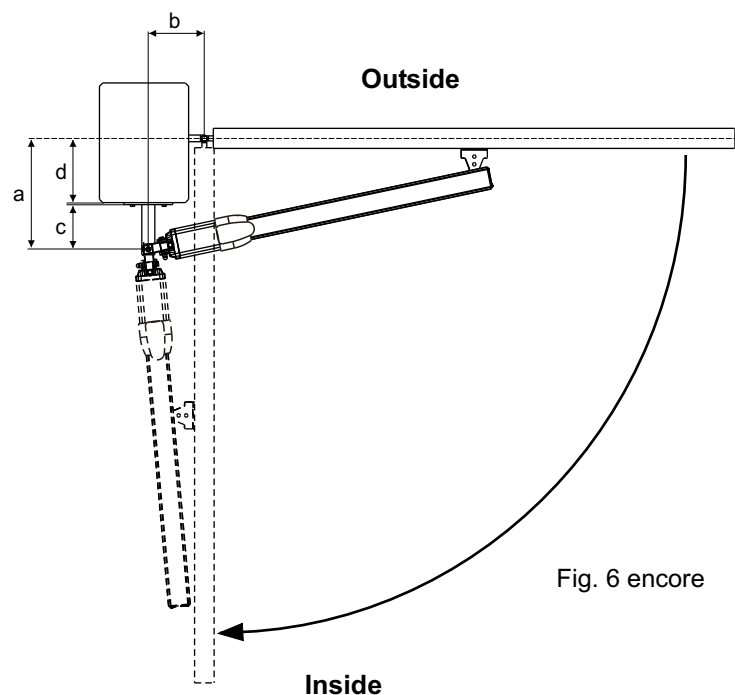


Total stroke 270 mm - max. recommended stroke 250 mm

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

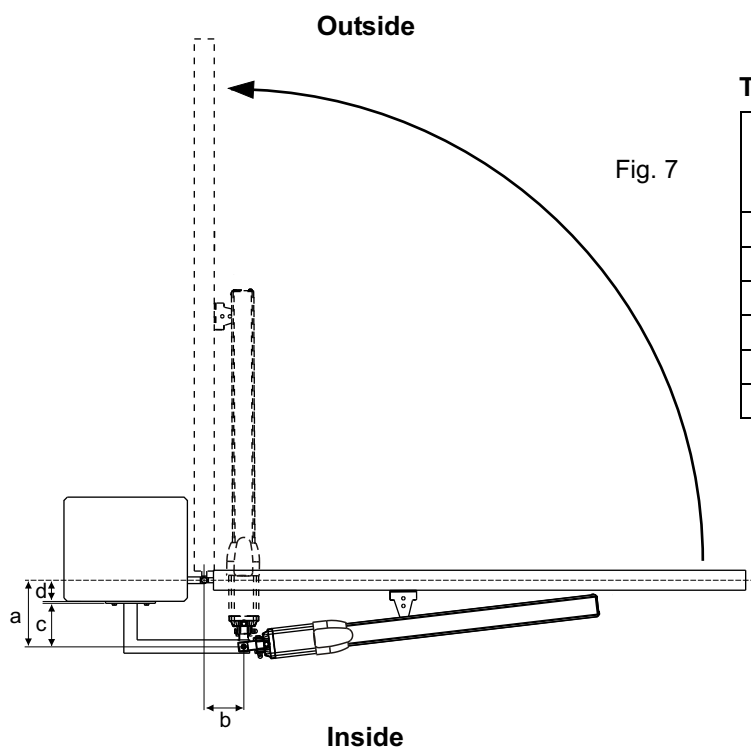


Total stroke 390 mm - max. recommended stroke 370 mm

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.

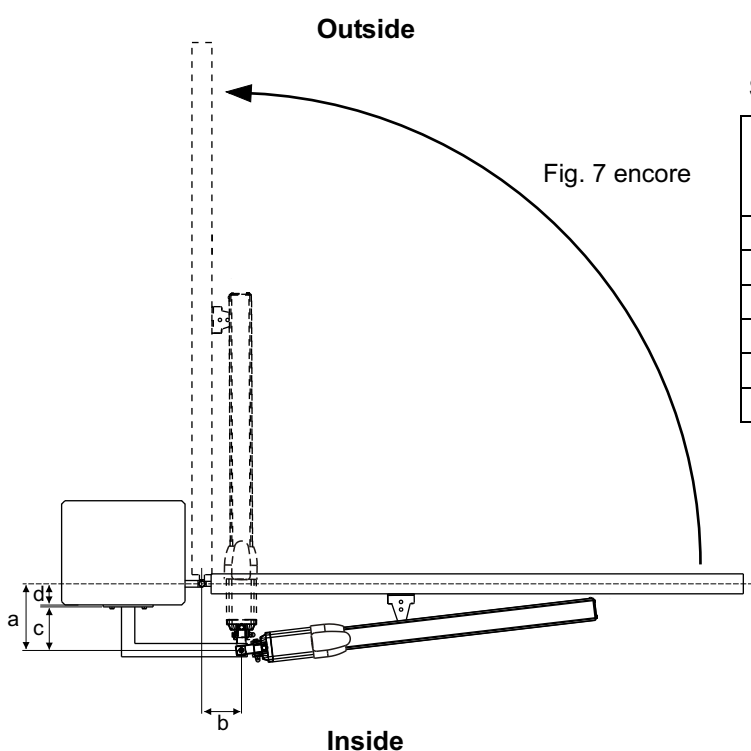
OUTSIDE OPENING INSTALLATION



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	

OSCILLATING FORK INSTALLATION

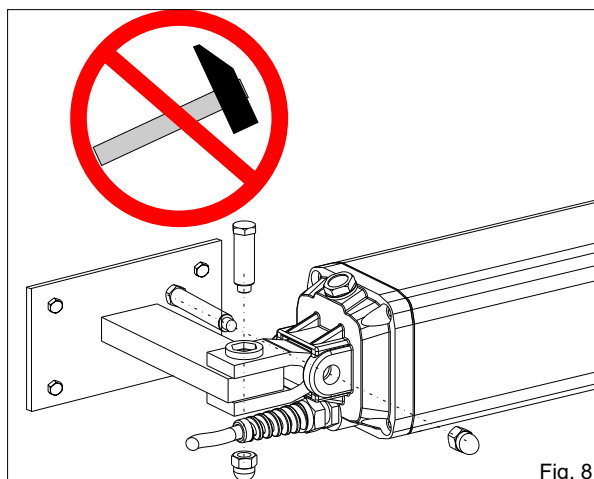


Fig. 8

PRELIMINARY

- Open the package carefully, paying attention to not lose the parts reported in fig.3
- Fix the oscillating fork as in fig.9

Attention: do not use the hammer to insert the short brass pivot; the insertion of the pivot into the fork and bracket must be made simply by hand pressure.

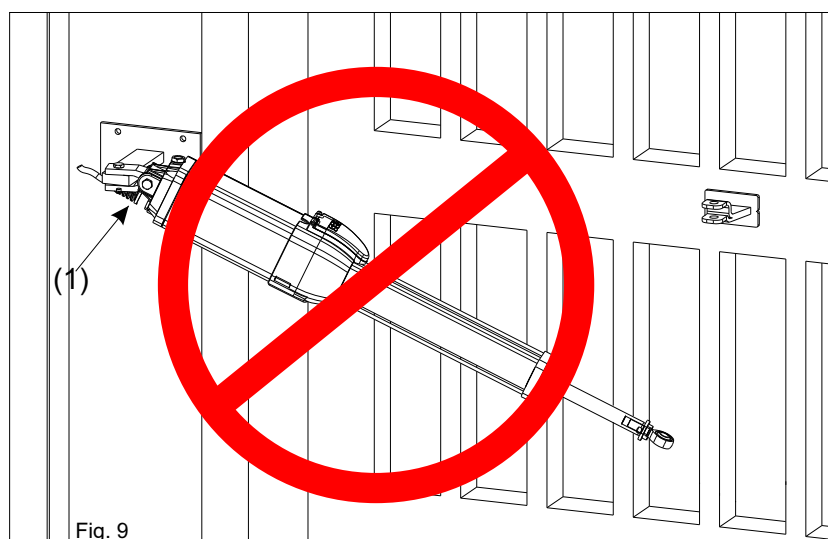


Fig. 9

Attention

Do not incline the hydraulic operator further than the allowed angle from the oscillating fork (1), could cause the braking of it (1)

BACK FIXATION MOUNTING

According to the chosen opening type (inside or outside) and according to the chosen max. rotation of the leaf (see page 5) the bracket must be first cut respecting the mesurment "a" on pag.5 and than welded as in fig.10.

The support must be positioned so that the operator is in perfect horizontal position (Fig. 10 ,Fig.12).

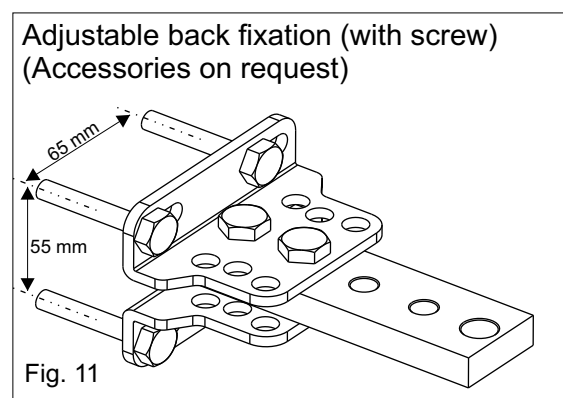


Fig. 11

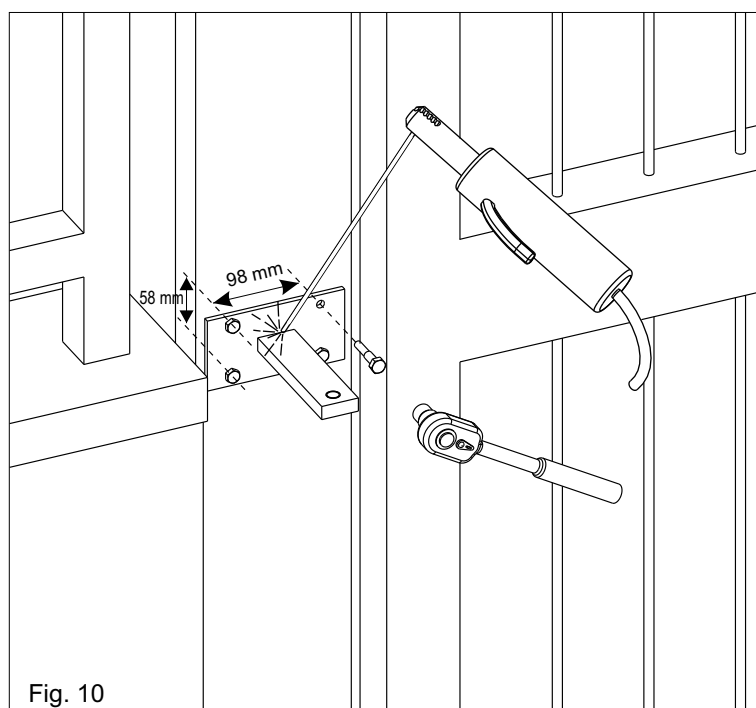


Fig. 10

POSITIONING OF THE FRONT FIXATION

Once the operator has been mounted on the back fixation close the leaf and do as follows:

- 1) Release the operator (as in Fig. 23 of page 11)
- 2) Pull out completely the chromium plated rod, **afterwards bring it back about 1 cm**
- 3) Fix the rod on the front fixation (Fig. 13)
- 4) Position the operator perfectly horizontal and mark the position of the front fixation (Fig. 12)

Attention: Avoid the welding of the front fixation to the rod of the hydraulic operator already fixed as the welding residual (squirt) could ruin the chromium -plating of the rod.

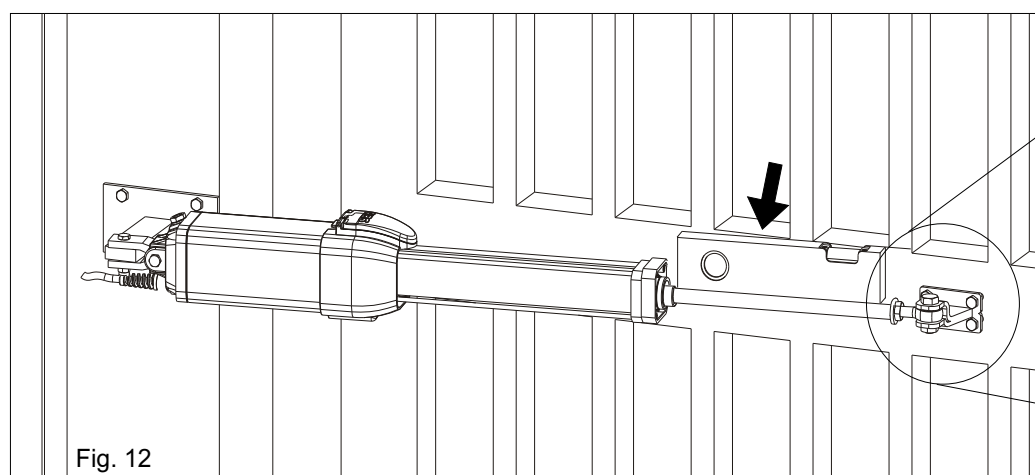


Fig. 12

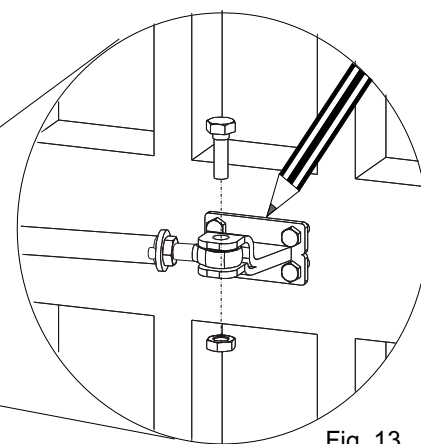


Fig. 13

WELDING OF THE FRONT FIXATION TO THE GATE

Mount the front fixation so that it guarantees the perfectly horizontal position of the operator. .

Depending on the type of the gate (wood, iron, aluminium) the front fixation can be welded or screwed

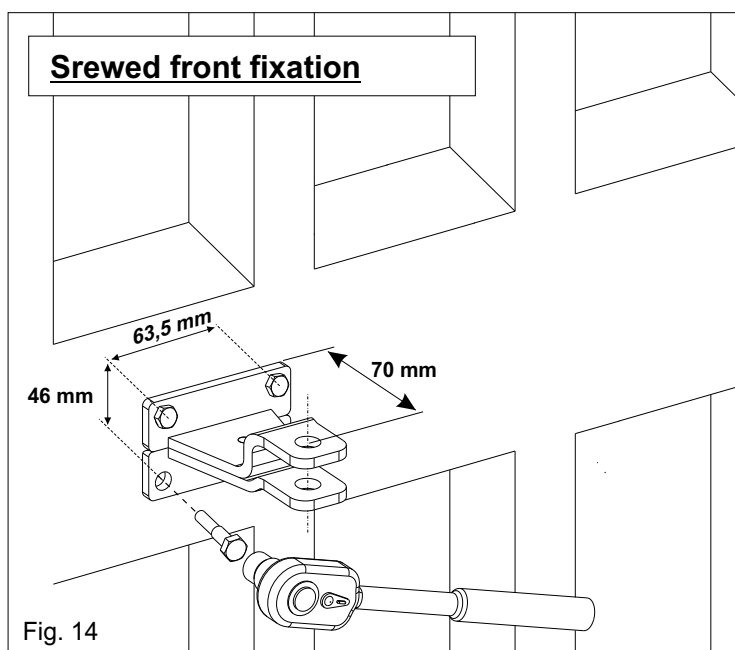


Fig. 14

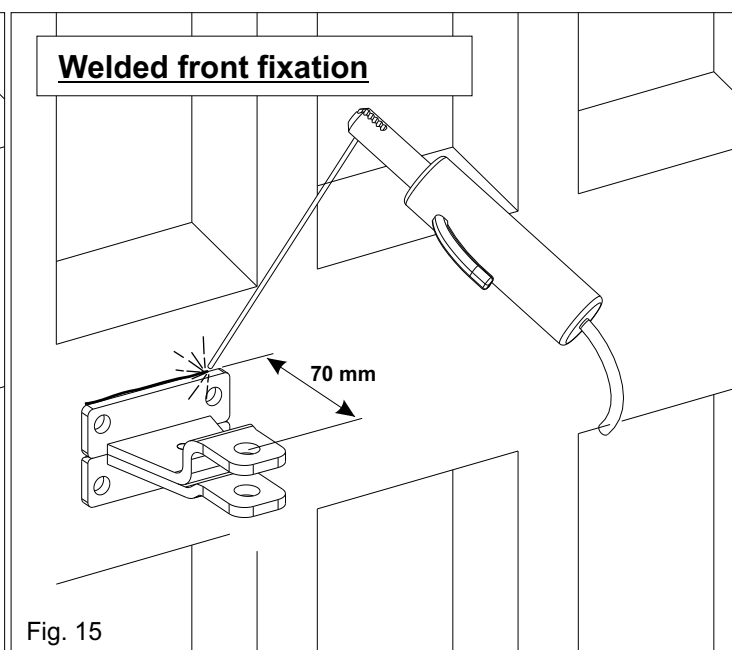


Fig. 15

INSTALLATION OF THE MECHANICAL LIMIT SWITCH STOPS (Accessories on request)

- Release the unit (as in Fig. 23 of page 10)
 - Let the rod come out about 3/4 of its run
 - Put the limit switch stops on the front flange of the unit with the two rods (of the three which are present on the stop) which are in parallel to the gate (Fig. 16)
 - Fix the stop with the two included screws.
- At this point hook the rod on the front fixation
- To adjust the stop in opening act on disc, and in closing on disc 2.

Attention : the mounting of the mechanical stop does not cause the reduction of the stroke

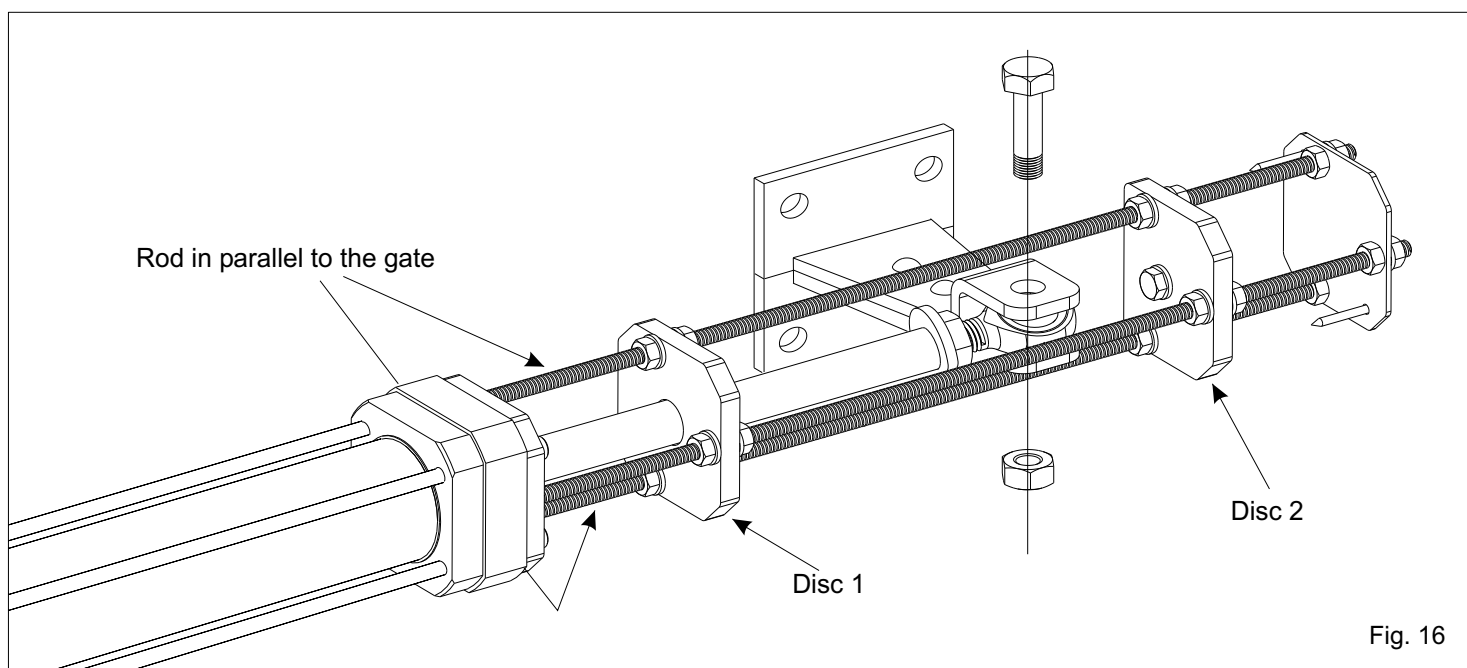


Fig. 16

BREATHER SCREW

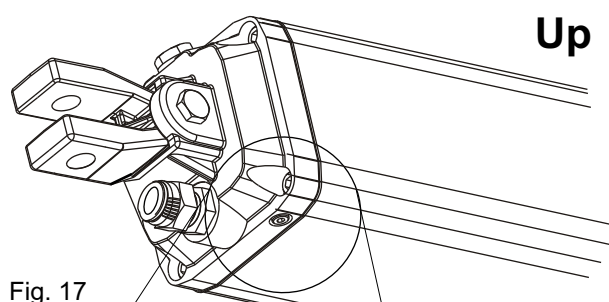
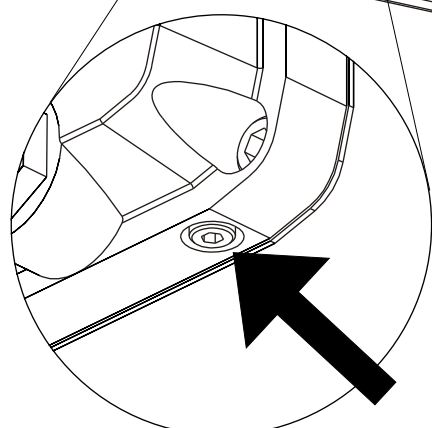


Fig. 17



VERY IMPORTANT

Take off the breather screw (lower part of the operator) after installation



Down

Unscrew and take off at the end of the installation

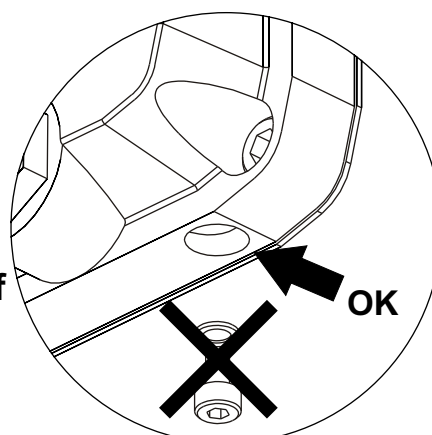


Fig. 18



INSTALLATION OF THE CHROMIUM-PLATED ROD PROTECTION

Make sure to have inserted the antivibration plastic frame (A) before inserting the rod cover extrusion (Fig. 19)

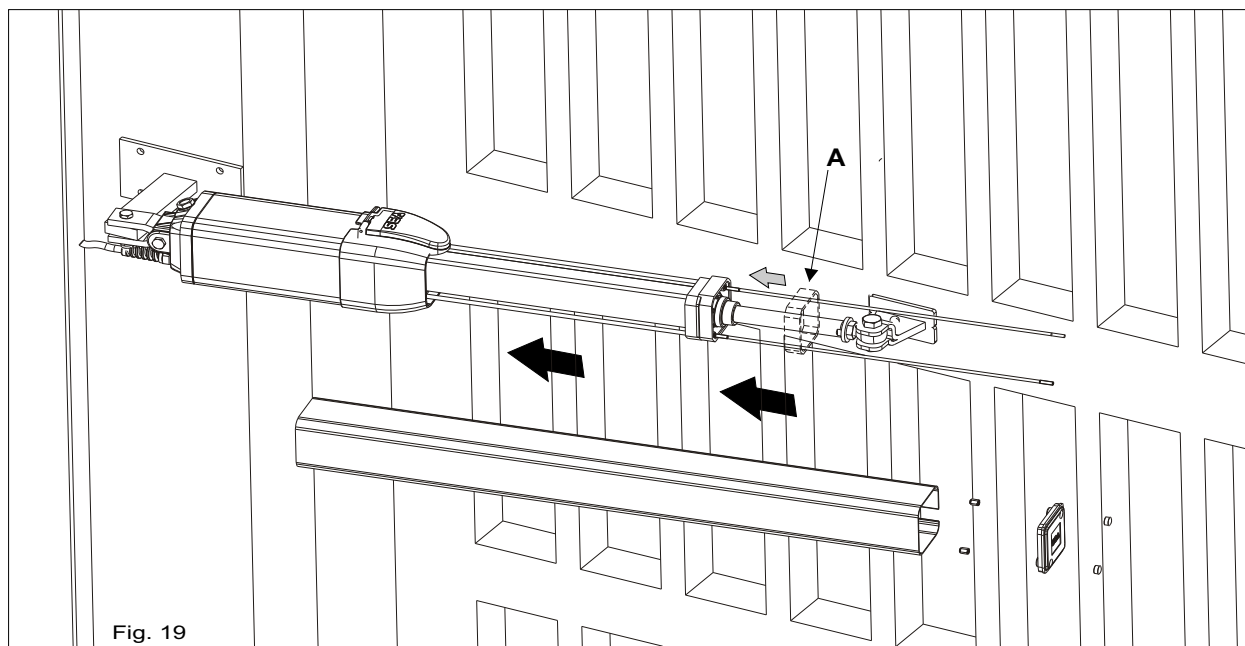


Fig. 19

TORQUE ADJUSTMENT (By-Pass Valves)

In case of first installation both, the cover of the release and the cover of the by pass valves must not yet be inserted. In this case refer to fig. 20 and fig.22. Should the by-pass valves adjustment be made in a second moment, because of periodical maintenance or other, take off the screw which locks the by-pass cover (fig. 21), take off the by-pass cover and adjust the pressure of the by-pass valves with the special key given to the installer free of charge (Fig. 22).

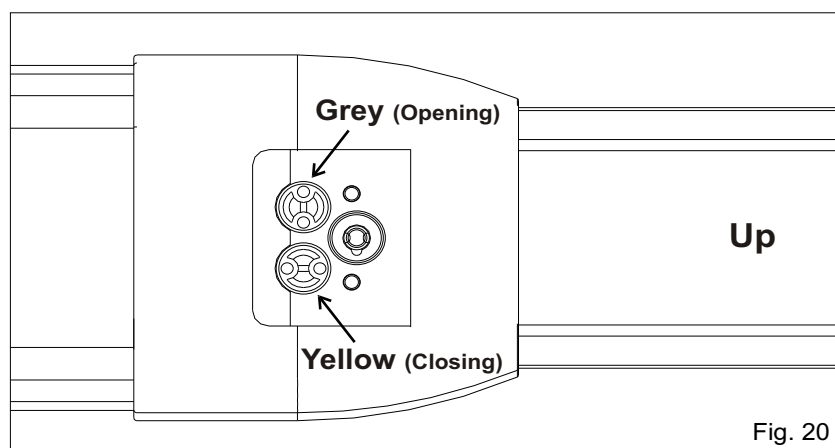


Fig. 20

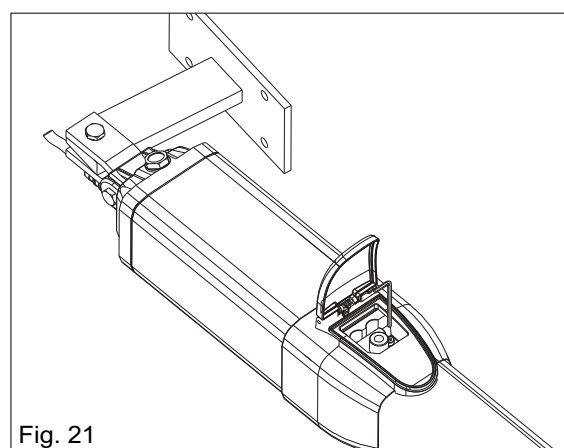
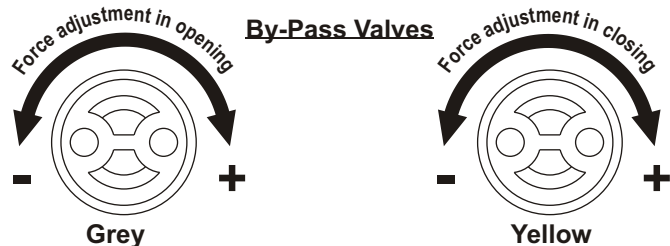


Fig. 21



Regulate the opening and closing forces of the gate respecting the force diagram (included in the En12453 normative); the thrust force however must not be superior then 15KgF.

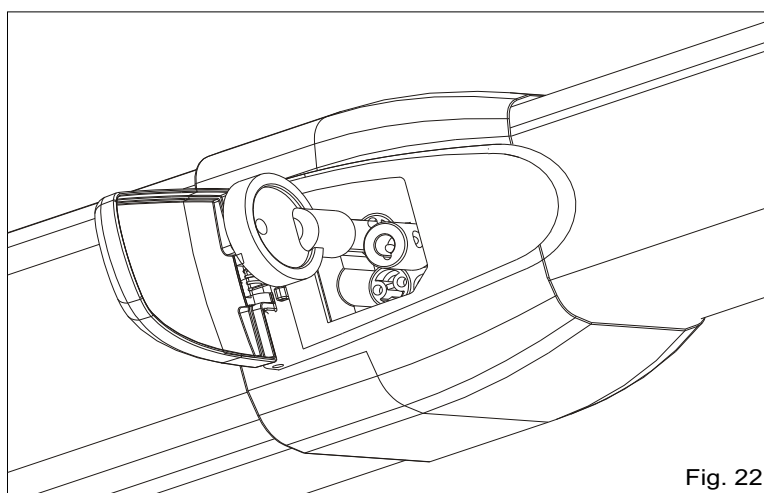


Fig. 22

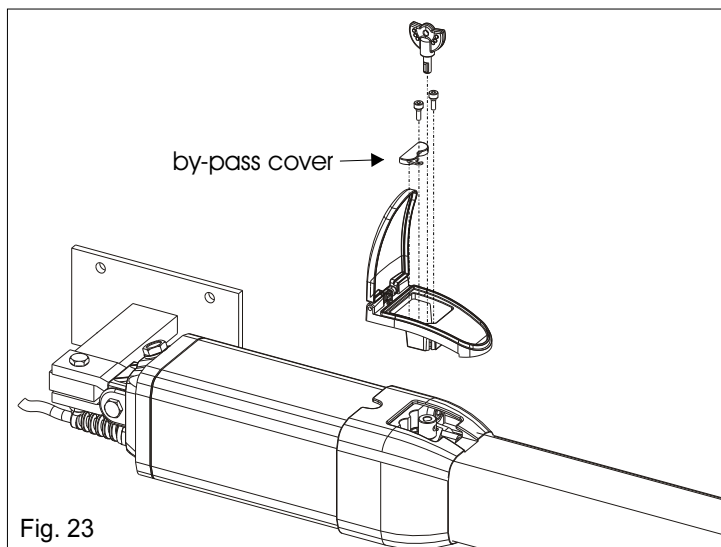


Fig. 23

PLASTIC RELEASE MOUNTING

ATTENTION: the mounting of the plastic release must be effectuated as shown in fig. 23 **only and exclusively** after having finished all the installation operations, mounting of the rod cover and calibration of the by-pass valves.

ALUMINIUM RELEASE WITH KEY MOUNTING (accessory on request)

ATTENTION: The mounting of the aluminium release must be executed as shown in figure 24 only and exclusively after having finished all installation operations, the rod cover mounting and the calibration of the by pass valves.

The release key is kept in the inside of the aluminium release cover (see fig. 25)

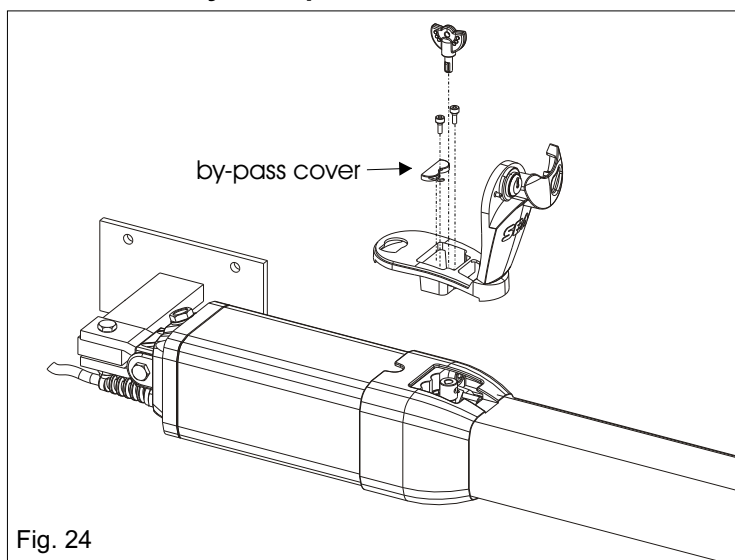


Fig. 24

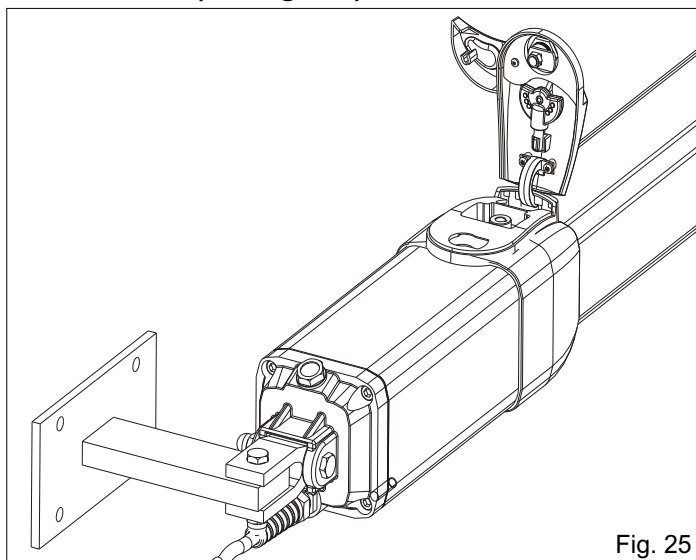


Fig. 25

EXTERNAL RELEASE MOUNTING (accessory on request)

ATTENTION: The mounting of the external release must be executed as shown in the figures 26 and 27. For more details refer to the mounting instructions in the external release mounting Kit for Half Tank.

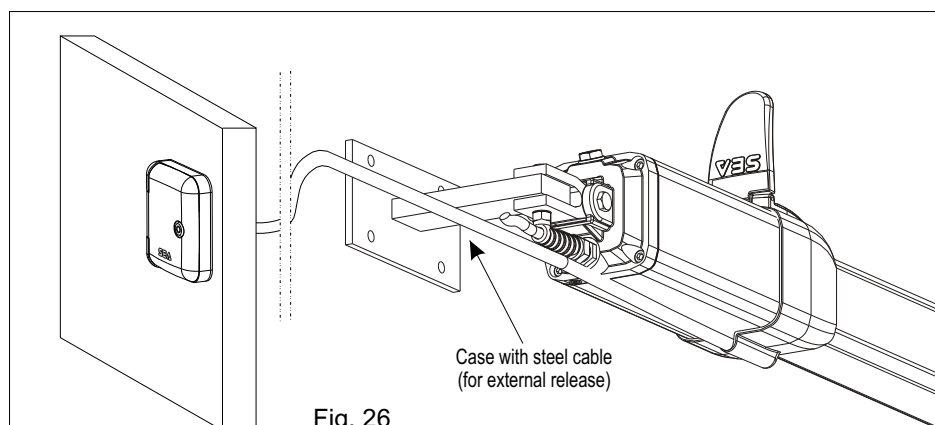


Fig. 26

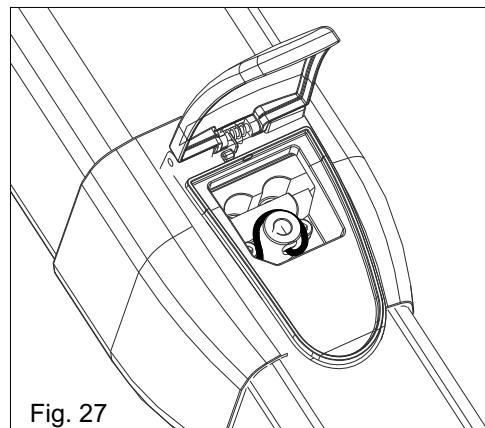


Fig. 27

RELEASE SYSTEM

To release operate as follows:

-Insert the key and turn it about 180° anti-clockwise (Fig.28).

To relock the operator do as follows:

-Insert the key and turn it clockwise until it stops (Fig.28).

Attention: To release cut current supply

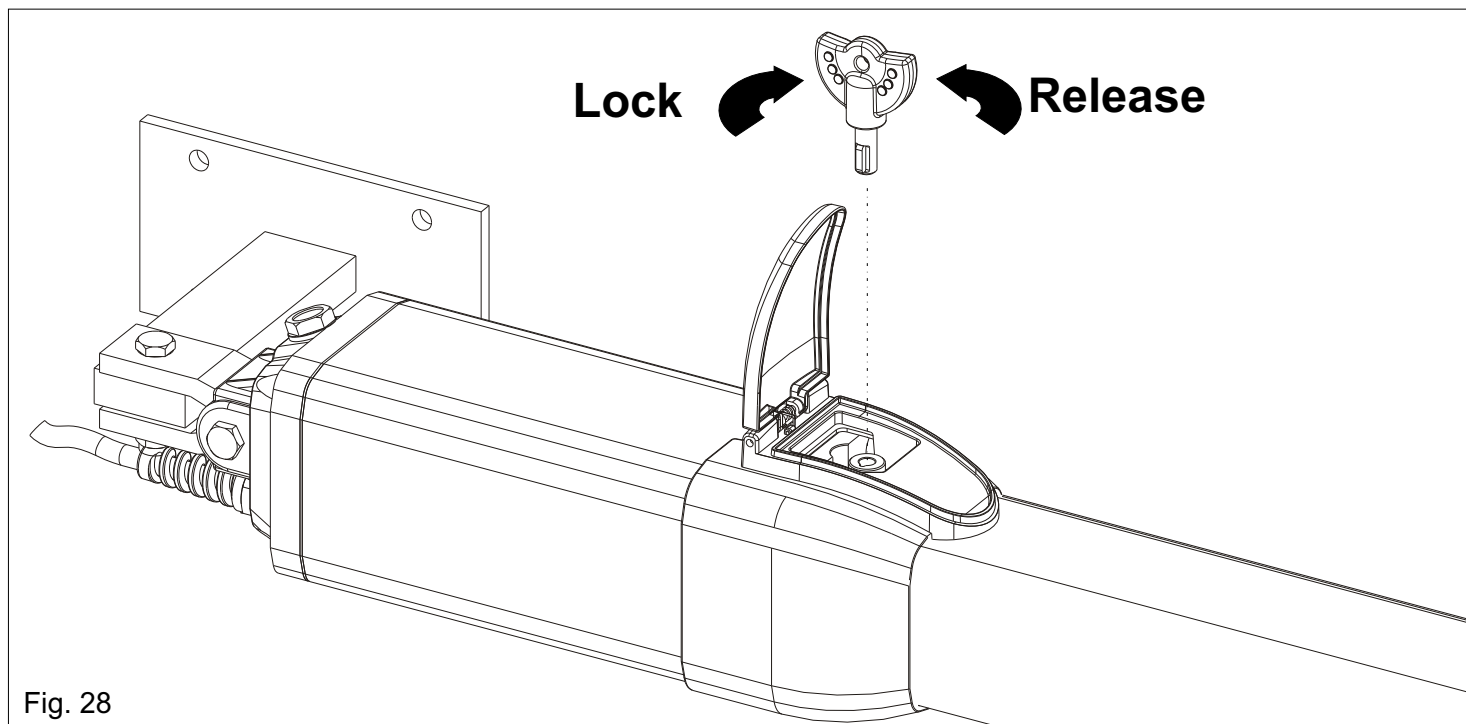


Fig. 28

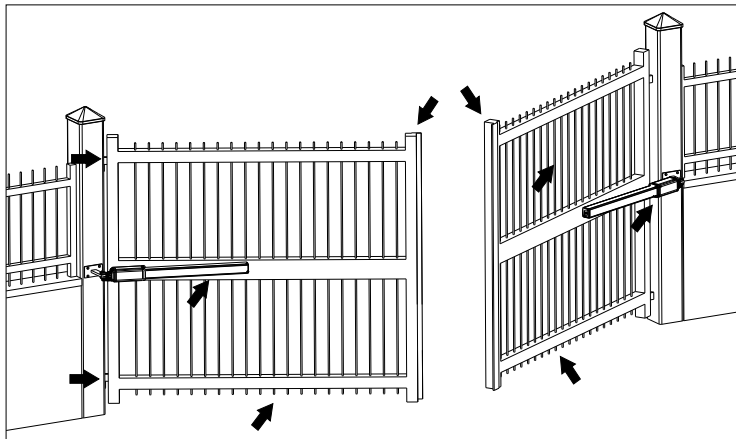
PERIODICAL MAINTENANCE

1) Check the robustness and the stability of the gate; particularly the leaning and/or rotation points of the gate (hinges).	Annual
2) Check the oil level in the hydraulic/in oil bath operators (cap on the back cover of the Half Tank operator)	Annual
3) Replace the hydraulic oil with the oil recommended by the producer	4 Years
4) Check the function of the release	Annual
5) Check the function of the by-pass valves	Annual
6) Check and grease the fixation pivots	Annual
7) Check the integrity of the connecting cables	Annual
8) Check the function and the conditions of the limit switch stops in opening and closing (where the mechanical stop accessory is present)	Annual
9) Check the good status of all the apparatus which are subject to efforts (back fixation, oscillating fork, and front fixation)	Annual
10) Check the functionality of all the accessories especially the function of all security devices and of the Safety Gate.	Annual
11) After having executed the periodical maintenance it is necessary to repeat the test and to reactivate the automation.	Annual

All the above mentioned operations must be executed by an authorised installer only.

RISK EXAMINATION

The points indicated by arrows in Fig. 38 are potentially dangerous. The installer must take a thorough risk examination to prevent crushing, conveying, cutting, grasping, trapping so as to guarantee a safe installation for people, animals and things.



As for misunderstandings that may arise refer to 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 S.r.l products must only be used for the automation of doors, gates and wings. Any initiative taken without SEA S.r.l. explicit authorization will preserve the manufacture from whatsoever responsibility. The installer shall provide warning notices on not assessable further risks. SEA S.r.l. in its relentless aim to improve the production, is allowed to make whatsoever adjustment without giving notice. This does not oblige SEA S.r.l. to up-grade the past productions. SEA S.r.l. can not be deemed responsible for any damage or accident caused by product breaking, being damages or accident due to a failure to comply with the

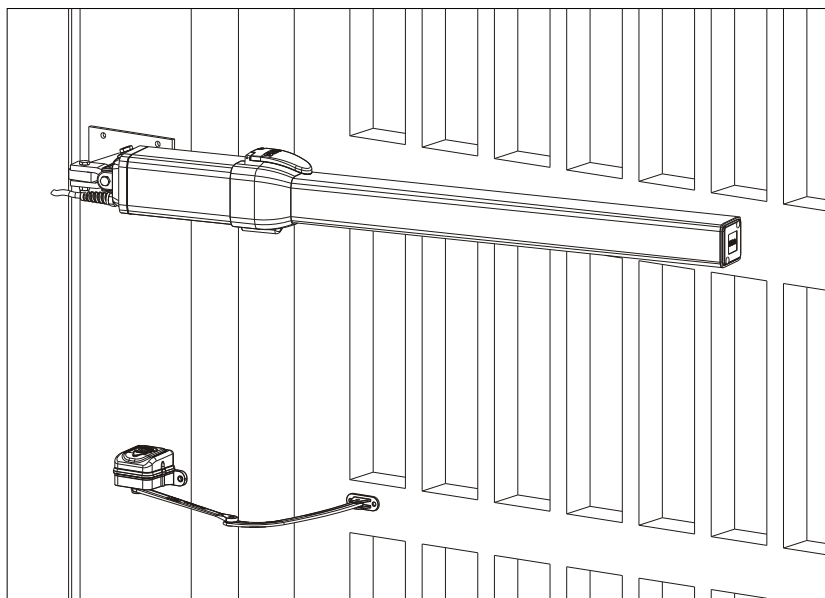
instructions herein. The guarantee will be void and the manufacturer responsibility will be nullified if SEA S.r.l original spare parts are not being used. The electric installation shall be carried out by a professional technician who will release documentation as requested by the laws in force. Packaging materials such as plastic bags, foam polystyrene, nails etc. must be kept out of children's reach as dangers may arise.

INITIAL CHECK AND PUTTING IN SERVICE

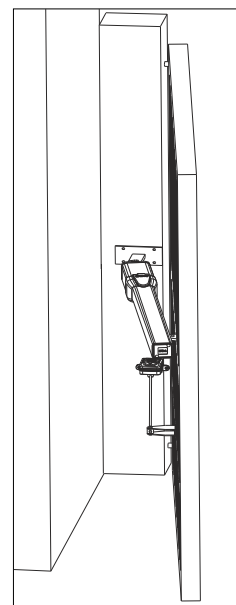
After having completed all necessary operations, for the correct installation of the product HALFTANK, described in the present manual and after having valued all resting risks which could arise in whatever installation **is necessary to test the automation to guarantee the max. security** and in particular way to guarantee the respect of what foreseen by the law and the normatives in force. In particular the test must be executed following the **EN12445** ruel which establishes the testing methods for the testing of the gate operators respecting the established limits by the **EN 12453** law.

SAFETY GATE

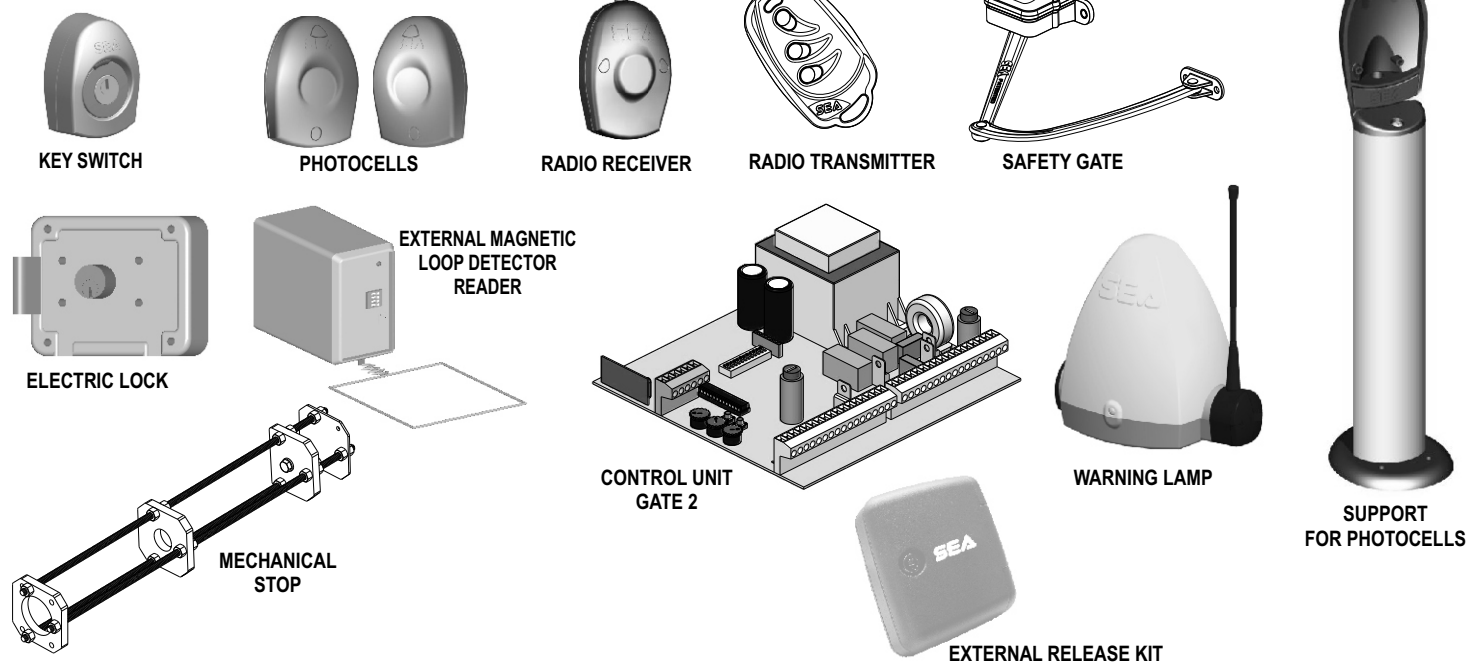
For a correct and safe installation it is strongly recommended to install the Safety Gate, **which allows the fulfilment of the force diagram included in the EN 12453 ruel** and the testing of the putting in service and of the whole installation.



NOTE: In case of installations as shown in the figure on the right it is possible to use the Safety Gate with a straight rod (solving the dimensions problem of the arm, see drawing on the left)



ACCESSORIES FOR HALF TANK



CONFORMITY DECLARATION

SEA declares under its own responsibility that the product

Half Tank in all its versions

conforms to the following European rules and successive modifications (where applicable):

98/37/CE (Machine directive)

89/336/CEE (Electromagnetic compatibility directive)

73/23/CEE (Low tension directive)

SAFETY PRECAUTIONS

All electrical installation work should conform to current regulations.

A 16A - 0,030A differential switch must be incorporated into the source of the gate main electrical supply and the entire system must be properly earth bonded.

Remember to separate mains (230/115 V) carrying cables from low voltage control cables.

INTENDED USE

The Half Tank in all his versions has been planned to be used exclusively for the automation of swing gates

SPARE PARTS

To obtain spare parts contact:

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

SAFETY AND ENVIRONMENTAL COMPATIBILITY

Please dispose of the product and circuit packing materials in a responsible and appropriate way.

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

MAINTENANCE AND DECOMMISSION

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

LIMIT OF GUARANTEE

The Half Tank is guaranteed for a period of 36 months. The guarantee period starts from the date printed on the unit. The Half Tank guarantee will be void if the operator has been incorrectly installed, not used for the purpose intended, tampered or modified in any way. The validity of this guarantee only extends to the original purchaser of the unit.

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 customers are made under the prescription of this terms of sales which are integral part of the sale contract and cancel and substitute all opposed clauses or specific negotiations present in the order or in other documents received from the buyer.

GENERAL NOTICE The gate automation systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EN 12453 EN12445 and others) 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 and always under those Terms of sale. 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.

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 its 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 noncompliance of safety standards and good practice during installation and use of the purchased products.

8) WARRANTY.

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. within 30 days from the purchase date. 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.

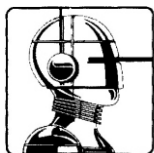
The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. 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 installation, or if the product label of the manufacturer with the registered SEA trademark n° 804888 has been removed. 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. The repairs of products in warranty and out of warranty is accepted only if the procedure of SEA are fully respected by the customer.

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 acquires the property of the goods only after full payment of the invoice.

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. The official language for the interpretation of the catalogue, the manuals, the terms of sale and any other is the Italian language. SEA reserves the faculty to make technical changes to improve its own products, which are and are not included 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: with the purchase, the buyer accepts in full the present Terms of Sale and recognizes that SEA has the exclusive legal ownership of the registered SEA International trademark n° 804888 which is attached on each products label, and/or on manuals, packaging and/or in any other documentation, and he will commit himself to use it in its marketing and/or installation activity in a way which does not reduce the value of these rights; he won't also remove, replace or modify the trademark or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any change of signs-brands on the products, unless preventive and expressed authorization by SEA.



SEA®

Sistemi elettronici
di Aperture Porte e Cancelli

Français

OPERATEUR HYDRAULIQUE POUR PORTES A BATTANTES

HALF TANK



MANUEL D'INSTALLATION et informations sur la sécurité

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

CARACTERISTIQUES ET SPECIFICATIONS

Les produits **HALF TANK 100** et **HALF TANK 200** sont des opérateurs hydrauliques de haute qualité pour usage collectif pour portails avec vantaux de respectivement max. 6 et 7 m avec électroserrure.

Disponible dans les suivantes versions:

AC (avec verrouillage en ouverture et fermeture)

SC (avec verrouillage seulement en fermeture)

SA (avec verrouillage seulement en ouverture)

SB (sans verrouillage)

L'opérateur Half Tank 100 garantit le verrouillage pour vantaux jusqu'à 1,80 m pendant qu'il est garanti jusqu'à 2.20 m avec le Half Tank 200. Pour longueurs supérieures, il faut adopter les électroserrures.

Les produits Half Tank 100 et 200 sont équipés avec valves by-pass pour le réglage de la force soit il en ouverture qu'on fermeture. Le ralentissement est réglable électroniquement en ouverture et on fermeture avec l'armoire GATE 2. Pour ce qui concerne les lois et les directifs en vigueur aujourd'hui en Europe il est fortement conseillé d'utiliser le Safety Gate (dispositif de lecture de la position du portail), lequel est nécessaire pour permettre l'inversion du vantail en cas d'obstacle.

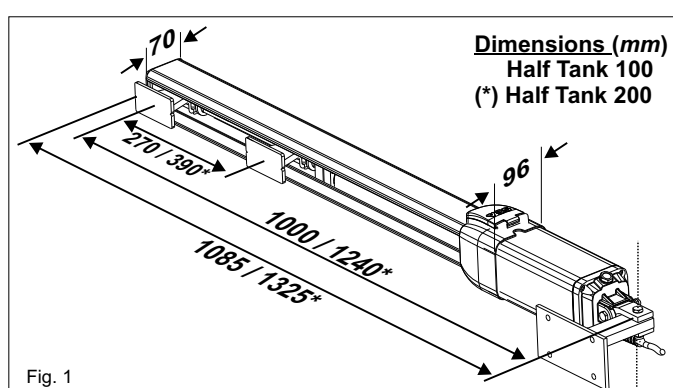
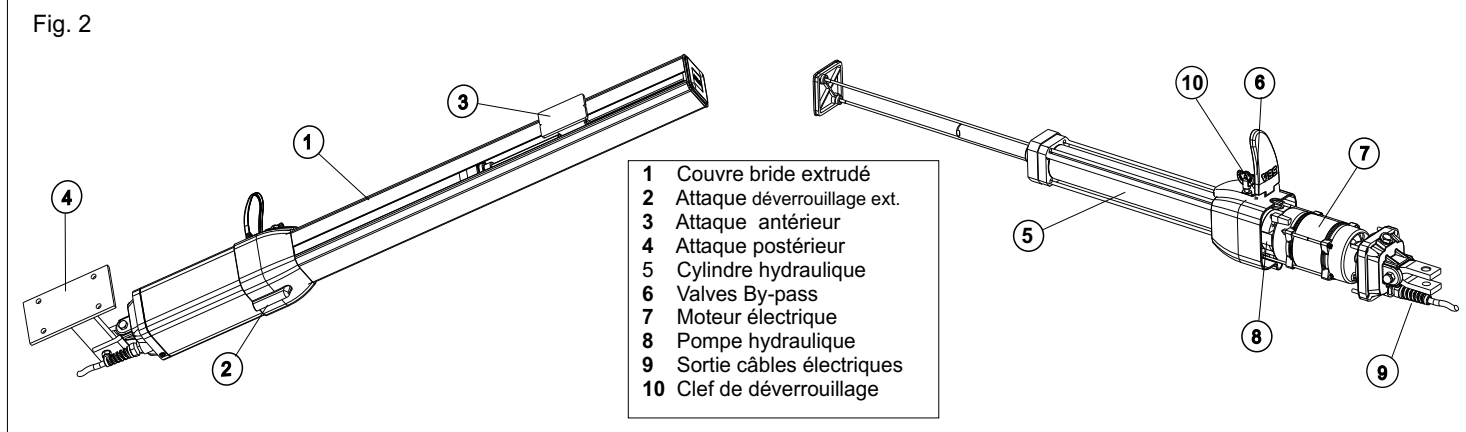
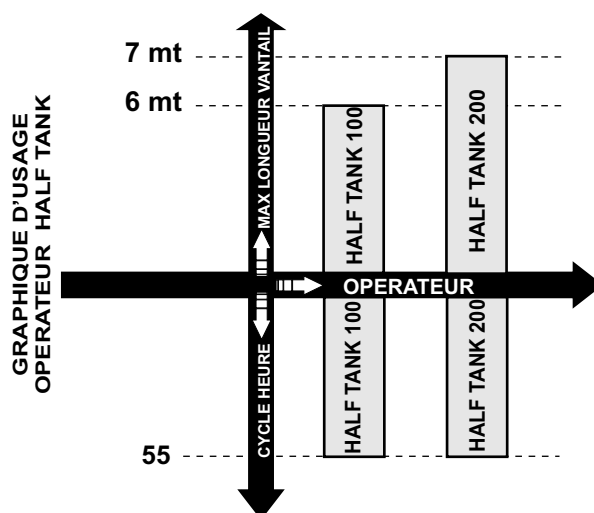
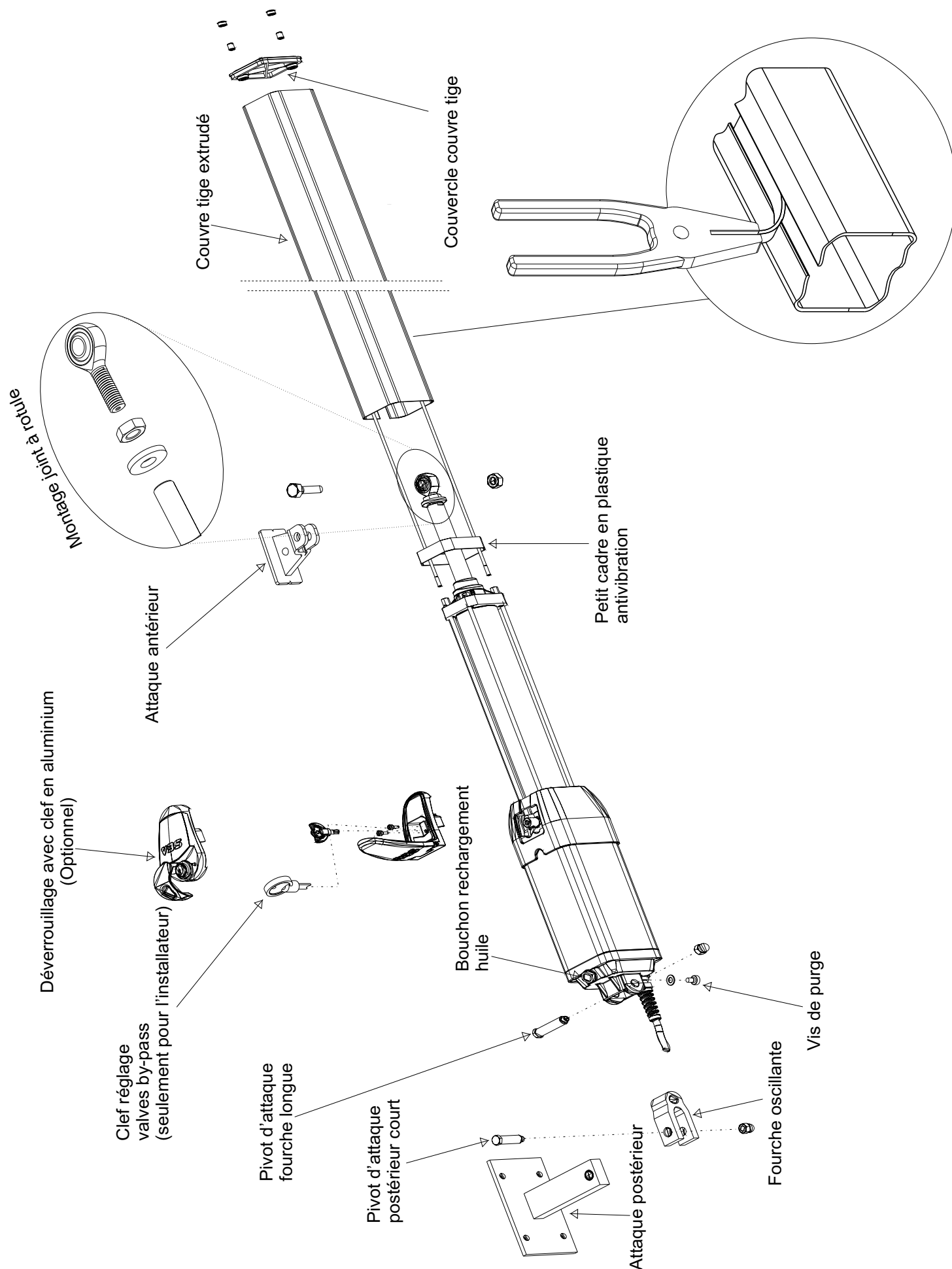


Fig. 1



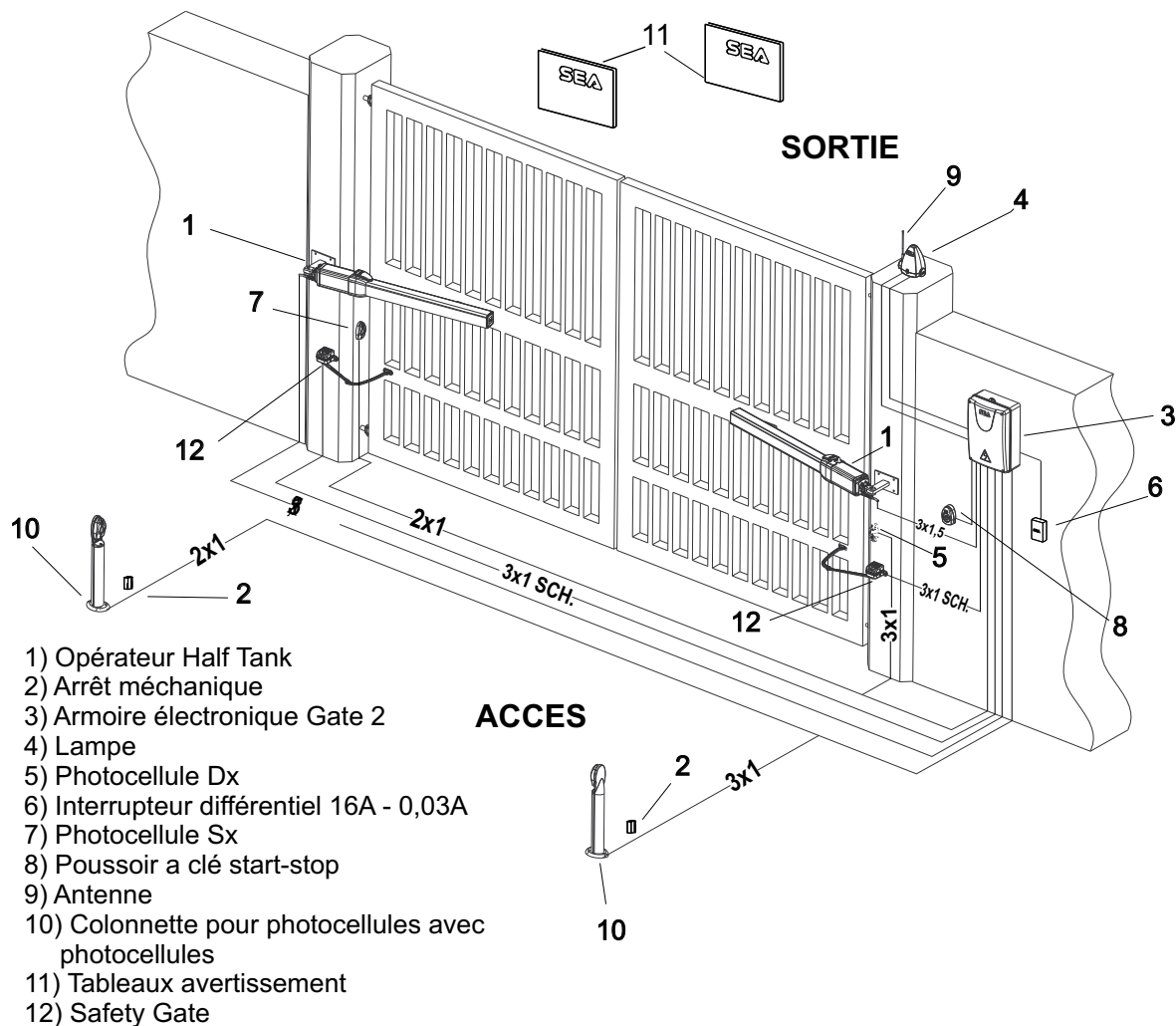
CARACTERISTIQUES TECHNIQUES	HALF TANK 100	HALF TANK 200
Alimentation	230 V (±5%) 50/60 Hz	
Puissance	220 W	
Courant absorbé	1 A	
Course de la tige	270 mm	390 mm
Cycle/heure (temp. 20°C)	55	
Max pression d'exercise	40 bar	30 bar
Temperature d'exercise	-40°C +60°C	
Protection thermique moteur	130°C	
Max. Poussée	640 daN	470 da N
Condensateur	12,5uF	
Poids	11,4 Kg	13,6 Kg
Dégré de protection	Ip55	
Max. Longueur du vantail	6 mt	7 mt
Dégré d'ouverture vantail	90° - 125°	





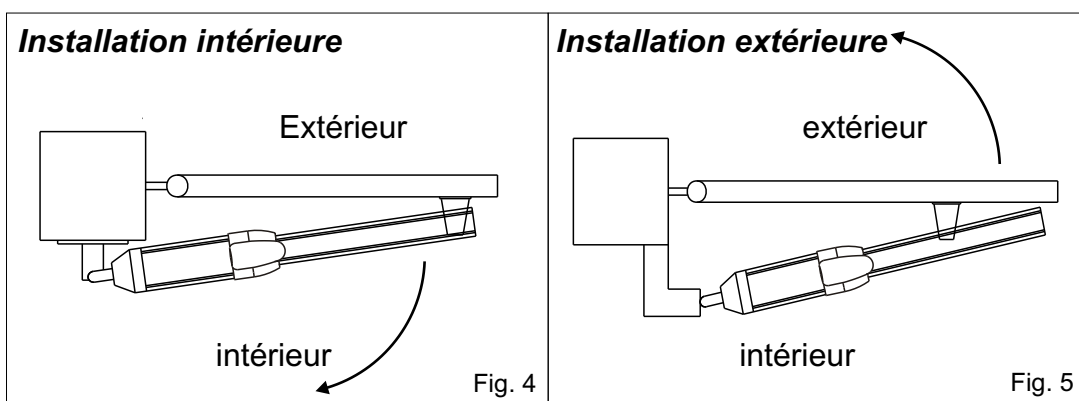


INSTALLATION TYPE



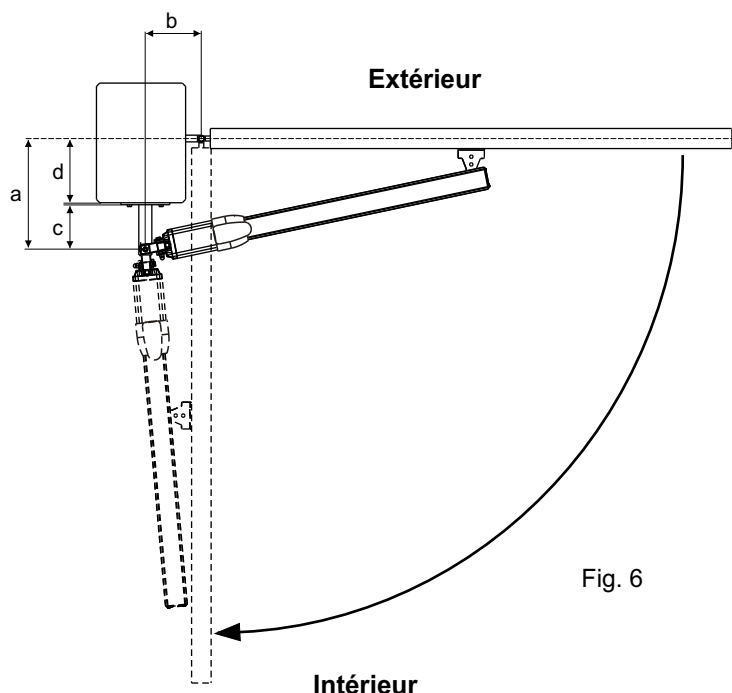
TYPE D'INSTALLATION

Il est possible d'installer le Half Tank avec l'ouverture vers l'intérieur (Fig. 14) ou vers l'extérieur (Fig. 15).



Installer l'opérateur toujours à l'intérieur de la propriété

INSTALLATION INTERIEURE

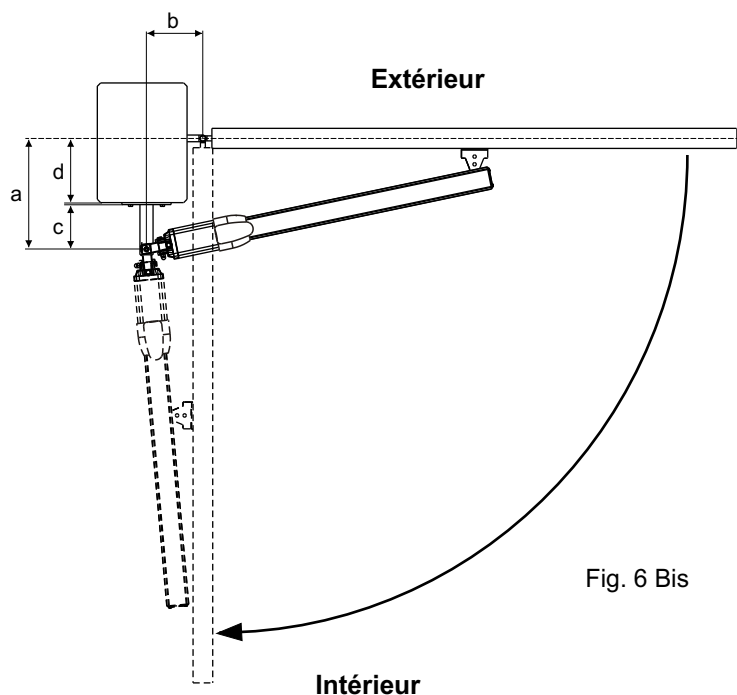


Course totale 270 mm - course max conseillé 250 mm

a (mm)	b (mm)	d _{max} (mm)	Max. Angle D'ouverture	Course tige max (mm)	Course tige pour 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	

Pour obtenir 110° avec d > 55 mm il faut faire une niche dans le portail.

INSTALLATION INTERIEURE

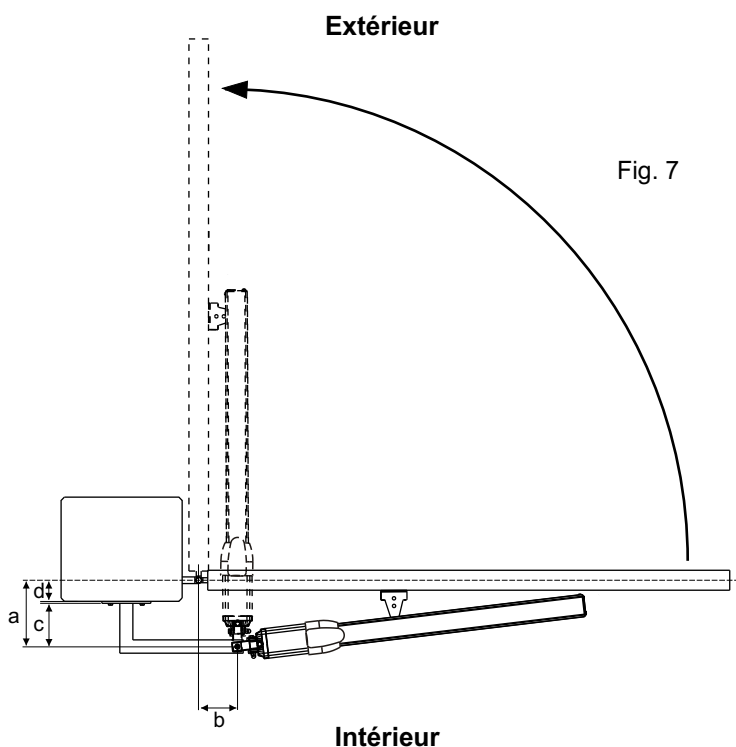


Course totale 390 mm - course max conseillée 370 mm

a (mm)	b (mm)	d _{max} (mm)	Max. Angle d'ouverture	Course tige max (mm)	Course tige pour 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	

Pour obtenir 125° avec d > 55 mm il faut faire une niche dans le portail.

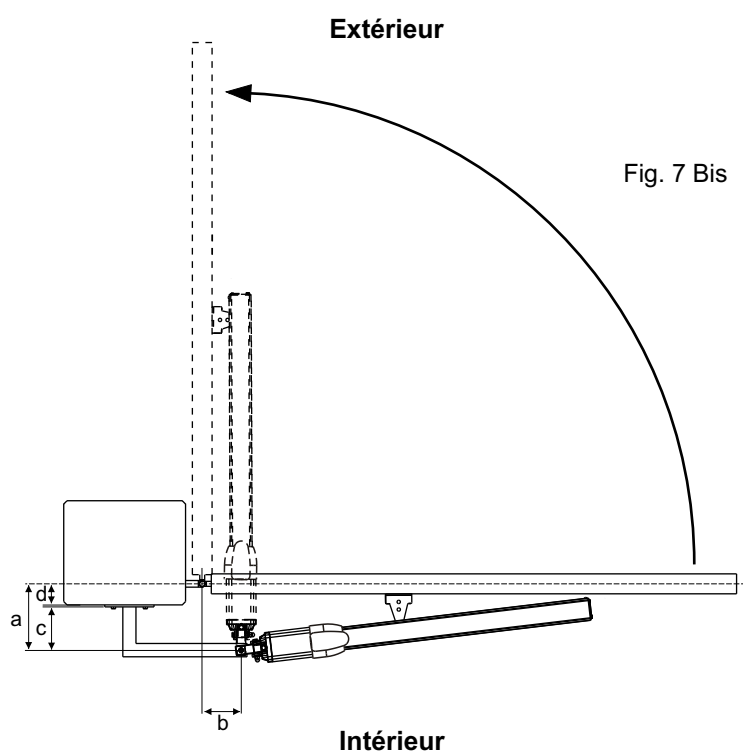
INSTALLATION EXTERIEURE



Course totale 270 mm - course max conseillée 250 mm

a (mm)	b (mm)	Max. Angle d'ouverture	Course tige max (mm)	Course tige pour 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	

INSTALLATION EXTERIEURE



Course totale 390 mm - course max conseillée 370 mm

a (mm)	b (mm)	Max. Angle d'ouverture	Course tige max (mm)	Course tige pour 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	

INSTALLATION FOURCHE OSCILLANTE

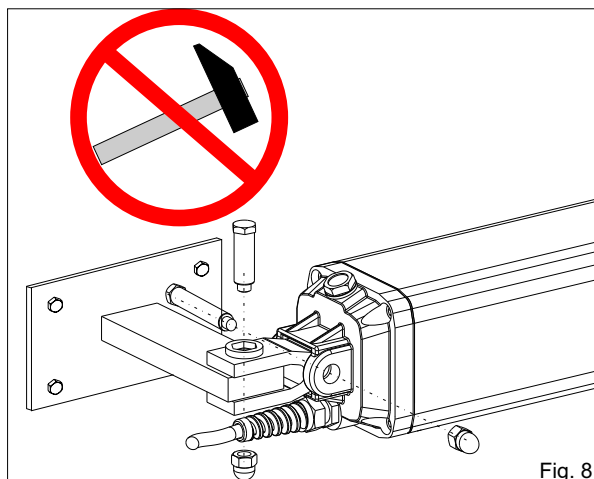


Fig. 8

PRELIMINAIRES

- Ouvrir soigneusement l'emballage, faisant attention de ne pas perdre les composants reportés dans fig. 3.
- Fixer la fourche oscillante comme dans fig.9

Attention: ne pas utiliser le marteau pour insérer le pivot en laiton court; insérer le pivot dans la fourche et dans la bride avec la simple pression des mains

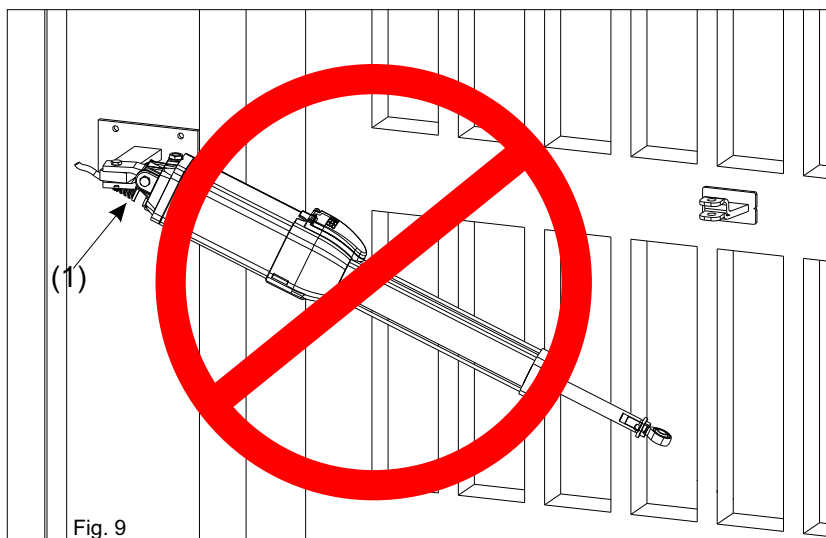


Fig. 9

Attention:

Ne pas incliner l'opérateur hydraulique outre l'angle permis par la fourche oscillante (1), risque de rupture de la même.

INSTALLATION ATTAQUE POSTERIEUR

Selon le type d'ouverture (intérieure ou extérieure) et la rotation maxie du vantail choisie (voir pag.5), il faut couper (en avant) la bride en respectant le quota "a" de pag. 5 et après souder comme dans fig. 10.

Le support doit être positionné de façon que l'opérateur est parfaitement horizontal (Fig. 10 ,Fig.12).

Attaque postérieur réglable (avec vis)
(Accessoire sur demande)

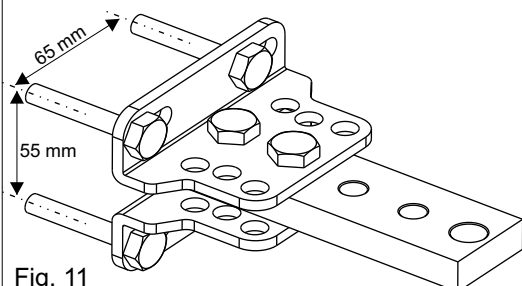


Fig. 11

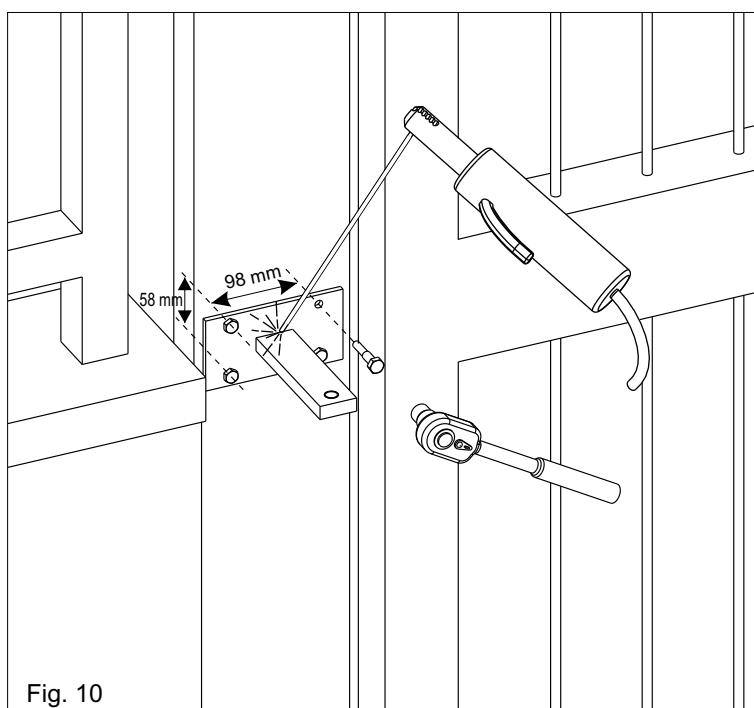


Fig. 10

POSITIONNEMENT ATTAQUE ANTERIEUR

Après avoir fixé l'opérateur sur l'attaque postérieur fermer le vantail et exécuter le suivantes opérations:

- 1) Déverrouiller l'opérateur (comme dans Fig. 23 pag. 11)
- 2) Sortir complètement la tige chromée, **après la rentrer d'au moins 1 cm.**
- 3) Fixer la tige sur l'attaque antérieur (Fig. 13)
- 4) Positionner l'opérateur de façon parfaitement horizontal donc marquer la position de l'attaque antérieur (Fig. 12)

Attention: éviter de souder l'attaque antérieur avec la tige de l'opérateur hydraulique déjà fixée: Les déchets de soudure pourraient compromettre le chromage de la tige.

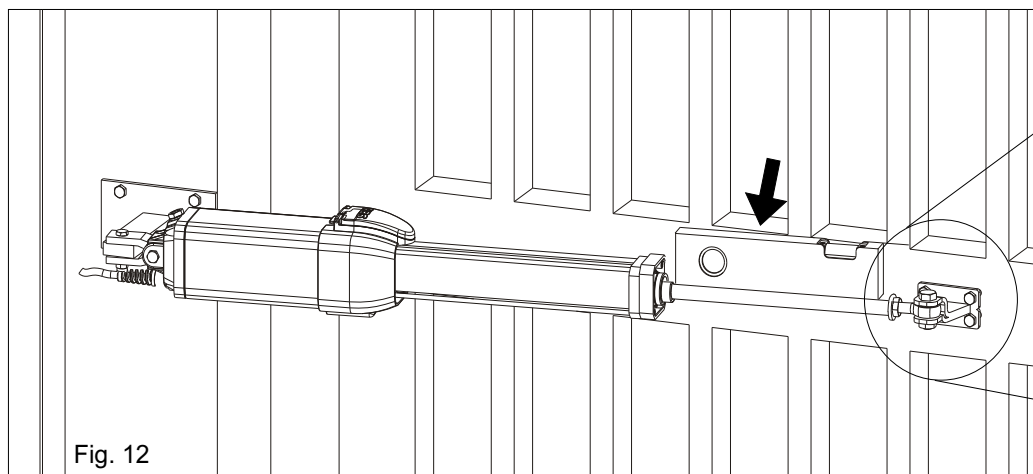


Fig. 12

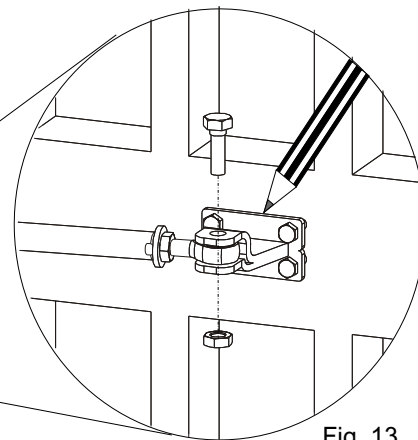


Fig. 13

SOUDURE DE L'ATTAQUE ANTERIEUR AU PORTAIL

L'attaque antérieur doit être positionné parfaitement horizontal.

Selon la nature du portail (bois, fer, aluminium) l'attaque antérieur peut être soudé ou vissé.

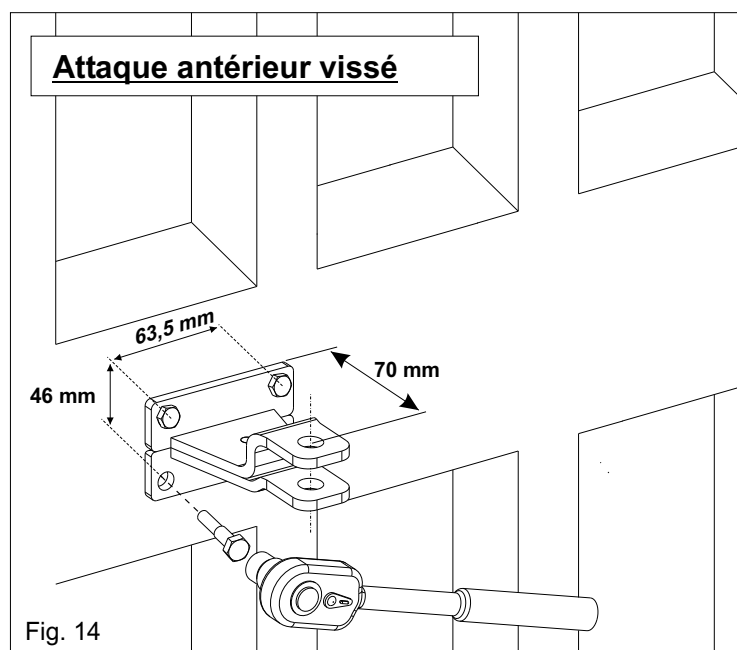


Fig. 14

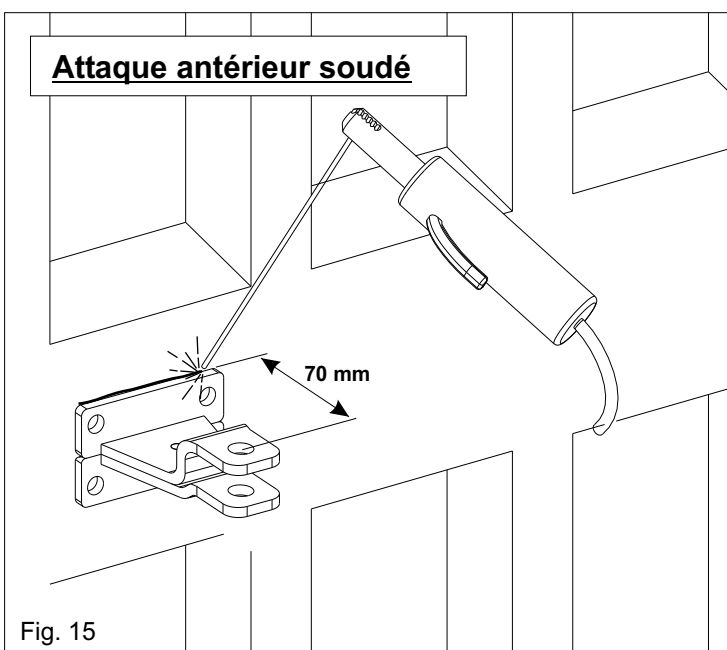


Fig. 15

INSTALLATION DES FEUILLURES FIN DE COURSE (Accessoires sur demande)

- Déverrouiller (comme dans Fig. 23 page 10)
- Faire sortir la tige de 3/4 de son course
- Mettre les feuillures de fin de course sur la bride antérieure de l'ensemble avec les deux tirants (des trois présents sur la feuillure) qui se trouvent en parallèle au portail (Fig. 16)
- Fixer les feuillures avec les vis inclus dans l'emballage.
- A ce point accrocher la tige à l'attaque antérieur
- Régler la feuillure en ouverture sur le disque 1 et celle-ci en fermeture sur le disque 2.

Attention : le montage des feuillures mécaniques ne cause pas la diminution de la course de la tige

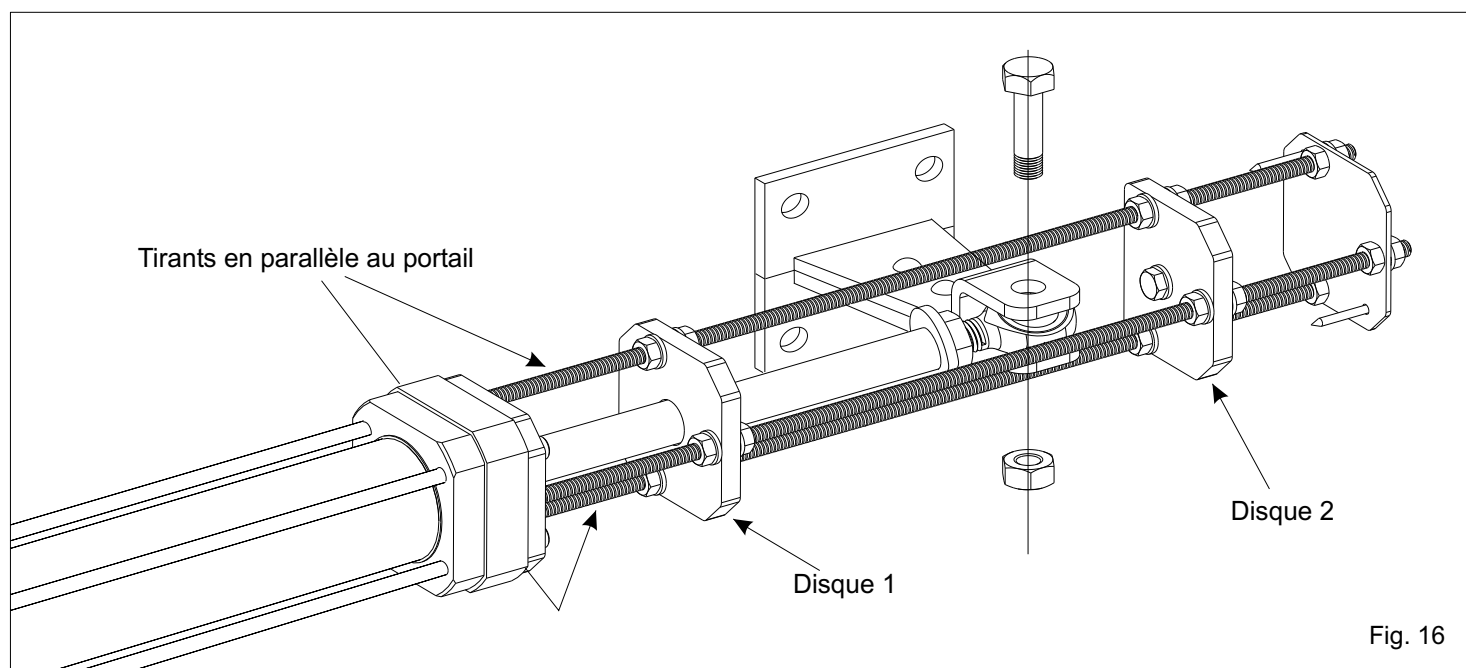


Fig. 16

VIS DE PURGE

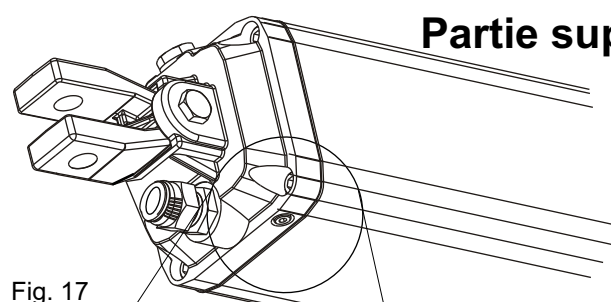


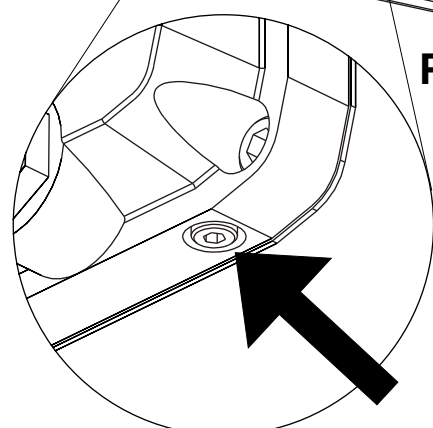
Fig. 17

Partie supérieure

ATTENTION



Enlever les vis de purge à installation terminée.



Partie inférieure



Dévisser et enlever à installation terminée

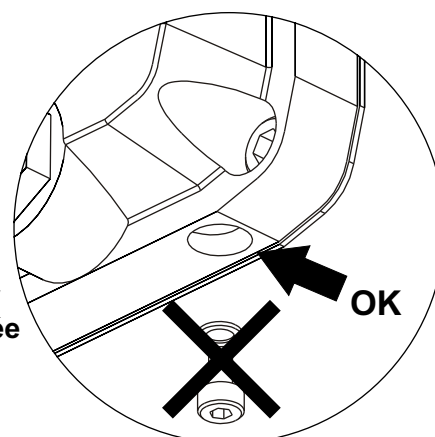


Fig. 18



INSTALLATION DE LA PROTECTION DE LA TIGE CHROMÉE

S'assurer d'avoir inséré le cadre en plastique anti-vibration (A) avant d'insérer le couvre tige extrusé (Fig. 19).

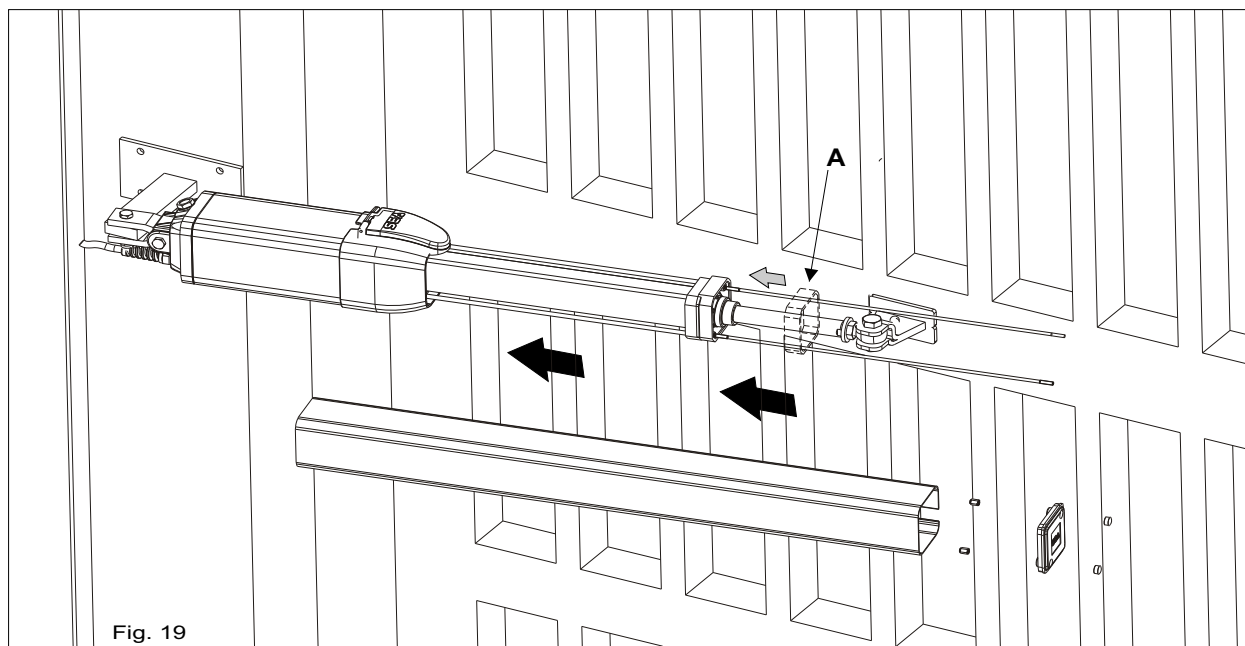


Fig. 19

REGLAGE COUPLE (Valves By-Pass Valves)

A la première installation il ne faut pas encore insérer le couvercle du déverrouillage et le couvercle by-pass. Dans ce cas là faire référence aux fig. 20 et 22.

En cas de réglage des valves by-pass, (exécuté en second lieu) à cause des entretiens périodiques ou d'autre il faut enlever la vis que bloque le couvre by-pass (fig. 21), enlever le couvre by-pass et régler donc la pression des valves by-pass avec la clef spéciale (Fig. 22) on dotation seulement pour l'installateur.

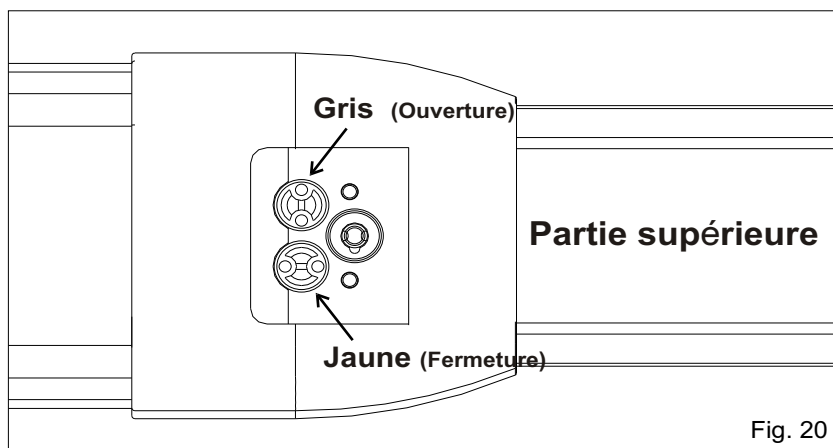


Fig. 20

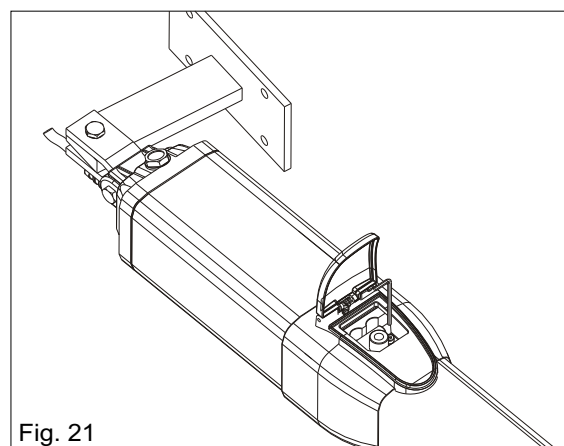
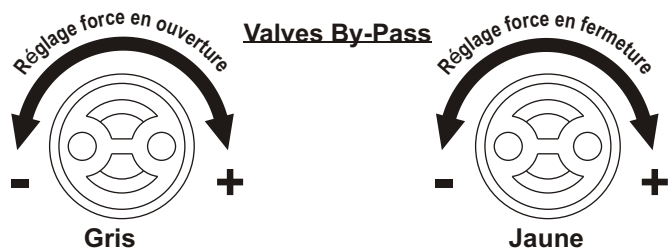


Fig. 21



Régler la force du portail en ouverture et en fermeture respectant le diagramme de la force (présente dans la norme EN 12453); la force de poussée ne doit jamais dépasser les 15KgF.

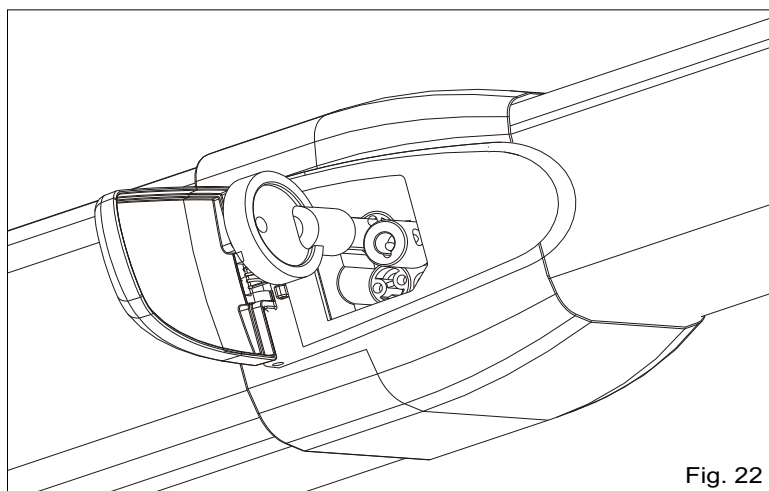


Fig. 22

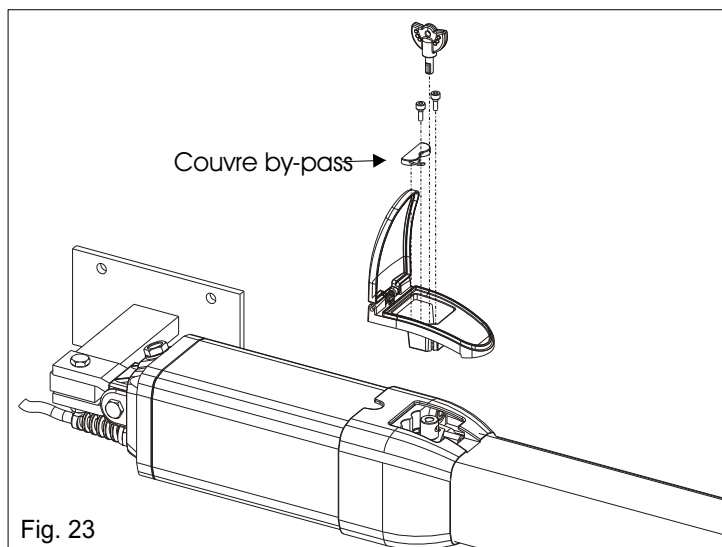


Fig. 23

MONTAGE DU DEVERROUILLAGE EN PLASTIQUE

ATTENTION: Le montage du déverrouillage en plastique doit être effectué comme indiqué dans fig. 23 seul et uniquement après avoir terminés toutes les opérations d'installation, le montage du couvre tige et le tarage des valves by-pass.

MONTAGE DU DEVERROUILLAGE EN ALUMINIUM AVEC CLEF (accessoire sur demande)

ATTENTION: Le montage du déverrouillage en aluminium doit être effectué comme indique dans fig. 24 seul et uniquement après avoir terminé toutes les opérations d'installation et montage du couvre tige et du tarage des valves by-pass.

La clef de déverrouillage se trouve à l'intérieur du couvercle du déverrouillage en aluminium (voir fig.25)

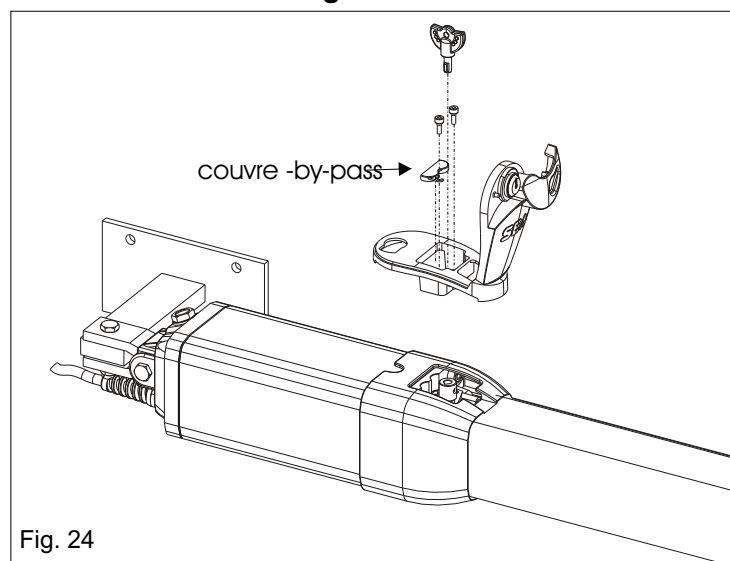


Fig. 24

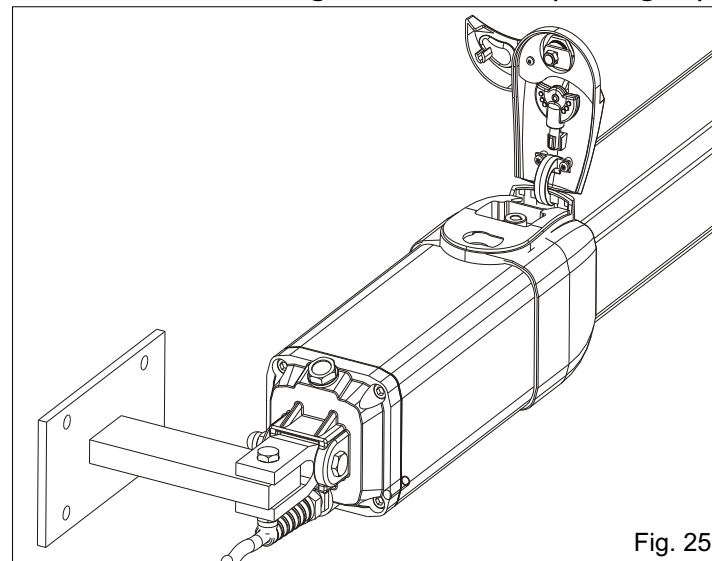


Fig. 25

MONTAGE DU DEVERROUILLAGE EXTERIEUR (accessoire sur demande)

ATTENTION: Il faut exécuter le montage du déverrouillage extérieur comme indiqué dans les fig. 26 et 27. Pour plusieurs détails faire référence aux instructions de montage dans le "Kit Montage Déverrouillage Extérieur" pour Half Tank.

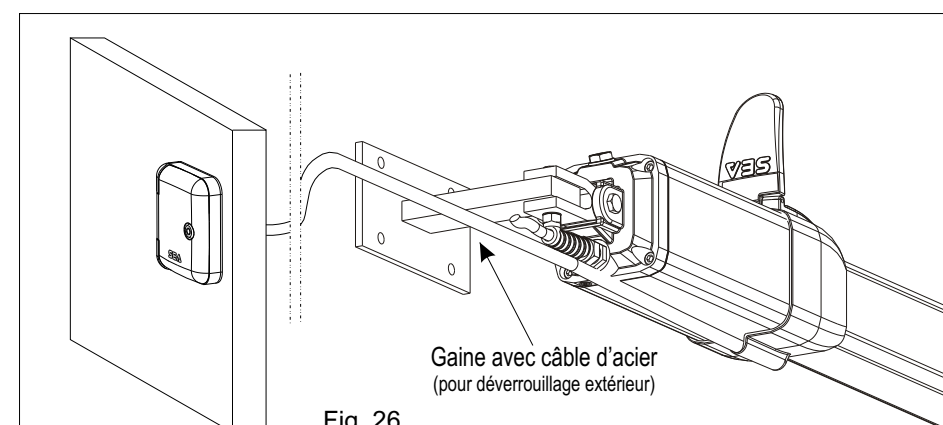


Fig. 26

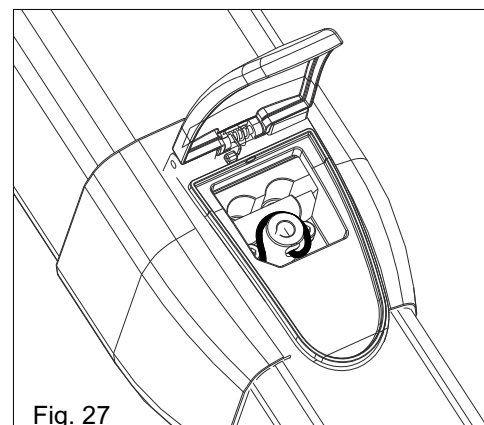


Fig. 27

SYSTEME DE DEVERROUILLAGE

Pour déverrouiller opérer comme suit:

-Insérer la clef et la tourner de 180 ° en sens anti-horaire (Fig.28).

Pour bloquer de nouveau l'opérateur opérer comme suit:

-Insérer la clef et la tourner en sens horaire jusqu'à son arrêt (Fig.28).

Attention: Effectuer le déverrouillage toujours avec énergie électrique déclenchée.

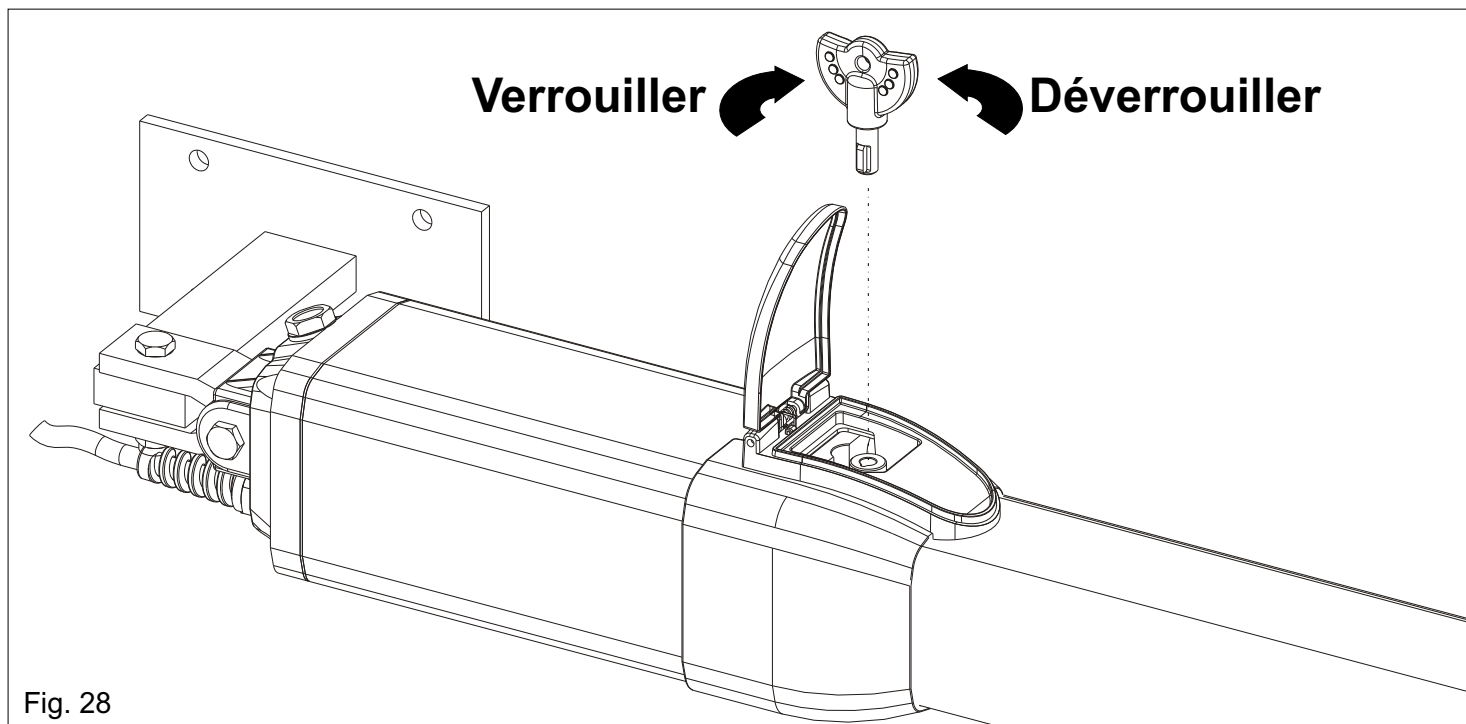


Fig. 28

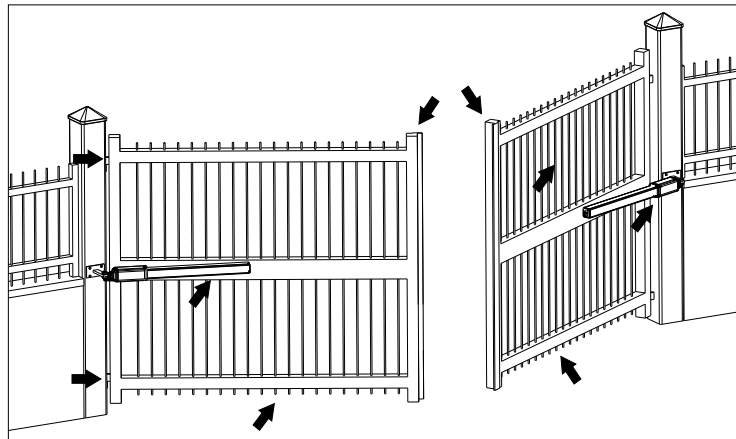
ENTRETIEN PERIODIQUE

1) Contrôler la robustesse et la stabilité du portail, en particulier les points d'appui et/ou de rotation du portail (gonds).	Annuel
2) Contrôler le niveau de l'huile dans les opérateurs hydrauliques/en bain d'huile (Bouchon positionné sur le couvercle postérieur de l'Half Tank)	Annuel
3) Remplacer l'huile hydraulique avec l'huile recommandée par la maison mère	4 Ans
4) Contrôler le fonctionnement du déverrouillage	Annuel
5) Contrôler le fonctionnement des valves by-pass	Annuel
6) Contrôler et graisser les pivots de fixation	Annuel
7) Contrôler l'intégrité des câbles de connexion	Annuel
8) Contrôler le fonctionnement et les conditions des feuillures des fins de course en ouverture et fermeture (là où il y a la feuillure mécanique)	Annuel
9) Contrôler le bon état de tous les appareils qui sont sujet à efforts (attaque postérieur, fourche oscillante et attaque antérieur.)	Annuel
10) Contrôler le bon fonctionnement de tous les accessoires, en particulier des tous les dispositifs de sécurité et du Safety Gate.	Annuel
11) Après avoir exécuté les opérations "d'Entretien Périodique" il faut répéter l'essai et la mise en service de l'automatisme.	Annuel

Toutes les opérations au dessus doivent être exécutées uniquement par un installateur autorisé.

EXAMIN DES RISQUE

Les points dans fig. 38 indiqués par les flèches sont potentiellement dangereux. L'installateur doit exécuter un examen approprié des risques pour prévenir : écrasements, trainements, cisaillements, accrochements et blocages et pour garantir



une installation sûre pour hommes, choses et animaux. Si vous n'avez pas compris ce manuel ou pour recevoir plusieurs informations, veuillez contacter le distributeur de votre pays ou notre service téléphonique. Ces instructions font partie intégrale du produit et doivent être gardées dans un lieu connu. L'installateur doit respecter scrupuleusement les instructions. Les produits SEA doivent être utilisés seul et uniquement pour l'automatisation de portes, portails et vantaux. Quelconque initiative prise sans explicite autorisation de SEA s.r.l. la détourne de toutes les responsabilités. L'installateur doit fournir un panneau d'avertissement à propos des risques résiduels pas évaluables. La SEA s.r.l. dans le constant engagement d'amélioration de ses produits, a le droit d'effectuer n'importe quelle modification sans devoir préavisier ses clients. Ce-ci n'engage pas la SEA s.r.l. D'améliorer les avantures production. La SEA srl décline toutes

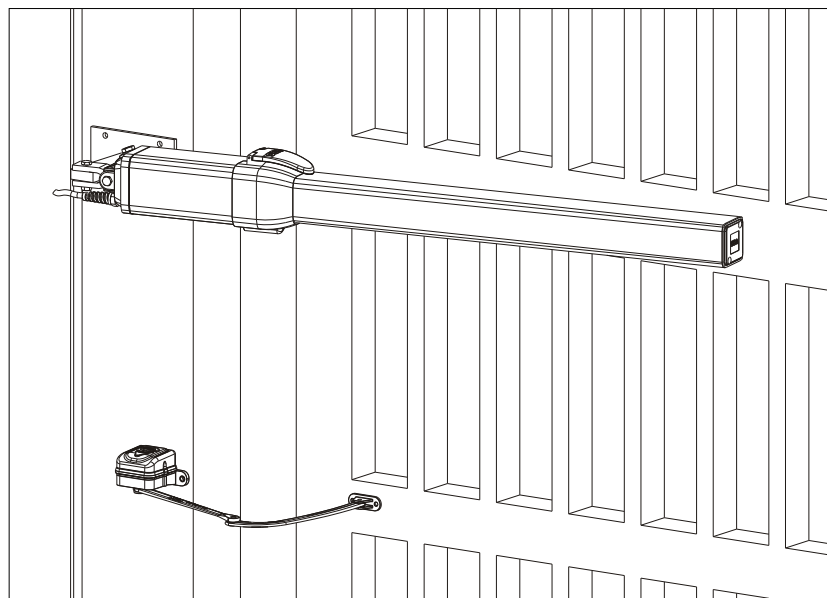
les responsabilités par suite de dommages ou accidents causés par produits cassés, s'il s'agit de dommages ou accidents provoqués à cause de l'inobservance des présentes instructions. La manquée utilisation des pièces de rechange originales SEA invalide la garantie et frappe de nullité la responsabilité du constructeur. L'installation électrique doit être effectuée par un technicien professionnel qui délivre la documentation relative, comme demander par les lois en vigueur. Tenir loin des enfants le matériel d'emballage comme sachets en plastique polystyrène, clous etc. étant des sources de péril potentiel.

VERIFICATION INITIALE ET MISE EN SERVICE

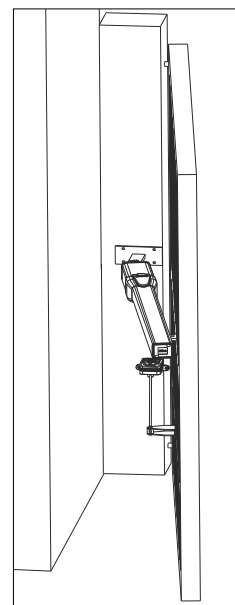
Après avoir installée correctement (selon le présent manuel) le produit HALFTANK, et après avoir évalué tous les risques résiduels que peuvent venir dans quelque installation, **il faut vérifier l'automatisme pour garantir la max. sécurité** en respectant les lois et les normes du secteur. La vérification doit être effectuée selon la norme **EN 12445** contenant les méthodes de preuve pour la vérification des automatismes pour portails respectant les limites formulées dans la norme **EN 12453**.

SAFETY GATE

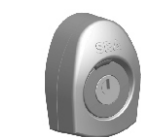
Pour une correcte et sûre installation il est fortement conseillé d'installer un Safety Gate, **que permet de satisfaire le diagramme des forces, présent dans la norme EN 12453** et dépendent de vérifier et de mettre en service l'installation.



NOTA: En cas d'installation comme dans la figure sur la droite il est possible d'utiliser le Safety Gate avec une baguette droite (résolvant comme ça le problème d'encombrement du petit bras (graphique à la gauche).



ACCESSOIRES POUR HALF TANK



POUSOIR A CLEF



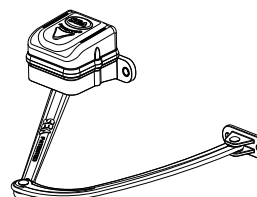
PHOTOCELLULE



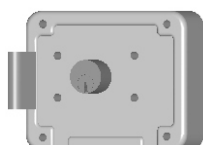
RECEPTEUR RADIO



EMETTEUR RADIO



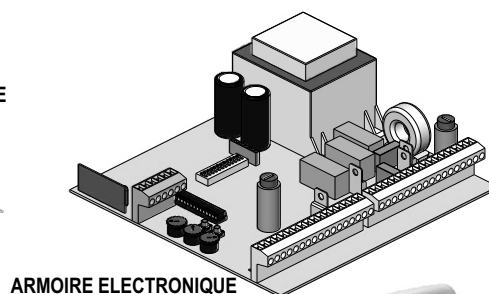
SAFETY GATE



ELECTROSERRURE



LECTEUR
DE SPIRE
MAGNETIQUE
EXTERNE



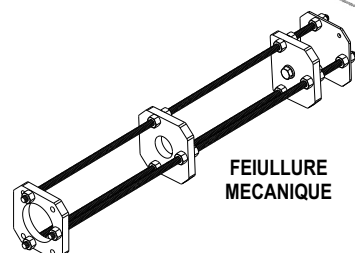
ARMOIRE ELECTRONIQUE
GATE 2



CLIGNOTEUR



COLONNETTE
POUR PHOTOCELLULES



FEIULLURE
MECANIQUE



KIT DEVERROUILLAGE EXTERNE

DECLARATION DE CONFORMITE

SEA déclare sous sa propre responsabilité que le produit

Half Tank dans toutes ses versions

Répondre aux conditions requises essentielles prévues par les suivantes directives européennes et les modifications successives (là où applicable):

98/37/CE (Directives Machines)

89/336/CEE (Directive Compatibilité Electromagnetique)

73/23/CEE (Directive Basse Tension)

AVERTISSEMENT :

L'installation électrique et la choix de la logique de fonctionnement doivent respecter les normatives en vigueur. Il faut prévoir dans tous les cas un interrupteur différentiel de 16A et souille 0,030A. Tenir séparés les câbles de puissance (moteurs, alimentation) et les câbles des accessoires (poussoirs, photocellules, radio etc.) Pour éviter des interférences il est conseillé de prévoir et d'utiliser deux gaines séparées.

USAGE

Le Half Tank peut être utilisé uniquement pour l'automatisation de portails à battants.

PIÈCES DE RECHANGE

Adresser les demandes de pièces de rechange à :

SEA S.r.l. Zona Industriale S. Atto Teramo Italie

SÉCURITÉ ET COMPATIBILITÉ ENVIRONNEMENT

Ne pas disperser dans l'environnement le matériel d'emballage du produit et/ou des circuits.

Le déplacement du produit doit être effectué avec des moyens appropriés

GARANTIE

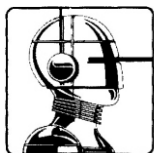
La garantie de l'opérateur Half Tank est de 36 mois à partir de la date imprimée sur le produit. Le moteur sera reconnu en garantie s'il ne présente pas des dommages causés par l'usage impropre ou par n'importe quelle modification ou manumission.

MISE HORS SERVICE ET ENTRETIEN

Le démontage et/ou mise hors service et/ou entretien de l'opérateur Half Tank doit être exécuté seul et exclusivement par le personnel autorisé et expert.

N.B. Le constructeur ne peut pas être considéré responsable des dommages éventuels à cause des usages impropres, erronés et irraisonnables.

SEA se réserve le droit d'effectuer (si nécessaire) des modifications ou variations aux propres produits et/ou au présente manuel sans aucune obligation de préavis.



SEA®

Sistemi elettronici
di Aperture Porte e Cancelli

Español

ACTUADOR OLEODINAMICO PARA CANCELAS BATIENTES

HALF TANK



MANUAL DE INSTALACION e informaciones sobre la seguridad

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

CARACTERISTICAS Y ESPECIFICAS el producto **HALF TANK 100** y **HALF TANK 200** es un actuador oleodinamico de gran calidad para uso condominial para cancelas con antas de longitud max respectivamente 6 m. Y 7 m. Con electrocerradura. Disponible en las siguientes versiones:

AC (con bloqueo en apertura y cierre)

SC (con bloqueo solo en cierre)

SA (con bloqueo solo en apertura)

SB (sin bloqueo)

El bloqueo viene garantizado en las antas con longitud inferior a 1,80 m. para l'Half Tank 100 mientras viene garantizado hasta 2,20 m. Para Half Tank 200. Para antas con longitud superior respectivamente a 1,80 m. y 2,20 m. Es aconsejado, en todas las versiones, el uso de una electrocerradura. El producto Half Tank 100 y 200 poseen de las valvulas by-pass para la regulacion de la fuerza ya sea en apertura como en cierre. La frenada es regulable electronicamente en apertura y cierre con la tarjeta GATE 2. Para las normas y directivas vigentes hoy en Europa es fuertemente aconsejado el uso del Safety Gate (dispositivo para la lectura de la posicion de la cancela), necesario para permitir la inversion del anta en caso de obstaculo

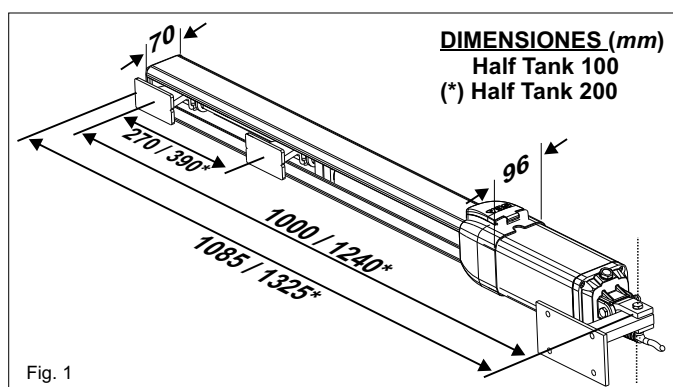
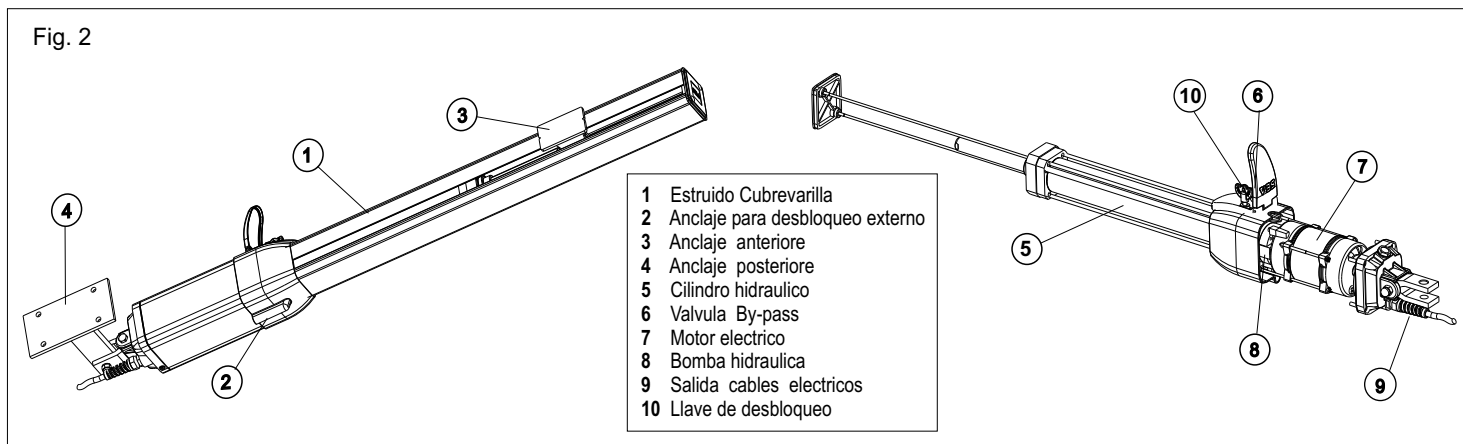
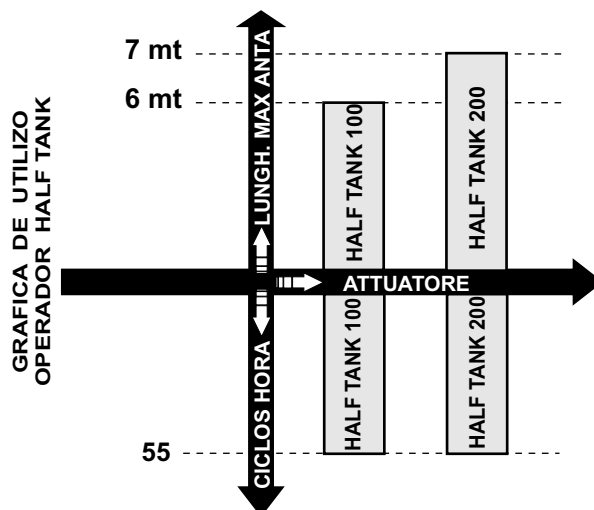
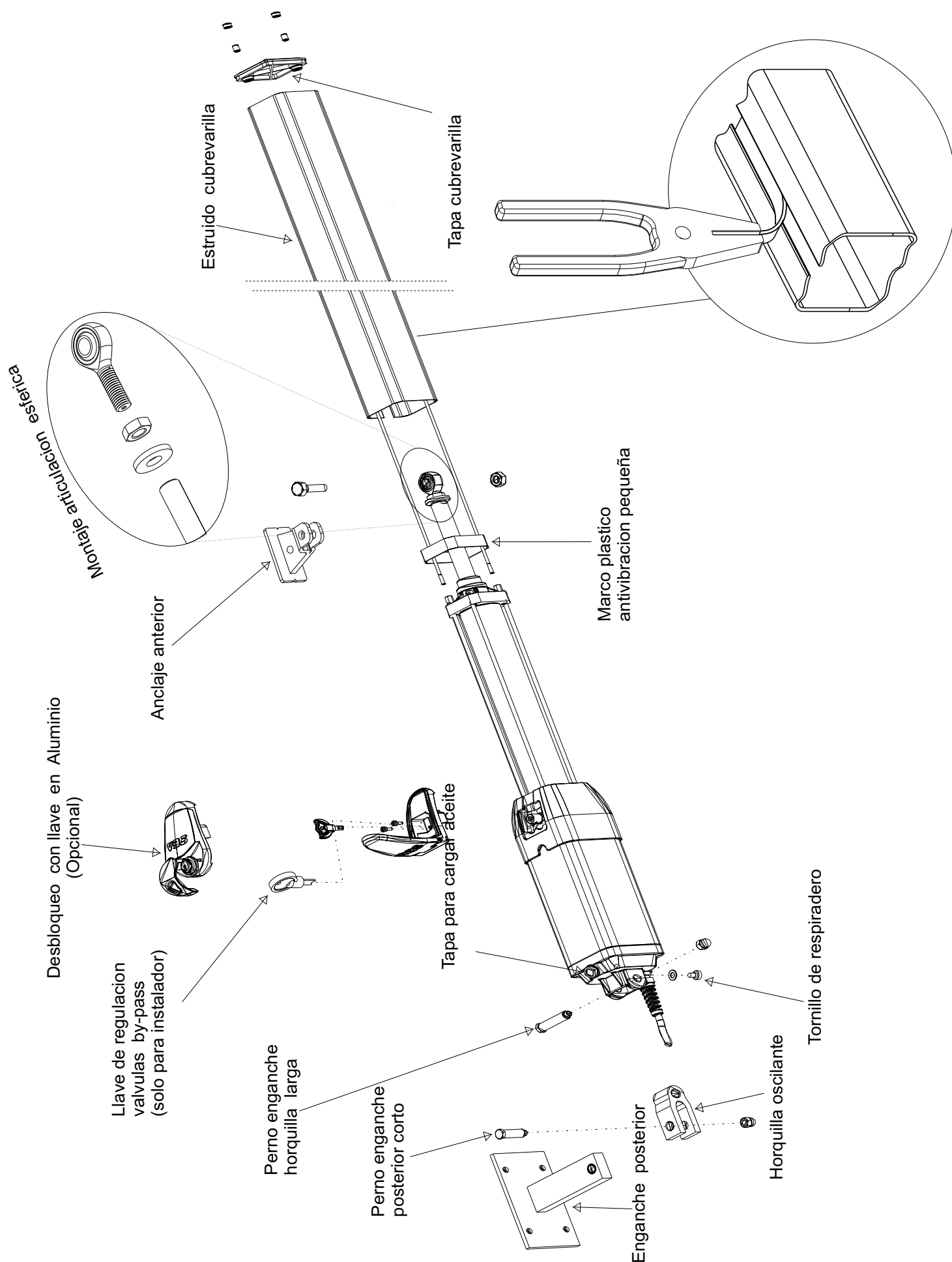


Fig. 1



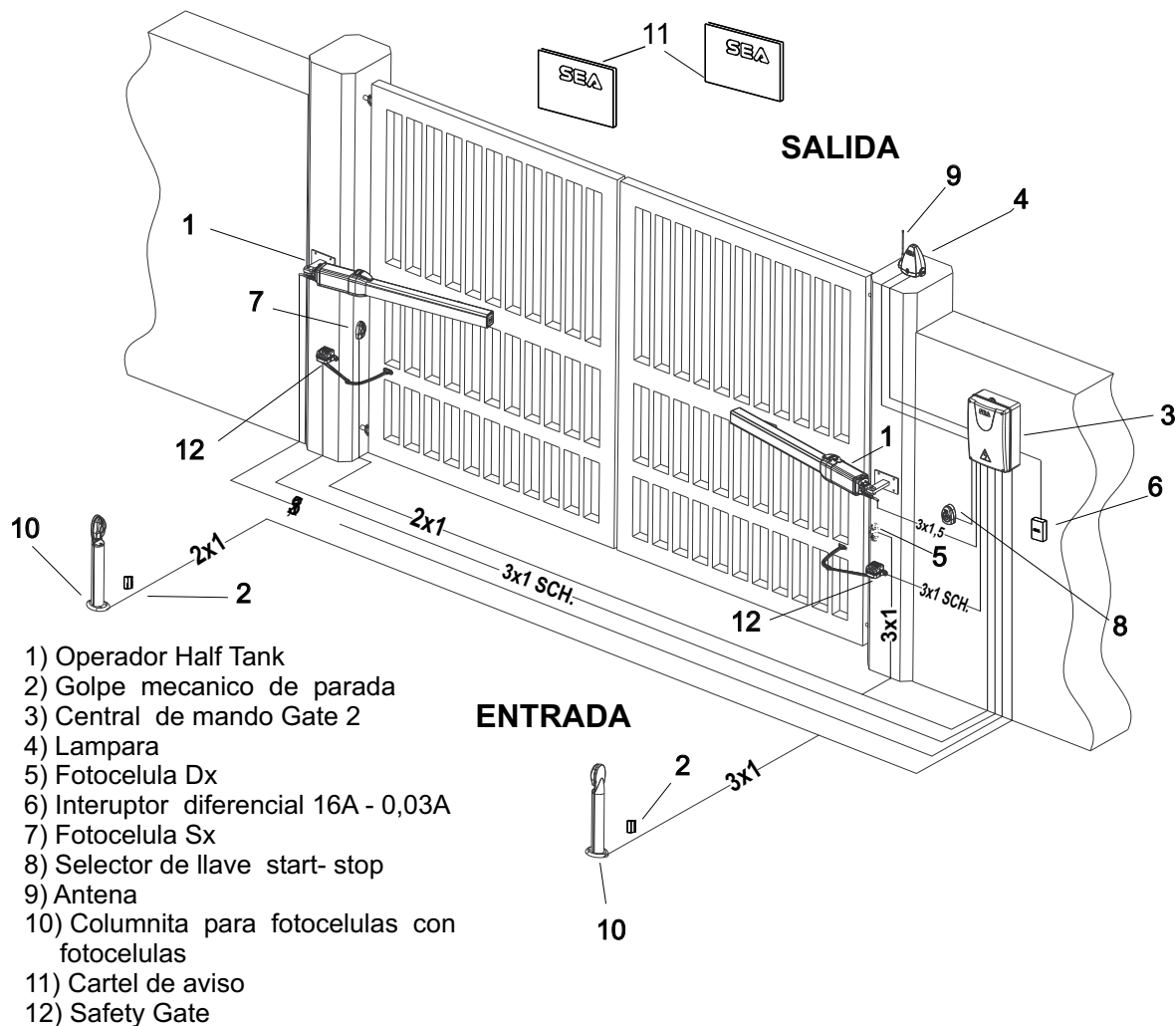
CARACTERISTICAS TECNICAS	HALF TANK 100	HALF TANK 200
Alimentacion	230 V (±5%) 50/60 Hz	
Potencia	220 W	
Corriente absorbida	1 A	
Carrera de la varilla	270 mm	390 mm
Ciclos/hora (temp. de 20°C)	55	
Max presion de trabajo	40 bar	30 bar
Temperatura de trabajo	-40°C +60°C	
Termo-proteccion motor	130°C	
Max empuje	640 daN	470 da N
Condensador	12,5uF	
Peso	11,4 Kg	13,6 Kg
Grado de proteccion	Ip55	
Longitud max. Del anta	6 mt	7 mt
Grados de apertura del anta	90° - 125°	







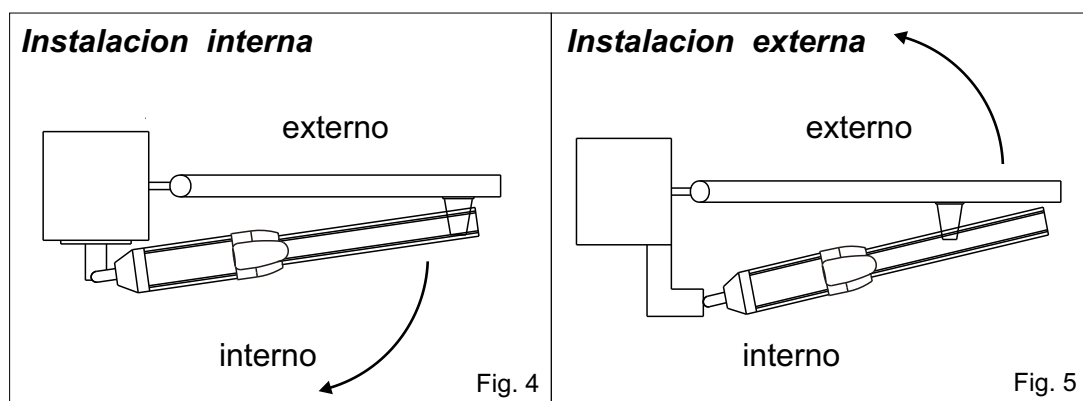
INSTALACION TIPICA



- 1) Operador Half Tank
- 2) Golpe mecanico de parada
- 3) Central de mando Gate 2
- 4) Lampara
- 5) Focelula Dx
- 6) Interruptor diferencial 16A - 0,03A
- 7) Focelula Sx
- 8) Selector de llave start- stop
- 9) Antena
- 10) Columnita para fotocelulas con fotocelulas
- 11) Cartel de aviso
- 12) Safety Gate

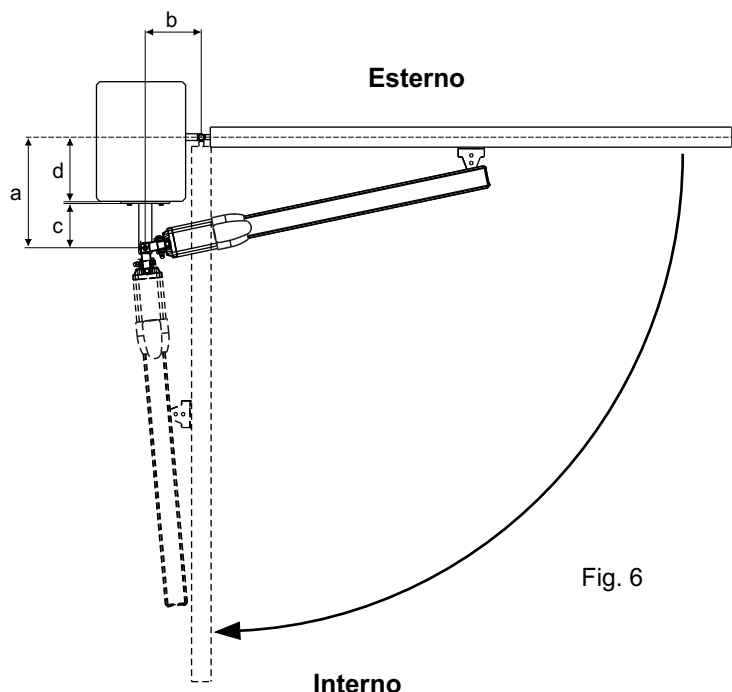
TIPO DE INSTALACION

Es posible instalar el Half Tank con la apertura hacia el interno (Fig. 14) o hacia el externo (Fig. 15).



Instalar el operador siempre al interno de la propiedad

INSTALACION INTERNA

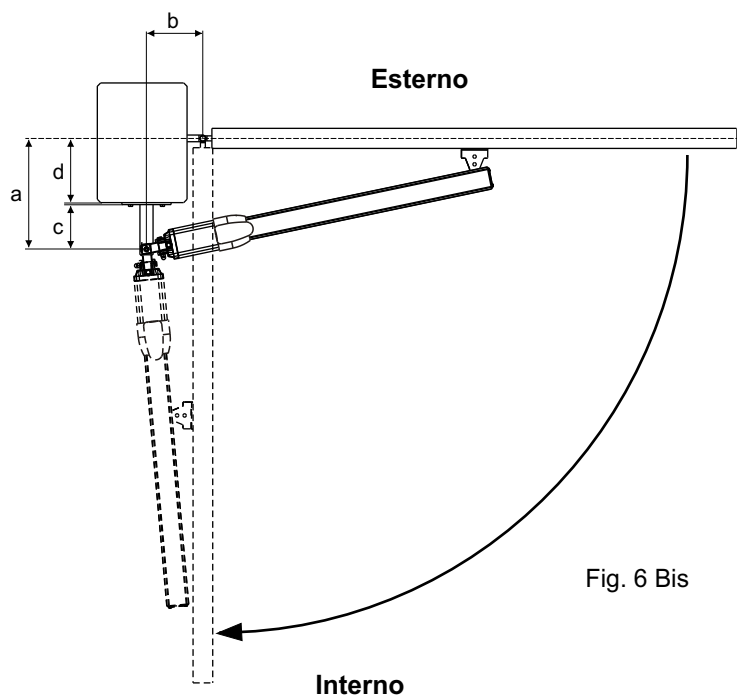


Carrera total 270 mm - carrera max sugerida 250 mm

a (mm)	b (mm)	d _{max} (mm)	Maximo Angulo de apertura	Carrera varrilla max (mm)	Carrera de la varilla para 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	

Para obtener 110° con d > 55 mm se necesita hacer un nencaje en la cancela.

INSTALACION INTERNA

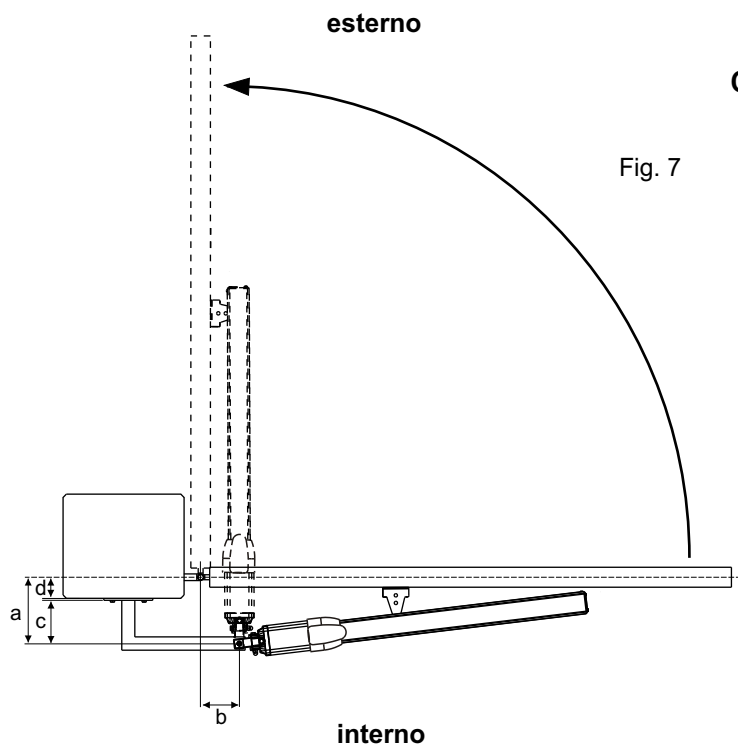


Carrera tota 390 mm - carrera max sugerida 370 mm

a (mm)	b (mm)	d _{max} (mm)	Maxiimo Angulo de apertura	Carrera de la varilla max (mm)	Carrera de la varilla para 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	

Para obtener 125° con d > 55 mm hace falta hacer un encaje en la cancela

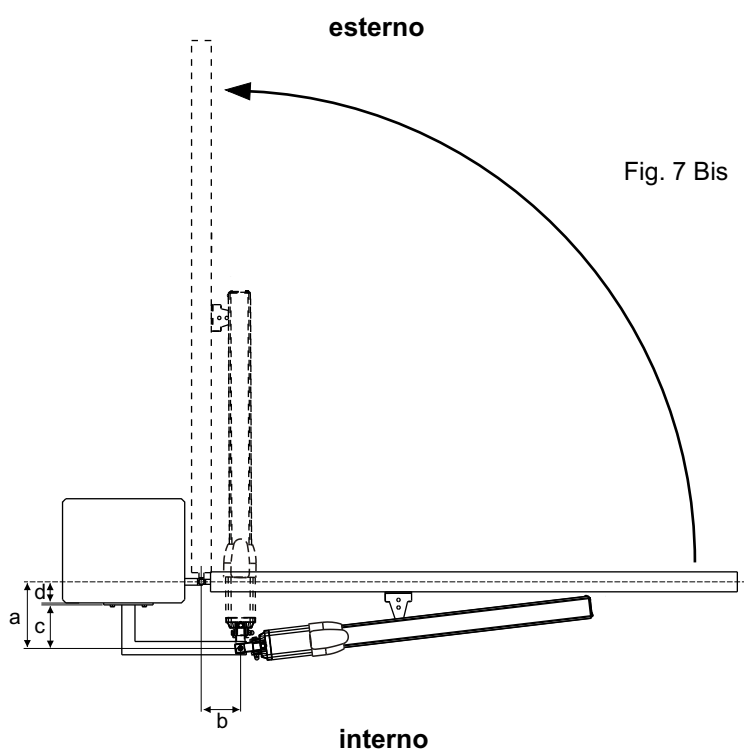
INSTALACION EXTERNA



Carrera total 270 mm - carrera max sugerida 250 mm

a (mm)	b (mm)	Maximo Angulo de apertura	Carrera varilla max (mm)	Carrera varilla para 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	

INSTALACION EXTERNA



Carrera total 390 mm - carrera max sugerida 370 mm

a (mm)	b (mm)	Maximo Angulo de apertura	Carrera varilla max (mm)	Carrera varilla para 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	

INSTALACION HORQUILLA OSCILANTE

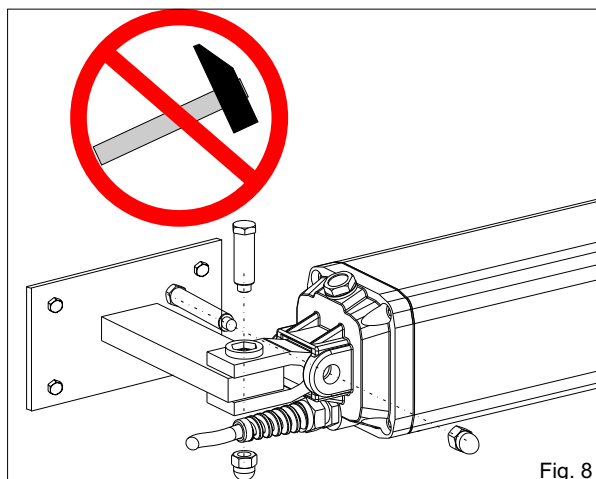


Fig. 8

PRELIMINARES

- Abrir con cuidado el embalaje , haciendo atencion a no perder los componentes que estan aparcan en fig.3
- Fijar la horquilla oscilante como en fig.9

Atencion: no utilizar el martillo para insertar el perno de laton corto; el inserimento del perno en la horquilla y enganche de llevarse a cabo con la simple presion de las manos.

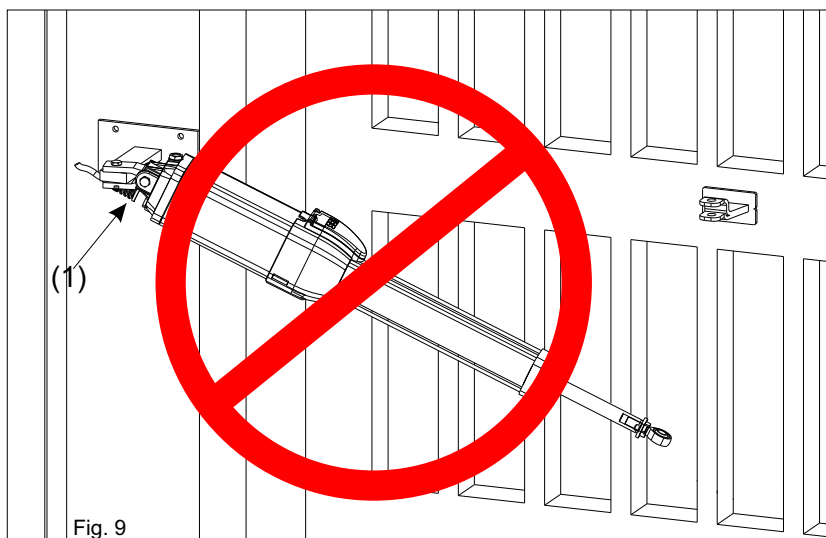


Fig. 9

Atencion:

No inclinar el operador oleodinamico mas alla de la angulacion permitida de la horquilla oscilante (1), pudiera darse la posible ruptura de la misma.

INSTALACION ENGANCHE ANTERIOR

en base a la seleccion del tipo de apertura (interna o externa) y en base a la seleccion de la rotacion maxima del anta (ver pag. 5), el enganche debe ser primeramente cortado respetando la cuota "a" de pag.5 y despues soldada como en fig.10.

El soporte debe ser posicionado en modo que el operador resulte perfectamente horizontal (Fig. 10 ,Fig.12).

Enganche posterior regulable
(con toenillos) (Accesorios bajo pedido)

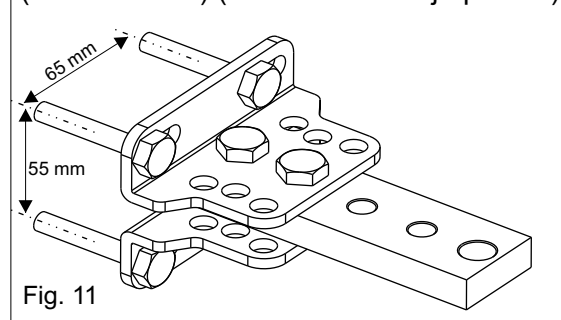


Fig. 11

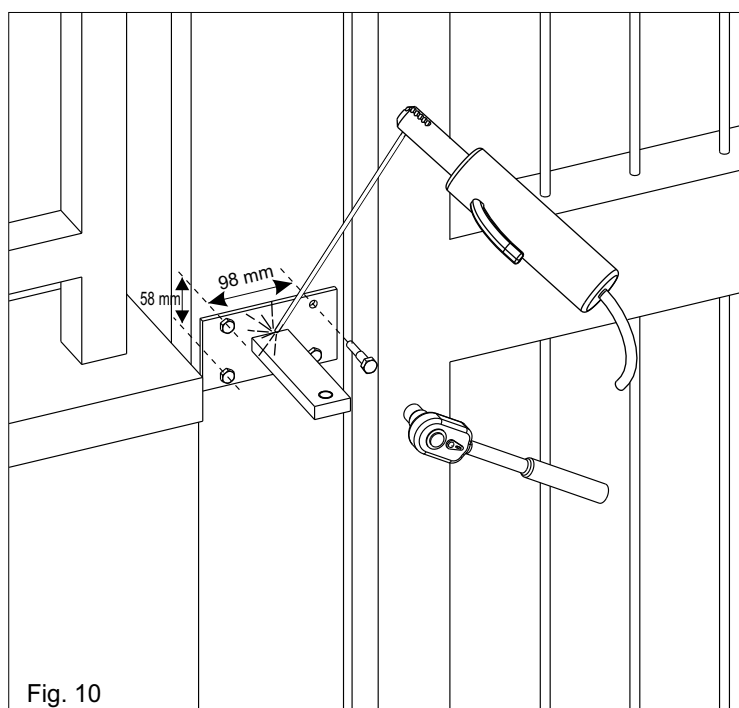


Fig. 10

POSICIONAMIENTO DEL ENGANCHE ANTERIOR

Una vez fijado el operador en el enganche posterior llevar el anta de la cancela en posición de cierre y efectuar las siguientes operaciones:

- 1) Desbloquear el operador (como en Fig. 23 de pag. 11)
- 2) Jalar hacia fuera completamente la varilla cromada, de mínimo **1 cm**
- 3) Fijar la varilla en el enganche anterior (Fig. 13)
- 4) Posicionar el operador en modo que resulte perfectamente horizontal y por tanto señalar la posición del enganche anterior (Fig. 12)

Atencion : evitar de soldar el enganche anterior con la varilla del operador oleodinámico ya fijado; los residuos (salpicaduras) de soldadura podría comprometer la cromadura de la carrera.

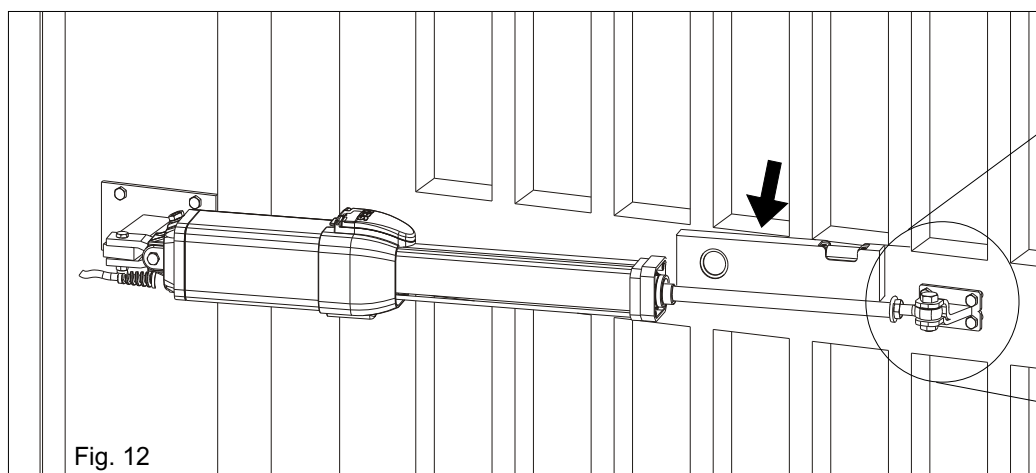


Fig. 12

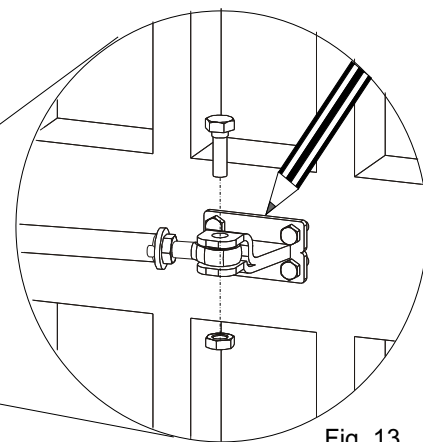


Fig. 13

SOLDADURA DEL ENGANCHE ANTERIOR DE LA CANCELA

El enganche anterior debe ser posicionado de manera tal que el operador resulte perfectamente horizontal.

El enganche anterior en base a la naturaleza de la cancela (madera, hierro, aluminio) puede ser soldado o atornillado.

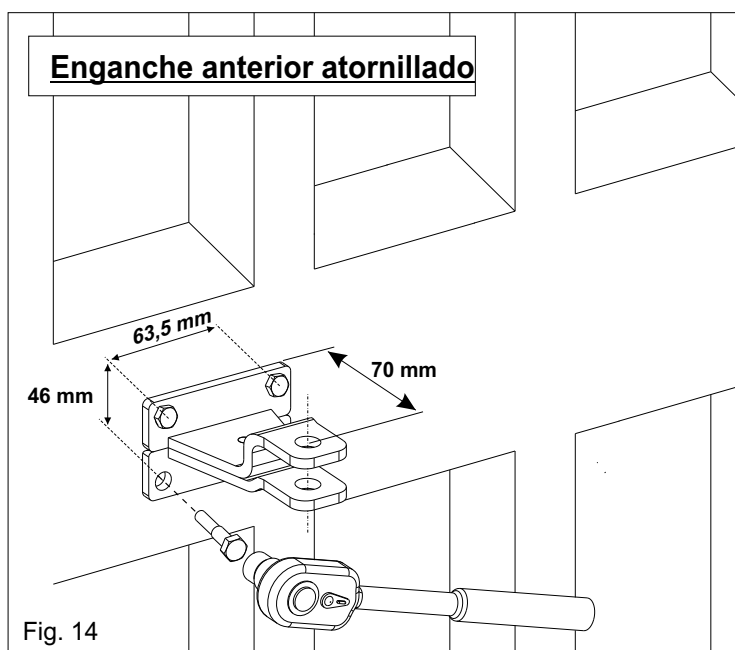


Fig. 14

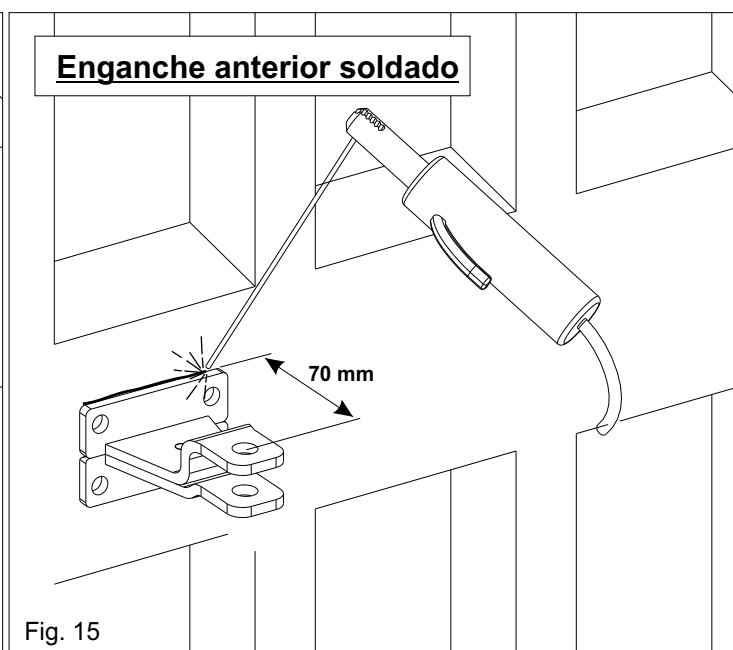


Fig. 15

INSTALACION DEL GOLPE FINAL DE CARRERA (Accessorio bajo pedido)

- Desbloquear la unidad (como en Fig. 23 de pagina 10)
- Hacer salir la carrera de 3/4 de su carrera.
- Colocar el golpe de final de carrera sobre la platina anterior de la unidad con los dos tirantes (de los tres en total presentes en el golpe)que estan en paralelo a la cancela(Fig. 16)
- Fijar los golpes con los tornillos incluidos en la confeccion.
- a este punto enganchar la carrera a el enganche anterior.
- Para regular el golpe en apertura accionar sobre el disco 1, y en cierre sobre el disco 2.

Atencion : el montaje del golpe mecanico no comporta una disminucion de la carrera de la varilla.

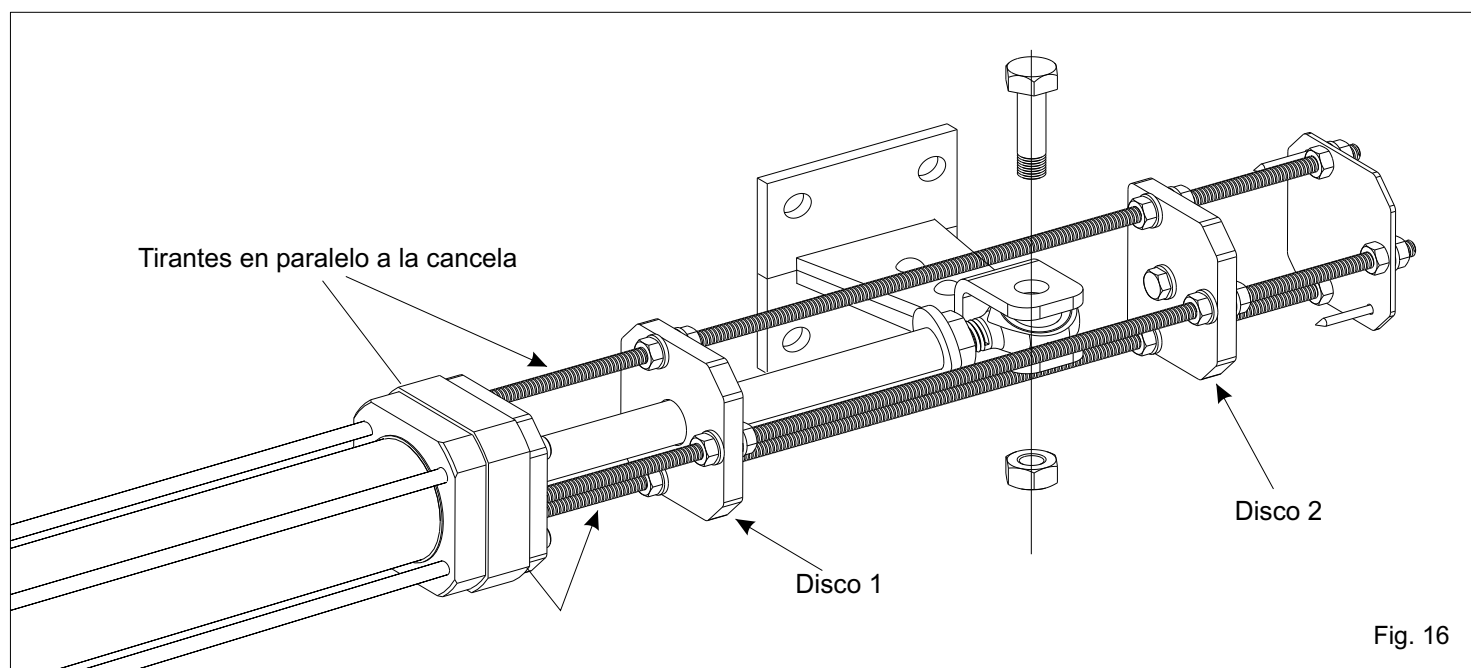


Fig. 16

TORNILLO DE RESPIRADERO

Arriba

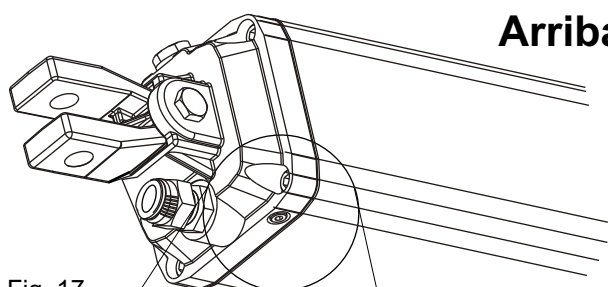
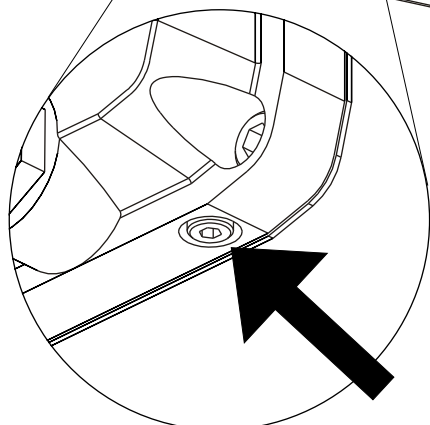


Fig. 17

abajo



ATENCION

Es obligatorio quitar el tornillo a instalacion terminada.



**Desatornillar y
quitar al final
de la instalacion**

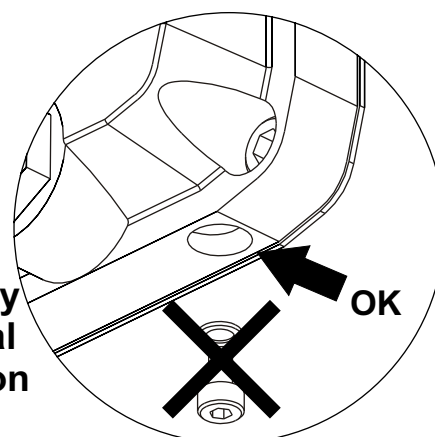


Fig. 18



Instalacion de la proteccion de la varilla cromada

Verificar de haber insertado el marco en plastica antivibracion (A) antes de insertar el estruso cubrevarilla (Fig. 19)

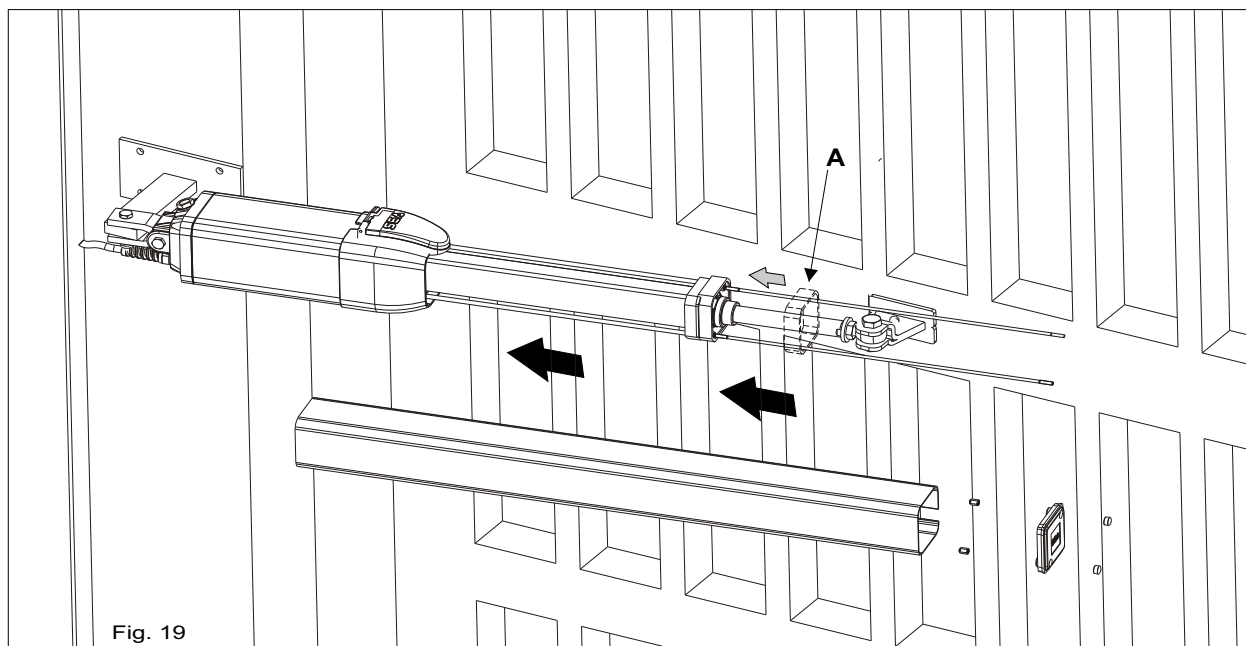


Fig. 19

REGULACION DE LA CUPLA (By-Pass Valvole)

En caso de primera instalacion la tapa del desbloqueo no debe todavia ser insertado asi como el cubre by-pass. Ineste caso hacer referencia a la fig. 20 y fig.22

En caso de regulacion de valvole by-pass, efectuada en un segundo momento, a causa, por ejemplo de mantenimiento periodico u otra quitar el tornillo que bloquea el cubre by-pass (fig. 21), quitar el cubre by-pass y regular por tanto la presion de las valvulas by-pass con la apropiada llave que se da en dotacion solo al instalador (Fig. 22).

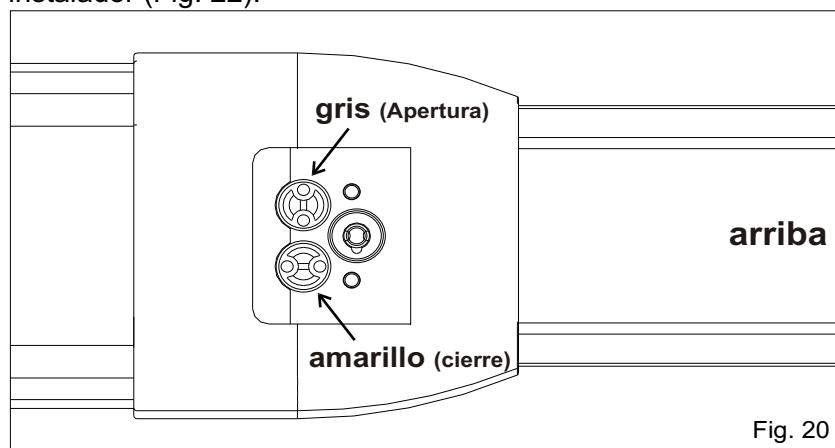


Fig. 20

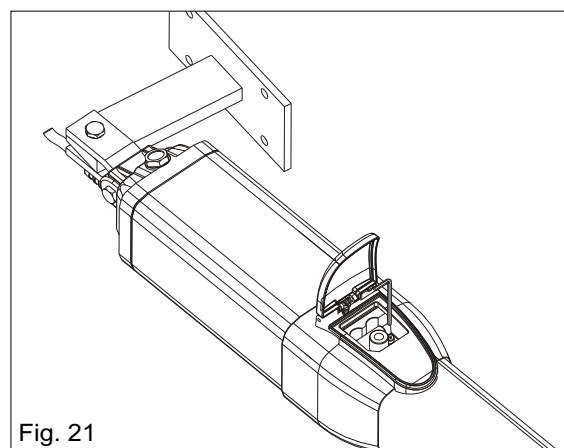
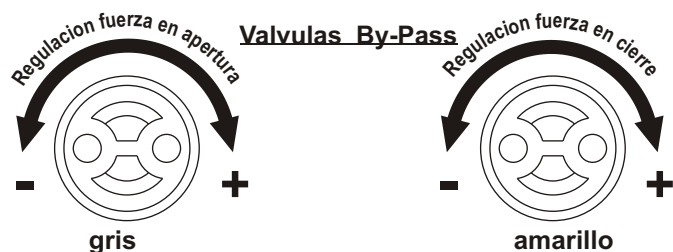


Fig. 21



Regular la fuerza de la cancela en apertura y en cierre in modo de respetar el diagrama de las fuerzas (presente en la norma En12453); la fuerza de empuje de cualquier modo no debe ser jamas superior a los 15KgF.

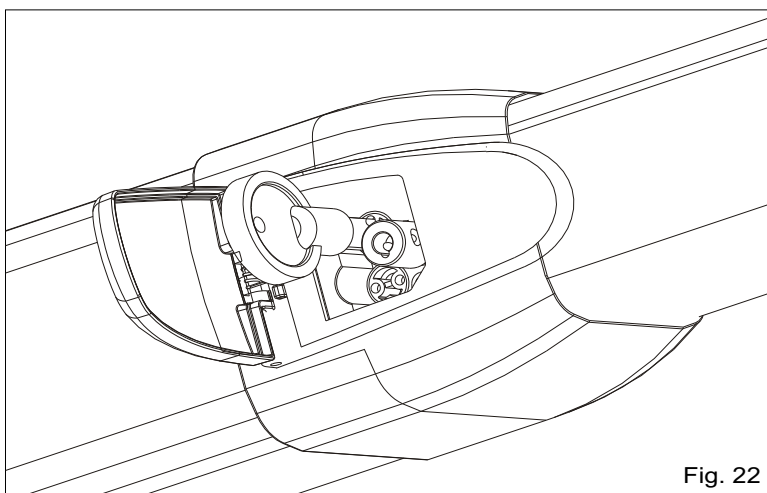


Fig. 22

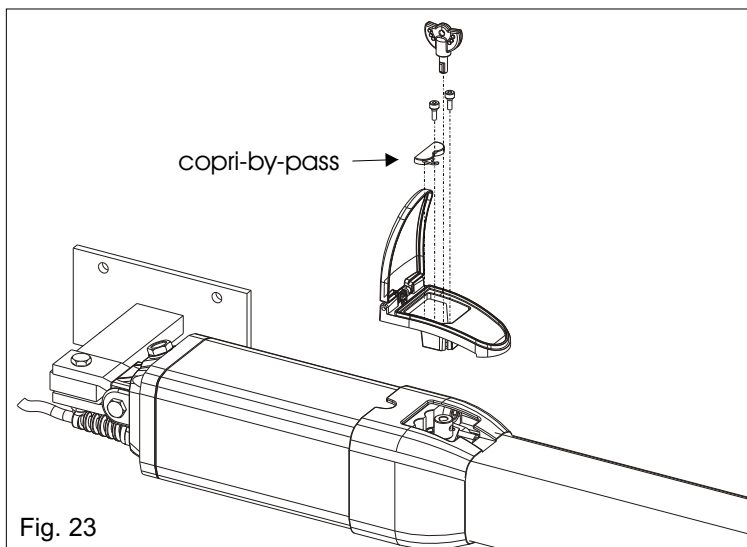


Fig. 23

MONTAJE DE DESBLOQUEO EN PLASTICA

ATENCION : el montaje del desbloqueo en plastica debe ser efectuado en el modo indicado en la figura 23 solo y solo si despues de haber terminado todas las operaciones de instalacion montaje del cubre varilla y de regulacion de las valvulas by pass.

MONTAJE DE DESBLOQUEO EN ALUMINIO CON LLAVE (accessorio bajo pedido)

ATENCION : el montaje del desbloqueo en aluminio debe ser efectuado en el modo indicado en la figura 24 solamente despues de haber terminado todas las operaciones de instalacion de montaje del cubre varilla y de la regulacion de las valvulas by pass.

La llave de desbloqueo viene custodiada al interno de la tapa del desbloqueo en aluminio (vedi fig. 25)

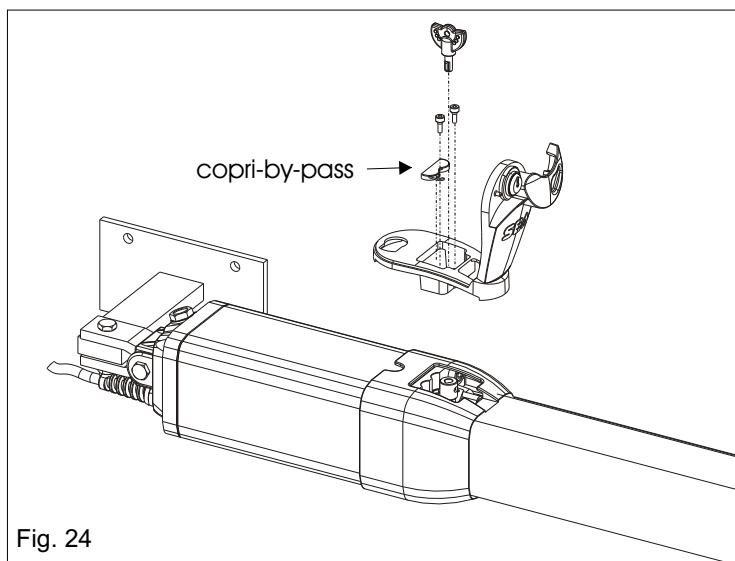


Fig. 24

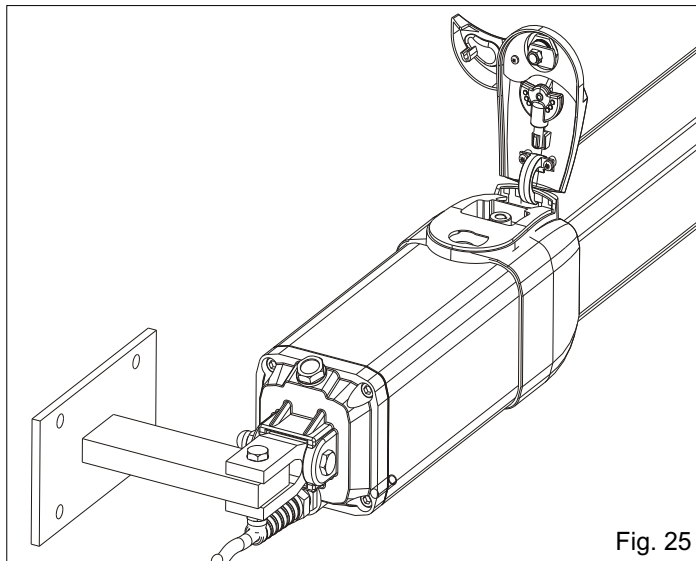


Fig. 25

MONTAJE DE DESBLOQUEO EXTERNO (accessorio bajo pedido)

ATENCION: el montaje de desbloqueo externo debe ser efectuado en el modo indicado en la figura 26 y 27. para mayores detalles hacer referencia a las instrucciones de montaje presentes en el Kit de montaje desbloqueo externo para Half Tank.

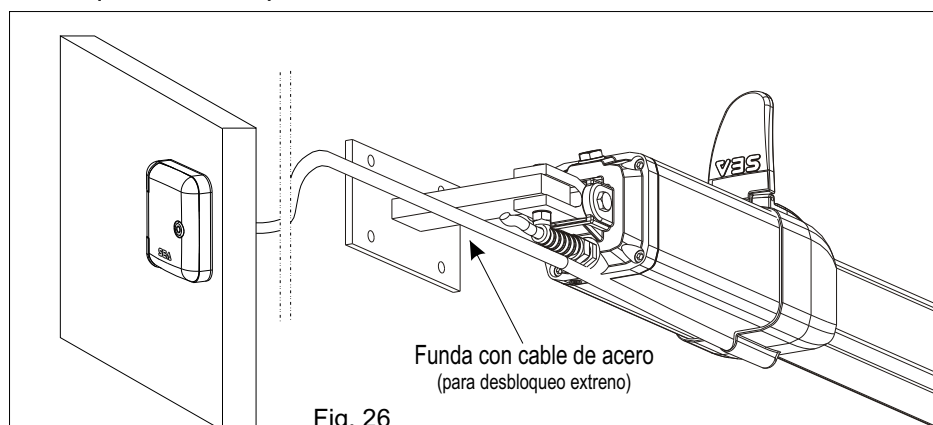


Fig. 26

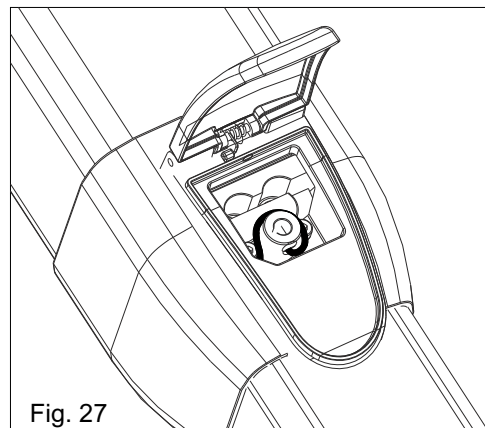


Fig. 27

SISTEMA DE DESBLOQUEO

Para desbloquear operar como sigue:

-Insertar la llave y rotarla en sentido antihorario de 180 grados (Fig.28).

Para desbloquear nuevamente el actuador operar como sigue:

-Insertar la llave y rotarla en sentido horario hasta el cierre (Fig.28).

Atencion : efectuar el desbloqueo siempre en ausencia de alimentacion

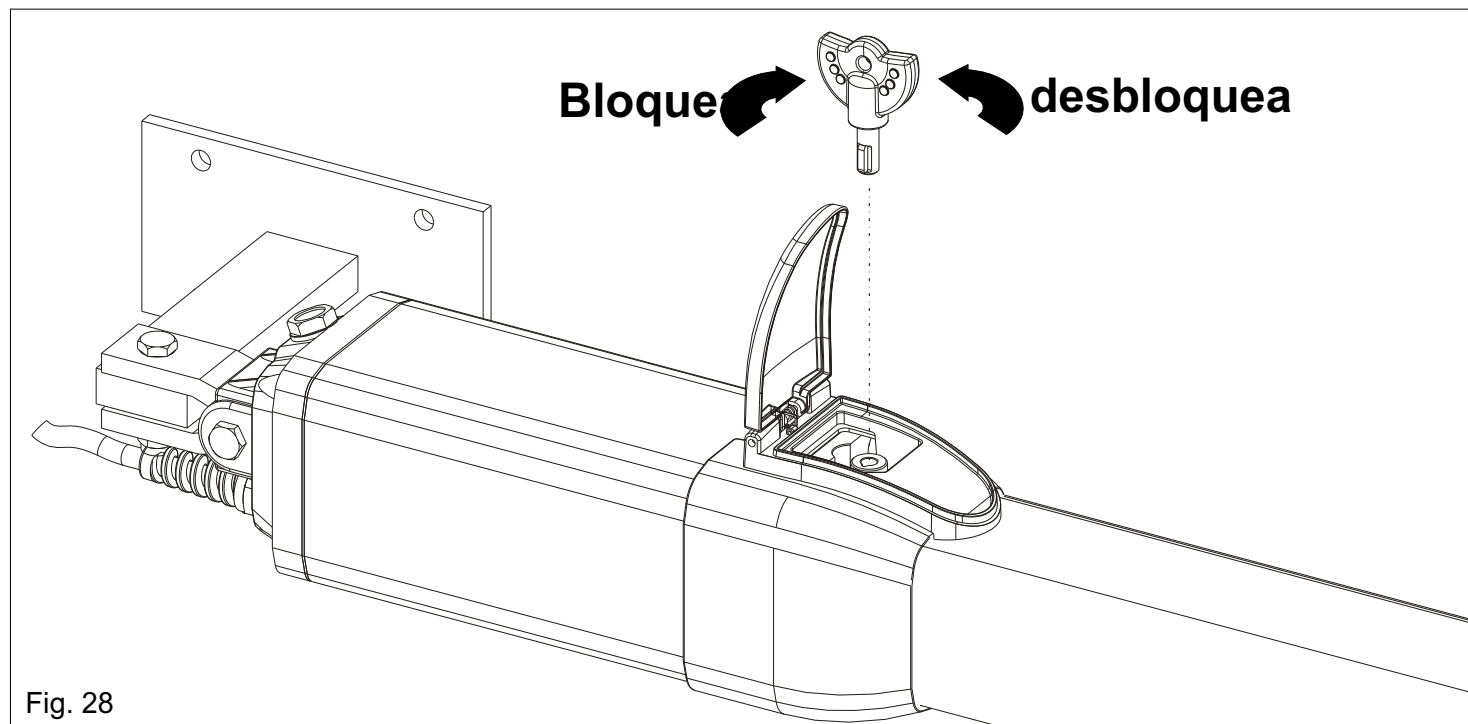


Fig. 28

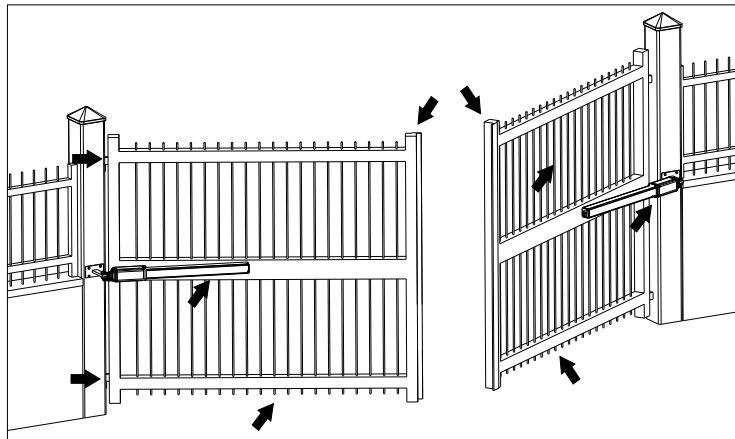
MANTENIMIENTO PERIODICO

1) Controlar la robustez y estabilidad de la cancela, en particular modo i punti di appoggio e/o rotazione del cancello (cardini).	Anual
2) Controlar el nivel de aceite en los operadores oleodinamicos/ en baño de aceite (Tapa posicionada sobre la cubierta posterior del Half Tank)	Anual
3) Sustituir el aceite hidraulico con el aceite recomendado por la casa madre	4 Años
4) Controlar la funcionalidad del desbloqueo	Anual
5) Controlar la funcionalidad de las valvulas by-pass	Anual
6) Controlar y engrasar los pernos de fijacion	Anual
7) Controlar la integridad de los cables de conexion	Anual
8) Controlar la funcionalidad y las condiciones de los golpes de final de carrera en apertura y cierre (donde este presente el accesorio de golpe mecanico)	Anual
9) Controlar el buen estado de todos los aparatos sujetos a esfuerzo (enganche posterior, horquilla oscilante y enganche anterior.)	Anual
10) Controlar la operatividad de todos los accesorios, en particular modo la funcionalidad de todos los dispositivos de seguridad y del Safety Gate.	Anual
11) Despues de haber efectuado las operaciones de Mantenimiento Periodico es necesario repetir la prueba y puesta en servicio del automatismo	Anual

Todas las operaciones de aqui arriba deben ser efectuadas exclusivamente por un instalador autorizado.

EXAMENES DE RIESGO

Los puntos indicados con las flechas en fig. 38 son potencialmente peligrosos. El instalador debe efectuar un examen profundo de los riesgos para prevenir :aplastamientos, arrastamientos, cortes, enganches , atrapamientos y garantizar una instalacion segura a hombres, animales o cosas.



En caso de malentendidos que pudiesen surgir , se aconseja de consultar el distribuidor de zona o tambien de llamarnos . Estas instrucciones son parte integral del dispositivo y deben ser conservadas en un lugar bien conocido. El instalador debe atenerse rigurosamente a las instrucciones . Los productos de la SEA s.r.l. deben ser usados exclusivamente para el automatismo de puertas ,cancelas y antas. Cualquier iniciativa tomada sin explicita autorizacion de la SEA s.r.l. disuade a esta ultima de cualquier responsabilidad . El instalador debe proveer notas de advertimientos para ultteriores riesgos no evaluables . La SEA s.r.l. En su continua finalidad de mejorar los productos, tiene derecho de efectuar cualquier modificacion sin obligo de avisar a los propios clientes .Esto no obliga a la Sea s.r.l de mejorar la produccion pasada. La SEA srl no

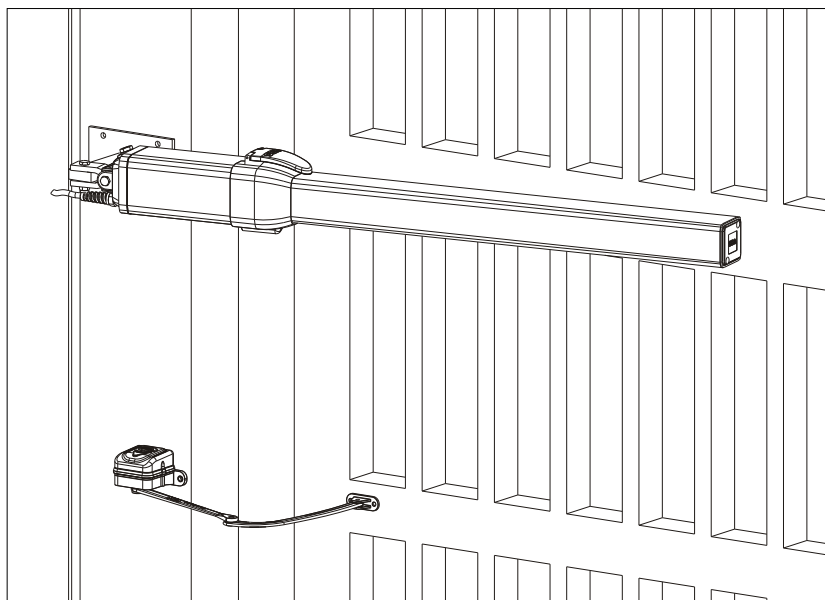
puede ser retenida responsable por cualquier daño o incidente causado de productos rotos ,si se trata de daños o incidentes debido a la no observancia de cuanto reportado en las siguientes instrucciones . La garantia no es valida y la responsabilidad del productor sianula si han sido utilizados piezas de recambio no originales de la SEA srl. La instalacion electrica debe ser efectuada por un tecnico profesional que dejara la relativa documentacion, como solicitado por la ley en vigor. Tener lejos del alcance de los niños de empaques como bolsas plasticas, anime, clavos etc., Siendo potenciales fuentes de peligro..

PRUEBA INICIAL Y PUESTA EN SERVICIO

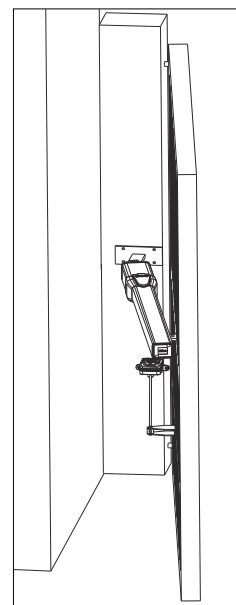
Despues de haber completado las operaciones necesarias, para una correcta instalacion del producto HALFTANK, descritas en el presente manual y haber evaluado todos lo riesgos residuos que puedan surgir en cualquier instalacion , **es necesario probar el automatismo para garantizar la maxima seguridad** y en particular garantizar el respeto por cuanto previsto en las leyes y d e las normas del sector. En particular la prueba debe ser efectuada siguiendo la **norma EN12445** que establece los metodos de prueba para la verificacion de los automatismos para cancelas en el respeto de los limites impuestos por la **norma EN 12453**.

SAFETY GATE

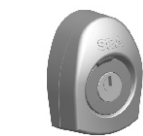
Para una correcta y segura instalacion es aconsejado la instalacion del Safety Gate, **que permite satisfacer satisfacer el diagrama de las fuerzas presentes en la norma EN 12453** y por tanto de la prueba y puesta en servicio de toda la instalacion .



NOTA: en caso de instalacion como en la figura a la derecha es posible utilizar el Safety Gate con astica erguida (resolviendo asi el problema del engombro del brazo (grafico de izquierda))



ACCESORIOS PARA HALF TANK



SELECTOR DE LLAVE



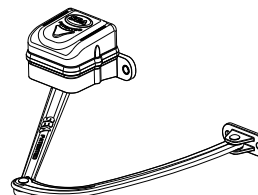
FOTOCELULAS



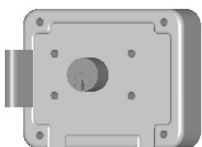
RECEPTOR DE RADIO



MANDO A DISTANCIA



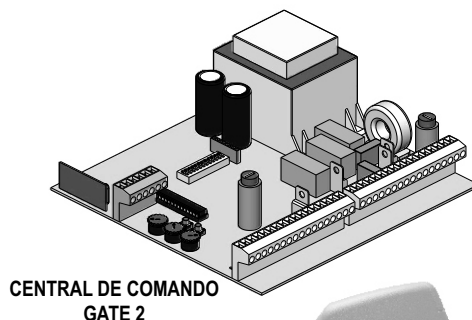
SAFETY GATE



ELECTROCERRADURA



LECTOR
DE ESPIRA
MAGNETICA
EXTERNO



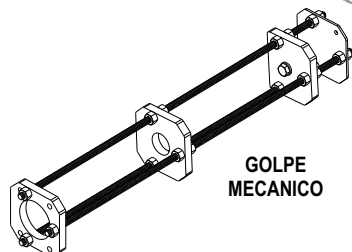
CENTRAL DE COMANDO
GATE 2



LAMPARA



COLUMNA
PARA FOTOCELULA



GOLPE
MECANICO



KIT DESBLOQUEO EXTERNO

DECLARACION DE CONFORMIDAD

La SEA declara bajo la propia responsabilidad que el producto

Half Tank en todas las versiones

Responde a los requisitos esenciales previstos por las siguientes directivas europeas y sucesivas modificaciones (donde son aplicables):

98/37/CE (Directiva maquinas)

89/336/CEE (Directiva compatibilidad electromagnetica)

73/23/CEE (Directiva Baja Tension)

ADVERTENCIA :

La instalacion electrica y seleccion de las logica de funcionamiento deben ser de acuerdo con las normativas vigentes . Prever en cada caso un interruptor diferencial de 16A y umbral 0,030A. Tener separados los cables de potencia (motor, alimentacion) de aquellos de comando (pulsantes, fotocelulas, radio etc.). Para evitar interferencias es preferible prever y utilizar dos fundas separadas

DESTINACION DE USO:

El producto Half Tank en todas sus versiones ha sido proyectado para ser utilizado unicamente para el automatismo de puertas batientes.

REPUESTOS:

Las solicitudes de partes de recambio de la SEA deben ser efectuadas a:

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

SEGURIDAD Y COMPATIBILIDAD AMBIENTAL:

No desperdiciar en el ambiente los materiales de embalaje del producto y/o circuitos.

La movimentacion del producto debe ser efectuada con medios idoneos.

GARANTIA

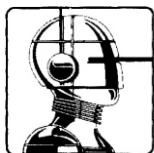
La garantia del producto HALF TANK es de 36 meses a partir de la fecha impresa sobre el producto. Este ultimo sera reconocido en garantia si no presenta daños debidos a un uso inpropio o cualquier modificacion o mal manejo.

PUESTA FUERA DE SERVICIO Y MANTENIMIENTO

La desinstalacion y /o puesta fuera de servicio y/o mantenimiento del producto Half Tank debe ser efectuada solo y exclusivamente por personal autorizado y experto.

N.B. EL CONSTRUCTOR NO PUEDE CONSIDERARSE RESPONSABLE POR EVENTUALES DAÑOS CAUSADOS POR USOS INPROPIOS, ERRONEOS E IRRACIONALES.

La SEA se reserva el derecho de aportar las modificaciones o variaciones que retengan oportunas a los propios productos y/o al presente manual sin algun obligo de preaviso.



SEA[®]

Sistemi elettronici
di Aperture Porte e Cancelli

Deutsch

ÖLDRUCKANTRIEBE FÜR SCHWINGTORE

HALF TANK



INSTALLIERUNGSHANDBUCH und Sicherheitsinformationen

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

EIGENSCHAFTEN UND BESCHREIBUNG

HALF TANK 100 und **HALF TANK 200** sind hochqualitative Öldruckantriebe für Mehrfamilienhäuser, für Flügelängen bis zu respektiven 6 und 7 m mit Elektroschloss.

AC (mit Blockierung in Öffnung und Schliessung)

SC (mit Blockierung nur in Schliessung)

SA (mit Blockierung nur in Öffnung)

SB (ohne Blockierung)

Die Blockierung ist mit dem Half Tank 100 auf Flügelängen unter 1.80m und mit dem Half Tank 200 auf Flügelängen bis 2,20m gewährleistet. Auf allen Flügeln die länger als 1.80 und 2.20m sind, muss in allen Ausführungen, ein Elektroschloss montiert werden.

Die Produkte Half Tank 100 und 200 sind mit Bypass Schrauben für die Krafteinstellung, sowohl in Öffnung, wie in Schliessung ausgestattet. Die Verzögerung ist in Öffnung und in Schliessung elektronisch auf der GATE 2 Steuerung einstellbar. Aufgrund der in Europa geltenden Richtlinien und Normen wird es strengstens empfohlen ein Safety Gate zu benutzen (Vorrichtung zur Aufnahme der Torpostion), das für die Flügelreversierung bei Hindernis notwendig ist.

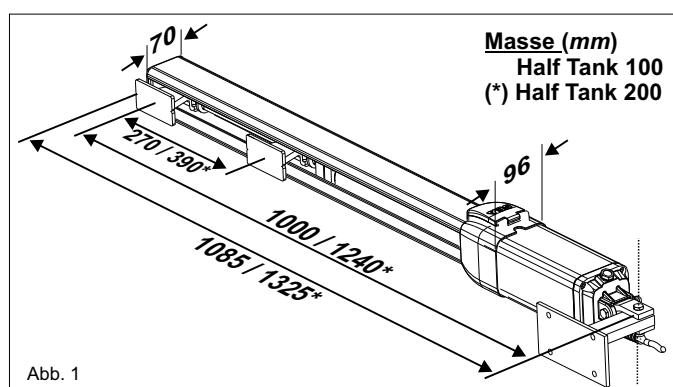
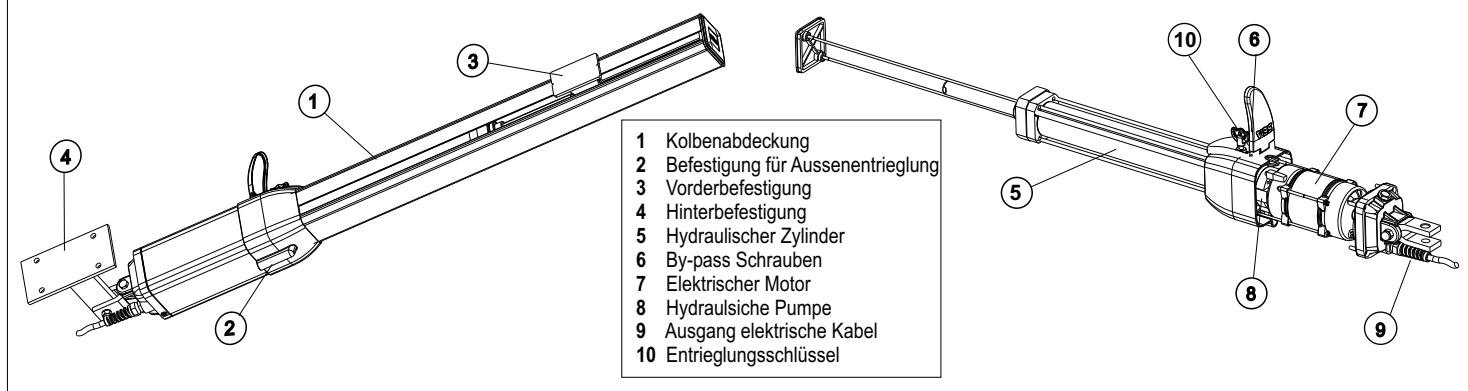
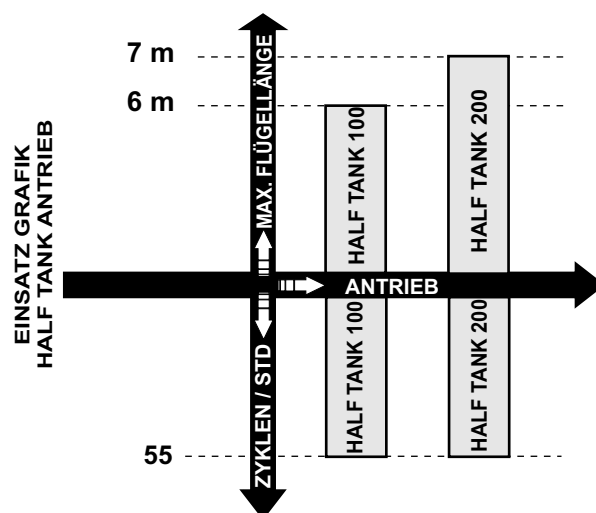


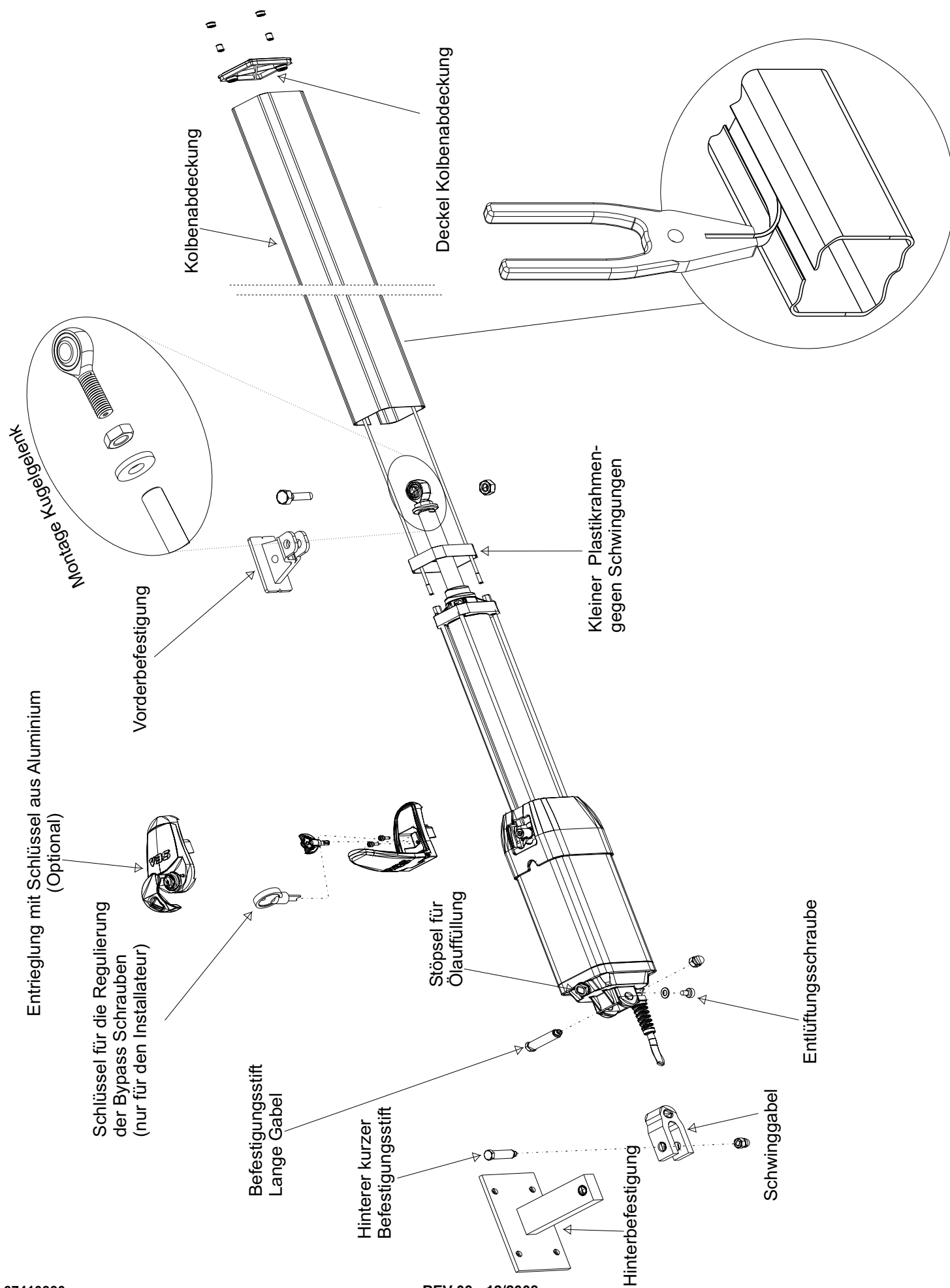
Abb. 1

Abb. 2



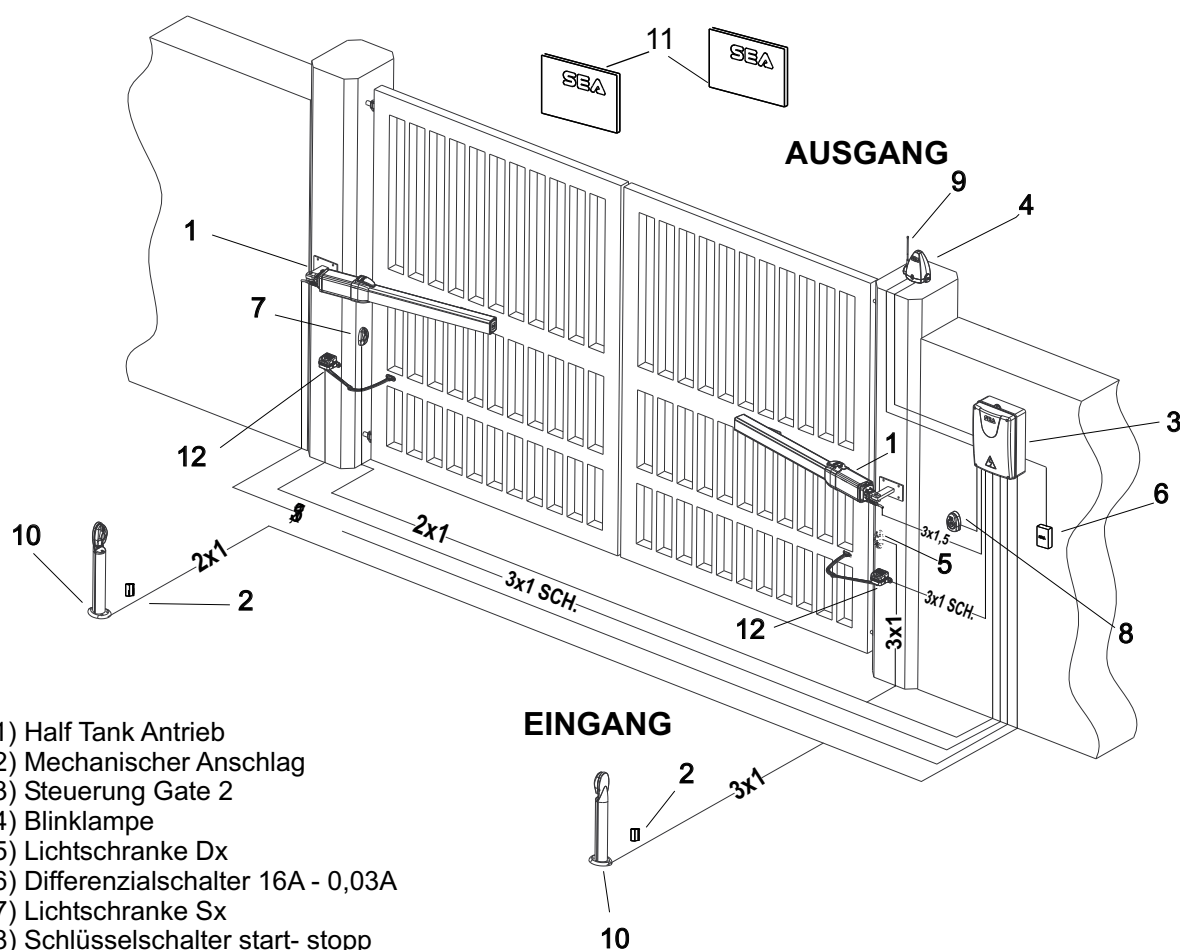
TECHNISCHE DATEN	HALF TANK 100	HALF TANK 200
Speisung	230 V (±5%) 50/60 Hz	
Kraft	220 W	
Stromverbrauch	1 A	
Kolbenlauf	270 mm	390 mm
Zyklen/Std (Temp. 20°C)	55	
Max. Betriebsdruck	40 bar	30 bar
Betriebstemperatur	-40°C +60°C	
Motor Thermoschutz	130°C	
Max Schubkraft	640 daN	470 da N
Kondensator	12,5uF	
Gewicht	11,4 Kg	13,6 Kg
Schutzgrad	Ip55	
Max. Flügelänge	6 mt	7 mt
Öffnungsgrad Flügel	90° - 125°	







TYPINSTALLIERUNG



- 1) Half Tank Antrieb
- 2) Mechanischer Anschlag
- 3) Steuerung Gate 2
- 4) Blinklampe
- 5) Lichtschranke Dx
- 6) Differenzialschalter 16A - 0,03A
- 7) Lichtschranke Sx
- 8) Schlüsselschalter start- stopp
- 9) Antenne
- 10) Säule für Lichtschranke mit Lichtschranke
- 11) Warnschilder
- 12) Safety Gate

INSTALLIERUNGSTYP

Es ist möglich den Half Tank Antrieb mit Öffnungsrichtung nach Innen (Abb. 14) oder nach Aussen zu installieren (Abb. 15)

Installation Öffnung nach Innen

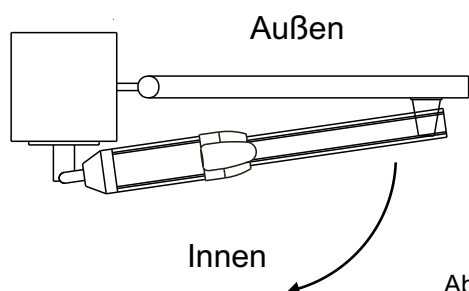


Abb. 4

Installation Öffnung nach Außen

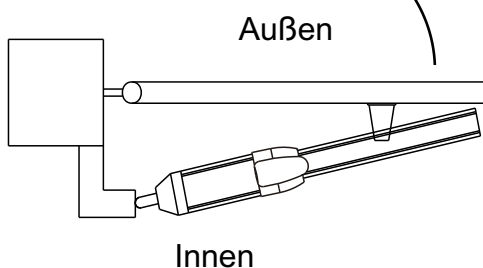
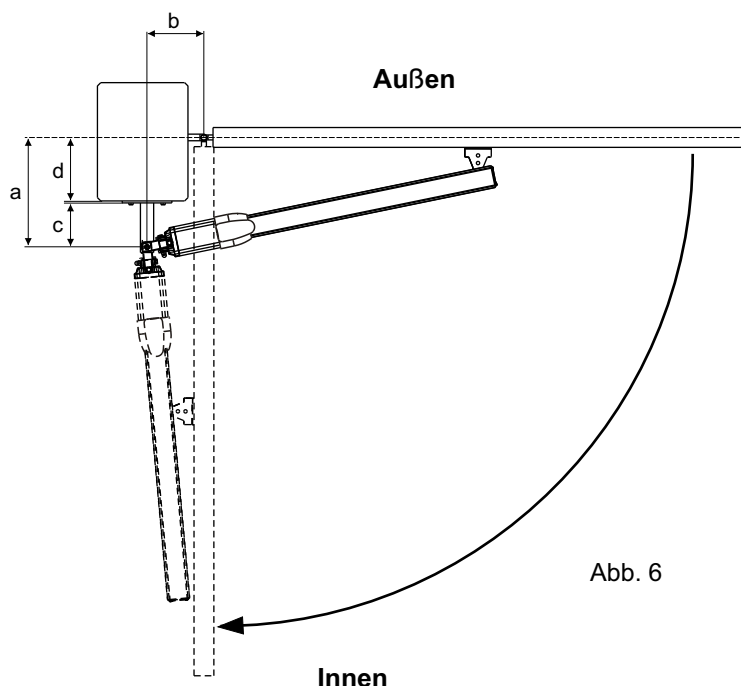


Abb. 5



Den Antrieb immer auf der Torinnenseite installieren (Grundstückseite)

INSTALLIERUNG ÖFFNUNG NACH INNEN

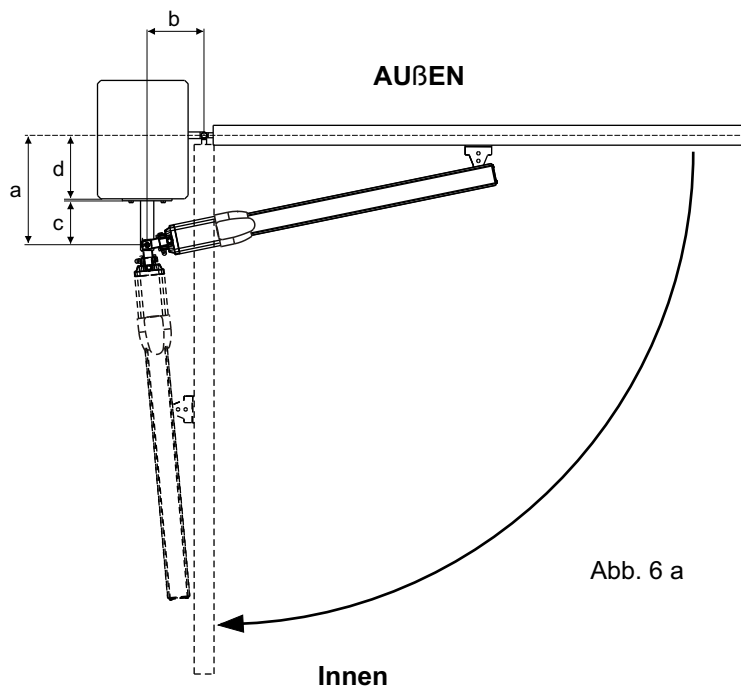


Totale Laufl. 270 mm- Max. empfohlene Laufl. 250 mm

a (mm)	b (mm)	d _{max} (mm)	Max. Öffnungs-Winkel	Max. Kolben-lauf (mm)	Kolbenlauf für 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	

Um mit d > 55 mm 110° zu erhalten muss eine Nische im Tor hergestellt werden.

INSTALLATION ÖFFNUNG NACH INNEN

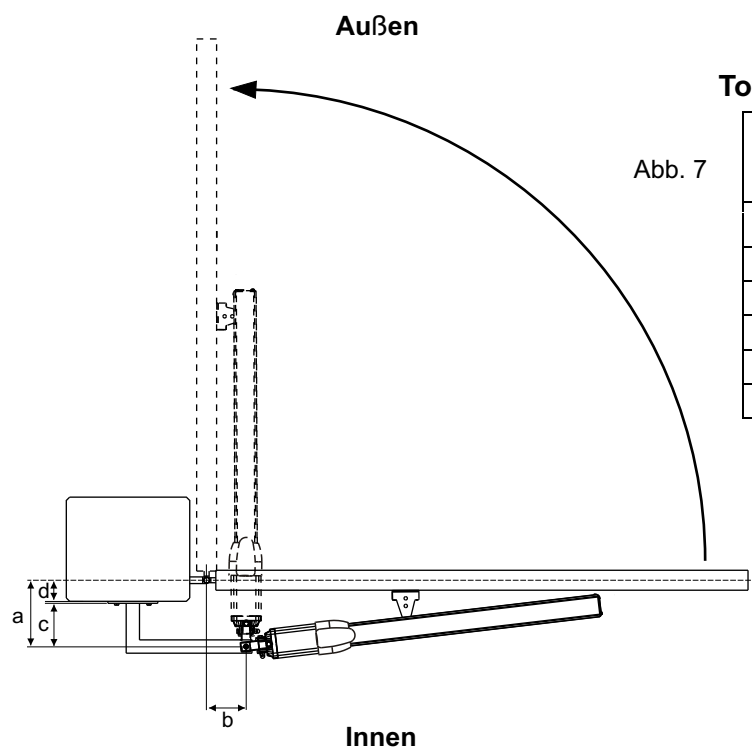


Totale Laufl. 390 mm- Max. empfohlene Laufl. 370 mm

a (mm)	b (mm)	d _{max} (mm)	Max. Öffnungs-Winkel	Max. Kolben-lauf (mm)	Kolbenlauf für 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	

Um mit d > 55 mm 125° zu erhalten muss eine Nische im Tor hergestellt werden.

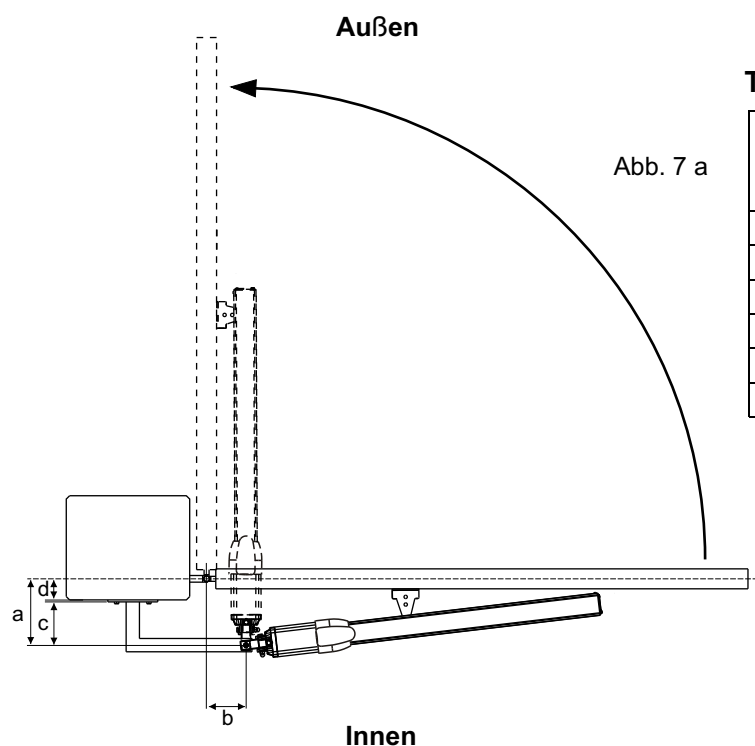
INSTALLATION ÖFFNUNG NACH AUßSEN



Totale Laufl. 270 mm- Max. Empfohlene Laufl. 250 mm

a (mm)	b (mm)	Max. Öffnungs- Winkel	Max. Kolben- lauf (mm)	Kolbenlauf für 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	

INSTALLATION ÖFFNUNG NACH AUSSEN



Totale Laufl. 390 mm- Max. empfohlene Laufl. 370 mm

a (mm)	b (mm)	Max. Öffnungs- Winkel	Max. Kolben- lauf (mm)	Kolbenlauf für 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	



INSTALLATION SCHWINGGABEL

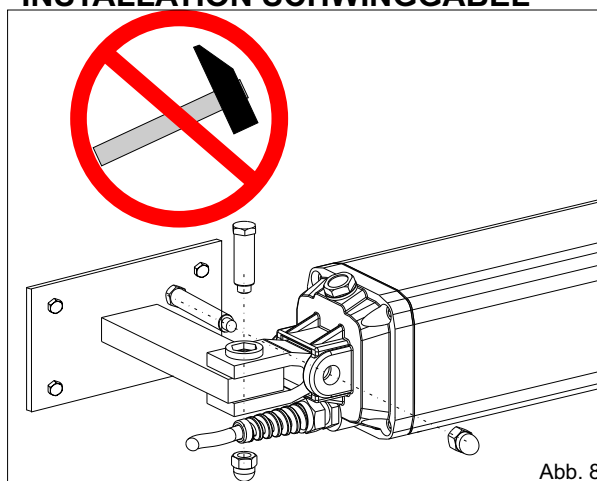


Abb. 8

VORWORT

-Vorsichtig die Verpackung öffnen und darauf achten, dass keines der Bauteile, die unter Abb. 3 aufgeführt sind, verloren geht.

-Die Schwinggabel wie in Abb. 9 befestigen.

Achtung: Den kurzen Messingstift nicht mit dem Hammer in die Gabel und den Bügel einführen, sondern einfach mit der Hand hineindrücken.

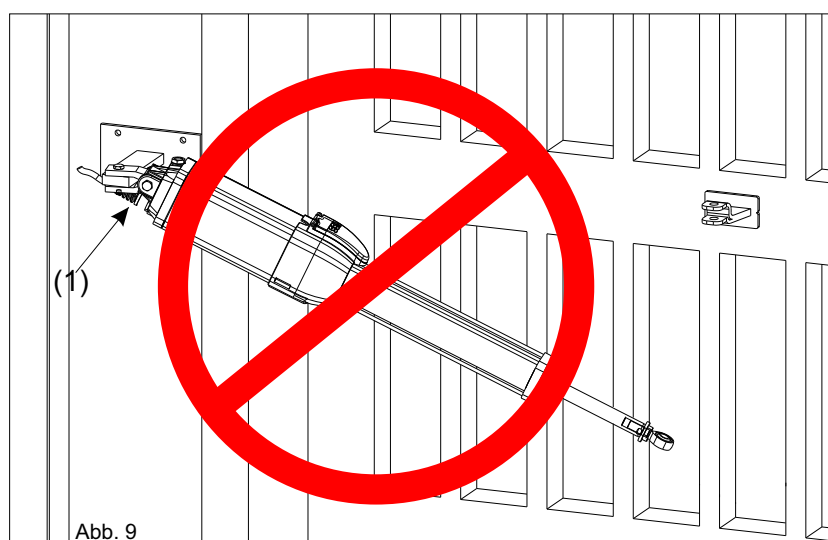


Abb. 9

ACHTUNG:

Den hydraulischen Antrieb nicht über den erlaubten Winkel der Schwinggabel (1) beugen, sie könnte dabei brechen.

MONTAGE HINTERBEFESTIGUNG

Entsprechend dem ausgewählten Öffnungstyp (nach Aussen oder nach Innen) und je nach ausgewählter Rotation des Flügels (siehe Seite 5), muss der Bügel zuerst entsprechend der Quote "a" auf Seite 5 geschnitten und danach, wie in Abb. 10 festgeschweisst werden.

Die Stütze muss so positioniert werden, dass sich der Antrieb in horizontaler Position befindet. (Abb. 10, Abb.12).

Regulierbare Hinterbefestigung (mit Schrauben) (Zubehör auf Anfrage)

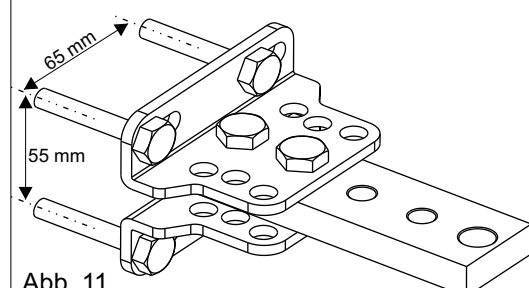


Abb. 11

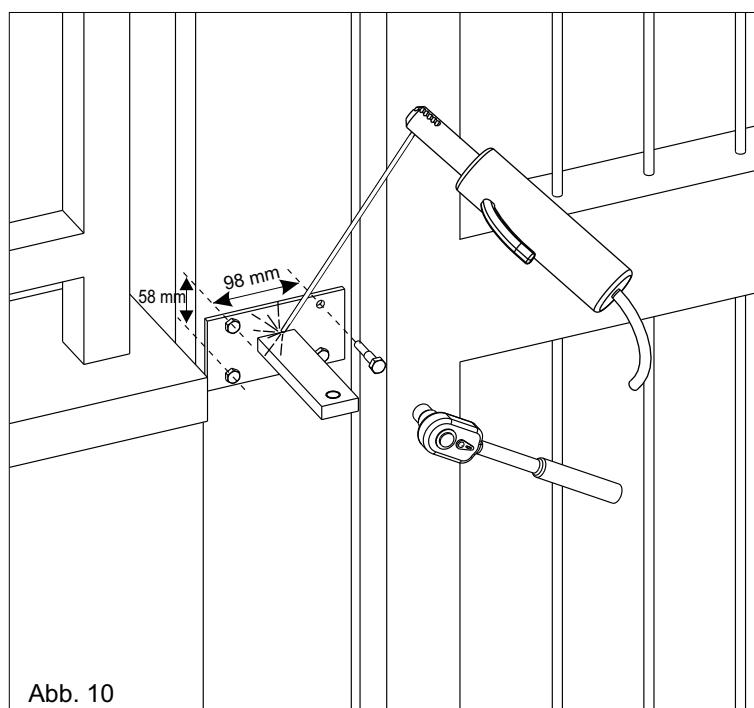


Abb. 10

POSITIONIERUNG der VORDERBEFESTIGUNG

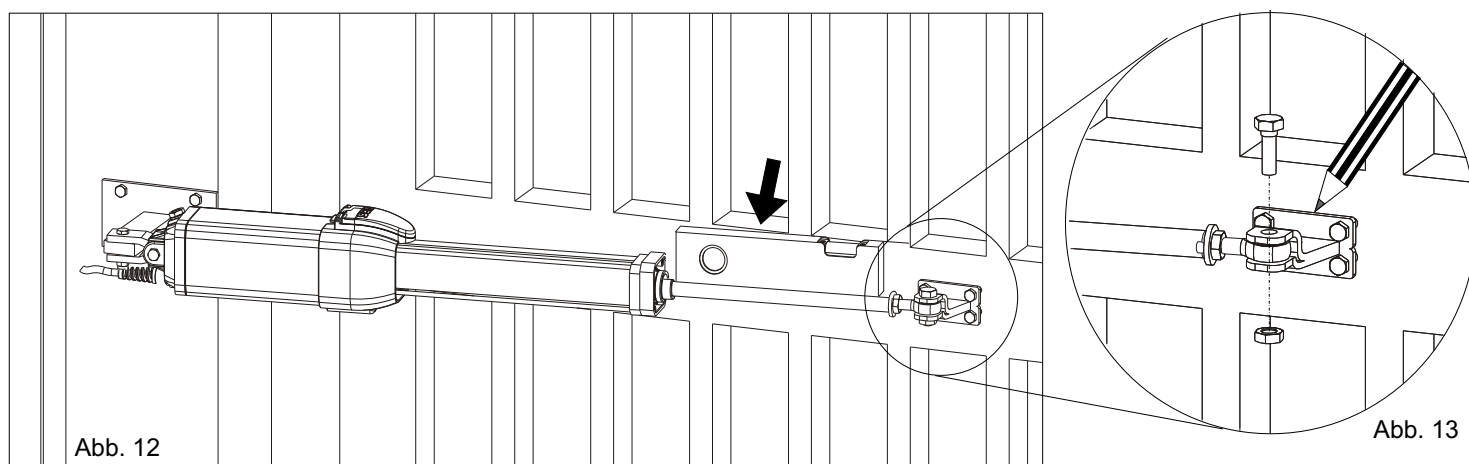
Nachdem der Antrieb auf der Hinterbefestigung angebracht wurde den Torflügel schliessen und wie folgt vorgehen.

- 1) Den Antrieb entriegeln (wie in Abb. 23 auf Seite 11)
- 2) Den verchromten Kolben komplett herausziehen, danach um **mindestens 1 cm wieder zurück drücken**.

- 3) Den Kolben auf der Vorderbefestigung anbringen (Abb. 13)

- 4) Den Antrieb horizontal platzieren und die Position der Vorderbefestigung markieren (Abb.12).

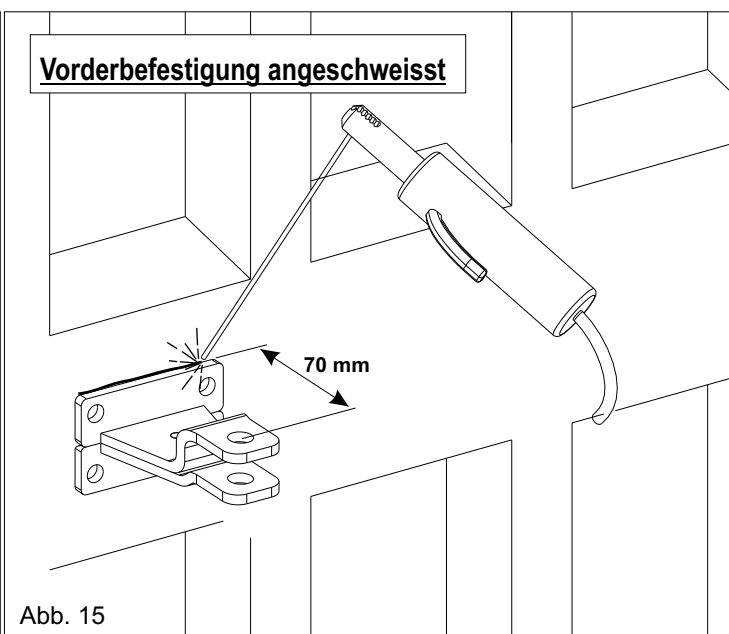
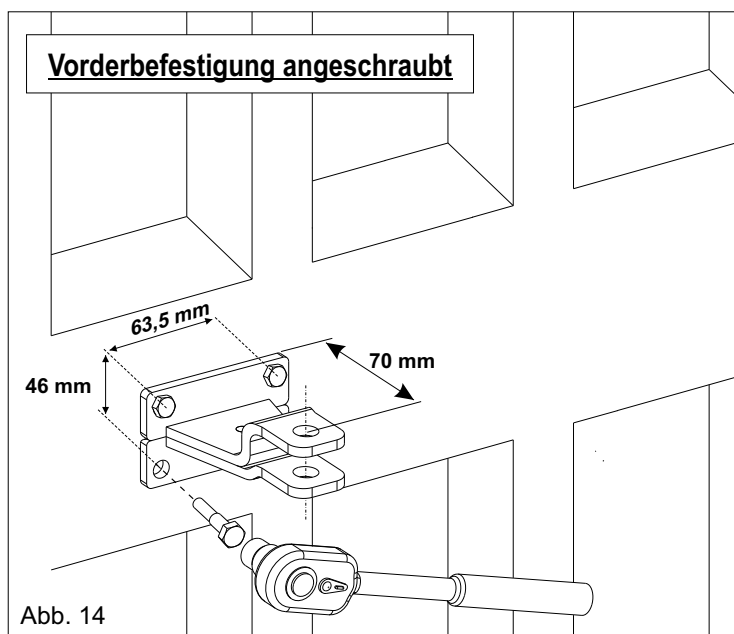
Achtung: die Vorderbefestigung nicht mit bereits befestigtem hydraulischen Antrieb festschweiessen, eventuelle Schweisssspritzer könnten dessen Verchromung beschädigen.



SCHWEISSUNG DER VORDERBEFESTIGUNG AN DAS TOR

Die Hinterbefestigung muss so positioniert werden, dass sich der Antrieb in horizontaler Position befindet.

Die Vorderbefestigung kann entsprechend der Torstruktur (Holz, Eisen, Aluminium) entweder festgeschraubt oder festgeschweisst werden.-



INSTALLIERUNG DER ENDSCHALTERANSCHLÄGE (Zubehör auf Anfrage)

- Die Einheit entriegeln (wie in Abb.23 auf Seite 11)
- Den Kolben 3/4 aus seinem Lauf herauskommen lassen
- Den Endschalteranschlag mit zwei der drei Zugstangen, die sich auf dem Vorderflansch befinden und parallel zum Tor stehen anbringen (Abb. 16)
- Die Anschläge mit den mitgelieferten Schrauben befestigen.
- Nun den Kolben an der Vorderbefestigung einhängen
- Den Anschlag in Öffnung auf Scheibe 1 und in Schliessung auf Scheibe 2 regulieren.

Achtung: Durch die Montage des mechanischen Anschlags wird der Kolbenlauf nicht verringert.

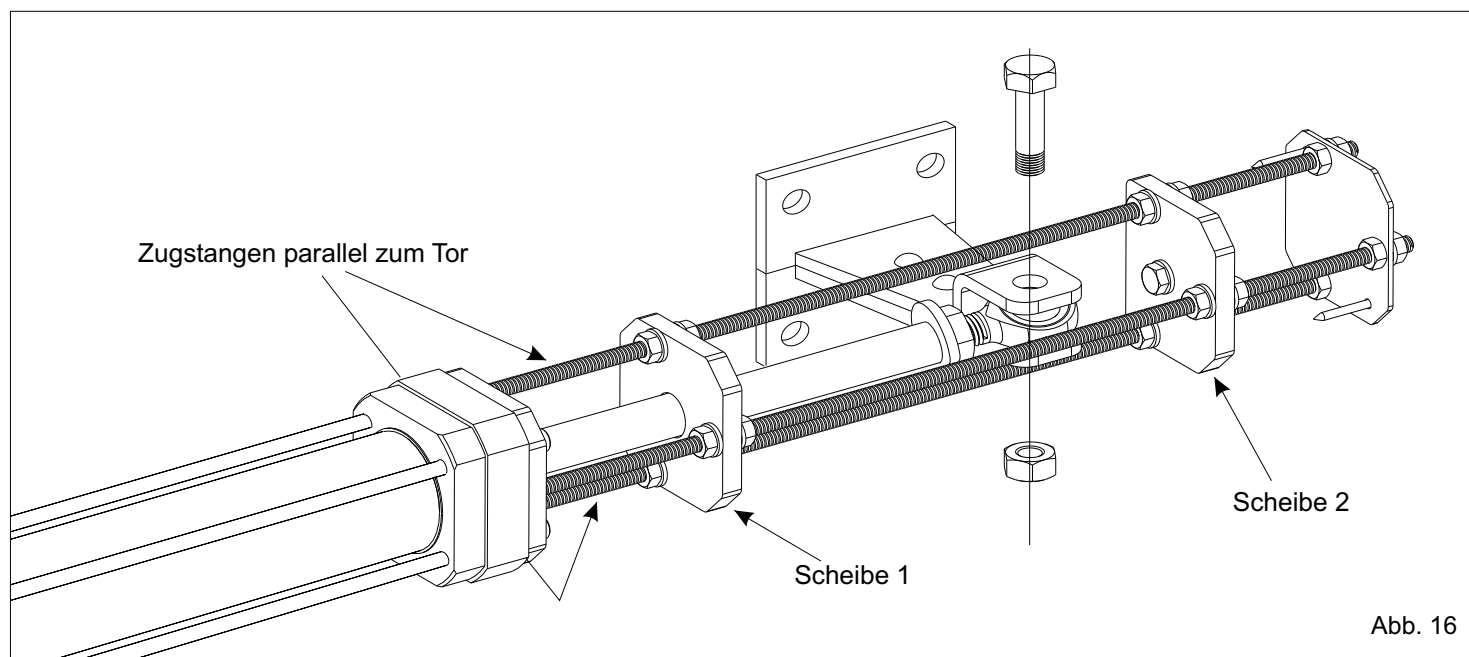


Abb. 16

ENTLÜFTUNGSSCHRAUBE

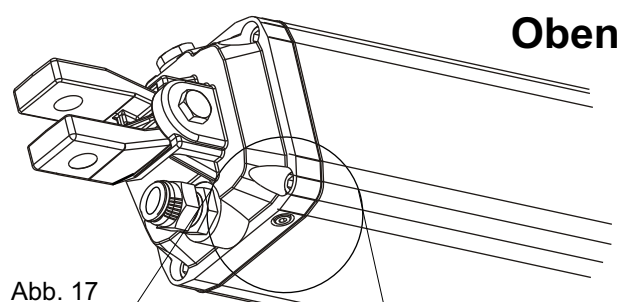
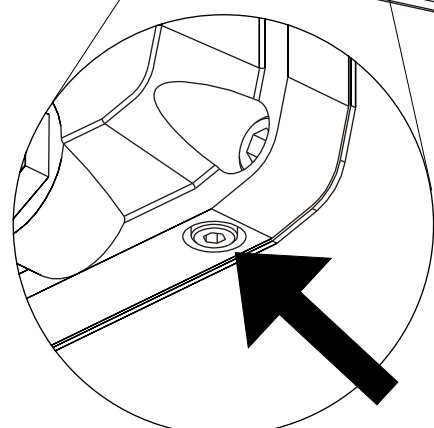


Abb. 17



Unten



ACHTUNG!

Am Ende der Installation müssen die Entlüftungsschrauben entfernt werden



Am Ende der Installation abschrauben und entfernen

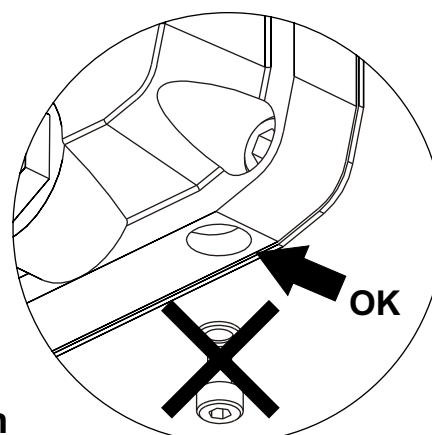


Abb. 18



INSTALLIERUNG DER VERCHROMTEN KOLBENABDECKUNG

Vor Installation der Kolbenabdeckung (Abb. 19), muss der Antivibrationsrahmen aus Plastik eingeführt werden (A)

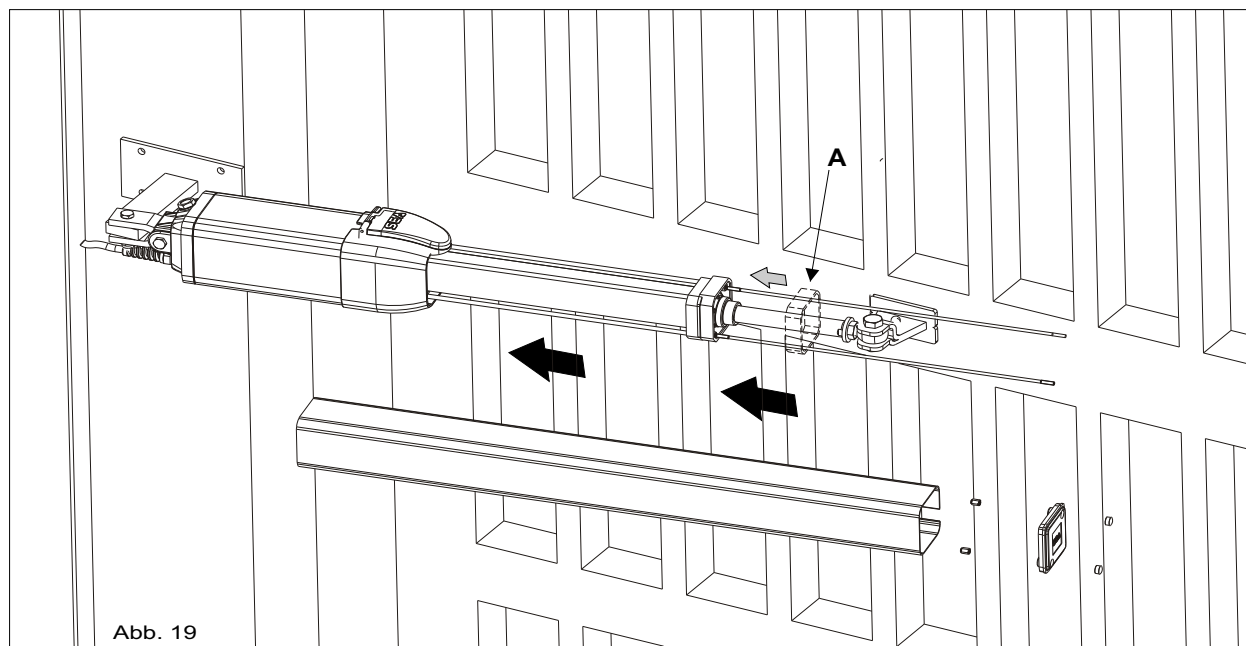


Abb. 19

EINSTELLUNG DREHMOMENT (By-Pass Schrauben)

Bei einer Erstinstallation darf der Entrieglungsdeckel, sowie die Bypass Abdeckung nicht sofort wieder eingesetzt werden. In diesem Fall siehe Abb. 20 und 22.

Sollte die Bypass Schraubeneinstellung zu einem anderen Zeitpunkt durchgeführt werden, auf Grund von, z.B. periodischer Wartung oder anderem, muss die Schraube, die die Bypassabdeckung blockiert, entfernt werden (Abb.21), dann die Bypass Abdeckung abnehmen und schliesslich den Druck der Bypass Ventile mit Hilfe des (nur für den Installateur) mitgelieferten Schlüssels einstellen. (Abb.22)

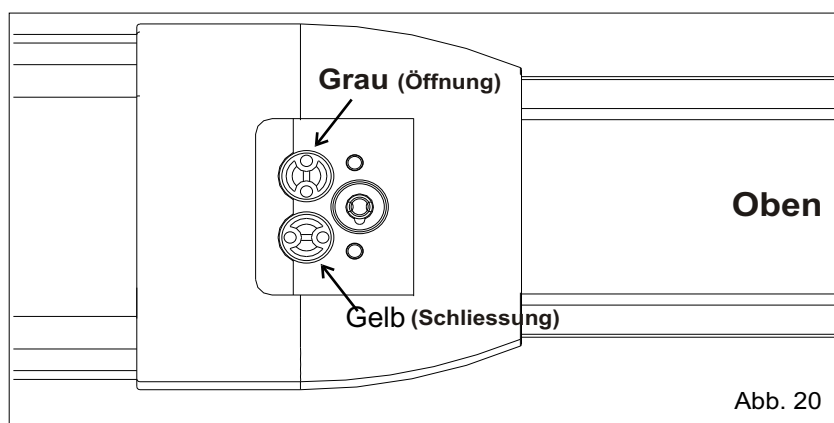


Abb. 20

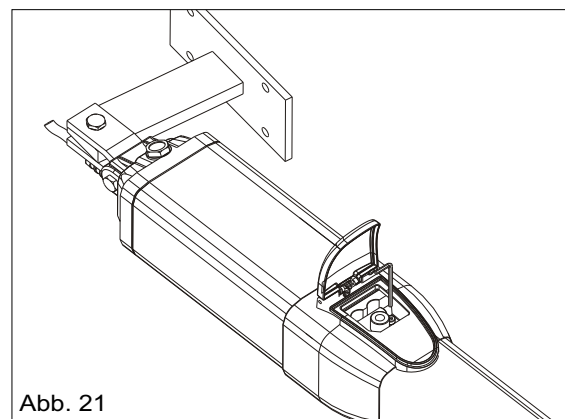
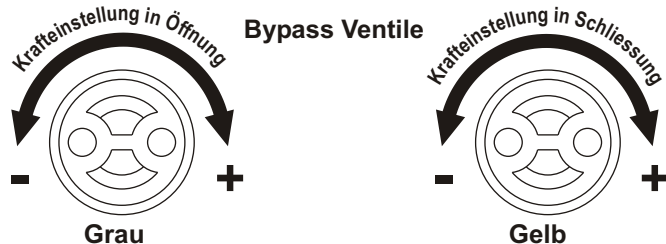


Abb. 21



Die Krafteinstellung des Tores in Öffnung und in Schliessung so einstellen, dass das Kraftdiagramm (in der Richtlinie En12453 enthalten) respektiert wird; die Schubkraft darf auf keinen Fall höher als 15KgF sein.

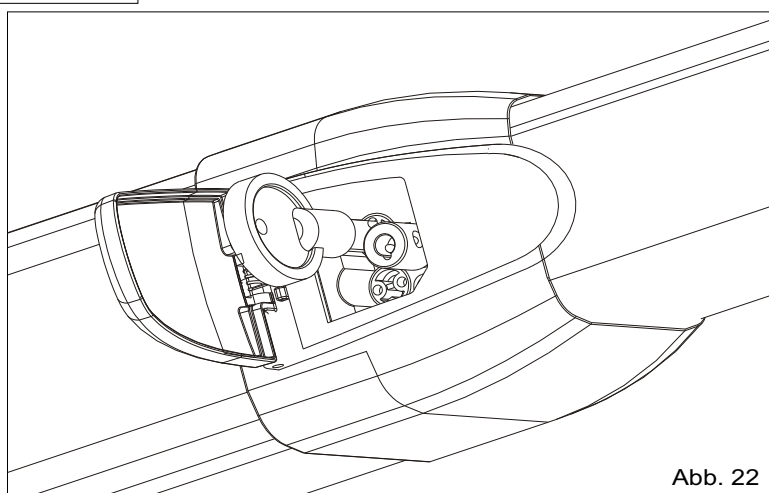


Abb. 22

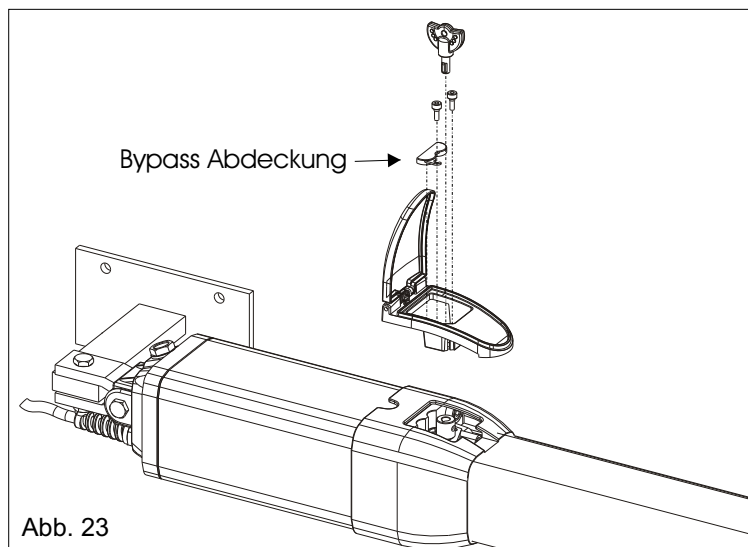


Abb. 23

MONTAGE PLASTIKENTRIEGLUNG

ACHTUNG: Erst nach Beendigung aller Installationsarbeiten, Montage der Kolbenabdeckung und Eichung der Bypass Schrauben kann die Montage der Plastikentrieglung (wie in Abb. 23) durchgeführt werden.

MONTAGE ALUMINIUMENTRIEGLUNG MIT SCHLÜSSEL (Zubehör auf Anfrage)

ACHTUNG: Erst nach Beendigung aller Installationsarbeiten, Montage der Kolbenabdeckung und Eichung der Bypass Schrauben kann die Montage der Aluminiumentrieglung (wie in Abb. 24) durchgeführt werden.

Der Entrieglungsschlüssel wird im Innern der Aluminiumentrieglungsabdeckung aufbewahrt. (Abb. 25)

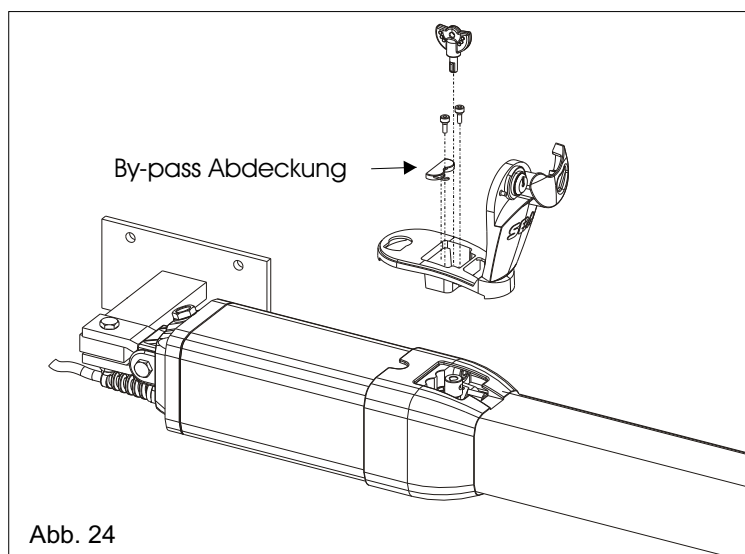


Abb. 24

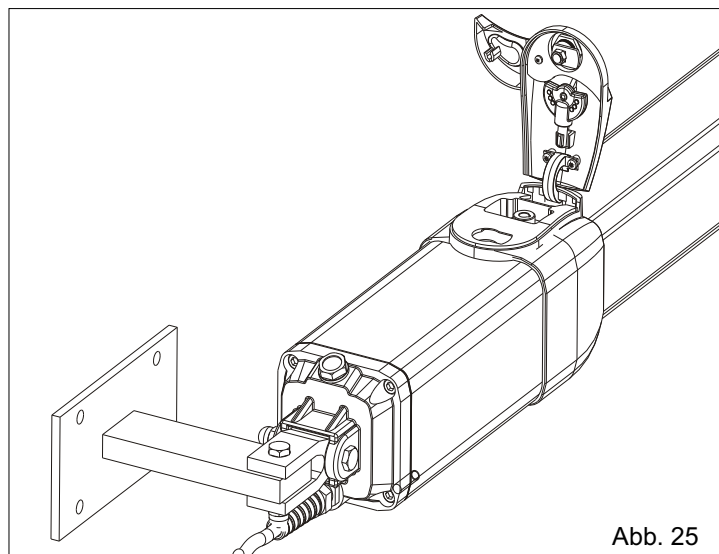


Abb. 25

MONTAGE AUSEENENTRIEGLUNG (Zubehör auf Anfrage)

ACHTUNG: Die Montage der Aussenentrieglung muss, wie in Abb. 26 und 27 angegeben, durchgeführt werden. Für mehr Information im Montageanleitungshandbuch (im Montagekit der Aussenentrieglung für Half Tank beige packt) nachschlagen.

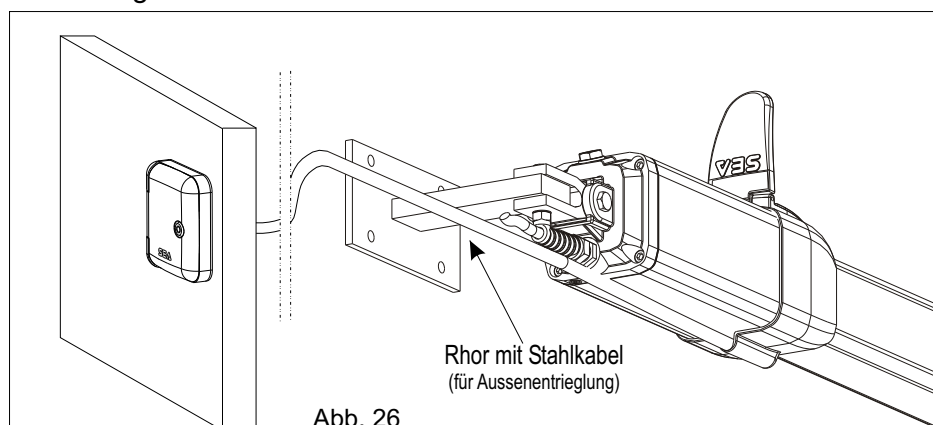


Abb. 26

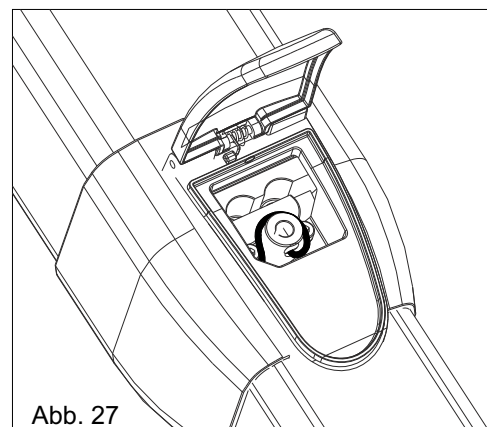


Abb. 27

ENTRIEGLUNGSSYSTEM

Um den Antrieb zu entriegeln wie folgt vorgehen:

-Den Schlüssel einführen und gegen den Uhrzeigersinn um 180° drehen (Abb. 28)

Um den Antrieb erneut zu blockieren wie folgt vorgehen:

-Den Schlüssel einführen und im Uhrzeigersinn bis zur Schliessung drehen (Abb.28).

Achtung : Vor der Entriegelung immer die Stromzufuhr unterbrechen

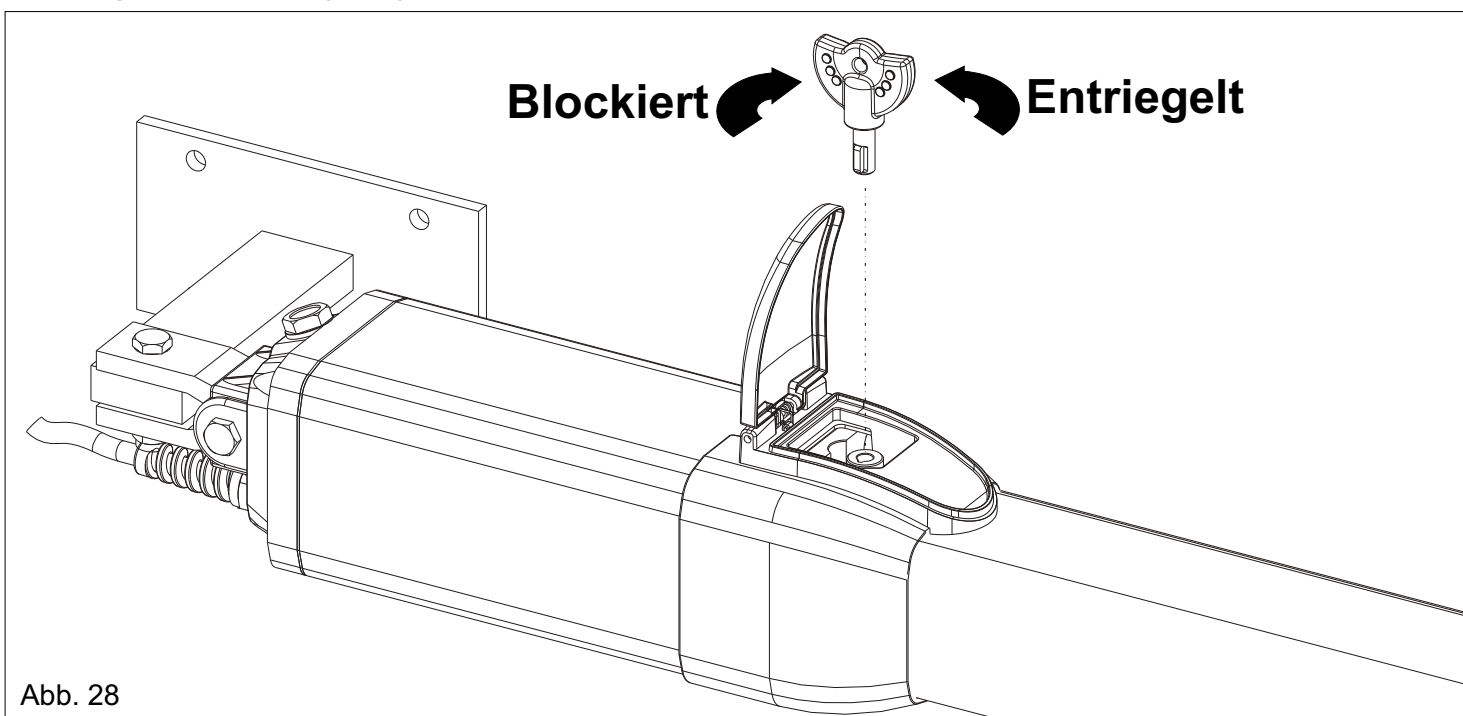


Abb. 28

PERIODISCHE WARTUNG

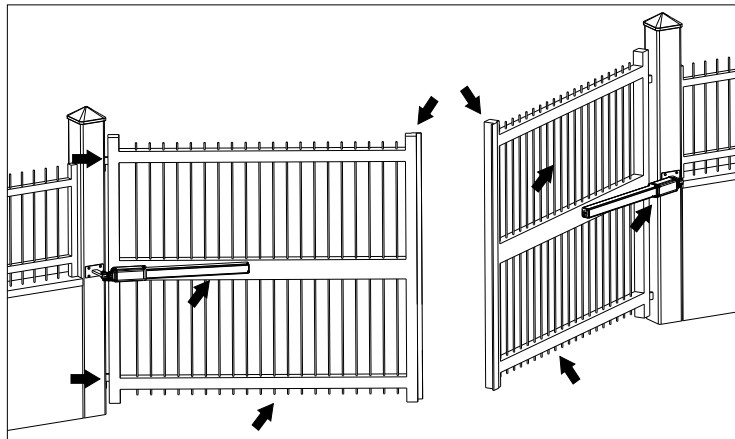
1) Die Robustheit und die Stabilität des Tores, besonders die Stützpunkte und/oder die Rotation des Tores (Angeln) kontrollieren.	Jährlich
2) Den Ölstand der hydraulischen/im Ölbad Antriebe überprüfen (Stöpsel auf der Hinterabdeckung des Half Tank)	Jährlich
3) Das hydraulische Öl mit dem vom Hersteller empfohlen Öl auswechseln	4 Jahre
4) Die Funktionstüchtigkeit der Entriegelung kontrollieren	Jährlich
5) Die Funktionstüchtigkeit der Bypass Ventile kontrollieren	Jährlich
6) Die Befestigungsstifte kontrollieren und schmieren	Jährlich
7) Die Unversehrtheit der Verbindungskabel kontrollieren	Jährlich
8) Die Funktionstüchtigkeit und den Zustand der Endschalteranschlüsse in Öffnung und Schliessung kontrollieren (dort wo mechanische Anschläge montiert sind)	Jährlich
9) Sicherstellen, dass alle Teile, die besonders stark belastet werden (Hinterbefestigung, Schwinggabel und Vorderbefestigung) in einem einwandfreien Zustand sind.	Jährlich
10) Die Funktionstüchtigkeit aller Zubehöre, besonders die aller Sicherheitsvorrichtungen und des Safety Gate überprüfen.	Jährlich
11) Nachdem die periodische Wartung durchgeführt wurde, muss dessen Abnahme wiederholt und der Antrieb in Betrieb gesetzt werden.	Jährlich

Die hier oben angegebenen Arbeiten, müssen von einem autorisierten Installateur durchgeführt werden.

12. GEFAHRENANALYSE

Die in Abb. 38 mit Pfeilen gekennzeichneten Punkte sind potentiell gefährlich. Der Installateur muss eine gründliche Prüfung der Risiken vornehmen, um Quetschungen, Mitreissen, Schnitte, Verhakungen und Fallen vorzubeugen und um eine für Menschen, Tiere und Dinge sichere Installation zu gewährleisten.

Bei Unklarheiten, wenden sie sich bitte an den Gebietshändler oder rufen Sie uns an. Diese Anleitungen sind fester Bestandteil des Antriebs und müssen an einem Ihnen bekannten Ort aufbewahrt werden. Der Installateur muss sich strikt an die Anleitungen halten. Die SEA s.r.l.



Produkte dürfen nur für die Automatisierung von Türen, Toren und Flügeln benutzt werden. Sämtliche Initiativen die ohne ausdrückliche Genehmigung von Seiten der Fa. SEA ergriffen werden, entledigen SEA jeglicher Verantwortung. Der Installateur muss den Kunden über nicht einschätzbare Restrisiken informieren. Mit dem Ziel ihre Produkte ständig zu verbessern, hat SEA das Recht jegliche Art von Änderung durchzuführen, ohne vorher ihre Kunden darüber zu informieren. Dies verpflichtet die Fa. SEA jedoch nicht dazu, ihre vorhergehenden Produktionen zu verbessern. SEA kann nicht für Schäden oder Unfälle verantwortlich

gemacht werden, die durch kaputte Produkte entstanden sind oder wenn es sich um Schäden oder Unfälle handelt, die auf die Nichtbeachtung der in diesem Handbuch aufgeführten Anleitung zurückzuführen sind. Die Garantie ist ungültig und die Verantwortung des Herstellers nichtig, wenn nicht SEA Originalersatzteile verwendet wurden. Die elektrische Installierung muss von einem Elektriker durchgeführt werden, der, entsprechend der geltenden Richtlinien, die notwendigen Unterlagen ausstellt.

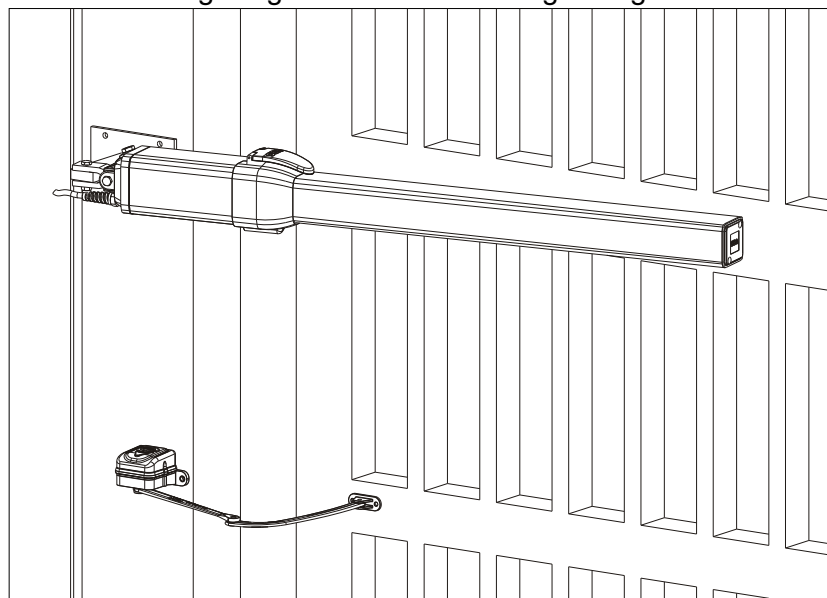
Verpackungsmaterial, wie Plastiktüten, Polystyrol, Nägel, usw. aus der Reichweite von Kindern halten, da sie potentielle Gefahren darstellen.

ANFANGSTEST UND INBETRIEBSETZUNG

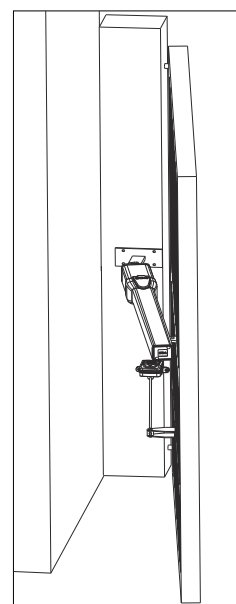
Nachdem der HALF TANK Antrieb, wie in diesem Handbuch beschrieben korrekt installiert wurde und nach Einschätzung aller Restrisiken, die in jeder Installation aufkommen können, ist es notwendig die Installation zu testen, um die höchste Sicherheit zu garantieren und um speziell zu gewährleisten, dass die entsprechenden Gesetze und Richtlinien in diesem Sektor respektiert wurden. Der Testlauf muss speziell nach der En12445 Richtlinie durchgeführt werden, die, die Testmethoden zur Überprüfung der Torantriebe unter Einhaltung der von der Richtlinie **EN 12453**. festgesetzten Grenzwerte festlegt.

SAFETY GATE

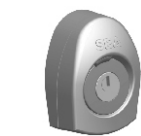
Für eine korrekte und sichere Installation wird es strengstens empfohlen ein Safety Gate zu installieren, das, das in der Richtlinie EN 12453 enthaltene Diagramm der Kräfte respektiert und folglich die Abnahme und die Inbetriebsetzung der gesamten Installation ermöglicht.



ACHTUNG : Im Falle einer Installation, wie in Abbildung rechts, ist es möglich das Safety Gate mit geradem Bügel zu benutzen (Löst das Problem der Aussmasse des Arms, siehe Abbildung links)



ZUBEHÖR HALF TANK



SCHLÜSSELSCHALTER



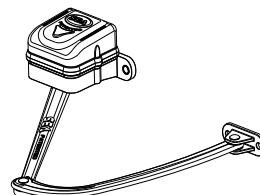
LICHTSCHRANKEN



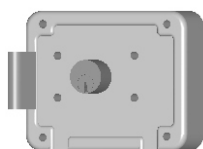
FUNKEMPFÄNGER



HANDESENDER



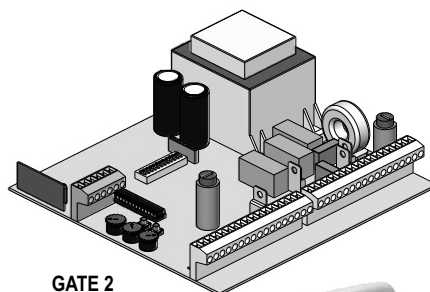
SAFETY GATE



ELEKTROSCHLOSS



LESER (AUSSER)
MAGNETSCHLEIFE



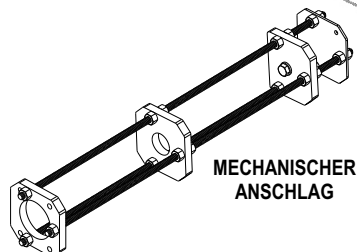
GATE 2
STEUERUNG



BLINKLAMPE



SÄULE FÜR
LICHTSCHRANKE



MECHANISCHER
ANSCHLAG



KIT AUSSERENTRIEGLUNG

KONFORMITÄTSERKLÄRUNG

SEA erklärt unter ihrer eigenen Verantwortung, dass das Produkt

Half Tank in allen seinen Ausführungen

den grundlegenden Anforderungen die von den folgenden europäischen Richtlinien und nachfolgenden Änderungen vorgesehen sind (wo anwendbar) entspricht:

98/37/CE (Maschinenrichtlinie)

89/336/CEE (Elektromagnetische Verträglichkeit)

73/23/CEE (Niederstromrichtlinie)

HINWEIS

Die Installation der elektrischen Anlage und die Wahl der Betriebslogik sind gemäß den jeweils geltenden gesetzlichen Bestimmungen vorzunehmen. Auf jeden Fall einen Differential-Schutzschalter 16A und Schwellenwert 0,030A vorsehen. Die Stromkabel (Motoren, Stromzufuhr) sind von den Steuerungskabeln (Schalter, Lichtschranken, Funk, etc.) zu trennen. Zur Vermeidung von Störungen, wird empfohlen, zwei getrennte Isolierhülsen zu verwenden.

EINSATZ

Der HALF TANK Antrieb wurde ausschließlich für die Automatisierung von Schwingtoren hergestellt

ERSATZTEILE

Anfragen nach Ersatzteilen bitte an folgende Adresse richten:

SEAs.r.l. Zona Ind.le, 64020 S.ATTO Teramo - Italien

SICHERHEITSBESTIMMUNGEN UND UMWELTVERTRÄGLICHKEIT

Verpackungsmaterial des Produkts und/oder der Schaltkreise umweltgerecht entsorgen.

Das Produkt nur mit dafür geeigneten Transportmitteln transportieren.

GEWÄHRFRIST

Für den HALF TANK Antrieb wird eine Garantie von 36 Monaten gewährt. Maßgebend für die Geltendmachung der Garantieansprüche ist das auf dem Produkt aufgeführte Datum. Die Garantie ist nur dann gültig, wenn das Produkt keine Schäden aufweist, die auf eine unsachgemäße Verwendung oder auf jegliche Art von Änderungen oder Eingriffe zurückzuführen sind. Die Garantie gilt ausschließlich für den ursprünglichen Käufer.

AUSSERBETRIEBSETZUNG UND WARTUNG

Die Disinstallation und/oder Ausserbetriebsetzung und/oder Wartung des Half Tank Antriebs darf ausschliesslich von einem dazu befugtem Fachmann ausgeführt werden.

HINWEIS: DER HERSTELLER ÜBERNIMMT KEINE HAFTUNG FÜR SCHÄDEN, DIE DURCH EINE UNSACHGEMÄSSE, FEHLERHAFTE UND UNGEEIGNETE VERWENDUNG VERURSACHT WURDEN.

SEA räumt sich das Recht ein, ohne Benachrichtigungspflicht, die für ihre Produkte und/oder dieses Handbuch erforderlichen Änderungen oder Varianten durchzuführen.



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